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Also admitted in Massachusetts and New York

December 2, 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**
940 Waterbury Road, Waterbury, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and associated equipment on the ground near the base of the tower. The tower was approved by the Siting Council ("Council") in February of 2007 (Docket No. 321). Cellco's use of the tower were approved by the Council October of 2008 (EM-VER-151-080922). A copy of the Docket No. 321 Decision and Order and EM-VER-151-080922 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) new Samsung MT6407-77A antennas and six (6) MX06FRO660-03 antennas on Cellco's existing antenna platform. Cellco also intends to replace six (6) remote radio heads ("RRHs') with six (6) new RRHs behind its antennas. A set of project plans showing Cellco's proposed facility modifications and 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 the City's Chief Elected Official and Land Use Officer.

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 its existing antenna platform mount.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's 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, tower foundation and antenna platform, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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).

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
Neil M. O'Leary, Waterbury Mayor
Robert Nerney, City Planner
Pine Grove Cemetery Association, Property Owner
Karla Hanna, Verizon Wireless

ATTACHMENT 1

DOCKET NO. 321 – Optasite, Inc. and Omnipoint Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility at 940 Meriden Road in Waterbury, Connecticut.	}	Connecticut Siting Council

February 27, 2007

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Pubic Need, as provided by General Statutes § 16-50k, be issued to Optasite, Inc. for the construction, maintenance and operation of a wireless telecommunications facility to be located at 940 Meriden Road in Waterbury, Connecticut.

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

1. The tower shall be designed as a steel monopole and shall be constructed no taller than 110 feet above ground level to provide telecommunications services to both public and private entities.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the City of Waterbury and all parties and intervenors, as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:

   a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antenna mountings, equipment building, access road, utility line, and landscaping; and

   b) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council in the event other carriers locate at this facility or if circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new state or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

6. The Certificate Holder shall provide reasonable space on the tower for no compensation for any City of Waterbury public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.

7. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.

8. Any request for extension of the time period referred to in Condition 7 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the City of Waterbury. Any proposed modifications to this Decision and Order shall likewise be so served.

9. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

10. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.

11. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

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

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

The parties and intervenors in this proceeding are:

Status Granted	**Status Holder (name, address & phone number)**	**Representative (name, address & phone number)**
Applicant	Optasite, Inc. One Research Drive, Suite 200C Westborough, MA 01581 Omnipoint Communications, Inc. 100 Filley Street Bloomfield, CT 06002	Julie Kohler, Esq. Carrie L. Larson, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604 (203) 368-0211 (203) 394-9901 fax jkohler@cohenandwolf.com clarson@cohenandwolf.com
Intervenor *(approved at the hearing on November 21, 2006)*	Sprint/Nextel Corporation	Thomas J. Regan Brown Rudnick Berlack Israels LLP CityPlace I, 185 Asylum Street Hartford, CT 06103-3402 (860) 509-6500 (860) 509-6501 fax

CERTIFICATION

The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in DOCKET NO. 321 – Optasite, Inc. and Omnipoint Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 940 Meriden Road in Waterbury, Connecticut, and voted as follows to approve the proposed site located at 940 Meriden Road in Waterbury, Connecticut:

Council Members	Vote Cast
Daniel F. Caruso, Chairman	Yes
Colin C. Tait, Vice Chairman	Absent
Commissioner Donald W. Downes Designee: Gerald J. Heffernan	Absent
Commissioner Gina McCarthy Designee: Brian J. Emerick	Yes
Philip T. Ashton	Absent
Daniel P. Lynch, Jr.	Yes
James J. Murphy, Jr.	Yes
Dr. Barbara Currier Bell	Yes
Edward S. Wilensky	Yes

Dated at New Britain, Connecticut, February 27, 2007.

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

October 21, 2008

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

RE: **EM-VER-151-080922** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 940 Meriden Road, Waterbury, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 22, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/MP/cm

c: The Honorable Michael J. Jarjura, Mayor, City of Waterbury
Gil Grabeline, Zoning Enforcement Officer, City of Waterbury
Carrie L. Larson, Pullman & Comley, LLC

ATTACHMENT 2

WIRELESS COMMUNICATIONS FACILITY

SITE NAME:
WATERBURY EAST CT

SBA SITE # CT13070
940 MERIDEN RD.
WATERBURY, CT 06705

ANTENNA MODIFICATION

PROJECT SUMMARY	
SITE NAME:	WATERBURY EAST CT
SITE ADDRESS:	940 MERIDEN RD. WATERBURY, CT 06705
PROPERTY OWNER:	PINE GROVE CEMETERY ASSOCIATION 850 MERIDEN RD. WATERBURY, CT 06705
TOWER OWNER/MGMT:	SBA SITE # CT13070
PARCEL ID:	0302-0377-0070
COORDINATES:	41° 33' 11.8008" N 72° 59' 36.0996" W
VERIZON CONSTRUCTION:	WALTER CHARCZYNSKI (860) 306-1806
VERIZON REAL ESTATE:	ALEX TYURIN (860) 550-3195

AERIAL VIEW

SHEET INDEX	
DE-1	TITLE SHEET
DE-2	COMPOUND PLAN & ELEVATION
DE-3	ANTENNA PLANS & ELEVATION
DE-4	RF PLUMBING DIAGRAM & B.O.M.
DE-5	GENERAL CONSTRUCTION NOTES

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

STATE OF CONNECTICUT — DAVID A. WEINPAHL — NO. 22144 — LICENSED PROFESSIONAL ENGINEER

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

SUBMITTALS

NO	DATE	DESCRIPTION
0	09.21.23	REVIEW

DRAWN BY:	MF
CHECKED BY:	DW

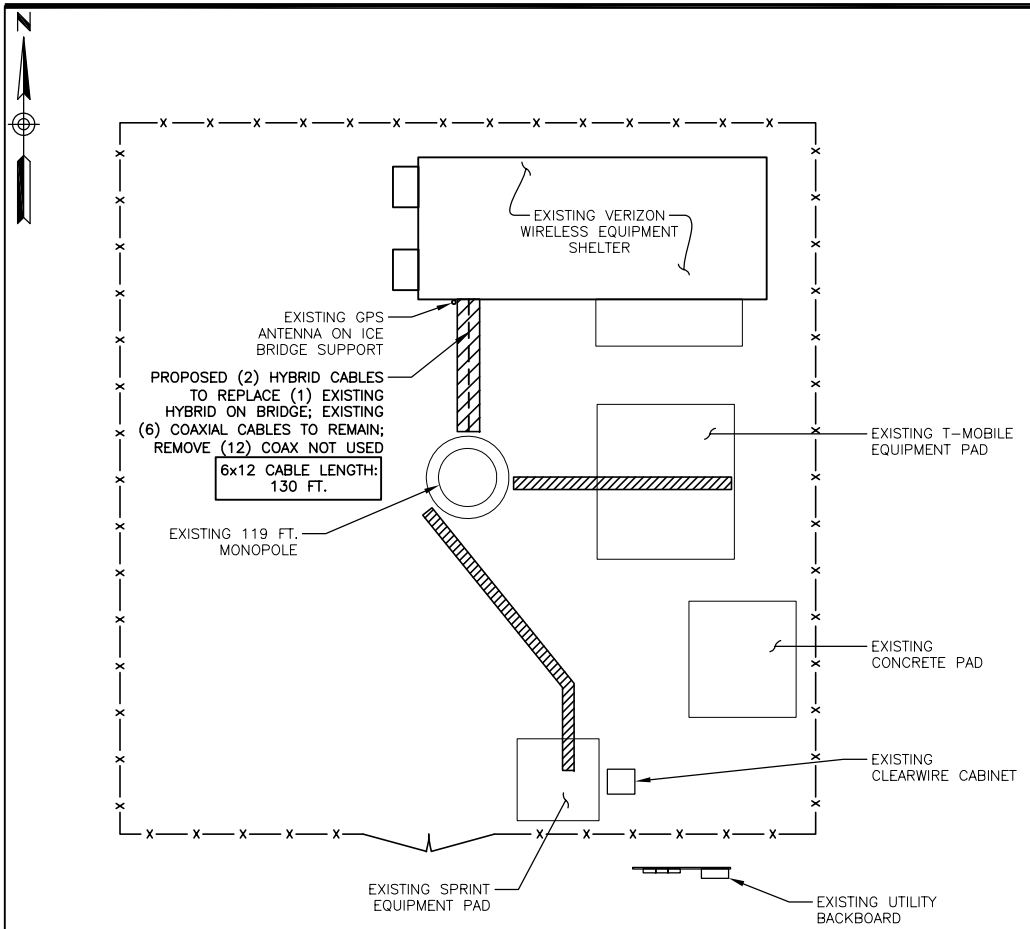
PROJECT NAME:
ANTMO
MT6407-850-LTE-PCS
DESIGN EXHIBITS

SITE NAME:
WATERBURY EAST CT

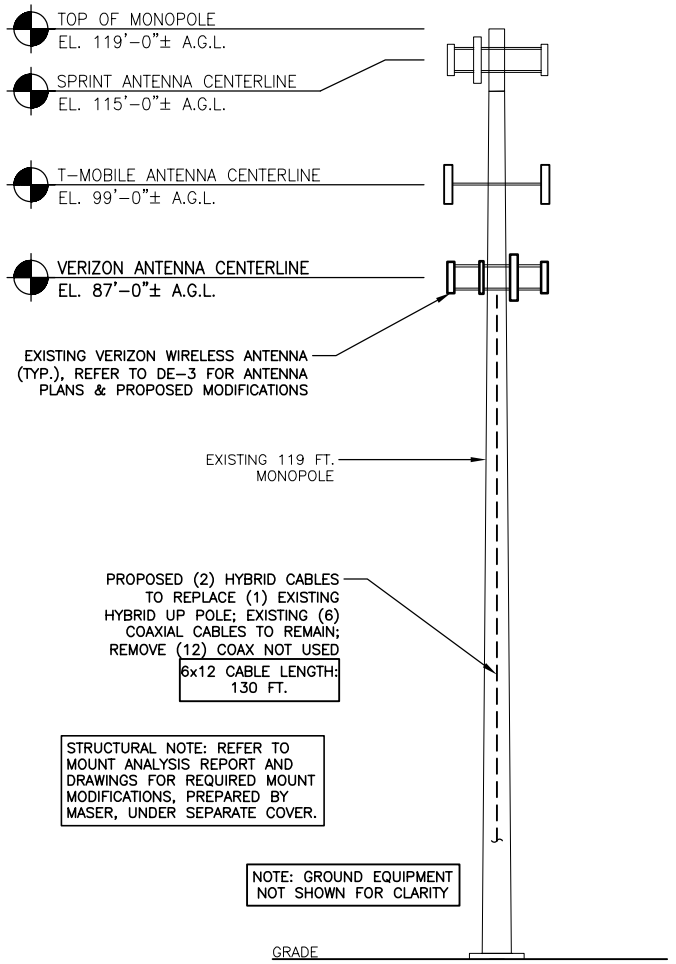
SITE ADDRESS:
SBA SITE # CT13070
940 MERIDEN RD.
WATERBURY, CT 06705

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
DE-1



1 / DE-2 COMPOUND PLAN
Scale: 3/32" = 1'-0"



STRUCTURAL NOTE: REFER TO MOUNT ANALYSIS REPORT AND DRAWINGS FOR REQUIRED MOUNT MODIFICATIONS, PREPARED BY MASER, UNDER SEPARATE COVER.

NOTE: GROUND EQUIPMENT NOT SHOWN FOR CLARITY

2 / DE-2 ELEVATION
Scale: NTS

NOTES:
1. SITE LAYOUT IS COMPILED FROM EXISTING DRAWINGS ON FILE WITH THE CT SITING COUNCIL AND A LIMITED DESIGN VISIT ON 01-14-21 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.

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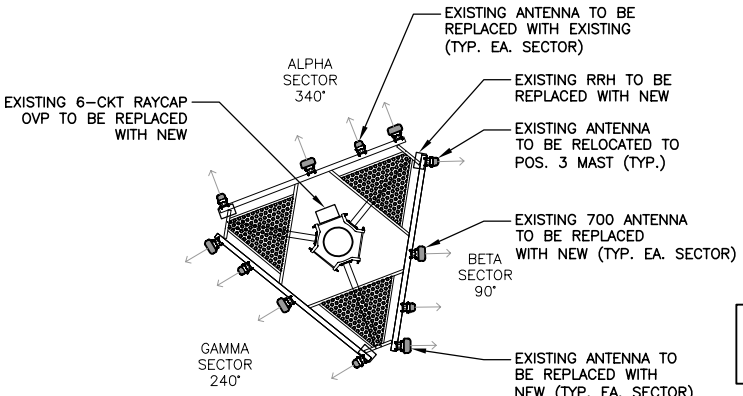
SBA SITE # CT13070
940 MERIDEN RD.
WATERBURY, CT 06705

SHEET TITLE:
COMPOUND PLAN
& ELEVATION

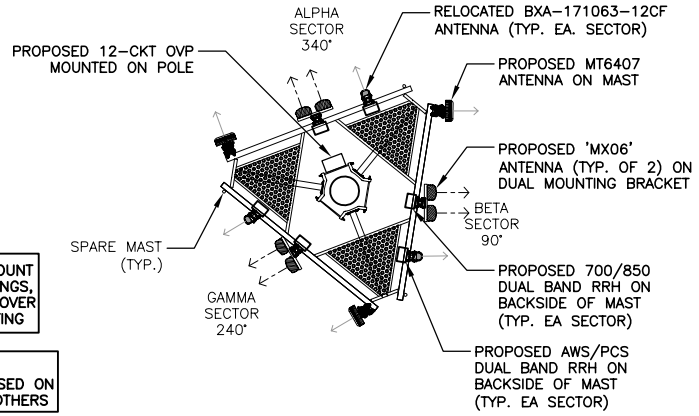
SHEET NUMBER:
DE-2



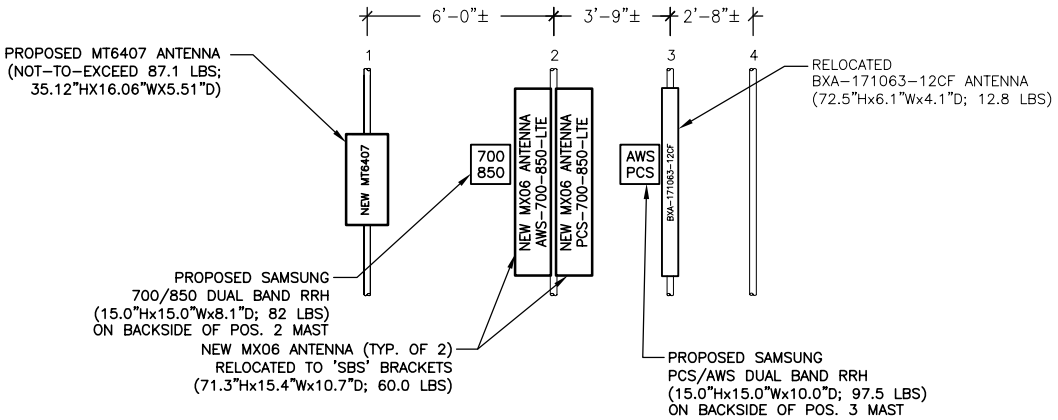
1 DE-3 ANTENNA PLAN @ 87 FT. - EXISTING
Scale: 1/8" = 1'-0"

NOTE: REFER TO MOUNT MODIFICATION DRAWINGS, UNDER SEPARATE COVER BY MASER CONSULTING

NOTE: NEW DUAL RRH LOCATIONS SHOWN BASED ON MOUNT ANALYSIS BY OTHERS



2 DE-3 ANTENNA PLAN @ 87 FT. - PROPOSED
Scale: 1/8" = 1'-0"



(VIEWED FROM BEHIND SECTOR)

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

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0	09.21.23	REVIEW

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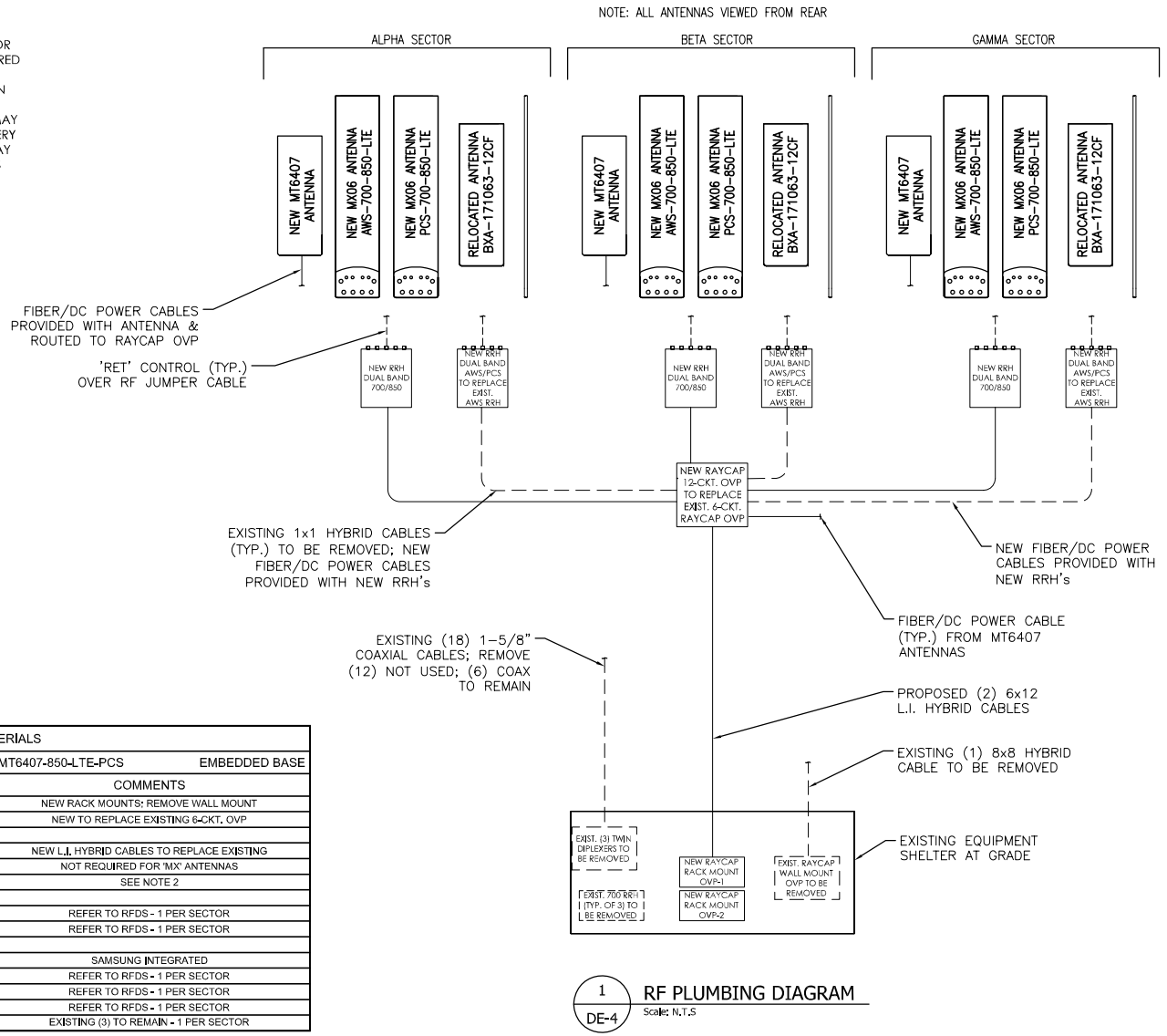
SITE ADDRESS:
SBA SITE # CT13070
940 MERIDEN RD.
WATERBURY, CT 06705

SHEET TITLE:
ANTENNA PLANS & ELEVATION

SHEET NUMBER:
DE-3

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.



1 DE-4 RF PLUMBING DIAGRAM
Scale: N.T.S

BILL OF MATERIALS			
SITE NAME: WATERBURY EAST CT	ANTMO MT6407-850-LTE-PCS		EMBEDDED BASE
DESCRIPTION	QTY	LENGTH	COMMENTS
6-CKT. LOWER OVP	2	-	NEW RACK MOUNTS: REMOVE WALL MOUNT
12-CKT. UPPER OVP	1	-	NEW TO REPLACE EXISTING 6-CKT. OVP
6x12 L.I. HYBRID CABLE	2	130 FT.	NEW L.I. HYBRID CABLES TO REPLACE EXISTING
RET CONTROL CABLE	-	-	NOT REQUIRED FOR 'MX' ANTENNAS
1/2" JUMPERS	-	-	SEE NOTE 2
AWS/PCS DUAL BAND RRH	3	-	REFER TO RFDS - 1 PER SECTOR
700/850 DUAL BAND RRH	3	-	REFER TO RFDS - 1 PER SECTOR
MT6407 ANTENNA	3	-	SAMSUNG INTEGRATED
'MX06' AWS-700-850-LTE ANTENNA	3	-	REFER TO RFDS - 1 PER SECTOR
'MX06' PCS-700-850-LTE ANTENNA	3	-	REFER TO RFDS - 1 PER SECTOR
DUAL MOUNTING BRACKET	3	-	REFER TO RFDS - 1 PER SECTOR
BXA-171063-12CF ANTENNA	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR

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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CT LIC NO. 22144

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PROJECT NAME:
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MT6407-850-LTE-PCS
DESIGN EXHIBITS

SITE NAME:
WATERBURY EAST CT

SITE ADDRESS:
SBA SITE # CT13070
940 MERIDEN RD.
WATERBURY, CT 06705

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

SHEET NUMBER:
DE-4

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 PRO*PERTY 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

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 WEINPAHL, P.E.
CT LIC NO. 22144

SUBMITTALS

NO	DATE	DESCRIPTION
0	09.21.23	REVIEW

DRAWN BY:	MF
CHECKED BY:	DW

PROJECT NAME:

ANTMO
MT6407-850-LTE-PCS
DESIGN EXHIBITS

SITE NAME:

WATERBURY EAST CT

SITE ADDRESS:

SBA SITE # CT13070
940 MERIDEN RD.
WATERBURY, CT 06705

SHEET TITLE:

GENERAL CONSTRUCTION NOTES

SHEET NUMBER:

DE-5

SAMSUNG

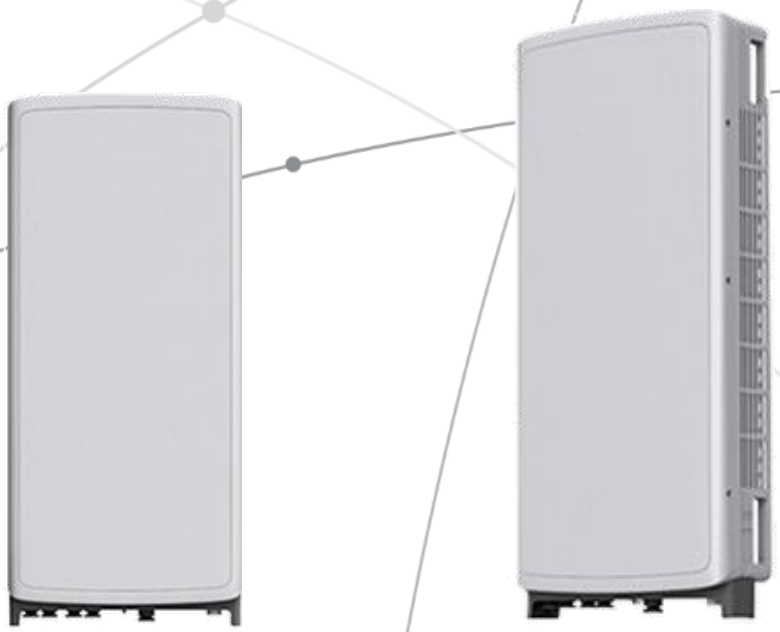
SAMSUNG

C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A

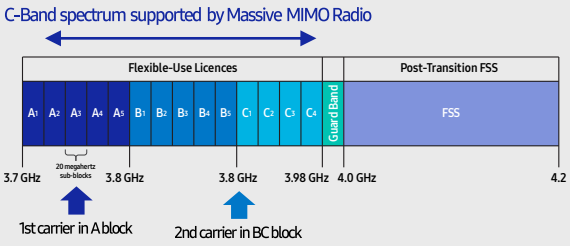


Points of Differentiation

Wide Bandwidth

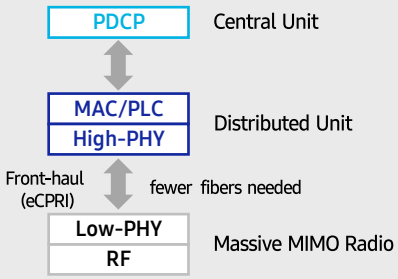
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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



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.

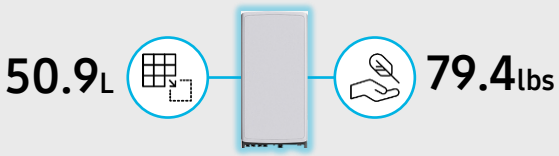
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

SAMSUNG

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

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

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

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

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

Features and Benefits

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

Key Technical Specifications

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

SAMSUNG

Dual-Band Radio Unit
AWS/PCS (B66/B2)
RFV01U-D1A

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

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

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

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

Features and Benefits

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

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
    B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)
    B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)
Instantaneous Bandwidth:
    70MHz(B66) + 60MHz(B2)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 255mm (36.8L)
Weight: 38.3kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

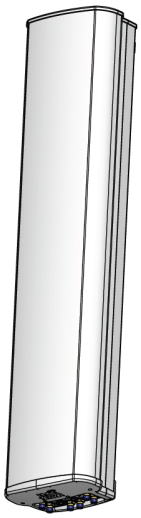
MX06FRO660-03

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

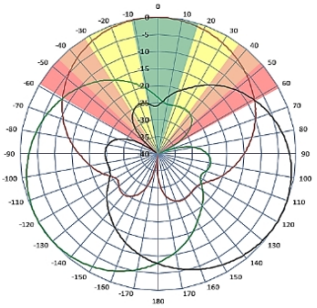


nwav

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



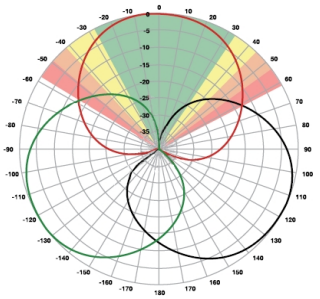
Large traditional antenna pattern overlap creates harmful interference.

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

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.

JMA FRO antenna



Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180
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				

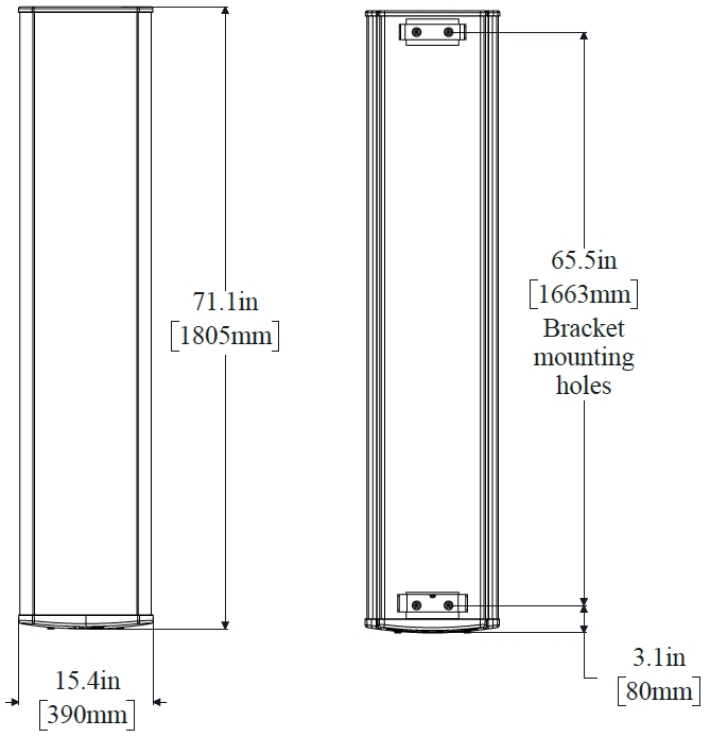
[1] Typical value over frequency and tilt

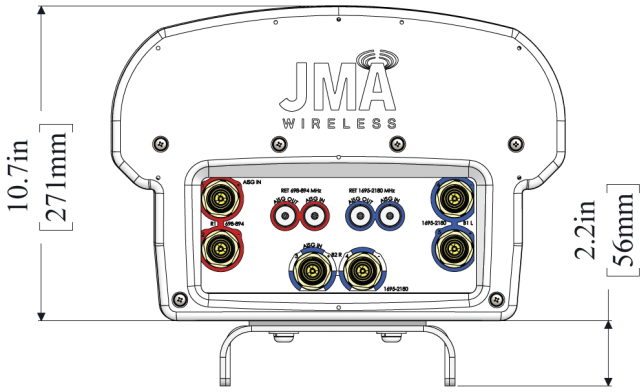
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

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

Front view | **Back view** | **Bottom view**





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

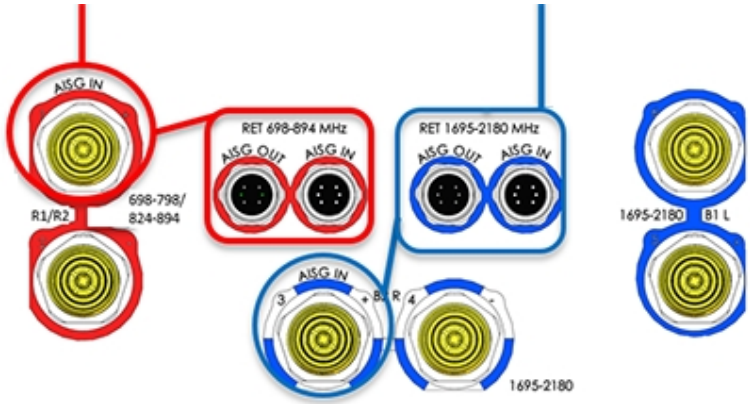
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
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

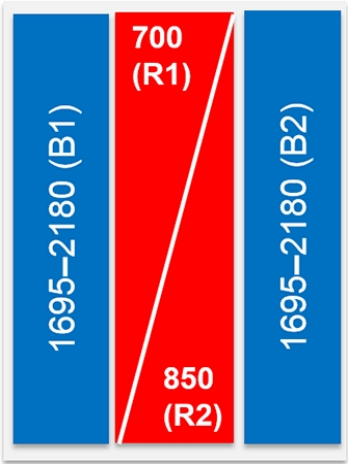


Array topology

3 sets of radiating arrays

R1/R2: 698-894 MHz
B1: 1695-2180 MHz
B2: 1695-2180 MHz

Band	RF port
1695-2180	3-4
698-894	1-2
1695-2180	5-6



ATTACHMENT 3

	General	Power	Density					
Site Name: Waterbury E								
Tower Height: Verizon @ 87ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS.EXP.**	**FRACTION MPE**	**Total**
*Nextel	12	50	107	851	0.021152053	0.567333333	0.003728329	
*Clearwire	1	211	117	11 GHz	0.006158579	1	0.000615858	
*Sprint	1	433	117	850	0.012638222	0.566666667	0.002230274	
*Clearwire	2	433	117	850	0.025276443	0.566666667	0.004460549	
*Clearwire	5	536	117	1900	0.07822271	1	0.007822271	
*Clearwire	2	1340	117	1900	0.07822271	1	0.007822271	
*Clearwire	8	640	117	2500	0.149440402	1	1.49%	
*MetroPCS CDMA	3	727	77	2135	0.15559047	1	1.56%	
*MetroPCS LTE	1	1200	77	2130	0.085606861	1	0.86%	
*T-Mobile	4	1167	99	1900	0.194092598	1	1.94%	
*T-Mobile	2	1167	99	1900	0.097046299	1	0.97%	
*T-Mobile	2	1167	99	2100	0.097046299	1	0.97%	
*T-Mobile	2	592	99	600	0.049229999	0.4	1.23%	
*T-Mobile	1	1578	99	600	0.065612279	0.4	1.64%	
*T-Mobile	2	649	99	700	0.05397005	0.466666667	1.16%	
*T-Mobile	2	2204	99	1900	0.183281957	1	1.83%	
*T-Mobile	2	6413	99	2500	0.533297272	1	5.33%	
*T-Mobile	2	6413	99	2500	0.533297272	1	5.33%	
*T-Mobile	2	2057	99	1900	0.171057616	1	1.71%	
*T-Mobile	2	2308	99	2100	0.1919	1	1.92%	
VZW 700	**4**	**623**	**87**	**751**	**0.0118**	**0.5007**	**2.37%**	
VZW Cellular	**4**	**616**	**87**	**874**	**0.0117**	**0.5827**	**2.01%**	
VZW PCS	**4**	**1428**	**87**	**1975**	**0.0271**	**1.0000**	**2.71%**	
VZW AWS	**4**	**1496**	**87**	**2120**	**0.0284**	**1.0000**	**2.84%**	
VZW CBAND	**4**	**6531**	**87**	**3730.08**	**0.1241**	**1.0000**	**12.41%**	
								50.28%
* Source: Siting Council								

ATTACHMENT 4

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

Structural Analysis Report

Existing 134 ft SABRE Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT13070-A

Customer Site Name: Waterbury 4, CT

Carrier Name: Verizon (App#: 147696-1)

Carrier Site ID / Name: 469379 / Waterbury East CT

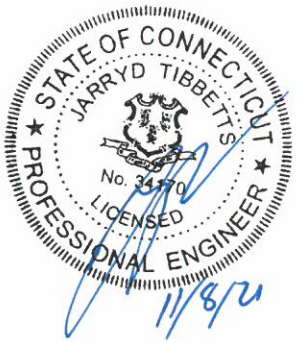
Site Location: 940 Meriden Road

Waterbury, Connecticut

New Haven County

Latitude: 41.553278

Longitude: -72.993361



Analysis Result:

Max Structural Usage: 99.3% [Pass]

Max Foundation Usage: 87.0% [Pass]

Additional Usage Caused by Mount Modification: +0.3%

Report Prepared By: Changzhi Zang

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

Structural Analysis Report

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Additional Usage Caused by Mount Modification:

Report Prepared By: Changzhi Zang

Introduction

The purpose of this report is to summarize the analysis results on the 134 ft SABRE Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Tower Drawing prepared by Sabre, Job #07-03039 dated 4/23/07 Structural Analysis prepared by FDH, Project #12-06C54E S2 dated 6/17/11
Foundation Drawing	Foundation Drawing prepared by Sabre, Job #03039 dated 4/23/07
Geotechnical Report	Geotechnical Report prepared by Gemini Geotechnical Associates, Project #07023CT dated 3/13/07
Modification Drawings	Modification Drawing prepared by FDH, Project #09-01077E S3 dated 10/13/09 TES, Job # 109880, dated June 17, 2021, Mod Drawings and MA by Maser Consulting, Project #: 21777081A, dated 06/23/2021
Mount Analysis	Maser Consulting Connecticut, Project #: 21777081A, dated June 23, 2021

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-

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

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed V_{ult} = 125.0 mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 97.0 mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft
Seismic Parameters:	

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
		3	Cci Antennas TPA65R-BU8DA-K- Panel	(3) SitePro VFA12-M3-WLL (Sector Frame Mounts)	(2) 0.4" Fiber	
			Ericsson Air 6449 N77- Panel			
		3	Cci Antennas DMP65R-BU8DA-K-Panel			
			Ericsson 4478 B14-RRU			
			Ericsson 4415 B30-RRU			
			Ericsson 4449 B5/B12-RRU			
			Ericsson RRUS 8843 B2 B66A-RRU			
			Raycap DC9-48-60-24-8C-EV-OVP			
			Raycap DC6-48-60-18-8C-EV-OVP			
			Nokia - AAHC - Panel	[Platform w/ Handrail]	(3) 1-1/4" Fiber (1) 1.689" Fiber	Sprint Nextel
			Commscope - NNVV-65B-R4 - Panel			
			Andrew - VHLP2.5-11 - Dish			
			ALU - 1900 MHz RRH - RRU			
			ALU - 800 MHz RRH - RRU			
			ALU - TD-RRH8x20-25 - RRU			
				[Platform w/ Handrail]	(2) 1 5/8" Fiber Hybrid	T-Mobile
			RFS APXVAARR24_43-U-NA20 (Octa)			
			Ericsson Air 32 KRD901146-1_B66A_B2A (Octo)			
			Ericsson AIR6449 B41			
			Ericsson KRY 112 489/2			
			Ericsson KRY 112 144/1			
			Ericsson Radio 4449 B71 + B85			
			Ericsson 4415 B25			
			Antel - BXA-80063/4CF - Panel	Low Profile Platform	Hybrid	Verizon
			Andrew - SBNHH-1D65B - Panel			
			Alcatel Lucent - RRH4X45-19 - RRU			
			Alcatel Lucent - RRH2X60-700 - RRU			
			Alcatel Lucent - RRH2X60-PCS - RRU			
			RFS - DB-T1-6Z-8AB-0Z - Distribution Box			

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

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Antel - BXA-171063-12CF-EDIN-X - Panel	Low Profile Platform Modified with [Support Rail Corner Bracket] [Crossover Plate] [Crossover Plate] Mount Pipes (3) Support Rail Corner Brackets (3) Support Rails	Hybrid	Verizon
			JMA Wireless - - Panel			
			Samsung Telecommunications MT6407-77A - Panel			
			Samsung -			
			Samsung -			
			Raycap - RVZDC-6627-PF-48			

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:			
Pass/Fail	**Pass**	**Pass**	**Pass**

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions			

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.1679 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

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

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

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

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

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

Usage Diagram - Max Ratio 86.72% at 0.0ft

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT	**Exposure:**	C	
Height:	134.00 (ft)	**Gh:**	1.1	
Base Elev:	0.000 (ft)			Page: 1

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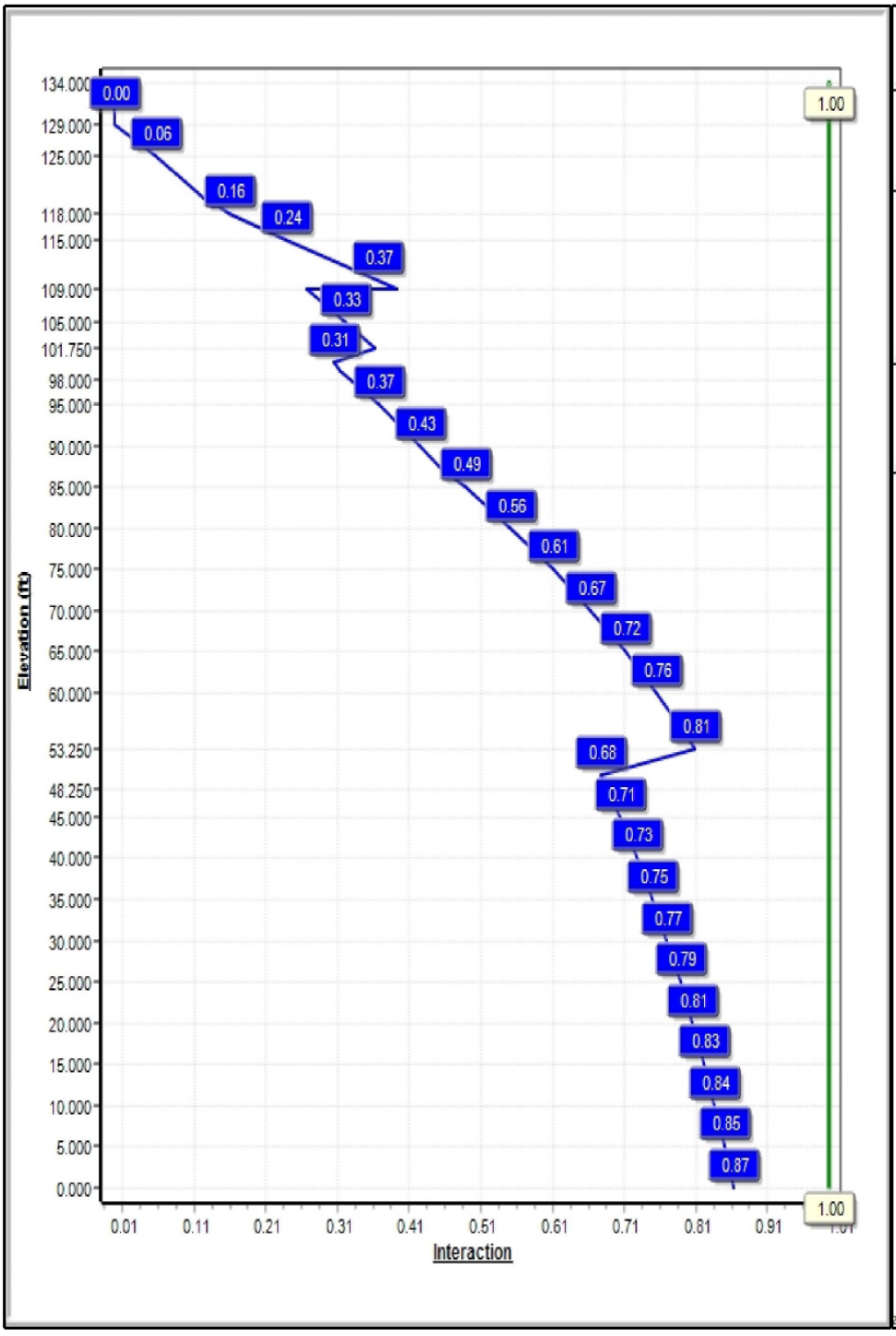
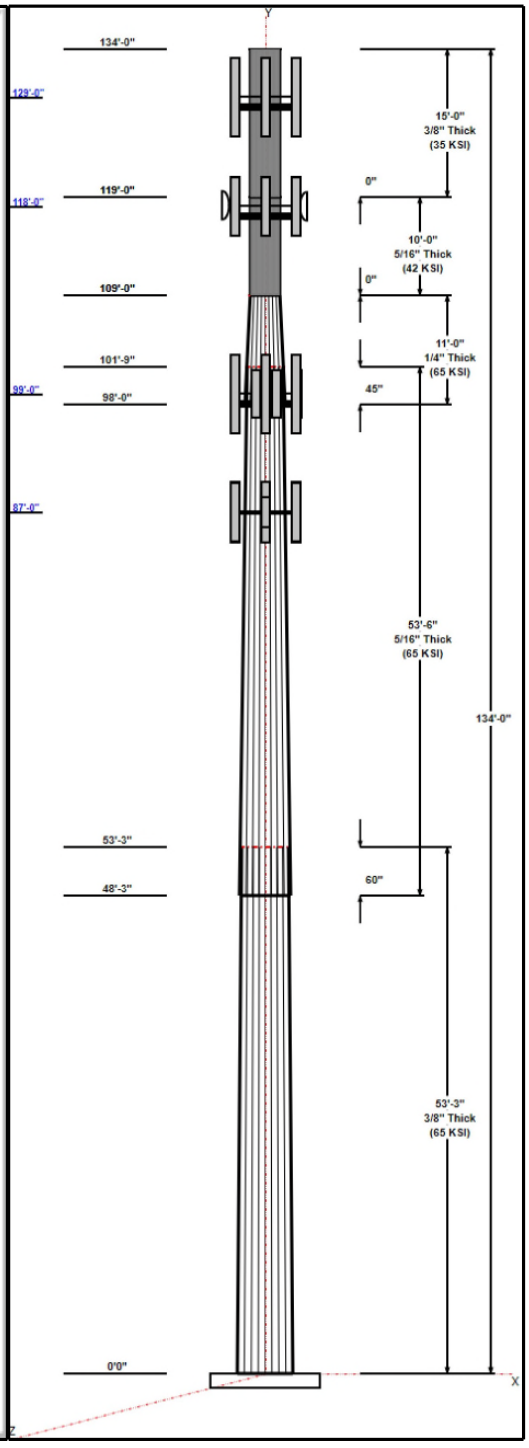
Dead Load Factor:	1.20	**Iterations:**	25
Wind Load Factor:	1.60		

Load Case : 1.2D + 1.6W 97 mph Wind





Structure: CT13070-A-SBA

Type: Custom
Site Name: Waterbury 4, CT
Height: 134.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.21408

8/13/2021

Tower Engineering Solutions

Shaft Properties

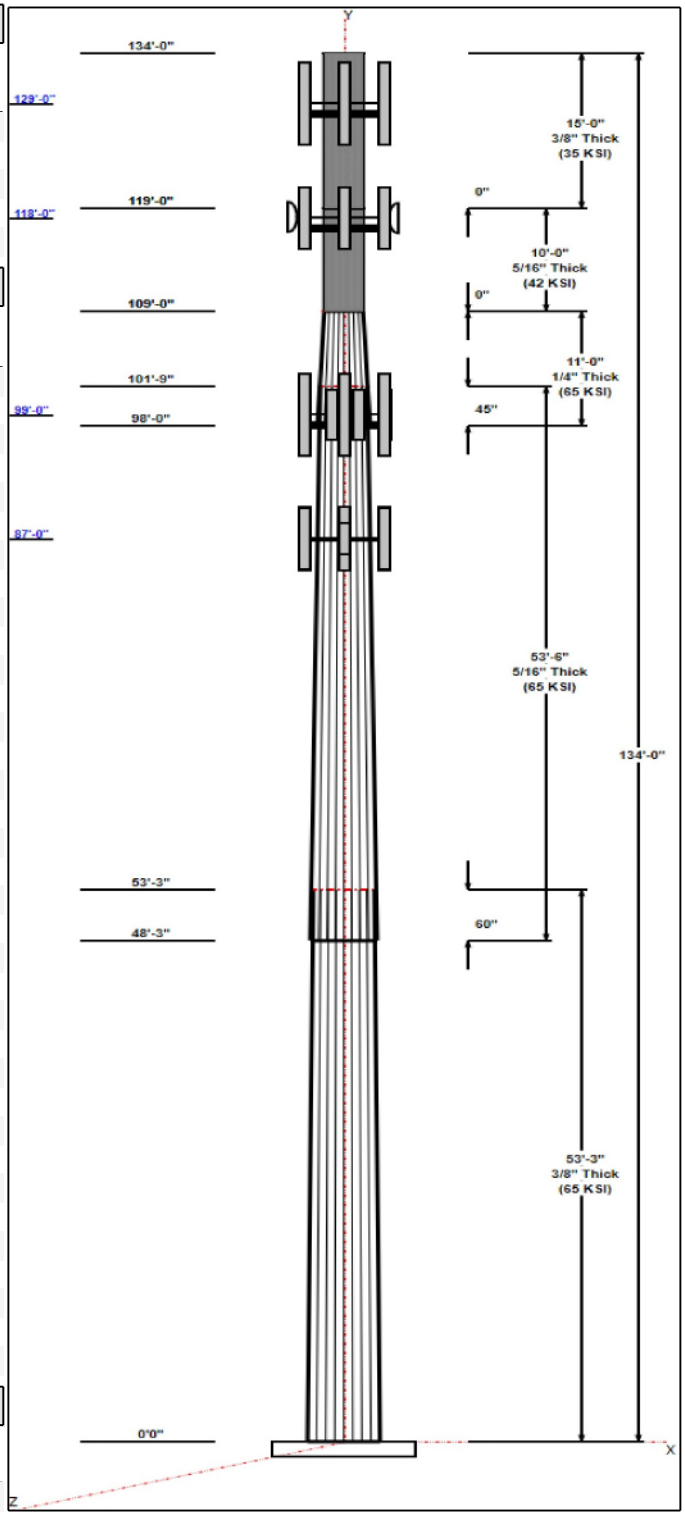
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	53.25	37.99	49.39	0.375		0.21408	65
2	53.50	28.23	39.69	0.313	Slip	0.21408	65
3	11.00	27.18	29.53	0.250	Slip	0.21408	65
4	10.00	26.00	26.00	0.312	Butt	0.00000	42
5	15.00	26.00	26.00	0.375	Butt	0.00000	35

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
134.00	134.00	1	Lightning rod	
129.00	129.00	1	(3) SitePro	AT&T
129.00	129.00	3	TPA65R-BU8D	AT&T
129.00	129.00	3	AIR 6449 N77	AT&T
129.00	129.00	3	Cci Antennas	AT&T
129.00	129.00	3	RRUS 4478 B14	AT&T
129.00	129.00	3	Radio 4415 B30	AT&T
129.00	129.00	3	4449 B5/B12	AT&T
129.00	129.00	3	B2 B66A 8843	AT&T
129.00	129.00	1	DC9-48-60-24-8C-EV	AT&T
129.00	129.00	1	DC6-48-60-18-8C-EV	AT&T
118.00	118.00	3	AAHC	Sprint Nextel
118.00	118.00	3	NNVV-65B-R4	Sprint Nextel
118.00	118.00	1	LP Platform w/ Handrail	Sprint Nextel
118.00	118.00	2	VHLP2.5-11	Sprint Nextel
118.00	118.00	3	1900 MHz RRH	Sprint Nextel
118.00	118.00	6	800 MHz RRH	Sprint Nextel
118.00	118.00	3	TD-RRH8x20-25	Sprint Nextel
99.00	99.00	3	4449 B71+ B85	T-Mobile
99.00	99.00	3	APXVAARR24_43-U-NA20	T-Mobile
99.00	99.00	3	KRY 112 144/1	T-Mobile
99.00	99.00	1	LP Platform w/ Handrail	T-Mobile
99.00	99.00	4	Air 32	T-Mobile
99.00	99.00	3	KRY 112 489/2	T-Mobile
99.00	99.00	3	AIR 6449 B41	T-Mobile
99.00	99.00	3	APX16DWV-16DWV-S-E-	T-Mobile
99.00	99.00	3	RRUS 4415 B25	T-Mobile
87.00	87.00	1	Low Profile Platform	Verizon
87.00	87.00	3	BXA-171063-12CF-EDIN-X	Verizon
87.00	87.00	6	MX06FR0660-03	Verizon
87.00	87.00	3	MT6407-77A	Verizon
87.00	87.00	3	B2/B66A RRH-BR049	Verizon
87.00	87.00	3	B5/B13 RRH-BR04C	Verizon
87.00	87.00	1	RVZDC-6627-PF-48	Verizon
87.00	87.00	1	HRK12 (Handrail Kit)	Verizon

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	129.00	Inside	0.4" Fiber	AT&T
0.00	129.00	Inside	1" DC	AT&T
0.00	118.00	Inside	1-1/4" Fiber	Sprint Nextel
0.00	118.00	Inside	1.689" Fiber	Sprint Nextel
0.00	118.00	Inside	1/2" Coax	Sprint Nextel
0.00	99.00	Inside	1 5/8" Coax	T-Mobile



0.00	99.00	Inside	1 5/8" Fiber	T-Mobile
0.00	99.00	Inside	1-1/4" Hybrid	T-Mobile
0.00	87.00	Inside	1 5/8" Coax	Verizon
0.00	87.00	Inside	1 5/8" Hybrid	Verizon

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
12	2.25" 18J	75.0	Cluster

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.0000	53.3	60.0	Clipped

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 97 mph Wind	3430.8	34.4	46.5
0.9D + 1.6W 97 mph Wind	3384.3	34.4	34.8
1.2D + 1.0Di + 1.0Wi 50 mph Wind	947.6	9.3	76.2
1.2D + 1.0E	229.9	2.0	46.5
0.9D + 1.0E	226.5	2.0	34.9
1.0D + 1.0W 60 mph Wind	814.3	8.2	38.8

Structure: CT13070-A-SBA - Coax Line Placement

Type: Monopole
Site Name: Waterbury 4, CT
Height: 134.00 (ft)

8/13/2021

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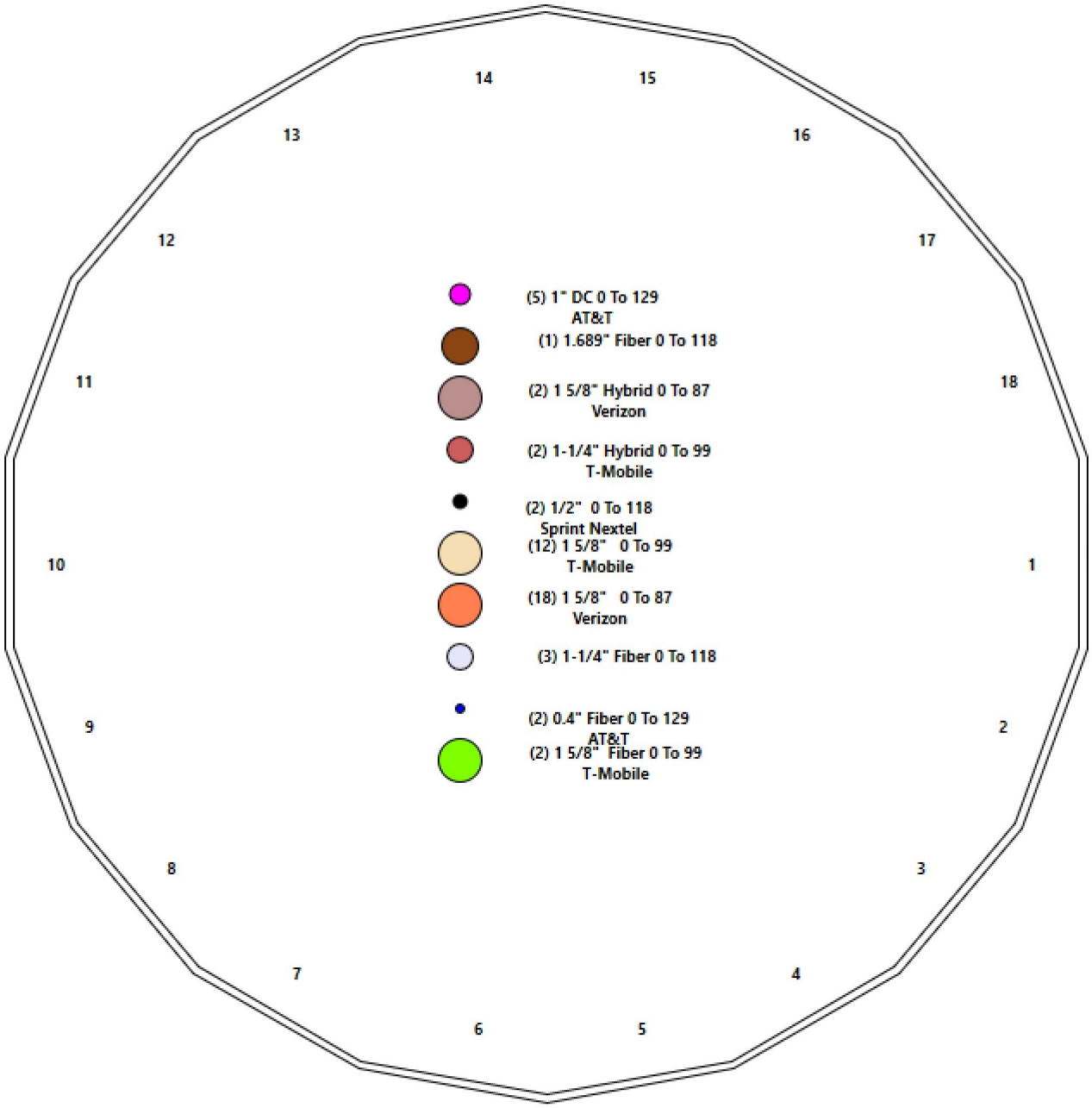

Shaft Properties

Structure:	CT13070-A-SBA		**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT		**Exposure:**	C	
Height:	134.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 5

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	53.250	0.3750	65		0.00	9,341
2	18	53.500	0.3125	65	Slip	60.00	6,075
3	18	11.000	0.2500	65	Slip	45.00	835
4	R	10.000	0.3120	42	Flange	0.00	857
5	R	15.000	0.3750	35	Flange	0.00	1,541
					Total Shaft Weight:		**18,649**

	Bottom						Top						
Sec. No.	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Taper**
1	49.39	0.00	58.34	17707.72	21.81	131.71	37.99	53.25	44.77	8003.18	16.45	101.3	0.214083
2	39.69	48.25	39.05	7648.75	20.98	126.99	28.23	101.75	27.69	2727.23	14.52	90.34	0.214083
3	29.53	98.00	23.24	2517.77	19.42	118.14	27.18	109.00	21.37	1957.91	17.76	108.7	0.214083
4	26.00	109.0	25.18	2078.44	0.00	83.33	26.00	119.00	25.18	2078.44	0.00	83.33	0.000000
5	26.00	119.0	30.19	2479.79	0.00	69.33	26.00	134.00	30.19	2479.79	0.00	69.33	0.000000

Load Summary

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 6	

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Discrete Appurtenances

				No Ice			Ice				
No.	Elev (ft)	Description	Qty	Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
1	134.00	Lightning rod	1	6.50	0.38	1.00	42.39	1.455	0.00	0.00	0.00
2	129.00	(3) SitePro VFA12-M3-WLL	1	2999.58	50.70	1.00	5887.25	13.454	1.00	0.00	0.00
3	129.00	TPA65R-BU8D	3	145.00	17.87	0.72	831.58	19.640	0.72	0.00	0.00
4	129.00	AIR 6449 N77	3	101.60	4.13	0.85	236.71	4.974	0.85	0.00	0.00
5	129.00	Cci Antennas DMP65R-BU8DA-K	3	95.70	17.87	0.73	486.92	19.640	0.73	0.00	0.00
6	129.00	RRUS 4478 B14	3	59.40	1.65	0.50	100.25	2.161	0.50	0.00	0.00
7	129.00	Radio 4415 B30	3	46.00	1.86	0.50	105.61	2.415	0.50	0.00	0.00
8	129.00	4449 B5/B12	3	71.00	1.97	0.50	123.58	2.509	0.50	0.00	0.00
9	129.00	B2 B66A 8843	3	72.00	1.64	0.50	118.59	2.149	0.50	0.00	0.00
10	129.00	DC9-48-60-24-8C-EV	1	26.20	1.14	1.00	130.60	2.703	1.00	0.00	0.00
11	129.00	DC6-48-60-18-8C-EV	1	26.20	4.78	1.00	225.78	5.651	1.00	0.00	0.00
12	118.00	AAHC	3	103.70	4.21	0.75	206.82	5.002	0.75	0.00	0.00
13	118.00	NNVV-65B-R4	3	84.70	12.27	0.74	389.78	13.692	0.74	0.00	0.00
14	118.00	LP Platform w/ Handrail	1	2448.72	46.00	1.00	4952.05	79.232	1.00	0.00	0.00
15	118.00	VHLP2.5-11	2	48.00	8.43	1.00	218.01	10.096	1.00	0.50	0.00
16	118.00	1900 MHz RRH	3	60.00	2.77	0.50	141.46	4.008	0.50	0.00	0.00
17	118.00	800 MHz RRH	6	53.00	2.49	0.50	125.21	3.607	0.50	0.00	0.00
18	118.00	TD-RRH8x20-25	3	70.00	4.05	0.50	177.31	4.842	0.50	0.00	0.00
19	99.00	4449 B71+ B85	3	70.00	1.65	0.67	134.79	2.163	0.67	0.00	0.00
20	99.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	526.85	22.060	0.70	0.00	0.00
21	99.00	KRY 112 144/1	3	11.02	0.41	0.67	21.38	0.866	0.67	0.00	0.00
22	99.00	LP Platform w/ Handrail	1	2449.00	46.00	1.00	4909.05	76.805	1.00	0.00	0.00
23	99.00	Air 32 KRD901146-1_B66A_B2A	4	132.20	6.51	0.87	307.75	7.641	0.87	0.00	0.00
24	99.00	KRY 112 489/2	3	15.40	0.65	0.67	32.30	1.237	0.67	0.00	0.00
25	99.00	AIR 6449 B41	3	133.20	6.53	0.70	289.53	7.554	0.70	0.00	0.00
26	99.00	APX16DWV-16DWV-S-E-A20	3	40.70	6.46	0.62	170.89	7.526	0.62	0.00	0.00
27	99.00	RRUS 4415 B25	3	46.00	1.64	0.67	85.43	2.134	0.67	0.00	0.00
28	87.00	Low Profile Platform	1	1500.00	22.00	1.00	2739.52	38.725	1.00	0.00	0.00
29	87.00	BXA-171063-12CF-EDIN-X	3	15.00	4.78	0.84	105.74	7.014	0.84	0.00	0.00
30	87.00	MX06FR0660-03	6	71.00	9.87	0.88	323.65	11.169	0.88	0.00	0.00
31	87.00	MT6407-77A	3	79.40	4.69	0.70	191.34	5.585	0.70	0.00	0.00
32	87.00	B2/B66A RRH-BR049	3	84.40	1.87	0.67	155.97	2.410	0.67	0.00	0.00
33	87.00	B5/B13 RRH-BR04C (RFV01U-D2A)	3	70.30	1.87	0.67	135.09	2.410	0.67	0.00	0.00
34	87.00	RVZDC-6627-PF-48	1	32.00	4.06	0.67	139.89	4.838	0.67	0.00	0.00
35	87.00	HRK12 (Handrail Kit)	1	261.72	6.75	1.00	555.85	12.997	1.00	0.00	0.00
		Totals:	**93**	**15,926.28**			**38,246.36**				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	129.00	(2) 0.4" Fiber	0.00	Inside
0.00	129.00	(5) 1" DC	0.00	Inside
0.00	118.00	(3) 1-1/4" Fiber	0.00	Inside
0.00	118.00	(1) 1.689" Fiber	0.00	Inside
0.00	118.00	(2) 1/2" Coax	0.00	Inside
0.00	99.00	(12) 1 5/8" Coax	0.00	Inside

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	No Ice CaAa Factor	Ice Weight (lb)	Ice CaAa (sf)	Ice CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
0.00	99.00	(2) 1 5/8" Fiber			0.00	Inside					
0.00	99.00	(2) 1-1/4" Hybrid			0.00	Inside					
0.00	87.00	(18) 1 5/8" Coax			0.00	Inside					
0.00	87.00	(2) 1 5/8" Hybrid			0.00	Inside					

Shaft Section Properties

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 8	

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Increment Length: **5 (ft)**

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.3750	49.390	58.338	17707.7	21.81	131.71	75.7	706.2	0.0
5.00		0.3750	48.320	57.064	16572.7	21.31	128.85	76.3	675.5	981.7
10.00		0.3750	47.249	55.790	15487.3	20.81	126.00	76.9	645.6	960.0
15.00		0.3750	46.179	54.516	14450.4	20.30	123.14	77.5	616.3	938.4
20.00		0.3750	45.108	53.242	13460.8	19.80	120.29	78.1	587.8	916.7
25.00		0.3750	44.038	51.968	12517.4	19.30	117.43	78.7	559.8	895.0
30.00		0.3750	42.968	50.694	11619.2	18.79	114.58	79.3	532.6	873.3
35.00		0.3750	41.897	49.420	10765.0	18.29	111.73	79.9	506.1	851.7
40.00		0.3750	40.827	48.146	9953.7	17.79	108.87	80.5	480.2	830.0
45.00		0.3750	39.756	46.872	9184.3	17.28	106.02	81.1	455.0	808.3
48.25	Bot - Section 2	0.3750	39.061	46.044	8706.0	16.96	104.16	81.5	439.0	513.8
50.00		0.3750	38.686	45.598	8455.5	16.78	103.16	81.7	430.5	504.3
53.25	Top - Section 1	0.3125	38.615	37.990	7041.7	20.38	123.57	0.0	0.0	923.6
55.00		0.3125	38.240	37.618	6837.1	20.17	122.37	77.7	352.2	225.1
60.00		0.3125	37.170	36.557	6274.4	19.56	118.94	78.4	332.5	631.0
65.00		0.3125	36.100	35.495	5743.5	18.96	115.52	79.1	313.4	612.9
70.00		0.3125	35.029	34.433	5243.4	18.35	112.09	79.8	294.8	594.9
75.00		0.3125	33.959	33.372	4773.2	17.75	108.67	80.5	276.8	576.8
80.00		0.3125	32.888	32.310	4332.0	17.15	105.24	81.2	259.4	558.8
85.00		0.3125	31.818	31.248	3918.8	16.54	101.82	81.9	242.6	540.7
87.00		0.3125	31.390	30.824	3761.2	16.30	100.45	82.2	236.0	211.2
90.00		0.3125	30.748	30.187	3532.8	15.94	98.39	82.5	226.3	311.4
95.00		0.3125	29.677	29.125	3173.0	15.33	94.97	82.5	210.6	504.6
98.00	Bot - Section 3	0.3125	29.035	28.488	2969.3	14.97	92.91	82.5	201.4	294.1
99.00		0.3125	28.821	28.276	2903.4	14.85	92.23	82.5	198.4	175.4
100.00		0.3125	28.607	28.063	2838.5	14.73	91.54	82.5	195.4	174.1
101.75	Top - Section 2	0.2500	28.732	22.600	2316.3	18.85	114.93	0.0	0.0	301.5
105.00		0.2500	28.036	22.048	2150.7	18.36	112.15	79.8	151.1	246.9
109.00	Top - Section 3	0.2500	27.180	21.368	1957.9	17.76	108.72	80.5	141.9	295.5
109.00	Bot - Section 4	0.3120	26.000	25.179	2078.4	14.23	87.12	41.2	159.9	
110.00		0.3120	26.000	25.179	2078.4	0.00	83.33	41.2	159.9	85.7
115.00		0.3120	26.000	25.179	2078.4	0.00	83.33	41.2	159.9	428.4
118.00		0.3120	26.000	25.179	2078.4	0.00	83.33	41.2	159.9	257.0
119.00	Top - Section 4	0.3120	26.000	25.179	2078.4	0.00	83.33	41.2	159.9	85.7
119.00	Bot - Section 5	0.3750	26.000	30.189	2479.8	0.00	69.33	35.0	190.8	
120.00		0.3750	26.000	30.189	2479.8	0.00	69.33	35.0	190.8	102.7
125.00		0.3750	26.000	30.189	2479.8	0.00	69.33	35.0	190.8	513.6
129.00		0.3750	26.000	30.189	2479.8	0.00	69.33	35.0	190.8	410.9
130.00		0.3750	26.000	30.189	2479.8	0.00	69.33	35.0	190.8	102.7
134.00		0.3750	26.000	30.189	2479.8	0.00	69.33	35.0	190.8	410.9
										18649.2

Wind Loading - Shaft

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 9	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	19.450	21.40	373.76	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	19.450	21.40	365.66	0.650	0.000	5.00	20.670	13.44	459.9	0.0	1178.1
10.00		1.00	0.85	19.450	21.40	357.55	0.650	0.000	5.00	20.217	13.14	449.9	0.0	1152.1
15.00		1.00	0.85	19.450	21.40	349.45	0.650	0.000	5.00	19.764	12.85	439.8	0.0	1126.0
20.00		1.00	0.90	20.638	22.70	351.62	0.650	0.000	5.00	19.312	12.55	455.9	0.0	1100.0
25.00		1.00	0.95	21.630	23.79	351.43	0.650	0.000	5.00	18.859	12.26	466.7	0.0	1074.0
30.00		1.00	0.98	22.477	24.72	349.54	0.650	0.000	5.00	18.406	11.96	473.3	0.0	1048.0
35.00		1.00	1.01	23.218	25.54	346.40	0.650	0.000	5.00	17.953	11.67	476.9	0.0	1022.0
40.00		1.00	1.04	23.880	26.27	342.33	0.650	0.000	5.00	17.500	11.37	478.1	0.0	996.0
45.00		1.00	1.07	24.479	26.93	337.51	0.650	0.000	5.00	17.047	11.08	477.4	0.0	970.0
48.25	Bot - Section 2	1.00	1.09	24.841	27.33	334.05	0.650	0.000	3.25	10.838	7.04	308.0	0.0	616.5
50.00		1.00	1.09	25.029	27.53	332.09	0.650	0.000	1.75	5.849	3.80	167.5	0.0	605.2
53.25	Top - Section 1	1.00	1.11	25.363	27.90	328.29	0.650	0.000	3.25	10.715	6.96	310.9	0.0	1108.4
55.00		1.00	1.12	25.536	28.09	331.58	0.650	0.000	1.75	5.691	3.70	166.2	0.0	270.1
60.00		1.00	1.14	26.008	28.61	325.26	0.650	0.000	5.00	15.953	10.37	474.6	0.0	757.2
65.00		1.00	1.16	26.450	29.09	318.57	0.650	0.000	5.00	15.500	10.07	469.0	0.0	735.5
70.00		1.00	1.17	26.866	29.55	311.54	0.650	0.000	5.00	15.047	9.78	462.5	0.0	713.9
75.00		1.00	1.19	27.259	29.98	304.22	0.650	0.000	5.00	14.594	9.49	455.1	0.0	692.2
80.00		1.00	1.21	27.632	30.39	296.64	0.650	0.000	5.00	14.141	9.19	447.0	0.0	670.5
85.00		1.00	1.22	27.987	30.79	288.82	0.650	0.000	5.00	13.688	8.90	438.3	0.0	648.8
87.00	Appurtenance(s)	1.00	1.23	28.124	30.94	285.64	0.650	0.000	2.00	5.349	3.48	172.1	0.0	253.5
90.00		1.00	1.24	28.325	31.16	280.79	0.650	0.000	3.00	7.887	5.13	255.6	0.0	373.7
95.00		1.00	1.25	28.650	31.51	272.56	0.650	0.000	5.00	12.783	8.31	419.0	0.0	605.5
98.00	Bot - Section 3	1.00	1.26	28.838	31.72	267.54	0.650	0.000	3.00	7.452	4.84	245.9	0.0	352.9
99.00	Appurtenance(s)	1.00	1.26	28.900	31.79	265.85	0.650	0.000	1.00	2.490	1.62	82.3	0.0	210.4
100.00		1.00	1.27	28.961	31.86	264.16	0.650	0.000	1.00	2.472	1.61	81.9	0.0	208.9
101.75	Top - Section 2	1.00	1.27	29.067	31.97	261.17	0.650	0.000	1.75	4.282	2.78	142.4	0.0	361.8
105.00		1.00	1.28	29.260	32.19	260.22	0.650	0.000	3.25	7.806	5.07	261.3	0.0	296.3
109.00	Top - Section 3	1.00	1.29	29.491	32.44	253.27	0.650	0.000	4.00	9.345	6.07	315.3	0.0	354.6
110.00		1.00	1.29	29.548	32.50	238.82	0.600	0.000	1.00	2.167	1.30	67.6	0.0	102.8
115.00		1.00	1.30	29.826	32.81	239.94	0.600	0.000	5.00	10.833	6.50	341.2	0.0	514.1
118.00	Appurtenance(s)	1.00	1.31	29.988	32.99	240.59	0.600	0.000	3.00	6.500	3.90	205.8	0.0	308.4
119.00	Top - Section 4	1.00	1.31	30.041	33.05	240.81	0.600	0.000	1.00	2.167	1.30	68.7	0.0	102.8
120.00		1.00	1.32	30.094	33.10	241.02	0.600	0.000	1.00	2.167	1.30	68.9	0.0	123.3
125.00		1.00	1.33	30.354	33.39	242.06	0.600	0.000	5.00	10.833	6.50	347.2	0.0	616.4
129.00	Appurtenance(s)	1.00	1.34	30.556	33.61	242.86	0.600	0.000	4.00	8.667	5.20	279.6	0.0	493.1
130.00		1.00	1.34	30.605	33.67	243.06	0.600	0.000	1.00	2.167	1.30	70.0	0.0	123.3
134.00	Appurtenance(s)	1.00	1.35	30.801	33.88	243.83	0.600	0.000	4.00	8.667	5.20	281.9	0.0	493.1
								Totals:	**134.00**			**11,583.6**		**22,379.0**

Discrete Appurtenance Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 10	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	134.00	Lightning rod	1	30.801	33.881	1.00	1.00	0.38	7.80	0.000	0.000	20.60	0.00	0.00
2	129.00	RRUS 4478 B14	3	30.556	33.611	0.40	0.80	1.98	213.84	0.000	0.000	106.48	0.00	0.00
3	129.00	(3) SitePro	1	30.556	33.611	0.75	0.75	38.03	3599.50	0.000	0.000	2044.91	0.00	0.00
4	129.00	TPA65R-BU8D	3	30.556	33.611	0.58	0.80	30.88	522.00	0.000	0.000	1660.63	0.00	0.00
5	129.00	Cci Antennas	3	30.556	33.611	0.58	0.80	31.31	344.52	0.000	0.000	1683.69	0.00	0.00
6	129.00	AIR 6449 N77	3	30.556	33.611	0.68	0.80	8.43	365.76	0.000	0.000	453.09	0.00	0.00
7	129.00	4449 B5/B12	3	30.556	33.611	0.40	0.80	2.36	255.60	0.000	0.000	127.13	0.00	0.00
8	129.00	B2 B66A 8843	3	30.556	33.611	0.40	0.80	1.97	259.20	0.000	0.000	105.84	0.00	0.00
9	129.00	DC9-48-60-24-8C-EV	1	30.556	33.611	0.80	0.80	0.91	31.44	0.000	0.000	49.05	0.00	0.00
10	129.00	DC6-48-60-18-8C-EV	1	30.556	33.611	0.80	0.80	3.82	31.44	0.000	0.000	205.65	0.00	0.00
11	129.00	Radio 4415 B30	3	30.556	33.611	0.40	0.80	2.23	165.60	0.000	0.000	120.03	0.00	0.00
12	118.00	VHLP2.5-11	2	29.988	32.986	1.00	1.00	16.86	115.20	1.583	0.000	889.84	880.57	0.00
13	118.00	NNVV-65B-R4	3	29.988	32.986	0.55	0.75	20.43	304.92	0.000	0.000	1078.24	0.00	0.00
14	118.00	LP Platform w/ Handrail	1	29.988	32.986	1.00	1.00	46.00	2938.46	0.000	0.000	2427.80	0.00	0.00
15	118.00	TD-RRH8x20-25	3	29.988	32.986	0.38	0.75	4.56	252.00	0.000	0.000	240.47	0.00	0.00
16	118.00	1900 MHz RRH	3	29.988	32.986	0.38	0.75	3.12	216.00	0.000	0.000	164.47	0.00	0.00
17	118.00	800 MHz RRH	6	29.988	32.986	0.38	0.75	5.60	381.60	0.000	0.000	295.69	0.00	0.00
18	118.00	AAHC	3	29.988	32.986	0.56	0.75	7.10	373.32	0.000	0.000	374.96	0.00	0.00
19	99.00	LP Platform w/ Handrail	1	28.900	31.790	1.00	1.00	46.00	2938.80	0.000	0.000	2339.71	0.00	0.00
20	99.00	4449 B71+ B85	3	28.900	31.790	0.50	0.75	2.49	252.00	0.000	0.000	126.52	0.00	0.00
21	99.00	APXVAARR24_43-U-NA2	3	28.900	31.790	0.52	0.75	31.88	460.80	0.000	0.000	1621.42	0.00	0.00
22	99.00	KRY 112 144/1	3	28.900	31.790	0.50	0.75	0.62	39.67	0.000	0.000	31.44	0.00	0.00
23	99.00	RRUS 4415 B25	3	28.900	31.790	0.50	0.75	2.47	165.60	0.000	0.000	125.75	0.00	0.00
24	99.00	KRY 112 489/2	3	28.900	31.790	0.50	0.75	0.98	55.44	0.000	0.000	49.84	0.00	0.00
25	99.00	AIR 6449 B41	3	28.900	31.790	0.52	0.75	10.28	479.52	0.000	0.000	523.12	0.00	0.00
26	99.00	APX16DWV-16DWV-S-E-	3	28.900	31.790	0.46	0.75	9.01	146.52	0.000	0.000	458.36	0.00	0.00
27	99.00	Air 32	4	28.900	31.790	0.65	0.75	16.99	634.56	0.000	0.000	864.22	0.00	0.00
28	87.00	MT6407-77A	3	28.124	30.936	0.52	0.75	7.39	285.84	0.000	0.000	365.63	0.00	0.00
29	87.00	Low Profile Platform	1	28.124	30.936	1.00	1.00	22.00	1800.00	0.000	0.000	1088.96	0.00	0.00
30	87.00	BXA-171063-12CF-EDIN-	3	28.124	30.936	0.63	0.75	9.03	54.00	0.000	0.000	447.18	0.00	0.00
31	87.00	MX06FR0660-03	6	28.124	30.936	0.66	0.75	39.09	511.20	0.000	0.000	1934.65	0.00	0.00
32	87.00	RVZDC-6627-PF-48	1	28.124	30.936	0.50	0.75	2.04	38.40	0.000	0.000	100.98	0.00	0.00
33	87.00	B2/B66A RRH-BR049	3	28.124	30.936	0.50	0.75	2.82	303.84	0.000	0.000	139.54	0.00	0.00
34	87.00	B5/B13 RRH-BR04C	3	28.124	30.936	0.50	0.75	2.82	253.08	0.000	0.000	139.54	0.00	0.00
35	87.00	HRK12 (Handrail Kit)	1	28.124	30.936	1.00	1.00	6.75	314.06	0.000	0.000	334.11	0.00	0.00
							Totals:		**19,111.54**			**22,739.52**		

Total Applied Force Summary

Structure:	CT13070-A-SBA		**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT		**Exposure:**	C	
Height:	134.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 11

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		459.94	1440.08	0.00	0.00
10.00		449.86	1414.07	0.00	0.00
15.00		439.78	1388.06	0.00	0.00
20.00		455.93	1362.05	0.00	0.00
25.00		466.66	1336.04	0.00	0.00
30.00		473.27	1310.03	0.00	0.00
35.00		476.85	1284.02	0.00	0.00
40.00		478.08	1258.00	0.00	0.00
45.00		477.40	1231.99	0.00	0.00
48.25		307.99	786.85	0.00	0.00
50.00		167.47	696.86	0.00	0.00
53.25		310.90	1278.68	0.00	0.00
55.00		166.24	361.85	0.00	0.00
60.00		474.65	1019.23	0.00	0.00
65.00		469.01	997.55	0.00	0.00
70.00		462.46	975.87	0.00	0.00
75.00		455.11	954.20	0.00	0.00
80.00		447.02	932.52	0.00	0.00
85.00		438.26	910.85	0.00	0.00
87.00	(21) attachments	4722.67	3918.69	0.00	0.00
90.00		255.57	455.59	0.00	0.00
95.00		418.96	741.97	0.00	0.00
98.00		245.85	434.78	0.00	0.00
99.00	(26) attachments	6222.69	5410.64	0.00	0.00
100.00		81.90	216.41	0.00	0.00
101.75		142.40	374.96	0.00	0.00
105.00		261.29	320.75	0.00	0.00
109.00		315.27	384.72	0.00	0.00
110.00		67.61	110.35	0.00	0.00
115.00		341.20	551.76	0.00	0.00
118.00	(21) attachments	5677.31	4912.56	880.57	0.00
119.00		68.73	105.33	0.00	0.00
120.00		68.86	125.79	0.00	0.00
125.00		347.25	628.95	0.00	0.00
129.00	(24) attachments	6836.14	6292.06	0.00	0.00
130.00		70.03	123.27	0.00	0.00
134.00	(1) attachments	302.49	500.88	0.00	0.00
	Totals:	**34,323.09**	**46,548.26**	**880.57**	**0.00**

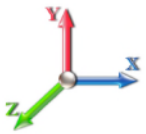
Calculated Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 12	

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 25

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-46.47	-34.43	-0.86	-3430.8	-0.02	3430.84	3976.93	1988.46	8011.33	4011.62	0.00	0.000	0.000	0.867
5.00	-44.87	-34.18	-0.86	-3258.6	-0.02	3258.67	3920.48	1960.24	7723.84	3867.66	0.14	-0.269	0.000	0.854
10.00	-43.29	-33.93	-0.86	-3087.7	-0.02	3087.76	3862.67	1931.34	7438.74	3724.90	0.57	-0.541	0.000	0.840
15.00	-41.75	-33.68	-0.86	-2918.1	-0.02	2918.11	3803.51	1901.75	7156.21	3583.42	1.29	-0.817	0.000	0.826
20.00	-40.23	-33.40	-0.86	-2749.7	-0.02	2749.72	3742.99	1871.49	6876.43	3443.32	2.29	-1.096	0.000	0.810
25.00	-38.74	-33.09	-0.86	-2582.7	-0.02	2582.75	3681.11	1840.56	6599.58	3304.69	3.59	-1.378	0.000	0.792
30.00	-37.28	-32.77	-0.86	-2417.2	-0.03	2417.29	3617.88	1808.94	6325.84	3167.62	5.19	-1.662	0.000	0.774
35.00	-35.85	-32.43	-0.86	-2253.4	-0.03	2253.44	3553.28	1776.64	6055.40	3032.20	7.08	-1.948	-0.001	0.754
40.00	-34.45	-32.08	-0.86	-2091.2	-0.03	2091.28	3487.33	1743.67	5788.43	2898.52	9.27	-2.235	-0.001	0.732
45.00	-33.11	-31.69	-0.86	-1930.8	-0.03	1930.87	3420.03	1710.01	5525.12	2766.66	11.77	-2.522	-0.001	0.708
48.25	-32.26	-31.43	-0.86	-1827.8	-0.03	1827.87	3375.55	1687.77	5356.01	2681.98	13.55	-2.711	-0.001	0.691
50.00	-31.49	-31.31	-0.86	-1772.8	-0.03	1772.87	3351.36	1675.68	5265.64	2636.73	14.57	-2.814	-0.001	0.682
53.25	-30.15	-31.01	-0.86	-1671.1	-0.03	1671.11	2647.50	1323.75	4165.57	2085.88	16.55	-3.003	-0.001	0.813
55.00	-29.68	-30.94	-0.87	-1616.8	-0.04	1616.85	2630.02	1315.01	4097.26	2051.68	17.67	-3.105	-0.001	0.800
60.00	-28.52	-30.56	-0.87	-1462.1	-0.04	1462.17	2579.17	1289.59	3903.72	1954.76	21.09	-3.425	-0.001	0.760
65.00	-27.39	-30.18	-0.87	-1309.3	-0.04	1309.36	2526.96	1263.48	3712.68	1859.10	24.85	-3.739	-0.002	0.716
70.00	-26.30	-29.79	-0.87	-1158.4	-0.04	1158.45	2473.39	1236.70	3524.34	1764.79	28.92	-4.045	-0.002	0.668
75.00	-25.23	-29.39	-0.87	-1009.5	-0.05	1009.50	2418.47	1209.23	3338.88	1671.92	33.32	-4.339	-0.002	0.615
80.00	-24.20	-28.99	-0.87	-862.53	-0.05	862.53	2362.18	1181.09	3156.47	1580.58	38.01	-4.618	-0.002	0.557
85.00	-23.24	-28.55	-0.87	-717.58	-0.06	717.58	2304.54	1152.27	2977.30	1490.86	42.98	-4.877	-0.003	0.492
87.00	-19.69	-23.55	-0.87	-660.48	-0.06	660.48	2281.10	1140.55	2906.58	1455.45	45.05	-4.977	-0.003	0.463
90.00	-19.19	-23.32	-0.87	-589.84	-0.06	589.84	2242.72	1121.36	2798.02	1401.09	48.22	-5.119	-0.003	0.430
95.00	-18.42	-22.88	-0.87	-473.27	-0.06	473.27	2163.84	1081.92	2603.70	1303.79	53.69	-5.333	-0.003	0.372
98.00	-17.98	-22.62	-0.87	-404.62	-0.07	404.62	2116.52	1058.26	2490.47	1247.09	57.08	-5.451	-0.003	0.333
99.00	-13.18	-15.92	-0.87	-382.00	-0.07	382.00	2100.74	1050.37	2453.28	1228.47	58.22	-5.489	-0.004	0.317
100.00	-12.96	-15.83	-0.87	-366.08	-0.07	366.08	2084.97	1042.48	2416.38	1209.99	59.37	-5.526	-0.004	0.309
101.75	-12.58	-15.67	-0.87	-338.38	-0.07	338.38	1611.41	805.70	1884.17	943.49	61.41	-5.588	-0.004	0.367
105.00	-12.25	-15.40	-0.88	-287.45	-0.07	287.45	1583.50	791.75	1805.91	904.30	65.24	-5.694	-0.004	0.326
109.00	-11.88	-15.07	-0.88	-225.84	-0.08	225.84	1548.36	774.18	1710.93	856.74	70.07	-5.829	-0.005	0.272
109.00	-11.88	-15.07	-0.88	-225.84	-0.08	225.84	933.38	466.69	986.46	590.00	70.07	-5.829	-0.005	0.397
110.00	-11.75	-15.01	-0.88	-210.77	-0.08	210.77	933.38	466.69	986.46	590.00	71.29	-5.861	-0.005	0.371
115.00	-11.22	-14.63	-0.88	-135.75	-0.08	135.75	933.38	466.69	986.46	590.00	77.48	-5.980	-0.005	0.243
118.00	-6.92	-8.47	0.00	-91.87	0.01	91.87	933.38	466.69	986.46	590.00	81.25	-6.026	-0.006	0.163
119.00	-6.83	-8.39	0.00	-83.40	0.01	83.40	933.38	466.69	986.46	590.00	82.51	-6.038	-0.006	0.149
119.00	-6.83	-8.39	0.00	-83.40	0.01	83.40	950.95	475.47	1000.09	624.60	82.51	-6.038	-0.006	0.141
120.00	-6.70	-8.31	0.00	-75.01	0.01	75.01	950.95	475.47	1000.09	624.60	83.78	-6.049	-0.006	0.127
125.00	-6.11	-7.90	0.00	-33.46	0.00	33.46	950.95	475.47	1000.09	624.60	90.12	-6.080	-0.006	0.060
129.00	-0.58	-0.44	0.00	-1.85	0.00	1.85	950.95	475.47	1000.09	624.60	95.21	-6.089	-0.006	0.004
130.00	-0.47	-0.35	0.00	-1.42	0.00	1.42	950.95	475.47	1000.09	624.60	96.48	-6.089	-0.006	0.003
134.00	0.00	-0.30	0.00	0.00	0.00	0.00	950.95	475.47	1000.09	624.60	101.57	-6.089	-0.006	0.000

Wind Loading - Shaft

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 13	

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	19.450	21.40	373.76	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	19.450	21.40	365.66	0.650	0.000	5.00	20.670	13.44	459.9	0.0	883.5
10.00		1.00	0.85	19.450	21.40	357.55	0.650	0.000	5.00	20.217	13.14	449.9	0.0	864.0
15.00		1.00	0.85	19.450	21.40	349.45	0.650	0.000	5.00	19.764	12.85	439.8	0.0	844.5
20.00		1.00	0.90	20.638	22.70	351.62	0.650	0.000	5.00	19.312	12.55	455.9	0.0	825.0
25.00		1.00	0.95	21.630	23.79	351.43	0.650	0.000	5.00	18.859	12.26	466.7	0.0	805.5
30.00		1.00	0.98	22.477	24.72	349.54	0.650	0.000	5.00	18.406	11.96	473.3	0.0	786.0
35.00		1.00	1.01	23.218	25.54	346.40	0.650	0.000	5.00	17.953	11.67	476.9	0.0	766.5
40.00		1.00	1.04	23.880	26.27	342.33	0.650	0.000	5.00	17.500	11.37	478.1	0.0	747.0
45.00		1.00	1.07	24.479	26.93	337.51	0.650	0.000	5.00	17.047	11.08	477.4	0.0	727.5
48.25	Bot - Section 2	1.00	1.09	24.841	27.33	334.05	0.650	0.000	3.25	10.838	7.04	308.0	0.0	462.4
50.00		1.00	1.09	25.029	27.53	332.09	0.650	0.000	1.75	5.849	3.80	167.5	0.0	453.9
53.25	Top - Section 1	1.00	1.11	25.363	27.90	328.29	0.650	0.000	3.25	10.715	6.96	310.9	0.0	831.3
55.00		1.00	1.12	25.536	28.09	331.58	0.650	0.000	1.75	5.691	3.70	166.2	0.0	202.6
60.00		1.00	1.14	26.008	28.61	325.26	0.650	0.000	5.00	15.953	10.37	474.6	0.0	567.9
65.00		1.00	1.16	26.450	29.09	318.57	0.650	0.000	5.00	15.500	10.07	469.0	0.0	551.6
70.00		1.00	1.17	26.866	29.55	311.54	0.650	0.000	5.00	15.047	9.78	462.5	0.0	535.4
75.00		1.00	1.19	27.259	29.98	304.22	0.650	0.000	5.00	14.594	9.49	455.1	0.0	519.1
80.00		1.00	1.21	27.632	30.39	296.64	0.650	0.000	5.00	14.141	9.19	447.0	0.0	502.9
85.00		1.00	1.22	27.987	30.79	288.82	0.650	0.000	5.00	13.688	8.90	438.3	0.0	486.6
87.00	Appurtenance(s)	1.00	1.23	28.124	30.94	285.64	0.650	0.000	2.00	5.349	3.48	172.1	0.0	190.1
90.00		1.00	1.24	28.325	31.16	280.79	0.650	0.000	3.00	7.887	5.13	255.6	0.0	280.3
95.00		1.00	1.25	28.650	31.51	272.56	0.650	0.000	5.00	12.783	8.31	419.0	0.0	454.1
98.00	Bot - Section 3	1.00	1.26	28.838	31.72	267.54	0.650	0.000	3.00	7.452	4.84	245.9	0.0	264.7
99.00	Appurtenance(s)	1.00	1.26	28.900	31.79	265.85	0.650	0.000	1.00	2.490	1.62	82.3	0.0	157.8
100.00		1.00	1.27	28.961	31.86	264.16	0.650	0.000	1.00	2.472	1.61	81.9	0.0	156.7
101.75	Top - Section 2	1.00	1.27	29.067	31.97	261.17	0.650	0.000	1.75	4.282	2.78	142.4	0.0	271.3
105.00		1.00	1.28	29.260	32.19	260.22	0.650	0.000	3.25	7.806	5.07	261.3	0.0	222.2
109.00	Top - Section 3	1.00	1.29	29.491	32.44	253.27	0.650	0.000	4.00	9.345	6.07	315.3	0.0	265.9
110.00		1.00	1.29	29.548	32.50	238.82	0.600	0.000	1.00	2.167	1.30	67.6	0.0	77.1
115.00		1.00	1.30	29.826	32.81	239.94	0.600	0.000	5.00	10.833	6.50	341.2	0.0	385.6
118.00	Appurtenance(s)	1.00	1.31	29.988	32.99	240.59	0.600	0.000	3.00	6.500	3.90	205.8	0.0	231.3
119.00	Top - Section 4	1.00	1.31	30.041	33.05	240.81	0.600	0.000	1.00	2.167	1.30	68.7	0.0	77.1
120.00		1.00	1.32	30.094	33.10	241.02	0.600	0.000	1.00	2.167	1.30	68.9	0.0	92.5
125.00		1.00	1.33	30.354	33.39	242.06	0.600	0.000	5.00	10.833	6.50	347.2	0.0	462.3
129.00	Appurtenance(s)	1.00	1.34	30.556	33.61	242.86	0.600	0.000	4.00	8.667	5.20	279.6	0.0	369.8
130.00		1.00	1.34	30.605	33.67	243.06	0.600	0.000	1.00	2.167	1.30	70.0	0.0	92.5
134.00	Appurtenance(s)	1.00	1.35	30.801	33.88	243.83	0.600	0.000	4.00	8.667	5.20	281.9	0.0	369.8
								Totals:	**134.00**			**11,583.6**		**16,784.3**

Discrete Appurtenance Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 14	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	134.00	Lightning rod	1	30.801	33.881	1.00	1.00	0.38	5.85	0.000	0.000	20.60	0.00	0.00
2	129.00	RRUS 4478 B14	3	30.556	33.611	0.40	0.80	1.98	160.38	0.000	0.000	106.48	0.00	0.00
3	129.00	(3) SitePro	1	30.556	33.611	0.75	0.75	38.03	2699.62	0.000	0.000	2044.91	0.00	0.00
4	129.00	TPA65R-BU8D	3	30.556	33.611	0.58	0.80	30.88	391.50	0.000	0.000	1660.63	0.00	0.00
5	129.00	Cci Antennas	3	30.556	33.611	0.58	0.80	31.31	258.39	0.000	0.000	1683.69	0.00	0.00
6	129.00	AIR 6449 N77	3	30.556	33.611	0.68	0.80	8.43	274.32	0.000	0.000	453.09	0.00	0.00
7	129.00	4449 B5/B12	3	30.556	33.611	0.40	0.80	2.36	191.70	0.000	0.000	127.13	0.00	0.00
8	129.00	B2 B66A 8843	3	30.556	33.611	0.40	0.80	1.97	194.40	0.000	0.000	105.84	0.00	0.00
9	129.00	DC9-48-60-24-8C-EV	1	30.556	33.611	0.80	0.80	0.91	23.58	0.000	0.000	49.05	0.00	0.00
10	129.00	DC6-48-60-18-8C-EV	1	30.556	33.611	0.80	0.80	3.82	23.58	0.000	0.000	205.65	0.00	0.00
11	129.00	Radio 4415 B30	3	30.556	33.611	0.40	0.80	2.23	124.20	0.000	0.000	120.03	0.00	0.00
12	118.00	VHLP2.5-11	2	29.988	32.986	1.00	1.00	16.86	86.40	1.583	0.000	889.84	880.57	0.00
13	118.00	NNVV-65B-R4	3	29.988	32.986	0.55	0.75	20.43	228.69	0.000	0.000	1078.24	0.00	0.00
14	118.00	LP Platform w/ Handrail	1	29.988	32.986	1.00	1.00	46.00	2203.85	0.000	0.000	2427.80	0.00	0.00
15	118.00	TD-RRH8x20-25	3	29.988	32.986	0.38	0.75	4.56	189.00	0.000	0.000	240.47	0.00	0.00
16	118.00	1900 MHz RRH	3	29.988	32.986	0.38	0.75	3.12	162.00	0.000	0.000	164.47	0.00	0.00
17	118.00	800 MHz RRH	6	29.988	32.986	0.38	0.75	5.60	286.20	0.000	0.000	295.69	0.00	0.00
18	118.00	AAHC	3	29.988	32.986	0.56	0.75	7.10	279.99	0.000	0.000	374.96	0.00	0.00
19	99.00	LP Platform w/ Handrail	1	28.900	31.790	1.00	1.00	46.00	2204.10	0.000	0.000	2339.71	0.00	0.00
20	99.00	4449 B71+ B85	3	28.900	31.790	0.50	0.75	2.49	189.00	0.000	0.000	126.52	0.00	0.00
21	99.00	APXVAARR24_43-U-NA2	3	28.900	31.790	0.52	0.75	31.88	345.60	0.000	0.000	1621.42	0.00	0.00
22	99.00	KRY 112 144/1	3	28.900	31.790	0.50	0.75	0.62	29.75	0.000	0.000	31.44	0.00	0.00
23	99.00	RRUS 4415 B25	3	28.900	31.790	0.50	0.75	2.47	124.20	0.000	0.000	125.75	0.00	0.00
24	99.00	KRY 112 489/2	3	28.900	31.790	0.50	0.75	0.98	41.58	0.000	0.000	49.84	0.00	0.00
25	99.00	AIR 6449 B41	3	28.900	31.790	0.52	0.75	10.28	359.64	0.000	0.000	523.12	0.00	0.00
26	99.00	APX16DWV-16DWV-S-E-	3	28.900	31.790	0.46	0.75	9.01	109.89	0.000	0.000	458.36	0.00	0.00
27	99.00	Air 32	4	28.900	31.790	0.65	0.75	16.99	475.92	0.000	0.000	864.22	0.00	0.00
28	87.00	MT6407-77A	3	28.124	30.936	0.52	0.75	7.39	214.38	0.000	0.000	365.63	0.00	0.00
29	87.00	Low Profile Platform	1	28.124	30.936	1.00	1.00	22.00	1350.00	0.000	0.000	1088.96	0.00	0.00
30	87.00	BXA-171063-12CF-EDIN-	3	28.124	30.936	0.63	0.75	9.03	40.50	0.000	0.000	447.18	0.00	0.00
31	87.00	MX06FR0660-03	6	28.124	30.936	0.66	0.75	39.09	383.40	0.000	0.000	1934.65	0.00	0.00
32	87.00	RVZDC-6627-PF-48	1	28.124	30.936	0.50	0.75	2.04	28.80	0.000	0.000	100.98	0.00	0.00
33	87.00	B2/B66A RRH-BR049	3	28.124	30.936	0.50	0.75	2.82	227.88	0.000	0.000	139.54	0.00	0.00
34	87.00	B5/B13 RRH-BR04C	3	28.124	30.936	0.50	0.75	2.82	189.81	0.000	0.000	139.54	0.00	0.00
35	87.00	HRK12 (Handrail Kit)	1	28.124	30.936	1.00	1.00	6.75	235.55	0.000	0.000	334.11	0.00	0.00
							Totals:		**14,333.65**			**22,739.52**		

Total Applied Force Summary

Structure:	CT13070-A-SBA		**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT		**Exposure:**	C	
Height:	134.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 15

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		459.94	1080.06	0.00	0.00
10.00		449.86	1060.55	0.00	0.00
15.00		439.78	1041.04	0.00	0.00
20.00		455.93	1021.54	0.00	0.00
25.00		466.66	1002.03	0.00	0.00
30.00		473.27	982.52	0.00	0.00
35.00		476.85	963.01	0.00	0.00
40.00		478.08	943.50	0.00	0.00
45.00		477.40	923.99	0.00	0.00
48.25		307.99	590.14	0.00	0.00
50.00		167.47	522.65	0.00	0.00
53.25		310.90	959.01	0.00	0.00
55.00		166.24	271.39	0.00	0.00
60.00		474.65	764.42	0.00	0.00
65.00		469.01	748.16	0.00	0.00
70.00		462.46	731.91	0.00	0.00
75.00		455.11	715.65	0.00	0.00
80.00		447.02	699.39	0.00	0.00
85.00		438.26	683.13	0.00	0.00
87.00	(21) attachments	4722.67	2939.02	0.00	0.00
90.00		255.57	341.69	0.00	0.00
95.00		418.96	556.48	0.00	0.00
98.00		245.85	326.08	0.00	0.00
99.00	(26) attachments	6222.69	4057.98	0.00	0.00
100.00		81.90	162.31	0.00	0.00
101.75		142.40	281.22	0.00	0.00
105.00		261.29	240.57	0.00	0.00
109.00		315.27	288.54	0.00	0.00
110.00		67.61	82.76	0.00	0.00
115.00		341.20	413.82	0.00	0.00
118.00	(21) attachments	5677.31	3684.42	880.57	0.00
119.00		68.73	79.00	0.00	0.00
120.00		68.86	94.34	0.00	0.00
125.00		347.25	471.72	0.00	0.00
129.00	(24) attachments	6836.14	4719.04	0.00	0.00
130.00		70.03	92.45	0.00	0.00
134.00	(1) attachments	302.49	375.66	0.00	0.00
	Totals:	**34,323.09**	**34,911.19**	**880.57**	**0.00**

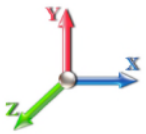
Calculated Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 16	

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 25

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-34.83	-34.41	-0.86	-3384.3	-0.02	3384.33	3976.93	1988.46	8011.33	4011.62	0.00	0.000	0.000	0.853
5.00	-33.59	-34.10	-0.86	-3212.3	-0.02	3212.30	3920.48	1960.24	7723.84	3867.66	0.14	-0.265	0.000	0.839
10.00	-32.38	-33.80	-0.86	-3041.8	-0.02	3041.81	3862.67	1931.34	7438.74	3724.90	0.56	-0.533	0.000	0.825
15.00	-31.18	-33.49	-0.86	-2872.8	-0.02	2872.83	3803.51	1901.75	7156.21	3583.42	1.27	-0.805	0.000	0.810
20.00	-30.01	-33.16	-0.86	-2705.3	-0.02	2705.37	3742.99	1871.49	6876.43	3443.32	2.26	-1.080	0.000	0.794
25.00	-28.86	-32.82	-0.86	-2539.5	-0.02	2539.55	3681.11	1840.56	6599.58	3304.69	3.54	-1.357	0.000	0.777
30.00	-27.73	-32.45	-0.86	-2375.4	-0.02	2375.47	3617.88	1808.94	6325.84	3167.62	5.11	-1.636	0.000	0.758
35.00	-26.62	-32.08	-0.86	-2213.2	-0.02	2213.20	3553.28	1776.64	6055.40	3032.20	6.97	-1.917	-0.001	0.738
40.00	-25.54	-31.69	-0.86	-2052.8	-0.02	2052.80	3487.33	1743.67	5788.43	2898.52	9.13	-2.199	-0.001	0.716
45.00	-24.51	-31.28	-0.86	-1894.3	-0.02	1894.34	3420.03	1710.01	5525.12	2766.66	11.59	-2.481	-0.001	0.692
48.25	-23.86	-31.00	-0.86	-1792.6	-0.03	1792.68	3375.55	1687.77	5356.01	2681.98	13.34	-2.666	-0.001	0.676
50.00	-23.27	-30.87	-0.87	-1738.4	-0.03	1738.43	3351.36	1675.68	5265.64	2636.73	14.34	-2.767	-0.001	0.667
53.25	-22.25	-30.57	-0.87	-1638.1	-0.03	1638.10	2647.50	1323.75	4165.57	2085.88	16.29	-2.952	-0.001	0.794
55.00	-21.88	-30.47	-0.87	-1584.6	-0.03	1584.61	2630.02	1315.01	4097.26	2051.68	17.39	-3.052	-0.001	0.781
60.00	-20.98	-30.06	-0.87	-1432.2	-0.03	1432.27	2579.17	1289.59	3903.72	1954.76	20.75	-3.366	-0.001	0.741
65.00	-20.10	-29.66	-0.87	-1281.9	-0.04	1281.95	2526.96	1263.48	3712.68	1859.10	24.44	-3.674	-0.002	0.698
70.00	-19.25	-29.25	-0.87	-1133.6	-0.04	1133.67	2473.39	1236.70	3524.34	1764.79	28.45	-3.973	-0.002	0.651
75.00	-18.43	-28.83	-0.87	-987.44	-0.04	987.44	2418.47	1209.23	3338.88	1671.92	32.76	-4.261	-0.002	0.599
80.00	-17.64	-28.41	-0.87	-843.28	-0.05	843.28	2362.18	1181.09	3156.47	1580.58	37.37	-4.533	-0.002	0.542
85.00	-16.91	-27.97	-0.87	-701.21	-0.05	701.21	2304.54	1152.27	2977.30	1490.86	42.25	-4.787	-0.003	0.478
87.00	-14.33	-23.05	-0.87	-645.27	-0.05	645.27	2281.10	1140.55	2906.58	1455.45	44.28	-4.885	-0.003	0.450
90.00	-13.94	-22.81	-0.87	-576.13	-0.06	576.13	2242.72	1121.36	2798.02	1401.09	47.39	-5.023	-0.003	0.418
95.00	-13.36	-22.38	-0.87	-462.09	-0.06	462.09	2163.84	1081.92	2603.70	1303.79	52.76	-5.232	-0.003	0.361
98.00	-13.03	-22.12	-0.87	-394.96	-0.06	394.96	2116.52	1058.26	2490.47	1247.09	56.08	-5.348	-0.003	0.323
99.00	-9.56	-15.55	-0.87	-372.84	-0.06	372.84	2100.74	1050.37	2453.28	1228.47	57.20	-5.384	-0.004	0.308
100.00	-9.40	-15.46	-0.87	-357.29	-0.07	357.29	2084.97	1042.48	2416.38	1209.99	58.33	-5.420	-0.004	0.300
101.75	-9.11	-15.31	-0.88	-330.24	-0.07	330.24	1611.41	805.70	1884.17	943.49	60.33	-5.480	-0.004	0.356
105.00	-8.86	-15.04	-0.88	-280.49	-0.07	280.49	1583.50	791.75	1805.91	904.30	64.09	-5.584	-0.004	0.316
109.00	-8.59	-14.71	-0.88	-220.33	-0.07	220.33	1548.36	774.18	1710.93	856.74	68.82	-5.717	-0.005	0.263
109.00	-8.59	-14.71	-0.88	-220.33	-0.07	220.33	933.38	466.69	986.46	590.00	68.82	-5.717	-0.005	0.384
110.00	-8.49	-14.65	-0.88	-205.62	-0.08	205.62	933.38	466.69	986.46	590.00	70.02	-5.747	-0.005	0.359
115.00	-8.09	-14.28	-0.88	-132.38	-0.08	132.38	933.38	466.69	986.46	590.00	76.10	-5.863	-0.005	0.234
118.00	-5.01	-8.25	0.00	-89.55	0.01	89.55	933.38	466.69	986.46	590.00	79.79	-5.909	-0.006	0.157
119.00	-4.94	-8.18	0.00	-81.30	0.01	81.30	933.38	466.69	986.46	590.00	81.03	-5.920	-0.006	0.143
119.00	-4.94	-8.18	0.00	-81.30	0.01	81.30	950.95	475.47	1000.09	624.60	81.03	-5.920	-0.006	0.136
120.00	-4.85	-8.10	0.00	-73.12	0.01	73.12	950.95	475.47	1000.09	624.60	82.27	-5.931	-0.006	0.122
125.00	-4.41	-7.71	0.00	-32.61	0.00	32.61	950.95	475.47	1000.09	624.60	88.48	-5.961	-0.006	0.057
129.00	-0.43	-0.42	0.00	-1.78	0.00	1.78	950.95	475.47	1000.09	624.60	93.48	-5.969	-0.006	0.003
130.00	-0.34	-0.34	0.00	-1.36	0.00	1.36	950.95	475.47	1000.09	624.60	94.72	-5.969	-0.006	0.003
134.00	0.00	-0.30	0.00	0.00	0.00	0.00	950.95	475.47	1000.09	624.60	99.72	-5.970	-0.006	0.000

Wind Loading - Shaft

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 17	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.242	5.00	21.705	26.05	148.1	381.7	1559.8
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.331	5.00	21.327	25.59	145.5	401.0	1553.0
15.00		1.00	0.85	5.168	5.68	0.00	1.200	1.386	5.00	20.920	25.10	142.7	408.8	1534.9
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.427	5.00	20.500	24.60	148.4	411.6	1511.7
25.00		1.00	0.95	5.747	6.32	0.00	1.200	1.459	5.00	20.074	24.09	152.3	411.5	1485.5
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.486	5.00	19.644	23.57	154.9	409.5	1457.5
35.00		1.00	1.01	6.169	6.79	0.00	1.200	1.509	5.00	19.210	23.05	156.4	406.0	1428.0
40.00		1.00	1.04	6.345	6.98	0.00	1.200	1.529	5.00	18.774	22.53	157.2	401.5	1397.5
45.00		1.00	1.07	6.504	7.15	0.00	1.200	1.547	5.00	18.336	22.00	157.4	396.2	1366.2
48.25	Bot - Section 2	1.00	1.09	6.600	7.26	0.00	1.200	1.558	3.25	11.682	14.02	101.8	255.0	871.6
50.00		1.00	1.09	6.650	7.32	0.00	1.200	1.564	1.75	6.305	7.57	55.3	138.7	743.8
53.25	Top - Section 1	1.00	1.11	6.739	7.41	0.00	1.200	1.574	3.25	11.568	13.88	102.9	254.8	1363.2
55.00		1.00	1.12	6.785	7.46	0.00	1.200	1.579	1.75	6.151	7.38	55.1	136.4	406.5
60.00		1.00	1.14	6.910	7.60	0.00	1.200	1.592	5.00	17.280	20.74	157.6	382.6	1139.8
65.00		1.00	1.16	7.028	7.73	0.00	1.200	1.605	5.00	16.838	20.21	156.2	375.2	1110.7
70.00		1.00	1.17	7.138	7.85	0.00	1.200	1.617	5.00	16.395	19.67	154.5	367.4	1081.2
75.00		1.00	1.19	7.243	7.97	0.00	1.200	1.628	5.00	15.951	19.14	152.5	359.2	1051.4
80.00		1.00	1.21	7.342	8.08	0.00	1.200	1.639	5.00	15.507	18.61	150.3	350.7	1021.2
85.00		1.00	1.22	7.436	8.18	0.00	1.200	1.649	5.00	15.062	18.07	147.8	342.0	990.9
87.00	Appurtenance(s)	1.00	1.23	7.473	8.22	0.00	1.200	1.653	2.00	5.899	7.08	58.2	135.4	388.9
90.00		1.00	1.24	7.526	8.28	0.00	1.200	1.658	3.00	8.716	10.46	86.6	199.8	573.5
95.00		1.00	1.25	7.612	8.37	0.00	1.200	1.667	5.00	14.172	17.01	142.4	323.9	929.4
98.00	Bot - Section 3	1.00	1.26	7.662	8.43	0.00	1.200	1.672	3.00	8.288	9.95	83.8	191.0	543.9
99.00	Appurtenance(s)	1.00	1.26	7.679	8.45	0.00	1.200	1.674	1.00	2.769	3.32	28.1	64.3	274.8
100.00		1.00	1.27	7.695	8.46	0.00	1.200	1.676	1.00	2.751	3.30	27.9	63.9	272.8
101.75	Top - Section 2	1.00	1.27	7.723	8.50	0.00	1.200	1.679	1.75	4.772	5.73	48.6	110.7	472.5
105.00		1.00	1.28	7.774	8.55	0.00	1.200	1.684	3.25	8.718	10.46	89.5	201.6	497.9
109.00	Top - Section 3	1.00	1.29	7.836	8.62	0.00	1.200	1.690	4.00	10.472	12.57	108.3	242.0	596.5
110.00		1.00	1.29	7.851	8.64	0.00	1.200	1.692	1.00	2.449	2.94	25.4	57.2	160.1
115.00		1.00	1.30	7.925	8.72	0.00	1.200	1.699	5.00	12.250	14.70	128.1	287.6	801.6
118.00	Appurtenance(s)	1.00	1.31	7.968	8.76	0.00	1.200	1.704	3.00	7.352	8.82	77.3	173.0	481.4
119.00	Top - Section 4	1.00	1.31	7.982	8.78	0.00	1.200	1.705	1.00	2.451	2.94	25.8	57.7	160.5
120.00		1.00	1.32	7.996	8.80	0.00	1.200	1.707	1.00	2.451	2.94	25.9	57.8	181.0
125.00		1.00	1.33	8.065	8.87	0.00	1.200	1.714	5.00	12.261	14.71	130.5	290.1	906.5
129.00	Appurtenance(s)	1.00	1.34	8.119	8.93	0.00	1.200	1.719	4.00	9.813	11.78	105.2	232.9	726.0
130.00		1.00	1.34	8.132	8.95	0.00	1.200	1.720	1.00	2.453	2.94	26.3	58.3	181.5
134.00	Appurtenance(s)	1.00	1.35	8.184	9.00	0.00	1.200	1.726	4.00	9.817	11.78	106.1	233.8	726.9
								Totals:	**134.00**			**3,921.0**		**31,950.0**

Discrete Appurtenance Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 18	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	134.00	Lightning rod	1	8.184	9.002	0.00	1.00	1.46	38.39	0.000	0.000	13.10	0.00	0.00
2	129.00	RRUS 4478 B14	3	8.119	8.931	0.40	0.80	2.59	308.18	0.000	0.000	23.15	0.00	0.00
3	129.00	(3) SitePro	1	8.119	8.931	0.75	0.75	85.09	6666.74	0.000	0.000	759.91	0.00	0.00
4	129.00	TPA65R-BU8D	3	8.119	8.931	0.58	0.80	33.94	2496.85	0.000	0.000	303.08	0.00	0.00
5	129.00	Cci Antennas	3	8.119	8.931	0.58	0.80	34.41	1805.28	0.000	0.000	307.29	0.00	0.00
6	129.00	AIR 6449 N77	3	8.119	8.931	0.68	0.80	10.15	771.09	0.000	0.000	90.61	0.00	0.00
7	129.00	4449 B5/B12	3	8.119	8.931	0.40	0.80	3.01	372.54	0.000	0.000	26.89	0.00	0.00
8	129.00	B2 B66A 8843	3	8.119	8.931	0.40	0.80	2.58	371.07	0.000	0.000	23.03	0.00	0.00
9	129.00	DC9-48-60-24-8C-EV	1	8.119	8.931	0.80	0.80	2.16	118.74	0.000	0.000	19.31	0.00	0.00
10	129.00	DC6-48-60-18-8C-EV	1	8.119	8.931	0.80	0.80	4.52	211.42	0.000	0.000	40.37	0.00	0.00
11	129.00	Radio 4415 B30	3	8.119	8.931	0.40	0.80	2.90	344.43	0.000	0.000	25.88	0.00	0.00
12	118.00	VHLP2.5-11	2	7.968	8.765	1.00	1.00	20.19	357.23	1.583	0.000	176.98	280.21	0.00
13	118.00	NNVV-65B-R4	3	7.968	8.765	0.55	0.75	22.80	1044.67	0.000	0.000	199.80	0.00	0.00
14	118.00	LP Platform w/ Handrail	1	7.968	8.765	1.00	1.00	79.23	4490.52	0.000	0.000	694.43	0.00	0.00
15	118.00	TD-RRH8x20-25	3	7.968	8.765	0.38	0.75	5.45	573.93	0.000	0.000	47.75	0.00	0.00
16	118.00	1900 MHz RRH	3	7.968	8.765	0.38	0.75	4.51	388.67	0.000	0.000	39.52	0.00	0.00
17	118.00	800 MHz RRH	6	7.968	8.765	0.38	0.75	8.11	688.24	0.000	0.000	71.12	0.00	0.00
18	118.00	AAHC	3	7.968	8.765	0.56	0.75	8.44	607.67	0.000	0.000	73.98	0.00	0.00
19	99.00	LP Platform w/ Handrail	1	7.679	8.447	1.00	1.00	76.80	4608.85	0.000	0.000	648.74	0.00	0.00
20	99.00	4449 B71+ B85	3	7.679	8.447	0.50	0.75	3.26	446.36	0.000	0.000	27.55	0.00	0.00
21	99.00	APXVAARR24_43-U-NA2	3	7.679	8.447	0.52	0.75	34.74	1657.35	0.000	0.000	293.47	0.00	0.00
22	99.00	KRY 112 144/1	3	7.679	8.447	0.50	0.75	1.31	64.76	0.000	0.000	11.02	0.00	0.00
23	99.00	RRUS 4415 B25	3	7.679	8.447	0.50	0.75	3.22	255.69	0.000	0.000	27.18	0.00	0.00
24	99.00	KRY 112 489/2	3	7.679	8.447	0.50	0.75	1.87	94.57	0.000	0.000	15.75	0.00	0.00
25	99.00	AIR 6449 B41	3	7.679	8.447	0.52	0.75	11.90	948.52	0.000	0.000	100.50	0.00	0.00
26	99.00	APX16DWV-16DWV-S-E-	3	7.679	8.447	0.46	0.75	10.50	537.10	0.000	0.000	88.68	0.00	0.00
27	99.00	Air 32	4	7.679	8.447	0.65	0.75	19.94	1336.77	0.000	0.000	168.46	0.00	0.00
28	87.00	MT6407-77A	3	7.473	8.220	0.52	0.75	8.80	621.67	0.000	0.000	72.31	0.00	0.00
29	87.00	Low Profile Platform	1	7.473	8.220	1.00	1.00	38.73	2739.52	0.000	0.000	318.32	0.00	0.00
30	87.00	BXA-171063-12CF-EDIN-	3	7.473	8.220	0.63	0.75	13.26	243.73	0.000	0.000	108.97	0.00	0.00
31	87.00	MX06FR0660-03	6	7.473	8.220	0.66	0.75	44.23	2027.09	0.000	0.000	363.56	0.00	0.00
32	87.00	RVZDC-6627-PF-48	1	7.473	8.220	0.50	0.75	2.43	121.09	0.000	0.000	19.98	0.00	0.00
33	87.00	B2/B66A RRH-BR049	3	7.473	8.220	0.50	0.75	3.63	518.55	0.000	0.000	29.87	0.00	0.00
34	87.00	B5/B13 RRH-BR04C	3	7.473	8.220	0.50	0.75	3.63	447.46	0.000	0.000	29.87	0.00	0.00
35	87.00	HRK12 (Handrail Kit)	1	7.473	8.220	1.00	1.00	13.00	869.91	0.000	0.000	106.84	0.00	0.00
							Totals:		**39,194.65**			**5,367.27**		

Total Applied Force Summary

Structure:	CT13070-A-SBA		**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT		**Exposure:**	C	
Height:	134.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 19

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		148.07	1821.77	0.00	0.00
10.00		145.49	1815.04	0.00	0.00
15.00		142.71	1796.89	0.00	0.00
20.00		148.39	1773.69	0.00	0.00
25.00		152.29	1747.56	0.00	0.00
30.00		154.86	1719.50	0.00	0.00
35.00		156.43	1690.05	0.00	0.00
40.00		157.24	1659.53	0.00	0.00
45.00		157.43	1628.18	0.00	0.00
48.25		101.78	1041.86	0.00	0.00
50.00		55.35	835.54	0.00	0.00
53.25		102.90	1533.49	0.00	0.00
55.00		55.09	498.24	0.00	0.00
60.00		157.62	1401.86	0.00	0.00
65.00		156.20	1372.73	0.00	0.00
70.00		154.48	1343.23	0.00	0.00
75.00		152.50	1313.39	0.00	0.00
80.00		150.28	1283.27	0.00	0.00
85.00		147.85	1252.88	0.00	0.00
87.00	(21) attachments	1107.90	8082.68	0.00	0.00
90.00		86.59	655.43	0.00	0.00
95.00		142.40	1065.88	0.00	0.00
98.00		83.83	625.76	0.00	0.00
99.00	(26) attachments	1409.41	10252.01	0.00	0.00
100.00		27.95	280.35	0.00	0.00
101.75		48.65	485.70	0.00	0.00
105.00		89.47	522.38	0.00	0.00
109.00		108.31	626.67	0.00	0.00
110.00		25.38	167.59	0.00	0.00
115.00		128.14	839.32	0.00	0.00
118.00	(21) attachments	1380.91	8654.98	280.21	0.00
119.00		25.82	163.05	0.00	0.00
120.00		25.87	183.56	0.00	0.00
125.00		130.53	919.07	0.00	0.00
129.00	(24) attachments	1724.69	14202.39	0.00	0.00
130.00		26.34	181.54	0.00	0.00
134.00	(1) attachments	119.16	765.29	0.00	0.00
	Totals:	**9,288.29**	**76,202.36**	**280.21**	**0.00**

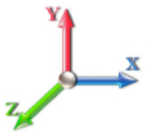
Calculated Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 20	

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-76.20	-9.34	-0.28	-947.63	0.00	947.63	3976.93	1988.46	8011.33	4011.62	0.00	0.000	0.000	0.255
5.00	-74.36	-9.29	-0.28	-900.94	0.00	900.94	3920.48	1960.24	7723.84	3867.66	0.04	-0.074	0.000	0.252
10.00	-72.54	-9.23	-0.28	-854.51	0.00	854.51	3862.67	1931.34	7438.74	3724.90	0.16	-0.150	0.000	0.248
15.00	-70.73	-9.18	-0.28	-808.34	0.00	808.34	3803.51	1901.75	7156.21	3583.42	0.36	-0.226	0.000	0.244
20.00	-68.94	-9.12	-0.28	-762.45	0.00	762.45	3742.99	1871.49	6876.43	3443.32	0.63	-0.303	0.000	0.240
25.00	-67.18	-9.05	-0.28	-716.87	0.00	716.87	3681.11	1840.56	6599.58	3304.69	0.99	-0.381	0.000	0.235
30.00	-65.45	-8.97	-0.28	-671.64	0.00	671.64	3617.88	1808.94	6325.84	3167.62	1.44	-0.460	0.000	0.230
35.00	-63.75	-8.89	-0.28	-626.79	0.00	626.79	3553.28	1776.64	6055.40	3032.20	1.96	-0.540	0.000	0.225
40.00	-62.08	-8.80	-0.28	-582.36	0.00	582.36	3487.33	1743.67	5788.43	2898.52	2.57	-0.620	0.000	0.219
45.00	-60.44	-8.69	-0.28	-538.37	0.00	538.37	3420.03	1710.01	5525.12	2766.66	3.26	-0.700	0.000	0.212
48.25	-59.40	-8.62	-0.28	-510.12	0.00	510.12	3375.55	1687.77	5356.01	2681.98	3.76	-0.753	0.000	0.208
50.00	-58.56	-8.60	-0.28	-495.03	0.00	495.03	3351.36	1675.68	5265.64	2636.73	4.04	-0.781	0.000	0.205
53.25	-57.02	-8.51	-0.28	-467.10	0.00	467.10	2647.50	1323.75	4165.57	2085.88	4.59	-0.834	0.000	0.246
55.00	-56.51	-8.51	-0.28	-452.21	0.00	452.21	2630.02	1315.01	4097.26	2051.68	4.90	-0.863	0.000	0.242
60.00	-55.10	-8.41	-0.28	-409.67	-0.01	409.67	2579.17	1289.59	3903.72	1954.76	5.85	-0.952	0.000	0.231
65.00	-53.72	-8.31	-0.28	-367.61	-0.01	367.61	2526.96	1263.48	3712.68	1859.10	6.90	-1.040	0.000	0.219
70.00	-52.37	-8.21	-0.28	-326.04	-0.01	326.04	2473.39	1236.70	3524.34	1764.79	8.03	-1.126	-0.001	0.206
75.00	-51.05	-8.11	-0.28	-284.98	-0.01	284.98	2418.47	1209.23	3338.88	1671.92	9.26	-1.209	-0.001	0.192
80.00	-49.75	-7.99	-0.28	-244.45	-0.01	244.45	2362.18	1181.09	3156.47	1580.58	10.57	-1.288	-0.001	0.176
85.00	-48.50	-7.86	-0.28	-204.49	-0.01	204.49	2304.54	1152.27	2977.30	1490.86	11.95	-1.362	-0.001	0.158
87.00	-40.44	-6.58	-0.28	-188.77	-0.01	188.77	2281.10	1140.55	2906.58	1455.45	12.53	-1.390	-0.001	0.147
90.00	-39.78	-6.51	-0.28	-169.03	-0.01	169.03	2242.72	1121.36	2798.02	1401.09	13.42	-1.431	-0.001	0.138
95.00	-38.71	-6.38	-0.28	-136.46	-0.01	136.46	2163.84	1081.92	2603.70	1303.79	14.95	-1.492	-0.001	0.123
98.00	-38.09	-6.29	-0.28	-117.33	-0.01	117.33	2116.52	1058.26	2490.47	1247.09	15.90	-1.526	-0.001	0.112
99.00	-27.88	-4.61	-0.28	-111.03	-0.01	111.03	2100.74	1050.37	2453.28	1228.47	16.22	-1.537	-0.001	0.104
100.00	-27.60	-4.59	-0.28	-106.42	-0.01	106.42	2084.97	1042.48	2416.38	1209.99	16.54	-1.548	-0.001	0.101
101.75	-27.11	-4.53	-0.28	-98.40	-0.01	98.40	1611.41	805.70	1884.17	943.49	17.11	-1.566	-0.001	0.121
105.00	-26.59	-4.45	-0.28	-83.66	-0.01	83.66	1583.50	791.75	1805.91	904.30	18.19	-1.597	-0.001	0.109
109.00	-25.96	-4.33	-0.28	-65.87	-0.01	65.87	1548.36	774.18	1710.93	856.74	19.55	-1.636	-0.001	0.094
109.00	-25.96	-4.33	-0.28	-65.87	-0.01	65.87	933.38	466.69	986.46	590.00	19.55	-1.636	-0.001	0.140
110.00	-25.79	-4.31	-0.28	-61.54	-0.01	61.54	933.38	466.69	986.46	590.00	19.89	-1.646	-0.001	0.132
115.00	-24.96	-4.17	-0.28	-39.98	-0.01	39.98	933.38	466.69	986.46	590.00	21.63	-1.680	-0.002	0.095
118.00	-16.35	-2.54	0.00	-27.47	0.00	27.47	933.38	466.69	986.46	590.00	22.69	-1.694	-0.002	0.064
119.00	-16.18	-2.51	0.00	-24.93	0.00	24.93	933.38	466.69	986.46	590.00	23.05	-1.698	-0.002	0.060
119.00	-16.18	-2.51	0.00	-24.93	0.00	24.93	950.95	475.47	1000.09	624.60	23.05	-1.698	-0.002	0.057
120.00	-16.00	-2.48	0.00	-22.42	0.00	22.42	950.95	475.47	1000.09	624.60	23.41	-1.701	-0.002	0.053
125.00	-15.09	-2.32	0.00	-10.03	0.00	10.03	950.95	475.47	1000.09	624.60	25.19	-1.710	-0.002	0.032
129.00	-0.94	-0.17	0.00	-0.74	0.00	0.74	950.95	475.47	1000.09	624.60	26.63	-1.713	-0.002	0.002
130.00	-0.76	-0.14	0.00	-0.57	0.00	0.57	950.95	475.47	1000.09	624.60	26.99	-1.713	-0.002	0.002
134.00	0.00	-0.12	0.00	0.00	0.00	0.00	950.95	475.47	1000.09	624.60	28.42	-1.713	-0.002	0.000

Seismic Segment Forces (Factored)

Structure:	CT13070-A-SBA		**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT		**Exposure:**	C	
Height:	134.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 21

Load Case:	1.2D + 1.0E							**Iterations**	22
Gust Response Factor	1.10				**Sds**	0.20		**Ss**	0.19
Dead Load Factor	1.20	**Seismic Load Factor**	1.00		**Sd1**	0.10		**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.34		**SA**	0.03	**Seismic Importance Factor**		1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		981.72	0.00	0.04	0.02	21.20	
10.00		960.04	0.01	0.06	0.03	29.08	
15.00		938.37	0.02	0.07	0.04	32.11	
20.00		916.69	0.04	0.07	0.04	33.12	
25.00		895.01	0.07	0.07	0.04	33.39	
30.00		873.34	0.09	0.07	0.04	33.48	
35.00		851.66	0.13	0.07	0.03	33.52	
40.00		829.99	0.17	0.07	0.03	33.32	
45.00		808.31	0.21	0.06	0.02	32.43	
48.25	Bot - Section 2	513.78	0.25	0.06	0.02	20.17	
50.00		504.30	0.26	0.05	0.02	19.36	
53.25	Top - Section 1	923.64	0.30	0.05	0.01	33.06	
55.00		225.12	0.32	0.04	0.01	7.60	
60.00		631.00	0.38	0.02	0.01	15.81	
65.00		612.94	0.44	0.00	0.01	7.23	
70.00		594.88	0.52	-0.02	0.01	-2.81	
75.00		576.81	0.59	-0.05	0.01	-12.22	
80.00		558.75	0.67	-0.08	0.03	-18.93	
85.00		540.69	0.76	-0.10	0.04	-21.89	
87.00	Appurtenance(s)	3178.2	0.80	-0.11	0.05	-130.97	
90.00		311.41	0.85	-0.12	0.07	-12.52	
95.00		504.56	0.95	-0.12	0.11	-16.67	
98.00	Bot - Section 3	294.07	1.01	-0.11	0.14	-7.50	
99.00	Appurtenance(s)	4486.1	1.03	-0.10	0.15	-100.82	
100.00		174.06	1.05	-0.09	0.16	-3.34	
101.75	Top - Section 2	301.47	1.09	-0.08	0.18	-3.85	
105.00		246.88	1.16	-0.03	0.23	0.31	
109.00	Top - Section 3	295.47	1.25	0.06	0.29	6.59	
110.00		85.68	1.27	0.09	0.31	2.42	
115.00		428.39	1.39	0.27	0.42	26.50	
118.00	Appurtenance(s)	4074.9	1.47	0.42	0.50	347.53	
119.00	Top - Section 4	85.68	1.49	0.48	0.53	8.02	
120.00		102.73	1.52	0.54	0.56	10.51	
125.00		513.63	1.64	0.92	0.73	76.85	
129.00	Appurtenance(s)	5234.9	1.75	1.33	0.90	1008.49	
130.00		102.73	1.78	1.44	0.94	20.97	
134.00	Appurtenance(s)	417.40	1.89	1.98	1.14	105.60	
	Totals:	**34,575.5**				**1,667.2**	**Total Wind:** **34,323.1**

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

Calculated Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 22	

Load Case:	1.2D + 1.0E							**Iterations**	22
Gust Response Factor	1.10			**Sds**	0.20			**Ss**	0.19
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.34	**SA**	0.03	**Seismic Importance Factor**			1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-46.55	-2.01	0.00	-229.95	0.00	229.95	3976.93	1988.46	8011.33	4011.62		0.00	0.00	0.069
5.00	-45.11	-2.00	0.00	-219.92	0.00	219.92	3920.48	1960.24	7723.84	3867.66		0.01	-0.02	0.068
10.00	-43.69	-1.98	0.00	-209.93	0.00	209.93	3862.67	1931.34	7438.74	3724.90		0.04	-0.04	0.068
15.00	-42.30	-1.96	0.00	-200.01	0.00	200.01	3803.51	1901.75	7156.21	3583.42		0.09	-0.06	0.067
20.00	-40.94	-1.94	0.00	-190.20	0.00	190.20	3742.99	1871.49	6876.43	3443.32		0.16	-0.07	0.066
25.00	-39.60	-1.92	0.00	-180.48	0.00	180.48	3681.11	1840.56	6599.58	3304.69		0.24	-0.09	0.065
30.00	-38.29	-1.90	0.00	-170.88	0.00	170.88	3617.88	1808.94	6325.84	3167.62		0.35	-0.11	0.065
35.00	-37.01	-1.88	0.00	-161.38	0.00	161.38	3553.28	1776.64	6055.40	3032.20		0.48	-0.13	0.064
40.00	-35.75	-1.85	0.00	-152.00	0.00	152.00	3487.33	1743.67	5788.43	2898.52		0.64	-0.16	0.063
45.00	-34.52	-1.83	0.00	-142.74	0.00	142.74	3420.03	1710.01	5525.12	2766.66		0.81	-0.18	0.062
48.25	-33.73	-1.81	0.00	-136.81	0.00	136.81	3375.55	1687.77	5356.01	2681.98		0.93	-0.19	0.061
50.00	-33.03	-1.80	0.00	-133.64	0.00	133.64	3351.36	1675.68	5265.64	2636.73		1.01	-0.20	0.061
53.25	-31.76	-1.76	0.00	-127.80	0.00	127.80	2647.50	1323.75	4165.57	2085.88		1.14	-0.21	0.073
55.00	-31.39	-1.76	0.00	-124.72	0.00	124.72	2630.02	1315.01	4097.26	2051.68		1.22	-0.22	0.073
60.00	-30.37	-1.76	0.00	-115.90	0.00	115.90	2579.17	1289.59	3903.72	1954.76		1.47	-0.25	0.071
65.00	-29.37	-1.76	0.00	-107.11	0.00	107.11	2526.96	1263.48	3712.68	1859.10		1.74	-0.27	0.069
70.00	-28.40	-1.77	0.00	-98.32	0.00	98.32	2473.39	1236.70	3524.34	1764.79		2.04	-0.30	0.067
75.00	-27.44	-1.77	0.00	-89.49	0.00	89.49	2418.47	1209.23	3338.88	1671.92		2.36	-0.32	0.065
80.00	-26.51	-1.78	0.00	-80.62	0.00	80.62	2362.18	1181.09	3156.47	1580.58		2.71	-0.35	0.062
85.00	-25.60	-1.78	0.00	-71.72	0.00	71.72	2304.54	1152.27	2977.30	1490.86		3.09	-0.37	0.059
87.00	-21.68	-1.76	0.00	-68.16	0.00	68.16	2281.10	1140.55	2906.58	1455.45		3.24	-0.38	0.056
90.00	-21.22	-1.76	0.00	-62.88	0.00	62.88	2242.72	1121.36	2798.02	1401.09		3.49	-0.40	0.054
95.00	-20.48	-1.77	0.00	-54.06	0.00	54.06	2163.84	1081.92	2603.70	1303.79		3.92	-0.42	0.051
98.00	-20.05	-1.77	0.00	-48.76	0.00	48.76	2116.52	1058.26	2490.47	1247.09		4.19	-0.43	0.049
99.00	-14.63	-1.73	0.00	-46.99	0.00	46.99	2100.74	1050.37	2453.28	1228.47		4.28	-0.44	0.045
100.00	-14.42	-1.73	0.00	-45.27	0.00	45.27	2084.97	1042.48	2416.38	1209.99		4.37	-0.44	0.044
101.75	-14.04	-1.73	0.00	-42.25	0.00	42.25	1611.41	805.70	1884.17	943.49		4.53	-0.45	0.053
105.00	-13.72	-1.73	0.00	-36.64	0.00	36.64	1583.50	791.75	1805.91	904.30		4.85	-0.46	0.049
109.00	-13.34	-1.72	0.00	-29.73	0.00	29.73	1548.36	774.18	1710.93	856.74		5.24	-0.48	0.043
109.00	-13.34	-1.72	0.00	-29.73	0.00	29.73	933.38	466.69	986.46	590.00		5.24	-0.48	0.065
110.00	-13.23	-1.72	0.00	-28.01	0.00	28.01	933.38	466.69	986.46	590.00		5.34	-0.49	0.062
115.00	-12.67	-1.69	0.00	-19.42	0.00	19.42	933.38	466.69	986.46	590.00		5.86	-0.50	0.047
118.00	-7.77	-1.30	0.00	-14.35	0.00	14.35	933.38	466.69	986.46	590.00		6.18	-0.51	0.033
119.00	-7.66	-1.29	0.00	-13.05	0.00	13.05	933.38	466.69	986.46	590.00		6.29	-0.51	0.030
119.00	-7.66	-1.29	0.00	-13.05	0.00	13.05	950.95	475.47	1000.09	624.60		6.29	-0.51	0.029
120.00	-7.53	-1.28	0.00	-11.76	0.00	11.76	950.95	475.47	1000.09	624.60		6.39	-0.51	0.027
125.00	-6.91	-1.20	0.00	-5.36	0.00	5.36	950.95	475.47	1000.09	624.60		6.93	-0.52	0.016
129.00	-0.62	-0.13	0.00	-0.57	0.00	0.57	950.95	475.47	1000.09	624.60		7.37	-0.52	0.002
130.00	-0.50	-0.11	0.00	-0.44	0.00	0.44	950.95	475.47	1000.09	624.60		7.48	-0.52	0.001
134.00	0.00	-0.11	0.00	0.00	0.00	0.00	950.95	475.47	1000.09	624.60		7.91	-0.52	0.000

Seismic Segment Forces (Factored)

Structure:	CT13070-A-SBA		**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT		**Exposure:**	C	
Height:	134.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 23

Tower Engineering Solutions

Load Case:	0.9D + 1.0E							**Iterations**	22
Gust Response Factor	1.10				**Sds**	0.20		**Ss**	0.19
Dead Load Factor	0.90	**Seismic Load Factor**	1.00		**Sd1**	0.10		**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.34		**SA**	0.03	**Seismic Importance Factor**		1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		981.72	0.00	0.04	0.02	21.20	
10.00		960.04	0.01	0.06	0.03	29.08	
15.00		938.37	0.02	0.07	0.04	32.11	
20.00		916.69	0.04	0.07	0.04	33.12	
25.00		895.01	0.07	0.07	0.04	33.39	
30.00		873.34	0.09	0.07	0.04	33.48	
35.00		851.66	0.13	0.07	0.03	33.52	
40.00		829.99	0.17	0.07	0.03	33.32	
45.00		808.31	0.21	0.06	0.02	32.43	
48.25	Bot - Section 2	513.78	0.25	0.06	0.02	20.17	
50.00		504.30	0.26	0.05	0.02	19.36	
53.25	Top - Section 1	923.64	0.30	0.05	0.01	33.06	
55.00		225.12	0.32	0.04	0.01	7.60	
60.00		631.00	0.38	0.02	0.01	15.81	
65.00		612.94	0.44	0.00	0.01	7.23	
70.00		594.88	0.52	-0.02	0.01	-2.81	
75.00		576.81	0.59	-0.05	0.01	-12.22	
80.00		558.75	0.67	-0.08	0.03	-18.93	
85.00		540.69	0.76	-0.10	0.04	-21.89	
87.00	Appurtenance(s)	3178.2	0.80	-0.11	0.05	-130.97	
90.00		311.41	0.85	-0.12	0.07	-12.52	
95.00		504.56	0.95	-0.12	0.11	-16.67	
98.00	Bot - Section 3	294.07	1.01	-0.11	0.14	-7.50	
99.00	Appurtenance(s)	4486.1	1.03	-0.10	0.15	-100.82	
100.00		174.06	1.05	-0.09	0.16	-3.34	
101.75	Top - Section 2	301.47	1.09	-0.08	0.18	-3.85	
105.00		246.88	1.16	-0.03	0.23	0.31	
109.00	Top - Section 3	295.47	1.25	0.06	0.29	6.59	
110.00		85.68	1.27	0.09	0.31	2.42	
115.00		428.39	1.39	0.27	0.42	26.50	
118.00	Appurtenance(s)	4074.9	1.47	0.42	0.50	347.53	
119.00	Top - Section 4	85.68	1.49	0.48	0.53	8.02	
120.00		102.73	1.52	0.54	0.56	10.51	
125.00		513.63	1.64	0.92	0.73	76.85	
129.00	Appurtenance(s)	5234.9	1.75	1.33	0.90	1008.49	
130.00		102.73	1.78	1.44	0.94	20.97	
134.00	Appurtenance(s)	417.40	1.89	1.98	1.14	105.60	
	Totals:	**34,575.5**				**1,667.2**	**Total Wind:** **34,323.1**

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

Calculated Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 24	

Tower Engineering Solutions

Load Case: 0.9D + 1.0E

Iterations 22

Gust Response Factor	1.10			**Sds**	0.20			**Ss**	0.19
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.34	**SA**	0.03			**Seismic Importance Factor**	1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-34.91	-2.00	0.00	-226.45	0.00	226.45	3976.93	1988.46	8011.33	4011.62		0.00	0.00	0.065
5.00	-33.83	-1.99	0.00	-216.44	0.00	216.44	3920.48	1960.24	7723.84	3867.66		0.01	-0.02	0.065
10.00	-32.77	-1.97	0.00	-206.47	0.00	206.47	3862.67	1931.34	7438.74	3724.90		0.04	-0.04	0.064
15.00	-31.73	-1.95	0.00	-196.60	0.00	196.60	3803.51	1901.75	7156.21	3583.42		0.09	-0.05	0.063
20.00	-30.71	-1.93	0.00	-186.85	0.00	186.85	3742.99	1871.49	6876.43	3443.32		0.15	-0.07	0.062
25.00	-29.70	-1.90	0.00	-177.21	0.00	177.21	3681.11	1840.56	6599.58	3304.69		0.24	-0.09	0.062
30.00	-28.72	-1.88	0.00	-167.70	0.00	167.70	3617.88	1808.94	6325.84	3167.62		0.35	-0.11	0.061
35.00	-27.76	-1.85	0.00	-158.32	0.00	158.32	3553.28	1776.64	6055.40	3032.20		0.48	-0.13	0.060
40.00	-26.81	-1.83	0.00	-149.06	0.00	149.06	3487.33	1743.67	5788.43	2898.52		0.62	-0.15	0.059
45.00	-25.89	-1.80	0.00	-139.94	0.00	139.94	3420.03	1710.01	5525.12	2766.66		0.80	-0.17	0.058
48.25	-25.30	-1.78	0.00	-134.09	0.00	134.09	3375.55	1687.77	5356.01	2681.98		0.92	-0.19	0.057
50.00	-24.77	-1.76	0.00	-130.98	0.00	130.98	3351.36	1675.68	5265.64	2636.73		0.99	-0.19	0.057
53.25	-23.81	-1.73	0.00	-125.25	0.00	125.25	2647.50	1323.75	4165.57	2085.88		1.13	-0.21	0.069
55.00	-23.54	-1.73	0.00	-122.21	0.00	122.21	2630.02	1315.01	4097.26	2051.68		1.20	-0.22	0.069
60.00	-22.78	-1.72	0.00	-113.56	0.00	113.56	2579.17	1289.59	3903.72	1954.76		1.44	-0.24	0.067
65.00	-22.03	-1.72	0.00	-104.96	0.00	104.96	2526.96	1263.48	3712.68	1859.10		1.71	-0.27	0.065
70.00	-21.30	-1.73	0.00	-96.36	0.00	96.36	2473.39	1236.70	3524.34	1764.79		2.00	-0.29	0.063
75.00	-20.58	-1.73	0.00	-87.73	0.00	87.73	2418.47	1209.23	3338.88	1671.92		2.32	-0.32	0.061
80.00	-19.88	-1.74	0.00	-79.07	0.00	79.07	2362.18	1181.09	3156.47	1580.58		2.66	-0.34	0.058
85.00	-19.20	-1.74	0.00	-70.39	0.00	70.39	2304.54	1152.27	2977.30	1490.86		3.03	-0.36	0.056
87.00	-16.26	-1.72	0.00	-66.92	0.00	66.92	2281.10	1140.55	2906.58	1455.45		3.19	-0.37	0.053
90.00	-15.91	-1.72	0.00	-61.75	0.00	61.75	2242.72	1121.36	2798.02	1401.09		3.43	-0.39	0.051
95.00	-15.36	-1.73	0.00	-53.13	0.00	53.13	2163.84	1081.92	2603.70	1303.79		3.85	-0.41	0.048
98.00	-15.03	-1.73	0.00	-47.95	0.00	47.95	2116.52	1058.26	2490.47	1247.09		4.11	-0.43	0.046
99.00	-10.97	-1.70	0.00	-46.23	0.00	46.23	2100.74	1050.37	2453.28	1228.47		4.20	-0.43	0.043
100.00	-10.81	-1.70	0.00	-44.53	0.00	44.53	2084.97	1042.48	2416.38	1209.99		4.29	-0.44	0.042
101.75	-10.53	-1.70	0.00	-41.56	0.00	41.56	1611.41	805.70	1884.17	943.49		4.45	-0.44	0.051
105.00	-10.29	-1.70	0.00	-36.05	0.00	36.05	1583.50	791.75	1805.91	904.30		4.76	-0.46	0.046
109.00	-10.00	-1.69	0.00	-29.26	0.00	29.26	1548.36	774.18	1710.93	856.74		5.15	-0.47	0.041
109.00	-10.00	-1.69	0.00	-29.26	0.00	29.26	933.38	466.69	986.46	590.00		5.15	-0.47	0.060
110.00	-9.92	-1.69	0.00	-27.57	0.00	27.57	933.38	466.69	986.46	590.00		5.25	-0.48	0.057
115.00	-9.50	-1.66	0.00	-19.13	0.00	19.13	933.38	466.69	986.46	590.00		5.75	-0.49	0.043
118.00	-5.82	-1.28	0.00	-14.15	0.00	14.15	933.38	466.69	986.46	590.00		6.07	-0.50	0.030
119.00	-5.74	-1.27	0.00	-12.87	0.00	12.87	933.38	466.69	986.46	590.00		6.17	-0.50	0.028
119.00	-5.74	-1.27	0.00	-12.87	0.00	12.87	950.95	475.47	1000.09	624.60		6.17	-0.50	0.027
120.00	-5.65	-1.26	0.00	-11.60	0.00	11.60	950.95	475.47	1000.09	624.60		6.28	-0.50	0.025
125.00	-5.18	-1.18	0.00	-5.29	0.00	5.29	950.95	475.47	1000.09	624.60		6.81	-0.51	0.014
129.00	-0.47	-0.13	0.00	-0.57	0.00	0.57	950.95	475.47	1000.09	624.60		7.23	-0.51	0.001
130.00	-0.37	-0.11	0.00	-0.44	0.00	0.44	950.95	475.47	1000.09	624.60		7.34	-0.51	0.001
134.00	0.00	-0.11	0.00	0.00	0.00	0.00	950.95	475.47	1000.09	624.60		7.77	-0.51	0.000

Wind Loading - Shaft

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 25	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	231.19	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	226.18	0.650	0.000	5.00	20.670	13.44	110.0	0.0	981.7
10.00		1.00	0.85	7.442	8.19	221.17	0.650	0.000	5.00	20.217	13.14	107.6	0.0	960.0
15.00		1.00	0.85	7.442	8.19	216.16	0.650	0.000	5.00	19.764	12.85	105.2	0.0	938.4
20.00		1.00	0.90	7.896	8.69	217.50	0.650	0.000	5.00	19.312	12.55	109.0	0.0	916.7
25.00		1.00	0.95	8.276	9.10	217.38	0.650	0.000	5.00	18.859	12.26	111.6	0.0	895.0
30.00		1.00	0.98	8.600	9.46	216.21	0.650	0.000	5.00	18.406	11.96	113.2	0.0	873.3
35.00		1.00	1.01	8.883	9.77	214.27	0.650	0.000	5.00	17.953	11.67	114.0	0.0	851.7
40.00		1.00	1.04	9.137	10.05	211.75	0.650	0.000	5.00	17.500	11.37	114.3	0.0	830.0
45.00		1.00	1.07	9.366	10.30	208.77	0.650	0.000	5.00	17.047	11.08	114.2	0.0	808.3
48.25	Bot - Section 2	1.00	1.09	9.505	10.46	206.63	0.650	0.000	3.25	10.838	7.04	73.7	0.0	513.8
50.00		1.00	1.09	9.576	10.53	205.42	0.650	0.000	1.75	5.849	3.80	40.0	0.0	504.3
53.25	Top - Section 1	1.00	1.11	9.704	10.67	203.06	0.650	0.000	3.25	10.715	6.96	74.3	0.0	923.6
55.00		1.00	1.12	9.770	10.75	205.10	0.650	0.000	1.75	5.691	3.70	39.8	0.0	225.1
60.00		1.00	1.14	9.951	10.95	201.19	0.650	0.000	5.00	15.953	10.37	113.5	0.0	631.0
65.00		1.00	1.16	10.120	11.13	197.05	0.650	0.000	5.00	15.500	10.07	112.2	0.0	612.9
70.00		1.00	1.17	10.279	11.31	192.71	0.650	0.000	5.00	15.047	9.78	110.6	0.0	594.9
75.00		1.00	1.19	10.430	11.47	188.18	0.650	0.000	5.00	14.594	9.49	108.8	0.0	576.8
80.00		1.00	1.21	10.572	11.63	183.49	0.650	0.000	5.00	14.141	9.19	106.9	0.0	558.8
85.00		1.00	1.22	10.708	11.78	178.65	0.650	0.000	5.00	13.688	8.90	104.8	0.0	540.7
87.00	Appurtenance(s)	1.00	1.23	10.761	11.84	176.68	0.650	0.000	2.00	5.349	3.48	41.2	0.0	211.2
90.00		1.00	1.24	10.838	11.92	173.69	0.650	0.000	3.00	7.887	5.13	61.1	0.0	311.4
95.00		1.00	1.25	10.962	12.06	168.60	0.650	0.000	5.00	12.783	8.31	100.2	0.0	504.6
98.00	Bot - Section 3	1.00	1.26	11.034	12.14	165.49	0.650	0.000	3.00	7.452	4.84	58.8	0.0	294.1
99.00	Appurtenance(s)	1.00	1.26	11.057	12.16	164.44	0.650	0.000	1.00	2.490	1.62	19.7	0.0	175.4
100.00		1.00	1.27	11.081	12.19	163.39	0.650	0.000	1.00	2.472	1.61	19.6	0.0	174.1
101.75	Top - Section 2	1.00	1.27	11.121	12.23	161.55	0.650	0.000	1.75	4.282	2.78	34.1	0.0	301.5
105.00		1.00	1.28	11.195	12.31	160.96	0.650	0.000	3.25	7.806	5.07	62.5	0.0	246.9
109.00	Top - Section 3	1.00	1.29	11.284	12.41	156.66	0.650	0.000	4.00	9.345	6.07	75.4	0.0	295.5
110.00		1.00	1.29	11.305	12.44	147.72	0.600	0.000	1.00	2.167	1.30	16.2	0.0	85.7
115.00		1.00	1.30	11.412	12.55	148.42	0.600	0.000	5.00	10.833	6.50	81.6	0.0	428.4
118.00	Appurtenance(s)	1.00	1.31	11.474	12.62	148.82	0.600	0.000	3.00	6.500	3.90	49.2	0.0	257.0
119.00	Top - Section 4	1.00	1.31	11.494	12.64	148.95	0.600	0.000	1.00	2.167	1.30	16.4	0.0	85.7
120.00		1.00	1.32	11.514	12.67	149.08	0.600	0.000	1.00	2.167	1.30	16.5	0.0	102.7
125.00		1.00	1.33	11.614	12.78	149.73	0.600	0.000	5.00	10.833	6.50	83.0	0.0	513.6
129.00	Appurtenance(s)	1.00	1.34	11.691	12.86	150.22	0.600	0.000	4.00	8.667	5.20	66.9	0.0	410.9
130.00		1.00	1.34	11.710	12.88	150.34	0.600	0.000	1.00	2.167	1.30	16.7	0.0	102.7
134.00	Appurtenance(s)	1.00	1.35	11.785	12.96	150.83	0.600	0.000	4.00	8.667	5.20	67.4	0.0	410.9
								Totals:	**134.00**			**2,770.0**		**18,649.2**

Discrete Appurtenance Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 26	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	134.00	Lightning rod	1	11.785	12.963	1.00	1.00	0.38	6.50	0.000	0.000	4.93	0.00	0.00
2	129.00	RRUS 4478 B14	3	11.691	12.860	0.40	0.80	1.98	178.20	0.000	0.000	25.46	0.00	0.00
3	129.00	(3) SitePro	1	11.691	12.860	0.75	0.75	38.03	2999.58	0.000	0.000	489.00	0.00	0.00
4	129.00	TPA65R-BU8D	3	11.691	12.860	0.58	0.80	30.88	435.00	0.000	0.000	397.11	0.00	0.00
5	129.00	Cci Antennas	3	11.691	12.860	0.58	0.80	31.31	287.10	0.000	0.000	402.63	0.00	0.00
6	129.00	AIR 6449 N77	3	11.691	12.860	0.68	0.80	8.43	304.80	0.000	0.000	108.35	0.00	0.00
7	129.00	4449 B5/B12	3	11.691	12.860	0.40	0.80	2.36	213.00	0.000	0.000	30.40	0.00	0.00
8	129.00	B2 B66A 8843	3	11.691	12.860	0.40	0.80	1.97	216.00	0.000	0.000	25.31	0.00	0.00
9	129.00	DC9-48-60-24-8C-EV	1	11.691	12.860	0.80	0.80	0.91	26.20	0.000	0.000	11.73	0.00	0.00
10	129.00	DC6-48-60-18-8C-EV	1	11.691	12.860	0.80	0.80	3.82	26.20	0.000	0.000	49.18	0.00	0.00
11	129.00	Radio 4415 B30	3	11.691	12.860	0.40	0.80	2.23	138.00	0.000	0.000	28.70	0.00	0.00
12	118.00	VHLP2.5-11	2	11.474	12.621	1.00	1.00	16.86	96.00	1.583	0.000	212.79	336.92	0.00
13	118.00	NNVV-65B-R4	3	11.474	12.621	0.55	0.75	20.43	254.10	0.000	0.000	257.84	0.00	0.00
14	118.00	LP Platform w/ Handrail	1	11.474	12.621	1.00	1.00	46.00	2448.72	0.000	0.000	580.57	0.00	0.00
15	118.00	TD-RRH8x20-25	3	11.474	12.621	0.38	0.75	4.56	210.00	0.000	0.000	57.50	0.00	0.00
16	118.00	1900 MHz RRH	3	11.474	12.621	0.38	0.75	3.12	180.00	0.000	0.000	39.33	0.00	0.00
17	118.00	800 MHz RRH	6	11.474	12.621	0.38	0.75	5.60	318.00	0.000	0.000	70.71	0.00	0.00
18	118.00	AAHC	3	11.474	12.621	0.56	0.75	7.10	311.10	0.000	0.000	89.66	0.00	0.00
19	99.00	LP Platform w/ Handrail	1	11.057	12.163	1.00	1.00	46.00	2449.00	0.000	0.000	559.50	0.00	0.00
20	99.00	4449 B71+ B85	3	11.057	12.163	0.50	0.75	2.49	210.00	0.000	0.000	30.25	0.00	0.00
21	99.00	APXVAARR24_43-U-NA2	3	11.057	12.163	0.52	0.75	31.88	384.00	0.000	0.000	387.73	0.00	0.00
22	99.00	KRY 112 144/1	3	11.057	12.163	0.50	0.75	0.62	33.06	0.000	0.000	7.52	0.00	0.00
23	99.00	RRUS 4415 B25	3	11.057	12.163	0.50	0.75	2.47	138.00	0.000	0.000	30.07	0.00	0.00
24	99.00	KRY 112 489/2	3	11.057	12.163	0.50	0.75	0.98	46.20	0.000	0.000	11.92	0.00	0.00
25	99.00	AIR 6449 B41	3	11.057	12.163	0.52	0.75	10.28	399.60	0.000	0.000	125.09	0.00	0.00
26	99.00	APX16DWV-16DWV-S-E-	3	11.057	12.163	0.46	0.75	9.01	122.10	0.000	0.000	109.61	0.00	0.00
27	99.00	Air 32	4	11.057	12.163	0.65	0.75	16.99	528.80	0.000	0.000	206.66	0.00	0.00
28	87.00	MT6407-77A	3	10.761	11.837	0.52	0.75	7.39	238.20	0.000	0.000	87.43	0.00	0.00
29	87.00	Low Profile Platform	1	10.761	11.837	1.00	1.00	22.00	1500.00	0.000	0.000	260.41	0.00	0.00
30	87.00	BXA-171063-12CF-EDIN-	3	10.761	11.837	0.63	0.75	9.03	45.00	0.000	0.000	106.93	0.00	0.00
31	87.00	MX06FR0660-03	6	10.761	11.837	0.66	0.75	39.09	426.00	0.000	0.000	462.64	0.00	0.00
32	87.00	RVZDC-6627-PF-48	1	10.761	11.837	0.50	0.75	2.04	32.00	0.000	0.000	24.15	0.00	0.00
33	87.00	B2/B66A RRH-BR049	3	10.761	11.837	0.50	0.75	2.82	253.20	0.000	0.000	33.37	0.00	0.00
34	87.00	B5/B13 RRH-BR04C	3	10.761	11.837	0.50	0.75	2.82	210.90	0.000	0.000	33.37	0.00	0.00
35	87.00	HRK12 (Handrail Kit)	1	10.761	11.837	1.00	1.00	6.75	261.72	0.000	0.000	79.90	0.00	0.00
							Totals:		**15,926.28**			**5,437.76**		

Total Applied Force Summary

Structure:	CT13070-A-SBA		**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT		**Exposure:**	C	
Height:	134.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 27

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		109.99	1200.07	0.00	0.00
10.00		107.58	1178.39	0.00	0.00
15.00		105.17	1156.72	0.00	0.00
20.00		109.03	1135.04	0.00	0.00
25.00		111.59	1113.36	0.00	0.00
30.00		113.17	1091.69	0.00	0.00
35.00		114.03	1070.01	0.00	0.00
40.00		114.32	1048.34	0.00	0.00
45.00		114.16	1026.66	0.00	0.00
48.25		73.65	655.71	0.00	0.00
50.00		40.05	580.72	0.00	0.00
53.25		74.35	1065.57	0.00	0.00
55.00		39.75	301.54	0.00	0.00
60.00		113.50	849.35	0.00	0.00
65.00		112.16	831.29	0.00	0.00
70.00		110.59	813.23	0.00	0.00
75.00		108.83	795.16	0.00	0.00
80.00		106.90	777.10	0.00	0.00
85.00		104.80	759.04	0.00	0.00
87.00	(21) attachments	1129.35	3265.58	0.00	0.00
90.00		61.12	379.66	0.00	0.00
95.00		100.19	618.31	0.00	0.00
98.00		58.79	362.32	0.00	0.00
99.00	(26) attachments	1488.05	4508.87	0.00	0.00
100.00		19.59	180.34	0.00	0.00
101.75		34.05	312.46	0.00	0.00
105.00		62.48	267.29	0.00	0.00
109.00		75.39	320.60	0.00	0.00
110.00		16.17	91.96	0.00	0.00
115.00		81.59	459.80	0.00	0.00
118.00	(21) attachments	1357.63	4093.80	336.92	0.00
119.00		16.44	87.78	0.00	0.00
120.00		16.47	104.83	0.00	0.00
125.00		83.04	524.13	0.00	0.00
129.00	(24) attachments	1634.75	5243.38	0.00	0.00
130.00		16.75	102.73	0.00	0.00
134.00	(1) attachments	72.34	417.40	0.00	0.00
	Totals:	**8,207.78**	**38,790.22**	**336.92**	**0.00**

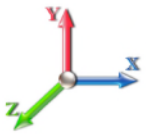
Calculated Forces

Structure:	CT13070-A-SBA	**Code:**	EIA/TIA-222-G	8/13/2021	
Site Name:	Waterbury 4, CT	**Exposure:**	C		
Height:	134.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 28	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 23

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-38.79	-8.23	-0.34	-814.35	0.00	814.35	3976.93	1988.46	8011.33	4011.62	0.00	0.000	0.000	0.213
5.00	-37.58	-8.16	-0.34	-773.20	0.00	773.20	3920.48	1960.24	7723.84	3867.66	0.03	-0.064	0.000	0.210
10.00	-36.39	-8.09	-0.34	-732.40	0.00	732.40	3862.67	1931.34	7438.74	3724.90	0.14	-0.128	0.000	0.206
15.00	-35.22	-8.02	-0.34	-691.94	0.00	691.94	3803.51	1901.75	7156.21	3583.42	0.31	-0.194	0.000	0.202
20.00	-34.08	-7.95	-0.34	-651.82	0.00	651.82	3742.99	1871.49	6876.43	3443.32	0.54	-0.260	0.000	0.198
25.00	-32.96	-7.87	-0.34	-612.06	0.00	612.06	3681.11	1840.56	6599.58	3304.69	0.85	-0.327	0.000	0.194
30.00	-31.86	-7.79	-0.34	-572.71	0.00	572.71	3617.88	1808.94	6325.84	3167.62	1.23	-0.394	0.000	0.190
35.00	-30.78	-7.70	-0.34	-533.76	0.00	533.76	3553.28	1776.64	6055.40	3032.20	1.68	-0.462	0.000	0.185
40.00	-29.72	-7.62	-0.34	-495.24	0.00	495.24	3487.33	1743.67	5788.43	2898.52	2.20	-0.530	0.000	0.179
45.00	-28.69	-7.52	-0.34	-457.16	0.00	457.16	3420.03	1710.01	5525.12	2766.66	2.79	-0.598	0.000	0.174
48.25	-28.03	-7.46	-0.34	-432.73	0.00	432.73	3375.55	1687.77	5356.01	2681.98	3.21	-0.643	0.000	0.170
50.00	-27.45	-7.43	-0.34	-419.68	0.00	419.68	3351.36	1675.68	5265.64	2636.73	3.45	-0.667	0.000	0.167
53.25	-26.38	-7.35	-0.34	-395.55	0.00	395.55	2647.50	1323.75	4165.57	2085.88	3.92	-0.712	0.000	0.200
55.00	-26.07	-7.33	-0.34	-382.68	0.00	382.68	2630.02	1315.01	4097.26	2051.68	4.19	-0.736	0.000	0.196
60.00	-25.21	-7.24	-0.34	-346.01	0.00	346.01	2579.17	1289.59	3903.72	1954.76	5.00	-0.812	-0.001	0.187
65.00	-24.37	-7.15	-0.34	-309.80	0.00	309.80	2526.96	1263.48	3712.68	1859.10	5.89	-0.886	-0.001	0.176
70.00	-23.55	-7.05	-0.34	-274.06	0.00	274.06	2473.39	1236.70	3524.34	1764.79	6.86	-0.958	-0.001	0.165
75.00	-22.75	-6.96	-0.34	-238.79	0.00	238.79	2418.47	1209.23	3338.88	1671.92	7.90	-1.028	-0.001	0.152
80.00	-21.97	-6.86	-0.34	-204.00	0.00	204.00	2362.18	1181.09	3156.47	1580.58	9.01	-1.094	-0.001	0.138
85.00	-21.21	-6.76	-0.34	-169.69	0.00	169.69	2304.54	1152.27	2977.30	1490.86	10.19	-1.155	-0.001	0.123
87.00	-17.96	-5.57	-0.34	-156.18	-0.01	156.18	2281.10	1140.55	2906.58	1455.45	10.68	-1.179	-0.001	0.115
90.00	-17.58	-5.51	-0.34	-139.47	-0.01	139.47	2242.72	1121.36	2798.02	1401.09	11.43	-1.212	-0.001	0.107
95.00	-16.96	-5.41	-0.34	-111.89	-0.01	111.89	2163.84	1081.92	2603.70	1303.79	12.73	-1.263	-0.001	0.094
98.00	-16.60	-5.35	-0.34	-95.66	-0.01	95.66	2116.52	1058.26	2490.47	1247.09	13.53	-1.291	-0.001	0.085
99.00	-12.12	-3.76	-0.34	-90.31	-0.01	90.31	2100.74	1050.37	2453.28	1228.47	13.80	-1.300	-0.001	0.079
100.00	-11.94	-3.74	-0.34	-86.54	-0.01	86.54	2084.97	1042.48	2416.38	1209.99	14.08	-1.308	-0.001	0.077
101.75	-11.63	-3.70	-0.34	-79.99	-0.01	79.99	1611.41	805.70	1884.17	943.49	14.56	-1.323	-0.001	0.092
105.00	-11.36	-3.64	-0.34	-67.95	-0.01	67.95	1583.50	791.75	1805.91	904.30	15.47	-1.348	-0.002	0.082
109.00	-11.04	-3.56	-0.34	-53.38	-0.01	53.38	1548.36	774.18	1710.93	856.74	16.61	-1.380	-0.002	0.069
109.00	-11.04	-3.56	-0.34	-53.38	-0.01	53.38	933.38	466.69	986.46	590.00	16.61	-1.380	-0.002	0.102
110.00	-10.95	-3.55	-0.34	-49.82	-0.01	49.82	933.38	466.69	986.46	590.00	16.90	-1.388	-0.002	0.096
115.00	-10.49	-3.46	-0.34	-32.08	-0.01	32.08	933.38	466.69	986.46	590.00	18.37	-1.416	-0.002	0.066
118.00	-6.43	-2.00	0.00	-21.71	0.00	21.71	933.38	466.69	986.46	590.00	19.27	-1.427	-0.002	0.044
119.00	-6.34	-1.98	0.00	-19.71	0.00	19.71	933.38	466.69	986.46	590.00	19.57	-1.430	-0.002	0.040
119.00	-6.34	-1.98	0.00	-19.71	0.00	19.71	950.95	475.47	1000.09	624.60	19.57	-1.430	-0.002	0.038
120.00	-6.24	-1.96	0.00	-17.72	0.00	17.72	950.95	475.47	1000.09	624.60	19.87	-1.432	-0.002	0.035
125.00	-5.72	-1.87	0.00	-7.91	0.00	7.91	950.95	475.47	1000.09	624.60	21.37	-1.440	-0.002	0.019
129.00	-0.52	-0.10	0.00	-0.43	0.00	0.43	950.95	475.47	1000.09	624.60	22.58	-1.441	-0.002	0.001
130.00	-0.42	-0.08	0.00	-0.33	0.00	0.33	950.95	475.47	1000.09	624.60	22.88	-1.441	-0.002	0.001
134.00	0.00	-0.07	0.00	0.00	0.00	0.00	950.95	475.47	1000.09	624.60	24.09	-1.442	-0.002	0.000

Final Analysis Summary

Structure:	CT13070-A-SBA		**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT		**Exposure:**	C	
Height:	134.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 29

Tower Engineering Solutions

Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 97 mph Wind	34.4	0.00	46.47	0.02	0.86	3430.84
0.9D + 1.6W 97 mph Wind	34.4	0.00	34.83	0.02	0.86	3384.33
1.2D + 1.0Di + 1.0Wi 50 mph Wind	9.3	0.00	76.20	0.00	0.28	947.63
1.2D + 1.0E	2.0	0.00	46.55	0.00	0.00	229.95
0.9D + 1.0E	2.0	0.00	34.91	0.00	0.00	226.45
1.0D + 1.0W 60 mph Wind	8.2	0.00	38.79	0.00	0.34	814.35

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 97 mph Wind	-46.47	-34.43	-0.86	-3430.8	-0.02	-3430.8	3976.93	1988.4	8011.33	4011.62	0.00	0.867
0.9D + 1.6W 97 mph Wind	-34.83	-34.41	-0.86	-3384.3	-0.02	-3384.3	3976.93	1988.4	8011.33	4011.62	0.00	0.853
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-76.20	-9.34	-0.28	-947.63	0.00	-947.63	3976.93	1988.4	8011.33	4011.62	0.00	0.255
1.2D + 1.0E	-31.76	-1.76	0.00	-127.80	0.00	-127.80	2647.50	1323.7	4165.57	2085.88	53.25	0.073
0.9D + 1.0E	-23.81	-1.73	0.00	-125.25	0.00	-125.25	2647.50	1323.7	4165.57	2085.88	53.25	0.069
1.0D + 1.0W 60 mph Wind	-38.79	-8.23	-0.34	-814.35	0.00	-814.35	3976.93	1988.4	8011.33	4011.62	0.00	0.213

Base Plate Summary

Structure:	CT13070-A-SB		**Code:**	EIA/TIA-222-G	8/13/2021
Site Name:	Waterbury 4, CT		**Exposure:**	C	
Height:	134.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 30

Tower Engineering Solutions

Reactions	
Original Design	
Moment (kip-ft):	3142.00
Axial (kip):	42.00
Shear (kip):	29.00
Analysis (1.2D + 1.6W)	
Moment (kip-ft):	3430.84
Axial (kip):	46.47
Shear (kip):	34.43

Base Plate	
Yield (ksi):	60.00
Width (in):	53.25
Style:	Clipped
Polygon Sides:	0.00
Clip Length (in):	9.00
Effective Len (in):	10.37
Moment (kip-in):	802.98
Allow Stress (ksi):	81.00
Applied Stress (ksi):	51.84
Stress Ratio:	0.64

Anchor Bolts	
Bolt Circle:	55.75
Number Bolts:	12.00
Bolt Type:	2.25" 18J
Bolt Diameter (in):	2.25
Yield (ksi):	75.00
Ultimate (ksi):	100.00
Arrangement:	Clustered
Cluster Dist (in):	6.00
Start Angle (deg):	45.00
Compression	
Force (kip):	252.51
Allowable (kip):	260.00
Ratio:	0.99
Tension	
Force (kip):	239.81
Allowable (kip):	260.00
Ratio:	0.94

Monopole Mat Foundation Design

			Date: 8/13/2021
Customer Name:	Verizon	**EIA/TIA Standard:**	EIA-222-G
Site Name:		**Structure Height (Ft.):**	134
Site Number:	CT13070-A-SBA	**Engineer Name:**	S. Hesselbein
Engr. Number:	112599	**Engineer Login ID:**	

Foundation Info Obtained from: Mapping Operation

Structure Type: Monopole

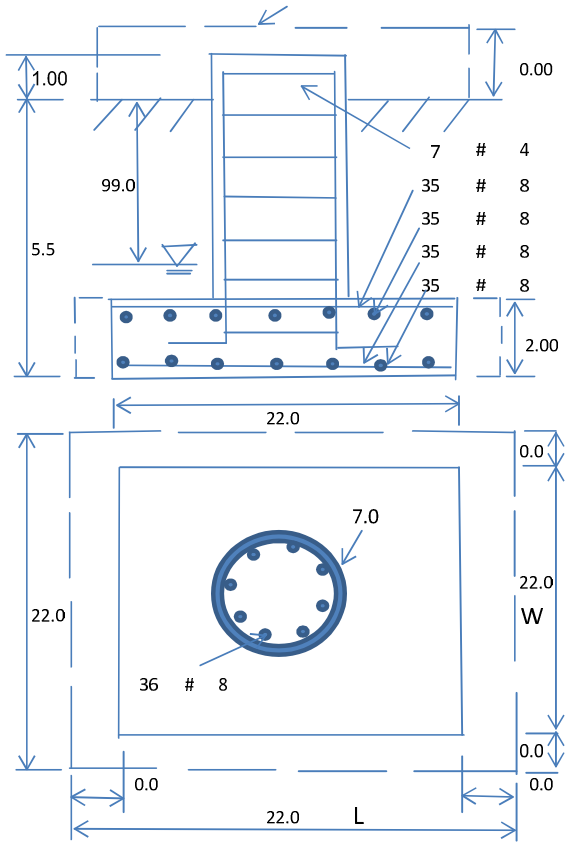
Analysis or Design? Analysis

Base Reactions (Factored):

Axial Load (Kips):	46.5	Shear Force (Kips):	34.4
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3430.8
Allowable overstress %:	5.0%		

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	5.5
Pier Height A. G. (ft.):	1.00	Thickness of Pad (ft):	2.00
Length of Pad (ft.):	22	Width of Pad (ft.):	22
Final Length of pad (ft)	22.0	Final width of pad (ft):	22.0



Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	36	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	8	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	35	Qty. of Rebar in Pad (W):	35

Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	35	Qty. of Rebar in Pad (W):	35
Apply 1.35 factor for e/w Per G:	1.35		

Soil Design Parameters:

Soil Unit Weight (pcf):	130.0	Soil Buoyant Weight:	50.0	Pcf		
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	16000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad:	25
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:			1.00	

Foundation Analysis and Design: Uplift Strength Reduction Factor: 0.75 — Compression Strength Reduction Factor: 0.75

Total Dry Soil Volume (cu. Ft.):	1559.30	Total Dry Soil Weight (Kips):	202.71
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	202.71	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	1141.18	Total Dry Concrete Weight (Kips):	171.18
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	171.18	Total Vertical Load on Base (Kips):	420.39

Check Soil Capacities:

					Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressure under the base (psf):	4315	<	Allowable Factored Soil Bearing (psf):	12000	0.36	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	4213.0	>	Design Factored Momont (kips-ft):	3654	0.87	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.15	OK!				

Check the capacities of Reinforceing Concrete:

Strength reduction factor (Flexure and axial tension):				Strength reduction factor (Shear):		
Strength reduction factor (Axial compresion):				Wind Load Factor on Concrete Design:		
						ad Capacity Ratio
(1) Concrete Pier:						
Vertical Steel Rebar Area (sq. in./each):				Tie / Stirrup Area (sq. in./each):		
Calculated Moment Capacity (Mn,Kips-Ft):			>	Design Factored Moment (Mu, Kips-		
Calculated Shear Capacity (Kips):			>	Design Factored Shear (Kips):		
Calculated Tension Capacity (Tn, Kips):			>	Design Factored Tension (Tu Kips):		
Calculated Compression Capacity (Pn, Kips):			>	Design Factored Axial Load (Pu Kips):		
Moment & Axial Strength Combination:			OK!	Check Tie Spacing (Design/Required):		
Pier Reinforcement Ratio:				Reinforcement Ratio is satisfied per ACI		
(2).Concrete Pad:						
One-Way Design Shear Capacity (L-Direction, Kips):				One-Way Factored Shear (L-D. Kips):	250.1	
One-Way Design Shear Capacity (W-Direction, Kips):				One-Way Factored Shear (W-D., Kips		
One-Way Design Shear Capacity (Corner-Corner. Kips):				One-Way Factored Shear (C-C, Kips):	260.7	
Lower Steel Pad Reinforcement Ratio (L-Direct.):				Lower Steel Pad Reinf. Ratio (W-Direc		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):				Moment at Bottom (L-Dir. K-Ft):		
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):				Moment at Bottom (W-Dir. K-Ft):		
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):				Moment at Bottom (C-C Dir. K-Ft):	1444.6	
Upper Steel Pad Reinforcement Ratio (L-Direct.):				Upper Steel Reinf. Ratio (W-Dir.):		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):				Moment at the top (L-Dir K-Ft):		
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):				Moment at the top (W-Dir K-Ft):		
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):				Moment at the top (C-C Dir. K-Ft):		
(3).Check Punching Shear Capacity due to Moment in the Pier:						
Moment transferred by punching shear:	1372.3	k-ft.		Max. factored shear stress v_{u_CD}		Psi
Max. factored shear stress v_{u_AB}		Psi		Factored shear Strength ϕv_n		Psi
Max. factored shear stress v_u		Psi		Check Usage of Punching Shear Capacity:		OK!

Maser Consulting Connecticut
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Mt. Laurel, NJ 08054
856.797.0412
peter.albano@colliersengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10074889
Maser Consulting Connecticut Project #: 21777081A

June 23, 2021

Site Information	*Site ID:*	*469379-VZW / WATERBURY EAST CT*
	Site Name:	*WATERBURY EAST CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*940 Meriden Rd.* *Waterbury, Connecticut 06705* *New Haven County*
	Latitude:	*41.553278°*
	Longitude:	*-72.993361°*
Structure Information	*Tower Type:*	*115-Ft Monopole*
	Mount Type:	*13.83-Ft Platform*

FUZE ID # 16227601

Analysis Results

Platform: **56.9% 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: Frank Centone

Digitally signed by Justin Linette
Date: 2021.06.24 07:59:51-04'00'

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 325070, dated December 16, 2020*
Mount Mapping Report	*Level-Up Towers, Site ID: 469379, dated February 15, 2021*
Previous Mount Analysis Report	*Maser Consulting Project # 21777081A, dated June 2, 2021*
Mount Mapping Report	*Maser Consulting Project # 21777081A, dated June 23, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	117 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.978
Seismic Parameters:	S_S:	0.194
	S_1:	0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
87.00	87.00	6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RVZDC-6627-PF-48	
		3	Amphenol Antel	BXA-171063-12CF	Retained

Any proposed antennas not currently installed should be mounted such that the centerline of the antennas does not exceed 6 inches vertically from the center of the antenna mounts.

The recent mount mapping did not report existing OVP units. However, 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.

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:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Support Rail Corner	4.9%	Pass
Support Rail	9.3%	Pass
Mount Pipe	20.5%	Pass
Replacement Pipe	18.7%	Pass
Face Horizontal	13.4%	Pass
Corner Plate	18.1%	Pass
Cross Arm Plate	22.3%	Pass
Grating Support	13.6%	Pass
Platform Crossmember	19.4%	Pass
Standoff Horizontal	33.8%	Pass
Connection Check	56.9%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**56.9%**

Recommendation:

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

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

Attachments:

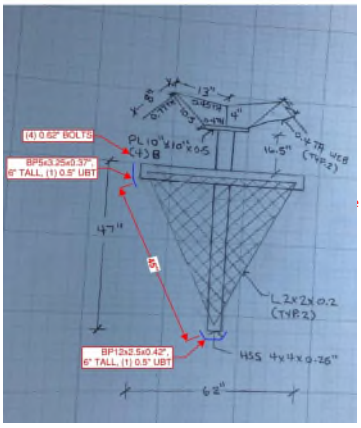
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter

02.15.2021 09:57

V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

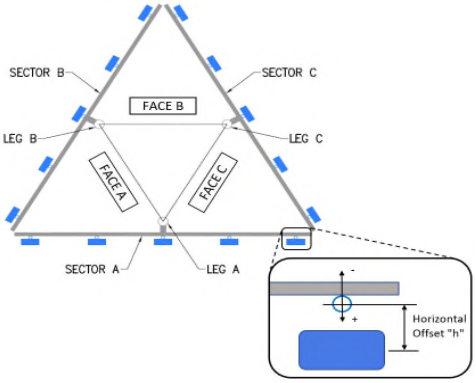
Tower Owner:	SBA	**Mapping Date:**	2/15/2021
Site Name:	WATERBURY EAST CT	**Tower Type:**	MONOPOLE
Site Number or ID:	469379	**Tower Height (Ft.):**	115
Mapping Contractor:	LEVEL-UP TOWERS	**Mount Elevation (Ft.):**	87

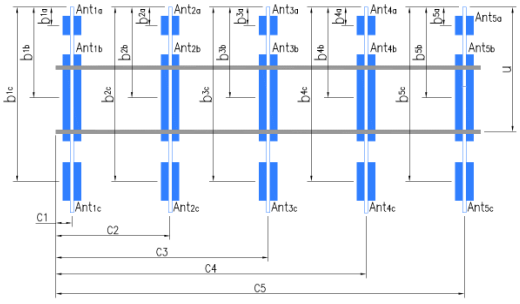


Mount Pipe Configuration and Geometries [Unit = Inches]

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."
	72"x2.38"x0.19				72"x2.38"x0.22		
	72"x2.38"x0.20				72"x2.38"x0.23		
	72"x2.38"x0.21				72"x2.38"x0.24		
	72"x2.38"x0.22				72"x2.38"x0.25		
	72"x2.38"x0.22						
	72"x2.38"x0.23						
	72"x2.38"x0.24						
	72"x2.38"x0.25						

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	
Please enter additional infomation or comments below.	
Tower Face Width at Mount Elev. (ft.):	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):



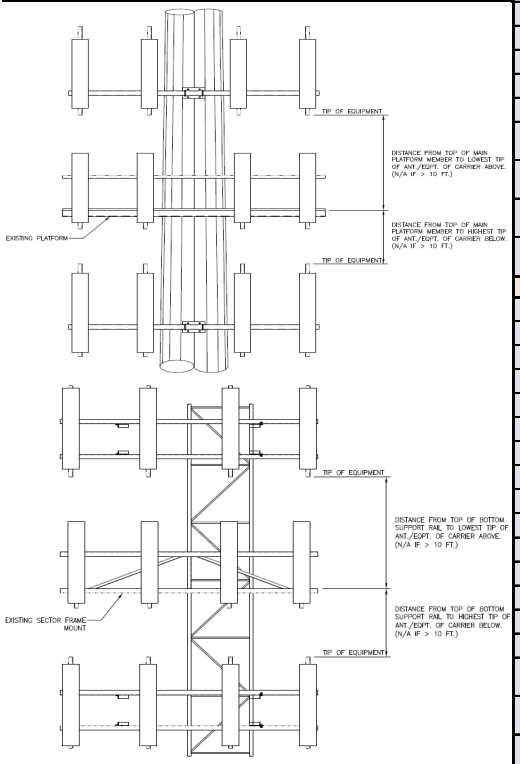


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b , b b , b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant	Unmarked Antenna	6.00								
Ant_{1b}	Alcatel-Lucent 9442 R				Hybrid	88.1667				
Ant_{1c}										
Ant										
Ant_{2b}										
Ant_{2c}										
Ant										
Ant_{3b}										
Ant_{3c}										
Ant										
Ant_{4b}										
Ant_{4c}										
Ant										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:		Deg	Leg A:		Deg
Sector B:		Deg	Leg B:		Deg
Sector C:		Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

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



Sector B										
Ant	Unmarked Antenna	6.00								
Ant_{1b}	Alcatel-Lucent 9442 R				Hybrid	88.1667				
Ant_{1c}										
Ant										
Ant_{2b}										
Ant_{2c}										
Ant										
Ant_{3b}										
Ant_{3c}										
Ant										
Ant_{4b}										
Ant_{4c}										
Ant										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Sector C										
Ant	Unmarked Antenna	6.00								
Ant_{1b}	Alcatel-Lucent 9442 R				Hybrid	88.1667				
Ant_{1c}										
Ant										
Ant_{2b}										
Ant_{2c}										
Ant										
Ant_{3b}										
Ant_{3c}										
Ant										
Ant_{4b}										
Ant_{4c}										
Ant										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

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

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

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

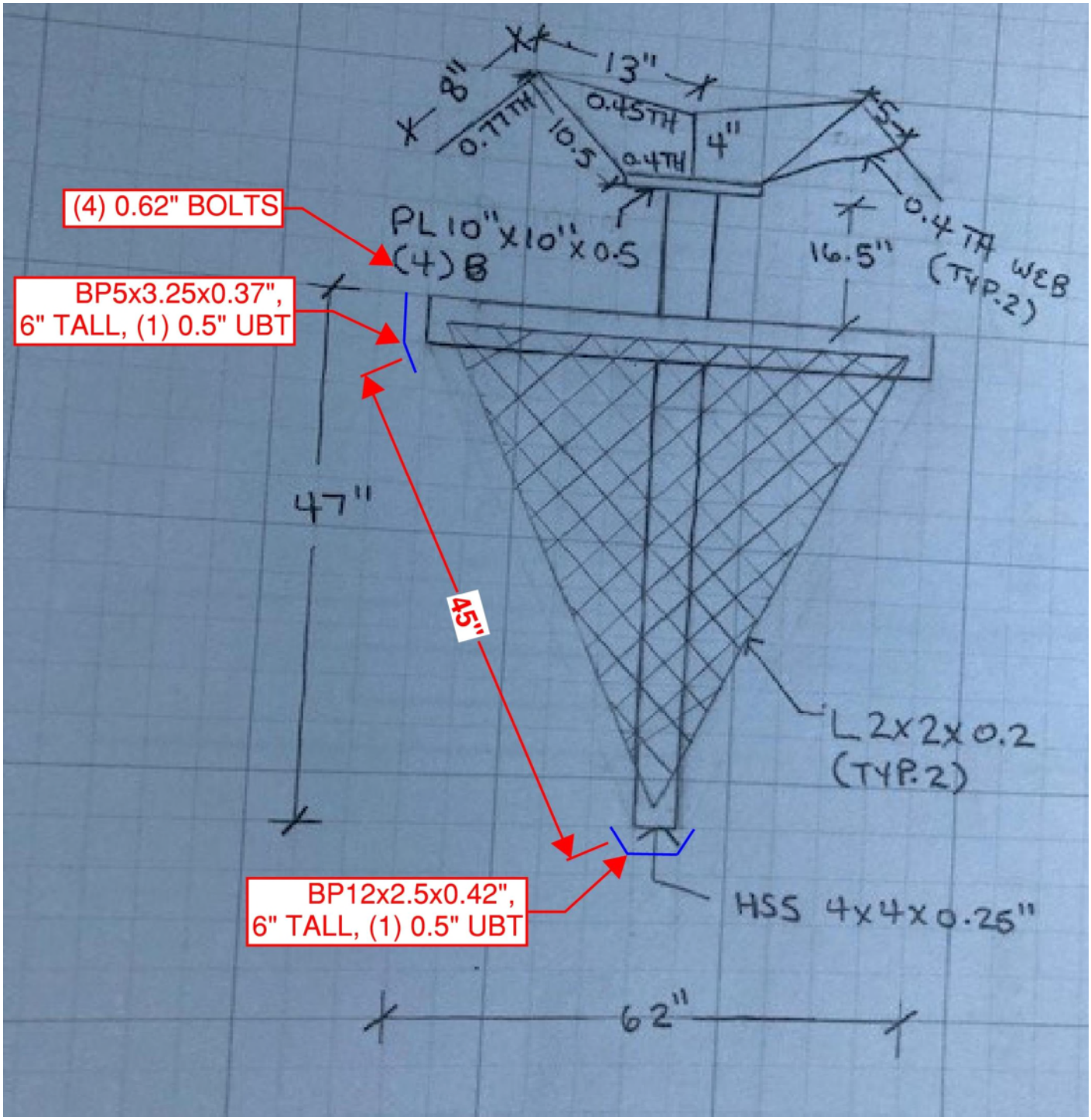
Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

V3.0 Updated on 8-31-2020

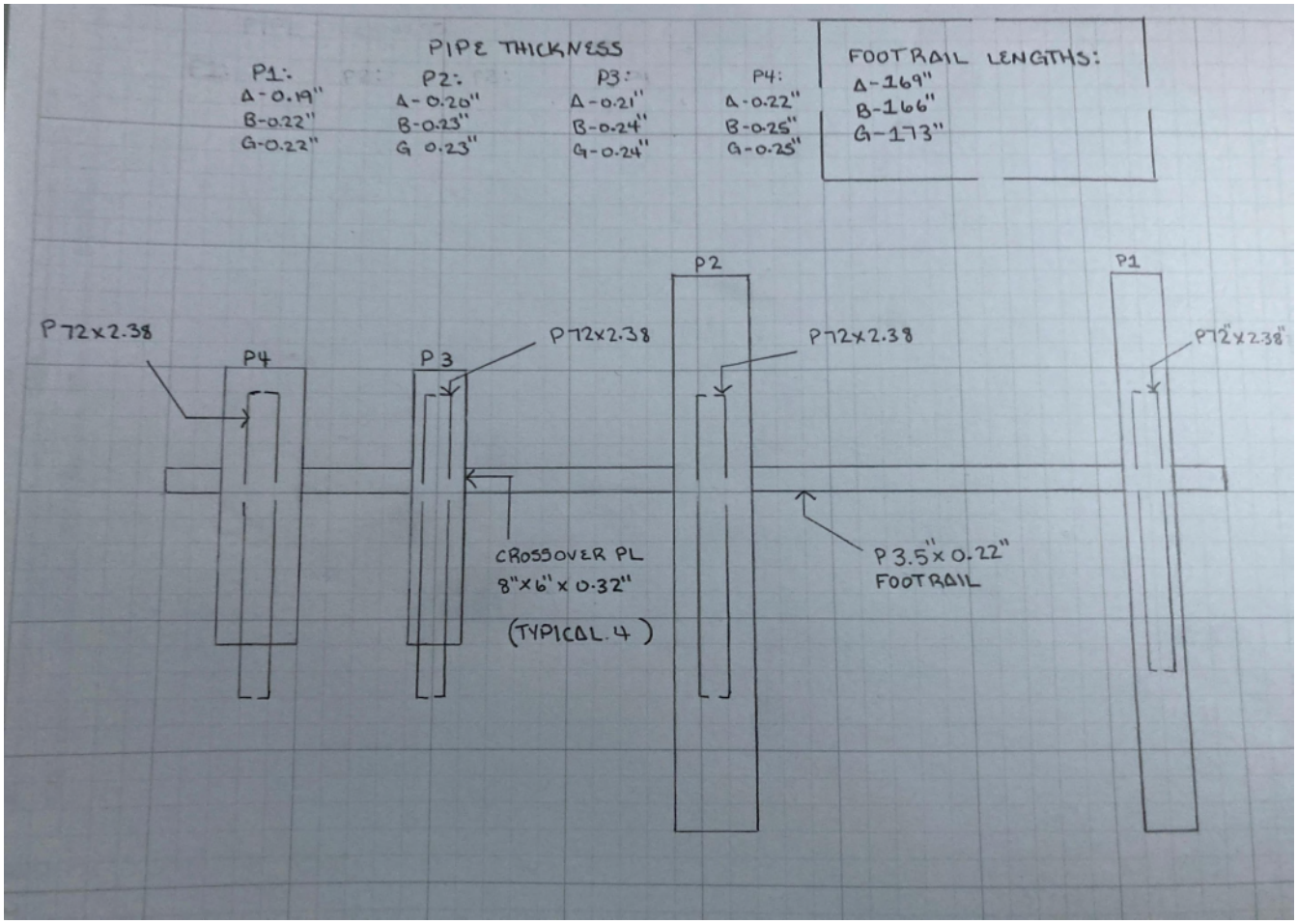
Antenna Mount Mapping Form (PATENT PENDING)

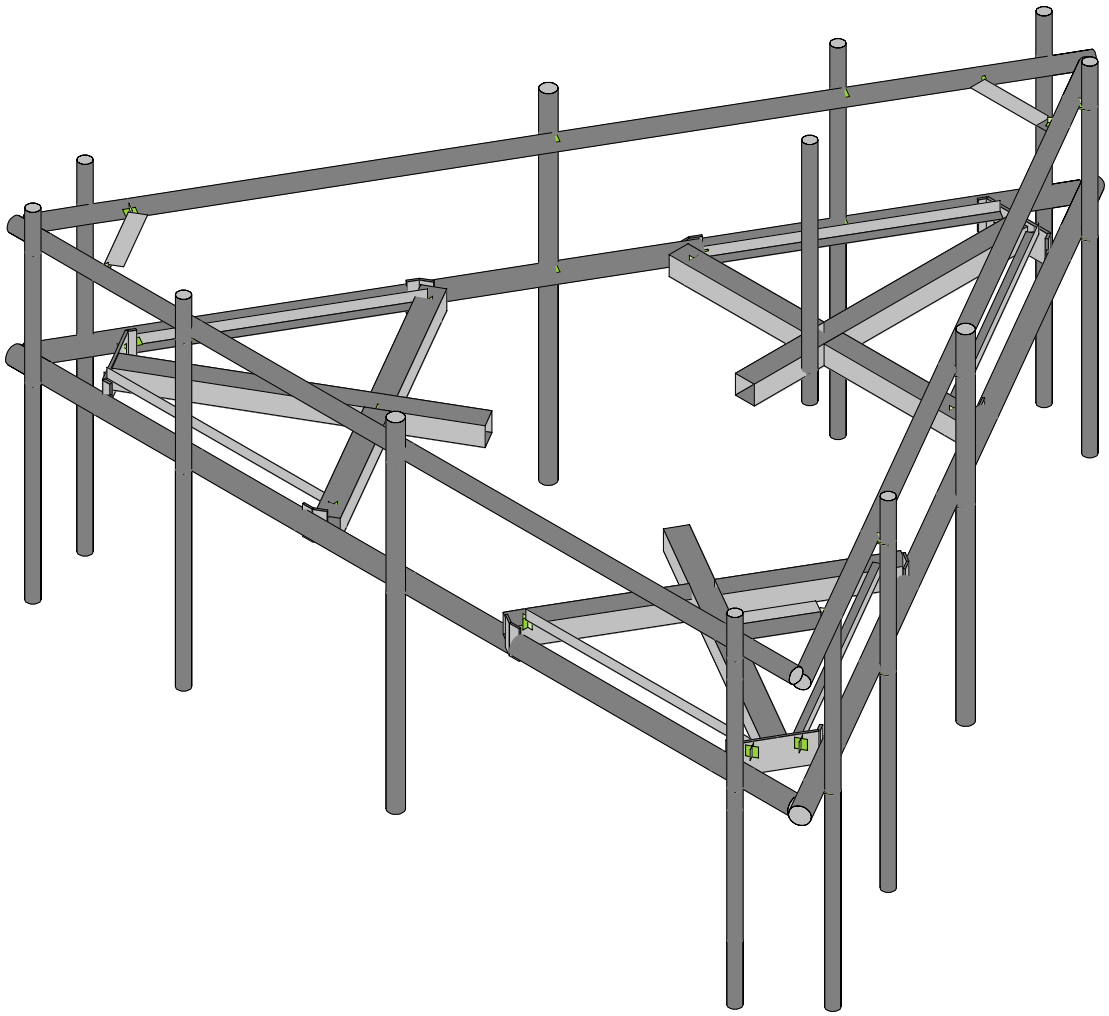
Tower Owner:	SBA	**Mapping Date:**	2/15/2021
Site Name:	WATERBURY EAST CT	**Tower Type:**	MONOPOLE
Site Number or ID:	469379	**Tower Height (Ft.):**	115
Mapping Contractor:	LEVEL-UP TOWERS	**Mount Elevation (Ft.):**	87

Please Insert Sketches of the Antenna Mount



Please Insert Sketches of the Antenna Mount, cont'd





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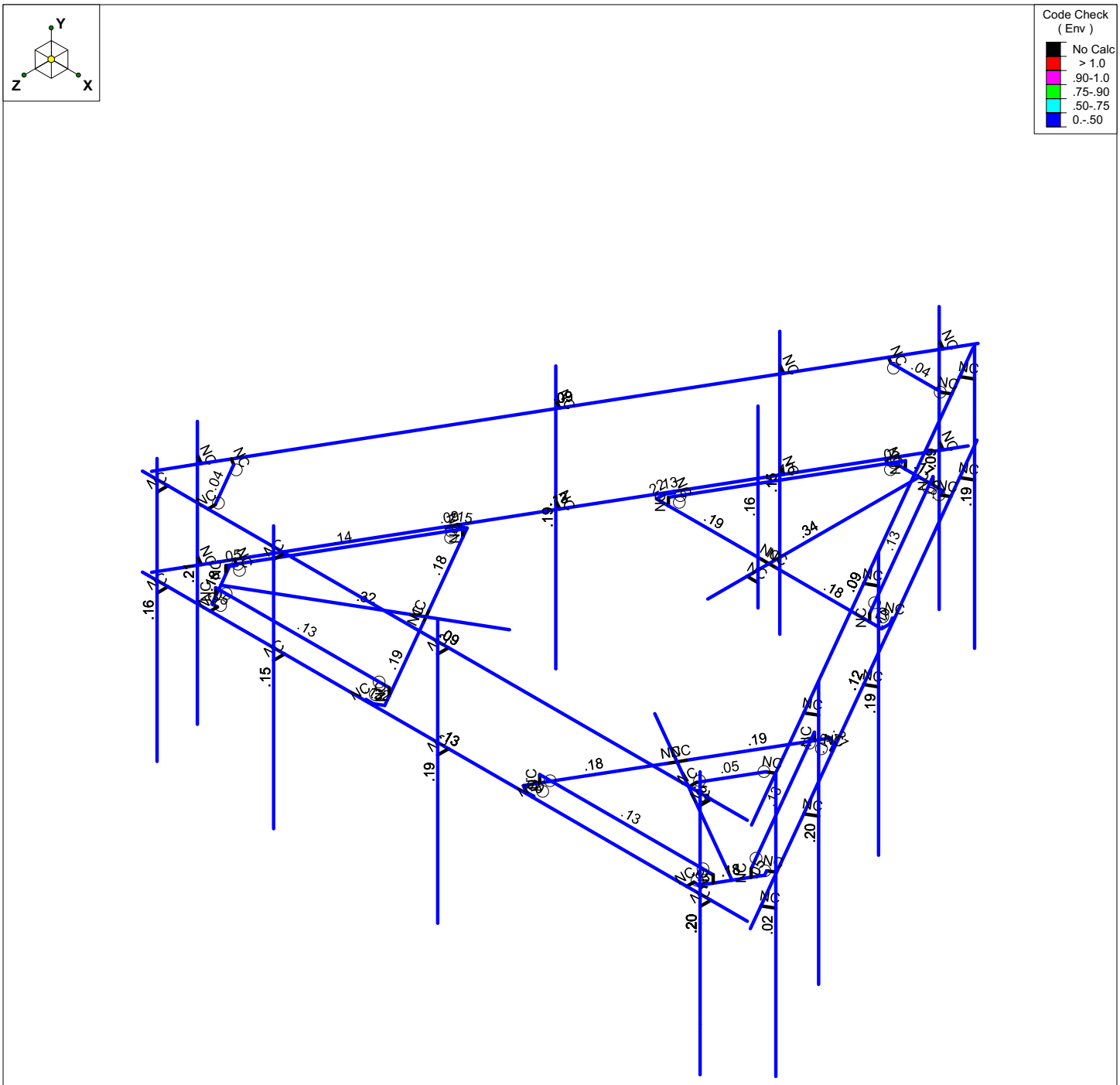
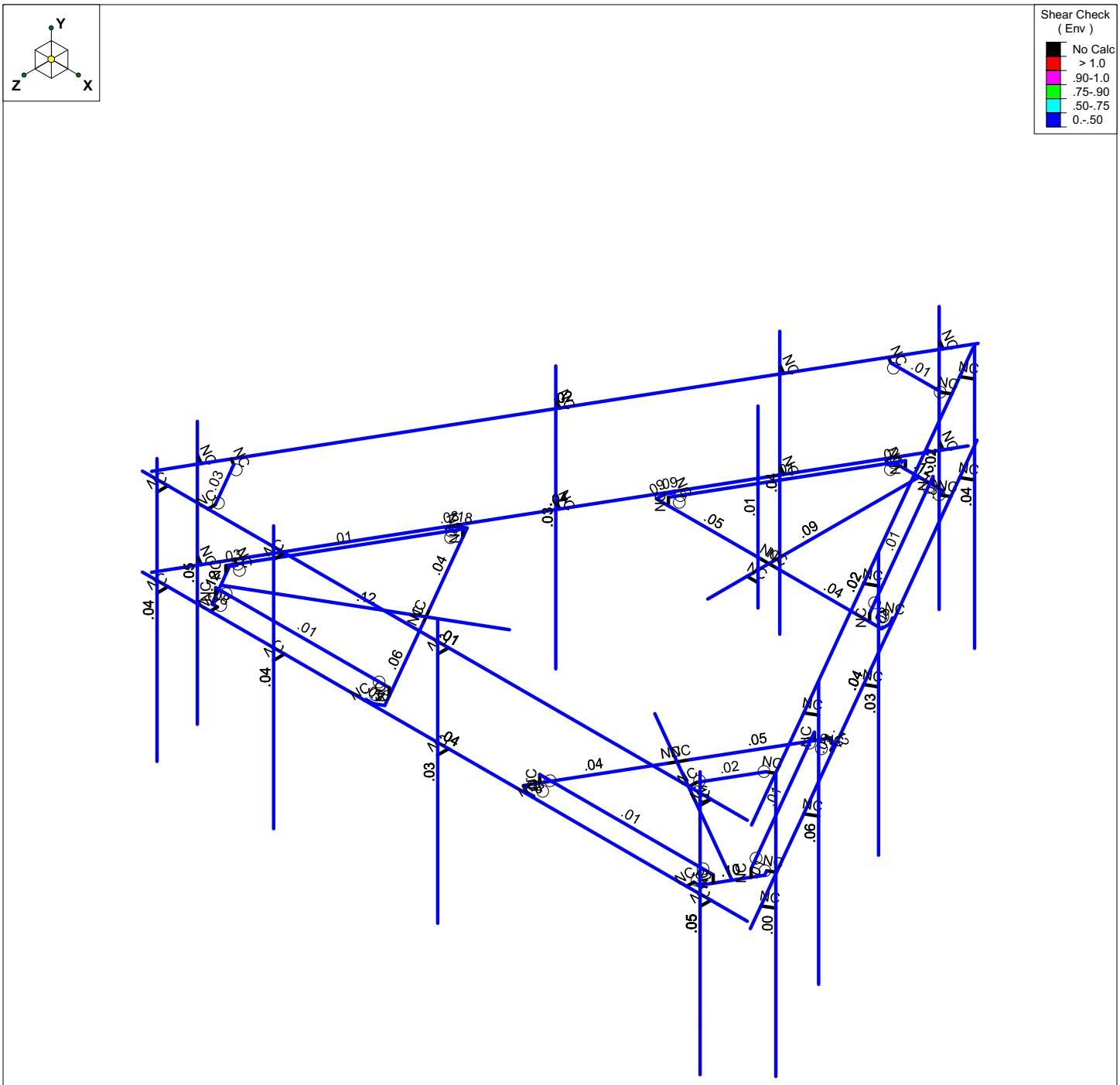


Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

		SK - 2
		June 21, 2021 at 5:29 PM
		MOD_469379-VZW_MT_LO_H.r3d



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

		SK - 3
		June 21, 2021 at 5:29 PM
		MOD_469379-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					93			
2	Antenna Di	None					93			
3	Antenna Wo (0 Deg)	None					93			
4	Antenna Wo (30 Deg)	None					93			
5	Antenna Wo (60 Deg)	None					93			
6	Antenna Wo (90 Deg)	None					93			
7	Antenna Wo (120 Deg)	None					93			
8	Antenna Wo (150 Deg)	None					93			
9	Antenna Wo (180 Deg)	None					93			
10	Antenna Wo (210 Deg)	None					93			
11	Antenna Wo (240 Deg)	None					93			
12	Antenna Wo (270 Deg)	None					93			
13	Antenna Wo (300 Deg)	None					93			
14	Antenna Wo (330 Deg)	None					93			
15	Antenna Wi (0 Deg)	None					93			
16	Antenna Wi (30 Deg)	None					93			
17	Antenna Wi (60 Deg)	None					93			
18	Antenna Wi (90 Deg)	None					93			
19	Antenna Wi (120 Deg)	None					93			
20	Antenna Wi (150 Deg)	None					93			
21	Antenna Wi (180 Deg)	None					93			
22	Antenna Wi (210 Deg)	None					93			
23	Antenna Wi (240 Deg)	None					93			
24	Antenna Wi (270 Deg)	None					93			
25	Antenna Wi (300 Deg)	None					93			
26	Antenna Wi (330 Deg)	None					93			
27	Antenna Wm (0 Deg)	None					93			
28	Antenna Wm (30 Deg)	None					93			
29	Antenna Wm (60 Deg)	None					93			
30	Antenna Wm (90 Deg)	None					93			
31	Antenna Wm (120 Deg)	None					93			
32	Antenna Wm (150 Deg)	None					93			
33	Antenna Wm (180 Deg)	None					93			
34	Antenna Wm (210 Deg)	None					93			
35	Antenna Wm (240 Deg)	None					93			
36	Antenna Wm (270 Deg)	None					93			
37	Antenna Wm (300 Deg)	None					93			
38	Antenna Wm (330 Deg)	None					93			
39	Structure D	None		-1					3	
40	Structure Di	None						58	3	
41	Structure Wo (0 Deg)	None						116		
42	Structure Wo (30 Deg)	None						116		
43	Structure Wo (60 Deg)	None						116		
44	Structure Wo (90 Deg)	None						116		
45	Structure Wo (120 D...	None						116		
46	Structure Wo (150 D...	None						116		
47	Structure Wo (180 D...	None						116		
48	Structure Wo (210 D...	None						116		
49	Structure Wo (240 D...	None						116		
50	Structure Wo (270 D...	None						116		
51	Structure Wo (300 D...	None						116		
52	Structure Wo (330 D...	None						116		
53	Structure Wi (0 Deg)	None						116		
54	Structure Wi (30 Deg)	None						116		
55	Structure Wi (60 Deg)	None						116		
56	Structure Wi (90 Deg)	None						116		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						116		
58	Structure Wi (150 De...	None						116		
59	Structure Wi (180 De...	None						116		
60	Structure Wi (210 De...	None						116		
61	Structure Wi (240 De...	None						116		
62	Structure Wi (270 De...	None						116		
63	Structure Wi (300 De...	None						116		
64	Structure Wi (330 De...	None						116		
65	Structure Wm (0 Deg)	None						116		
66	Structure Wm (30 De...	None						116		
67	Structure Wm (60 De...	None						116		
68	Structure Wm (90 De...	None						116		
69	Structure Wm (120 D...	None						116		
70	Structure Wm (150 D...	None						116		
71	Structure Wm (180 D...	None						116		
72	Structure Wm (210 D...	None						116		
73	Structure Wm (240 D...	None						116		
74	Structure Wm (270 D...	None						116		
75	Structure Wm (300 D...	None						116		
76	Structure Wm (330 D...	None						116		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						30		
82	BLC 40 Transient Are...	None						30		

Load Combinations

	Description	Sol...	PD...	SR...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...
1	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										

Load Combinations (Continued)

	Description	Sol...	PD...	SR...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	Seismic M...		Y		1	1	39	1																
53	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866										
55	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5										
62	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5										
64	1.2D + 1.0...		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	CP	0	0	0	0	
2	N36	-6.999996	0	4.012182	0	
3	N53A	6.833329	0	4.012182	0	
4	N112A	-0.	0	-1.916664	0	
5	N113A	-0.	0	-3.315364	0	
6	N114	-0.	0	-6.75008	0	
7	N115	-2.572908	0	-3.315367	0	
8	N116A	2.299372	0.166667	-3.315367	0	
9	N117	-2.299368	0.166667	-3.315367	0	
10	N119	2.299372	0	-3.315367	0	
11	N120B	-2.299368	0	-3.315367	0	
12	N121	0.316678	0.166667	-6.749488	0	
13	N122	-0.315987	0.166667	-6.750678	0	
14	N123	0.317021	0	-6.750084	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N124A	-0.31633	0	-6.750084	0	
16	N125	2.572911	0	-3.315367	0	
17	N126	-0.166665	0	-3.315367	0	
18	N127	0.166669	0	-3.315367	0	
19	N128	0.546877	0	-6.750084	0	
20	N129	-0.546873	0	-6.750084	0	
21	N130	-2.572908	0	-3.502867	0	
22	N131	2.572911	0	-3.502867	0	
23	N132	-2.489574	0	-3.647205	0	
24	N133	-2.517759	0	-3.663478	0	
25	N134	-0.609373	0	-6.64183	0	
26	N135	-0.750998	0	-6.723598	0	
27	N136	2.489578	0	-3.647205	0	
28	N137	2.517763	0	-3.663478	0	
29	N138	0.609377	0	-6.64183	0	
30	N139	0.751002	0	-6.723598	0	
31	N34	-1.65988	0	0.958332	0	
32	N35	-2.87119	0	1.657682	0	
33	N36A	-5.845741	0	3.37504	0	
34	N37	-1.584739	0	3.885887	0	
35	N38	-4.020878	0.166667	-0.333631	0	
36	N39	-1.721508	0.166667	3.648995	0	
37	N40	-4.020878	0	-0.333631	0	
38	N41	-1.721508	0	3.648995	0	
39	N42	-6.003567	0.166667	3.100493	0	
40	N43	-5.688265	0.166667	3.648992	0	
41	N44	-6.004255	0	3.100493	0	
42	N45	-5.687579	0	3.648992	0	
43	N46	-4.157648	0	-0.570523	0	
44	N47	-2.78786	0	1.80202	0	
45	N48	-2.954527	0	1.513344	0	
46	N49	-6.119182	0	2.901432	0	
47	N50	-5.572307	0	3.848648	0	
48	N51	-1.747118	0	3.979637	0	
49	N52	-4.320028	0	-0.476773	0	
50	N53	-1.913785	0	3.979637	0	
51	N54	-1.913785	0	4.012182	0	
52	N55	-5.447307	0	3.848648	0	
53	N56	-5.447307	0	4.012182	0	
54	N57	-4.403361	0	-0.332435	0	
55	N58	-4.431546	0	-0.348708	0	
56	N59	-6.056682	0	2.793179	0	
57	N60	-6.198308	0	2.711412	0	
58	N62	1.65988	0	0.958332	0	
59	N63	2.87119	0	1.657682	0	
60	N64	5.845741	0	3.37504	0	
61	N65	4.157646	0	-0.57052	0	
62	N66	1.721507	0.166667	3.648998	0	
63	N67	4.020876	0.166667	-0.333627	0	
64	N68	1.721507	0	3.648998	0	
65	N69	4.020876	0	-0.333627	0	
66	N70	5.686889	0.166667	3.648995	0	
67	N71	6.004252	0.166667	3.101686	0	
68	N72	5.687233	0	3.64959	0	
69	N73	6.003909	0	3.101092	0	
70	N74	1.584737	0	3.88589	0	
71	N75	2.954525	0	1.513348	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N76	2.787858	0	1.802023	0	
73	N77	5.572305	0	3.848651	0	
74	N78	6.11918	0	2.901436	0	
75	N79	4.320026	0	-0.47677	0	
76	N80	1.747116	0	3.97964	0	
77	N81	4.403359	0	-0.332432	0	
78	N82	4.431544	0	-0.348705	0	
79	N83	6.05668	0	2.793183	0	
80	N84	6.198306	0	2.711415	0	
81	N85	1.913783	0	3.97964	0	
82	N86	1.913783	0	4.012186	0	
83	N87A	5.447305	0	3.848651	0	
84	N88	5.447305	0	4.012186	0	
85	N86A	7.016317	0	4.128252	0	
86	N87	-0.067013	0	-8.140434	0	
87	N88A	-0.057987	0	-7.923928	0	
88	N89	-6.891317	0	3.911746	0	
89	N89A	5.999996	0	4.012182	0	
90	N90	-0.000004	0	4.012182	0	
91	N91	-3.750004	0	4.012182	0	
92	N92	-6.416671	0	4.012182	0	
93	N93	5.999996	0	4.262182	0	
94	N94	-0.000004	0	4.262182	0	
95	N95	-3.750004	0	4.262182	0	
96	N96	-6.416671	0	4.262182	0	
97	N97	5.999996	2.666667	4.262182	0	
98	N98	-0.000004	2.666667	4.262182	0	
99	N99	-3.750004	2.666667	4.262182	0	
100	N100	-6.416671	2.666667	4.262182	0	
101	N101	5.999996	-3.333333	4.262182	0	
102	N102	-0.000004	-3.333333	4.262182	0	
103	N103	-3.750004	-3.333333	4.262182	0	
104	N104	-6.416671	-3.333333	4.262182	0	
105	N106	0.474654	0	-7.20224	0	
106	N107	3.474654	0	-2.006088	0	
107	N108	5.349654	0	1.241507	0	
108	N109	6.682987	0	3.550908	0	
109	N110	0.69116	0	-7.32724	0	
110	N111	3.69116	0	-2.131088	0	
111	N112	5.56616	0	1.116507	0	
112	N113	6.899494	0	3.425908	0	
113	N114A	0.69116	2.666667	-7.32724	0	
114	N115A	3.69116	2.666667	-2.131088	0	
115	N116	5.56616	2.666667	1.116507	0	
116	N117A	6.899494	2.666667	3.425908	0	
117	N118	0.69116	-3.333333	-7.32724	0	
118	N119A	3.69116	-3.333333	-2.131088	0	
119	N120	5.56616	-3.333333	1.116507	0	
120	N121A	6.899494	-3.333333	3.425908	0	
121	N123A	-6.47465	0	3.190058	0	
122	N124	-3.47465	0	-2.006095	0	
123	N125A	-1.59965	0	-5.25369	0	
124	N126A	-0.266317	0	-7.563091	0	
125	N127A	-6.691156	0	3.065058	0	
126	N128A	-3.691156	0	-2.131095	0	
127	N129A	-1.816156	0	-5.37869	0	
128	N130A	-0.482823	0	-7.688091	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N131A	-6.691156	2.666667	3.065058	0	
130	N132A	-3.691156	2.666667	-2.131095	0	
131	N133A	-1.816156	2.666667	-5.37869	0	
132	N134A	-0.482823	2.666667	-7.688091	0	
133	N135A	-6.691156	-3.333333	3.065058	0	
134	N136A	-3.691156	-3.333333	-2.131095	0	
135	N137A	-1.816156	-3.333333	-5.37869	0	
136	N138A	-0.482823	-3.333333	-7.688091	0	
137	N137B	-0.	0	-2.815364	0	
138	N138B	0.25	0	-2.815364	0	
139	N139A	0.25	-.5	-2.815364	0	
140	N140	0.25	3.5	-2.815364	0	
141	N141	5.999996	-0.333333	4.262182	0	
142	N142	5.999996	1.666667	4.262182	0	
143	N143	5.999996	-2.333333	4.262182	0	
144	N144	-6.999996	2	4.012182	0	
145	N145	6.833329	2	4.012182	0	
146	N146	5.999996	2	4.012182	0	
147	N147	-0.000004	2	4.012182	0	
148	N148	-3.750004	2	4.012182	0	
149	N149	-6.416671	2	4.012182	0	
150	N150	5.999996	2	4.262182	0	
151	N151	-0.000004	2	4.262182	0	
152	N152	-3.750004	2	4.262182	0	
153	N153	-6.416671	2	4.262182	0	
154	N154	0.474654	2	-7.20224	0	
155	N155	3.474654	2	-2.006088	0	
156	N156	5.349654	2	1.241507	0	
157	N157	0.69116	2	-7.32724	0	
158	N158	3.69116	2	-2.131088	0	
159	N159	5.56616	2	1.116507	0	
160	N160	-6.47465	2	3.190058	0	
161	N161	-3.47465	2	-2.006095	0	
162	N162	-1.59965	2	-5.25369	0	
163	N163	-0.266317	2	-7.563091	0	
164	N164	-6.691156	2	3.065058	0	
165	N165	-3.691156	2	-2.131095	0	
166	N166	-1.816156	2	-5.37869	0	
167	N167	-0.482823	2	-7.688091	0	
168	N171	-6.891317	2	3.911746	0	
169	N172	-5.499996	2	4.012182	0	
170	N173	5.499999	2	4.012182	0	
171	N174	-5.499996	2	3.845516	0	
172	N175	5.499999	2	3.845516	0	
173	N176	6.97465	2	4.056083	0	
174	N177	0.057987	2	-7.923928	0	
175	N178	6.22465	2	2.757045	0	
176	N179	0.724487	2	-6.769516	0	
177	N180	6.080312	2	2.840378	0	
178	N181	0.58015	2	-6.686183	0	
179	N182	0.025346	2	-8.068266	0	
180	N184	-0.724654	2	-6.769228	0	
181	N185	-6.224817	2	2.757334	0	
182	N186	-0.580316	2	-6.685894	0	
183	N187	-6.080479	2	2.840667	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_3.0	Beam	Pipe	Q235	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	Q235	Typical	3.37	7.8	7.8	12.8
3	Support Rail	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
4	Support Rail Corner	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Corner Plate	PL1/2x6	Beam	BAR	Q235	Typical	3	.063	9	.237
6	Platform Crossmember	HSS4X4X4	Beam	SquareTube	Q235	Typical	3.37	7.8	7.8	12.8
7	Grating Support	L2x2x3	Beam	Single Angle	Q235	Typical	.722	.271	.271	.009
8	Mount Pipe	PIPE_2.0	Column	Wide Flange	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Mount Pipe_1	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
10	Cross Arm Plate	PL3/8x6	Column	RECT	Q235	Typical	2.25	.026	6.75	.101
11	Replacement Pipe	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...Density[k/ft...		Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M20	N53A	N36			Face Horizontal	Beam	Pipe	Q235	Typical
2	M72A	N112A	N114			Standoff Horiz...	Beam	SquareTube	Q235	Typical
3	M73	N125	N127			Platform Cross...	Beam	SquareTube	Q235	Typical
4	M74	N126	N115			Platform Cross...	Beam	SquareTube	Q235	Typical
5	M75	N129	N128			Corner Plate	Beam	BAR	Q235	Typical
6	M76	N117	N120B			RIGID	None	None	RIGID	Typical
7	M77	N116A	N119			RIGID	None	None	RIGID	Typical
8	M78	N121	N116A			Grating Support	Beam	Single Angle	Q235	Typical
9	M79	N117	N122			Grating Support	Beam	Single Angle	Q235	Typical
10	M80	N122	N124A			RIGID	None	None	RIGID	Typical
11	M81	N121	N123			RIGID	None	None	RIGID	Typical
12	M82	N126	N113A			RIGID	None	None	RIGID	Typical
13	M83	N113A	N127			RIGID	None	None	RIGID	Typical
14	M84	N115	N130			Cross Arm Plate	Column	RECT	Q235	Typical
15	M85	N130	N132			Cross Arm Plate	Column	RECT	Q235	Typical
16	M86A	N132	N133			RIGID	None	None	RIGID	Typical
17	M87A	N129	N134			Corner Plate	Beam	BAR	Q235	Typical
18	M88	N134	N135			RIGID	None	None	RIGID	Typical
19	M89A	N125	N131			Cross Arm Plate	Column	RECT	Q235	Typical
20	M90A	N131	N136			Cross Arm Plate	Column	RECT	Q235	Typical
21	M91	N136	N137			RIGID	None	None	RIGID	Typical
22	M92	N128	N138			Corner Plate	Beam	BAR	Q235	Typical
23	M93A	N138	N139			RIGID	None	None	RIGID	Typical
24	M25	N34	N36A			Standoff Horiz...	Beam	SquareTube	Q235	Typical
25	M26	N46	N48			Platform Cross...	Beam	SquareTube	Q235	Typical
26	M27	N47	N37			Platform Cross...	Beam	SquareTube	Q235	Typical
27	M28	N50	N49			Corner Plate	Beam	BAR	Q235	Typical
28	M29	N39	N41			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
29	M30	N38	N40			RIGID	None	None	RIGID	Typical
30	M31	N42	N38			Grating Support	Beam	Single Angle	Q235	Typical
31	M32	N39	N43			Grating Support	Beam	Single Angle	Q235	Typical
32	M33	N43	N45			RIGID	None	None	RIGID	Typical
33	M34	N42	N44			RIGID	None	None	RIGID	Typical
34	M35	N47	N35			RIGID	None	None	RIGID	Typical
35	M36	N35	N48			RIGID	None	None	RIGID	Typical
36	M37	N37	N51			Cross Arm Plate	Column	RECT	Q235	Typical
37	M38	N51	N53			Cross Arm Plate	Column	RECT	Q235	Typical
38	M39	N53	N54			RIGID	None	None	RIGID	Typical
39	M40	N50	N55			Corner Plate	Beam	BAR	Q235	Typical
40	M41	N55	N56			RIGID	None	None	RIGID	Typical
41	M42	N46	N52			Cross Arm Plate	Column	RECT	Q235	Typical
42	M43	N52	N57			Cross Arm Plate	Column	RECT	Q235	Typical
43	M44	N57	N58			RIGID	None	None	RIGID	Typical
44	M45	N49	N59			Corner Plate	Beam	BAR	Q235	Typical
45	M46	N59	N60			RIGID	None	None	RIGID	Typical
46	M47	N62	N64			Standoff Horiz...	Beam	SquareTube	Q235	Typical
47	M48	N74	N76			Platform Cross...	Beam	SquareTube	Q235	Typical
48	M49	N75	N65			Platform Cross...	Beam	SquareTube	Q235	Typical
49	M50	N78	N77			Corner Plate	Beam	BAR	Q235	Typical
50	M51	N67	N69			RIGID	None	None	RIGID	Typical
51	M52	N66	N68			RIGID	None	None	RIGID	Typical
52	M53	N70	N66			Grating Support	Beam	Single Angle	Q235	Typical
53	M54	N67	N71			Grating Support	Beam	Single Angle	Q235	Typical
54	M55	N71	N73			RIGID	None	None	RIGID	Typical
55	M56	N70	N72			RIGID	None	None	RIGID	Typical
56	M57	N75	N63			RIGID	None	None	RIGID	Typical
57	M58	N63	N76			RIGID	None	None	RIGID	Typical
58	M59	N65	N79			Cross Arm Plate	Column	RECT	Q235	Typical
59	M60	N79	N81			Cross Arm Plate	Column	RECT	Q235	Typical
60	M61	N81	N82			RIGID	None	None	RIGID	Typical
61	M62	N78	N83			Corner Plate	Beam	BAR	Q235	Typical
62	M63	N83	N84			RIGID	None	None	RIGID	Typical
63	M64	N74	N80			Cross Arm Plate	Column	RECT	Q235	Typical
64	M65	N80	N85			Cross Arm Plate	Column	RECT	Q235	Typical
65	M66	N85	N86			RIGID	None	None	RIGID	Typical
66	M67	N77	N87A			Corner Plate	Beam	BAR	Q235	Typical
67	M68A	N87A	N88			RIGID	None	None	RIGID	Typical
68	M68	N87	N86A			Face Horizontal	Beam	Pipe	Q235	Typical
69	M69	N89	N88A			Face Horizontal	Beam	Pipe	Q235	Typical
70	M70	N96	N92			RIGID	None	None	RIGID	Typical
71	M71	N95	N91			RIGID	None	None	RIGID	Typical
72	M72	N94	N90			RIGID	None	None	RIGID	Typical
73	M73A	N93	N89A			RIGID	None	None	RIGID	Typical
74	MP4A	N100	N104			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
75	MP3A	N99	N103			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
76	MP2A	N98	N102			Replacement ...	Column	Pipe	A53 Gr.B	Typical
77	MP1A	N97	N101			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
78	M78A	N113	N109			RIGID	None	None	RIGID	Typical
79	M79A	N112	N108			RIGID	None	None	RIGID	Typical
80	M80A	N111	N107			RIGID	None	None	RIGID	Typical
81	M81A	N110	N106			RIGID	None	None	RIGID	Typical
82	MP4C	N117A	N121A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
83	MP3C	N116	N120			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
84	MP2C	N115A	N119A			Replacement ...	Column	Pipe	A53 Gr.B	Typical
85	MP1C	N114A	N118			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
86	M86	N130A	N126A			RIGID	None	None	RIGID	Typical
87	M87	N129A	N125A			RIGID	None	None	RIGID	Typical
88	M88A	N128A	N124			RIGID	None	None	RIGID	Typical
89	M89	N127A	N123A			RIGID	None	None	RIGID	Typical
90	MP4B	N134A	N138A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
91	MP3B	N133A	N137A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
92	MP2B	N132A	N136A			Replacement ...	Column	Pipe	A53 Gr.B	Typical
93	MP1B	N131A	N135A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
94	OVP	N140	N139A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
95	M95	N137B	N138B			RIGID	None	None	RIGID	Typical
96	M96	N145	N144			Support Rail	Beam	Pipe	A53 Gr.B	Typical
97	M97	N153	N149			RIGID	None	None	RIGID	Typical
98	M98	N152	N148			RIGID	None	None	RIGID	Typical
99	M99	N151	N147			RIGID	None	None	RIGID	Typical
100	M100	N150	N146			RIGID	None	None	RIGID	Typical
101	M101	N159	N156			RIGID	None	None	RIGID	Typical
102	M102	N158	N155			RIGID	None	None	RIGID	Typical
103	M103	N157	N154			RIGID	None	None	RIGID	Typical
104	M104	N167	N163			RIGID	None	None	RIGID	Typical
105	M105	N166	N162			RIGID	None	None	RIGID	Typical
106	M106	N165	N161			RIGID	None	None	RIGID	Typical
107	M107	N164	N160			RIGID	None	None	RIGID	Typical
108	M110	N172	N174			RIGID	None	None	RIGID	Typical
109	M111	N173	N175			RIGID	None	None	RIGID	Typical
110	M112	N177	N176			Support Rail	Beam	Pipe	A53 Gr.B	Typical
111	M113	N178	N180			RIGID	None	None	RIGID	Typical
112	M114	N179	N181			RIGID	None	None	RIGID	Typical
113	M115	N171	N182			Support Rail	Beam	Pipe	A53 Gr.B	Typical
114	M116	N184	N186			RIGID	None	None	RIGID	Typical
115	M117	N185	N187			RIGID	None	None	RIGID	Typical
116	M118	N174	N187		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
117	M119	N186	N181		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
118	M120	N180	N175		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M20	Face Horizo...	13.833			Lbyy						Lateral
2	M72A	Standoff Ho...	4.833			Lbyy						Lateral
3	M73	Platform Cr...	2.406			Lbyy						Lateral
4	M74	Platform Cr...	2.406			Lbyy						Lateral
5	M75	Corner Plate	1.094			Lbyy						Lateral
6	M78	Grating Sup...	3.965			Lbyy						Lateral
7	M79	Grating Sup...	3.967			Lbyy						Lateral
8	M84	Cross Arm ...	.188									Lateral
9	M85	Cross Arm ...	.167									Lateral
10	M87A	Corner Plate	.125			Lbyy						Lateral
11	M89A	Cross Arm ...	.188									Lateral
12	M90A	Cross Arm ...	.167									Lateral
13	M92	Corner Plate	.125			Lbyy						Lateral
14	M25	Standoff Ho...	4.833			Lbyy						Lateral
15	M26	Platform Cr...	2.406			Lbyy						Lateral
16	M27	Platform Cr...	2.406			Lbyy						Lateral
17	M28	Corner Plate	1.094			Lbyy						Lateral
18	M31	Grating Sup...	3.965			Lbyy						Lateral
19	M32	Grating Sup...	3.967			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
20	M37	Cross Arm ...	.188									Lateral
21	M38	Cross Arm ...	.167									Lateral
22	M40	Corner Plate	.125			Lbyy						Lateral
23	M42	Cross Arm ...	.188									Lateral
24	M43	Cross Arm ...	.167									Lateral
25	M45	Corner Plate	.125			Lbyy						Lateral
26	M47	Standoff Ho...	4.833			Lbyy						Lateral
27	M48	Platform Cr...	2.406			Lbyy						Lateral
28	M49	Platform Cr...	2.406			Lbyy						Lateral
29	M50	Corner Plate	1.094			Lbyy						Lateral
30	M53	Grating Sup...	3.965			Lbyy						Lateral
31	M54	Grating Sup...	3.967			Lbyy						Lateral
32	M59	Cross Arm ...	.188									Lateral
33	M60	Cross Arm ...	.167									Lateral
34	M62	Corner Plate	.125			Lbyy						Lateral
35	M64	Cross Arm ...	.188									Lateral
36	M65	Cross Arm ...	.167									Lateral
37	M67	Corner Plate	.125			Lbyy						Lateral
38	M68	Face Horizo...	14.167			Lbyy						Lateral
39	M69	Face Horizo...	13.667			Lbyy						Lateral
40	MP4A	Mount Pipe	6									Lateral
41	MP3A	Mount Pipe	6									Lateral
42	MP2A	Replaceme...	6									Lateral
43	MP1A	Mount Pipe	6									Lateral
44	MP4C	Mount Pipe	6									Lateral
45	MP3C	Mount Pipe	6									Lateral
46	MP2C	Replaceme...	6									Lateral
47	MP1C	Mount Pipe	6									Lateral
48	MP4B	Mount Pipe	6									Lateral
49	MP3B	Mount Pipe	6									Lateral
50	MP2B	Replaceme...	6									Lateral
51	MP1B	Mount Pipe	6									Lateral
52	OVP	Mount Pipe	4									Lateral
53	M96	Support Rail	13.833			Lbyy						Lateral
54	M112	Support Rail	13.833			Lbyy						Lateral
55	M115	Support Rail	13.833			Lbyy						Lateral
56	M118	Support Rail...	1.16			Lbyy						Lateral
57	M119	Support Rail...	1.16			Lbyy						Lateral
58	M120	Support Rail...	1.161			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	Y	-23	1
2	MP2A	My	-.017	1
3	MP2A	Mz	.015	1
4	MP2A	Y	-23	5
5	MP2A	My	-.017	5
6	MP2A	Mz	.015	5
7	MP2B	Y	-23	1
8	MP2B	My	-.009	1
9	MP2B	Mz	-.021	1
10	MP2B	Y	-23	5
11	MP2B	My	-.009	5
12	MP2B	Mz	-.021	5
13	MP2A	Y	-23	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
14	MP2A	My	-.017	1
15	MP2A	Mz	-.015	1
16	MP2A	Y	-23	5
17	MP2A	My	-.017	5
18	MP2A	Mz	-.015	5
19	MP2B	Y	-23	1
20	MP2B	My	.02	1
21	MP2B	Mz	-.011	1
22	MP2B	Y	-23	5
23	MP2B	My	.02	5
24	MP2B	Mz	-.011	5
25	MP2C	Y	-23	1
26	MP2C	My	.018	1
27	MP2C	Mz	.014	1
28	MP2C	Y	-23	5
29	MP2C	My	.018	5
30	MP2C	Mz	.014	5
31	MP2C	Y	-23	1
32	MP2C	My	-.012	1
33	MP2C	Mz	.02	1
34	MP2C	Y	-23	5
35	MP2C	My	-.012	5
36	MP2C	Mz	.02	5
37	MP1A	Y	-43.55	2
38	MP1A	My	-.033	2
39	MP1A	Mz	0	2
40	MP1A	Y	-43.55	4
41	MP1A	My	-.033	4
42	MP1A	Mz	0	4
43	MP1B	Y	-43.55	2
44	MP1B	My	.011	2
45	MP1B	Mz	-.031	2
46	MP1B	Y	-43.55	4
47	MP1B	My	.011	4
48	MP1B	Mz	-.031	4
49	MP1C	Y	-43.55	2
50	MP1C	My	.006	2
51	MP1C	Mz	.032	2
52	MP1C	Y	-43.55	4
53	MP1C	My	.006	4
54	MP1C	Mz	.032	4
55	MP3A	Y	-84.4	1.5
56	MP3A	My	.04	1.5
57	MP3A	Mz	.014	1.5
58	MP3B	Y	-84.4	1.5
59	MP3B	My	.04	1.5
60	MP3B	Mz	.014	1.5
61	MP3C	Y	-84.4	1.5
62	MP3C	My	.04	1.5
63	MP3C	Mz	.014	1.5
64	MP2A	Y	-70.3	1.5
65	MP2A	My	.033	1.5
66	MP2A	Mz	.012	1.5
67	MP2B	Y	-70.3	1.5
68	MP2B	My	.033	1.5
69	MP2B	Mz	.012	1.5
70	MP2C	Y	-70.3	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
71	MP2C	My	.033	1.5
72	MP2C	Mz	.012	1.5
73	OVP	Y	-32	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP3A	Y	-10	1
77	MP3A	My	-.007	1
78	MP3A	Mz	0	1
79	MP3A	Y	-10	5
80	MP3A	My	-.007	5
81	MP3A	Mz	0	5
82	MP3B	Y	-10	1
83	MP3B	My	.003	1
84	MP3B	Mz	-.007	1
85	MP3B	Y	-10	5
86	MP3B	My	.003	5
87	MP3B	Mz	-.007	5
88	MP3C	Y	-10	1
89	MP3C	My	.001	1
90	MP3C	Mz	.007	1
91	MP3C	Y	-10	5
92	MP3C	My	.001	5
93	MP3C	Mz	.007	5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	Y	-78.44	1
2	MP2A	My	-.059	1
3	MP2A	Mz	.052	1
4	MP2A	Y	-78.44	5
5	MP2A	My	-.059	5
6	MP2A	Mz	.052	5
7	MP2B	Y	-78.44	1
8	MP2B	My	-.029	1
9	MP2B	Mz	-.073	1
10	MP2B	Y	-78.44	5
11	MP2B	My	-.029	5
12	MP2B	Mz	-.073	5
13	MP2A	Y	-78.44	1
14	MP2A	My	-.059	1
15	MP2A	Mz	-.052	1
16	MP2A	Y	-78.44	5
17	MP2A	My	-.059	5
18	MP2A	Mz	-.052	5
19	MP2B	Y	-78.44	1
20	MP2B	My	.069	1
21	MP2B	Mz	-.037	1
22	MP2B	Y	-78.44	5
23	MP2B	My	.069	5
24	MP2B	Mz	-.037	5
25	MP2C	Y	-78.44	1
26	MP2C	My	.062	1
27	MP2C	Mz	.049	1
28	MP2C	Y	-78.44	5
29	MP2C	My	.062	5
30	MP2C	Mz	.049	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
31	MP2C	Y	-78.44	1
32	MP2C	My	-.041	1
33	MP2C	Mz	.067	1
34	MP2C	Y	-78.44	5
35	MP2C	My	-.041	5
36	MP2C	Mz	.067	5
37	MP1A	Y	-33.828	2
38	MP1A	My	-.025	2
39	MP1A	Mz	0	2
40	MP1A	Y	-33.828	4
41	MP1A	My	-.025	4
42	MP1A	Mz	0	4
43	MP1B	Y	-33.828	2
44	MP1B	My	.009	2
45	MP1B	Mz	-.024	2
46	MP1B	Y	-33.828	4
47	MP1B	My	.009	4
48	MP1B	Mz	-.024	4
49	MP1C	Y	-33.828	2
50	MP1C	My	.004	2
51	MP1C	Mz	.025	2
52	MP1C	Y	-33.828	4
53	MP1C	My	.004	4
54	MP1C	Mz	.025	4
55	MP3A	Y	-42.617	1.5
56	MP3A	My	.02	1.5
57	MP3A	Mz	.007	1.5
58	MP3B	Y	-42.617	1.5
59	MP3B	My	.02	1.5
60	MP3B	Mz	.007	1.5
61	MP3C	Y	-42.617	1.5
62	MP3C	My	.02	1.5
63	MP3C	Mz	.007	1.5
64	MP2A	Y	-38.312	1.5
65	MP2A	My	.018	1.5
66	MP2A	Mz	.007	1.5
67	MP2B	Y	-38.312	1.5
68	MP2B	My	.018	1.5
69	MP2B	Mz	.007	1.5
70	MP2C	Y	-38.312	1.5
71	MP2C	My	.018	1.5
72	MP2C	Mz	.007	1.5
73	OVP	Y	-72.174	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP3A	Y	-33.439	1
77	MP3A	My	-.025	1
78	MP3A	Mz	0	1
79	MP3A	Y	-33.439	5
80	MP3A	My	-.025	5
81	MP3A	Mz	0	5
82	MP3B	Y	-33.439	1
83	MP3B	My	.009	1
84	MP3B	Mz	-.024	1
85	MP3B	Y	-33.439	5
86	MP3B	My	.009	5
87	MP3B	Mz	-.024	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
88	MP3C	Y	-33.439	1
89	MP3C	My	.004	1
90	MP3C	Mz	.025	1
91	MP3C	Y	-33.439	5
92	MP3C	My	.004	5
93	MP3C	Mz	.025	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	-137.367	1
3	MP2A	Mx	-.092	1
4	MP2A	X	0	5
5	MP2A	Z	-137.367	5
6	MP2A	Mx	-.092	5
7	MP2B	X	0	1
8	MP2B	Z	-106.249	1
9	MP2B	Mx	.099	1
10	MP2B	X	0	5
11	MP2B	Z	-106.249	5
12	MP2B	Mx	.099	5
13	MP2A	X	0	1
14	MP2A	Z	-137.367	1
15	MP2A	Mx	.092	1
16	MP2A	X	0	5
17	MP2A	Z	-137.367	5
18	MP2A	Mx	.092	5
19	MP2B	X	0	1
20	MP2B	Z	-106.249	1
21	MP2B	Mx	.051	1
22	MP2B	X	0	5
23	MP2B	Z	-106.249	5
24	MP2B	Mx	.051	5
25	MP2C	X	0	1
26	MP2C	Z	-103.19	1
27	MP2C	Mx	-.064	1
28	MP2C	X	0	5
29	MP2C	Z	-103.19	5
30	MP2C	Mx	-.064	5
31	MP2C	X	0	1
32	MP2C	Z	-103.19	1
33	MP2C	Mx	-.088	1
34	MP2C	X	0	5
35	MP2C	Z	-103.19	5
36	MP2C	Mx	-.088	5
37	MP1A	X	0	2
38	MP1A	Z	-65.413	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	-65.413	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	-30.265	2
45	MP1B	Mx	.021	2
46	MP1B	X	0	4
47	MP1B	Z	-30.265	4

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
48	MP1B	Mx	.021	4
49	MP1C	X	0	2
50	MP1C	Z	-26.809	2
51	MP1C	Mx	-.02	2
52	MP1C	X	0	4
53	MP1C	Z	-26.809	4
54	MP1C	Mx	-.02	4
55	MP3A	X	0	1.5
56	MP3A	Z	-50.033	1.5
57	MP3A	Mx	-.009	1.5
58	MP3B	X	0	1.5
59	MP3B	Z	-50.033	1.5
60	MP3B	Mx	-.009	1.5
61	MP3C	X	0	1.5
62	MP3C	Z	-50.033	1.5
63	MP3C	Mx	-.009	1.5
64	MP2A	X	0	1.5
65	MP2A	Z	-49.26	1.5
66	MP2A	Mx	-.008	1.5
67	MP2B	X	0	1.5
68	MP2B	Z	-49.26	1.5
69	MP2B	Mx	-.008	1.5
70	MP2C	X	0	1.5
71	MP2C	Z	-49.26	1.5
72	MP2C	Mx	-.008	1.5
73	OVP	X	0	1
74	OVP	Z	-101.324	1
75	OVP	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	-65.552	1
78	MP3A	Mx	0	1
79	MP3A	X	0	5
80	MP3A	Z	-65.552	5
81	MP3A	Mx	0	5
82	MP3B	X	0	1
83	MP3B	Z	-37.542	1
84	MP3B	Mx	.026	1
85	MP3B	X	0	5
86	MP3B	Z	-37.542	5
87	MP3B	Mx	.026	5
88	MP3C	X	0	1
89	MP3C	Z	-34.788	1
90	MP3C	Mx	-.026	1
91	MP3C	X	0	5
92	MP3C	Z	-34.788	5
93	MP3C	Mx	-.026	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	64.279	1
2	MP2A	Z	-111.334	1
3	MP2A	Mx	-.122	1
4	MP2A	X	64.279	5
5	MP2A	Z	-111.334	5
6	MP2A	Mx	-.122	5
7	MP2B	X	51.595	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
8	MP2B	Z	-89.365	1
9	MP2B	Mx	.064	1
10	MP2B	X	51.595	5
11	MP2B	Z	-89.365	5
12	MP2B	Mx	.064	5
13	MP2A	X	64.279	1
14	MP2A	Z	-111.334	1
15	MP2A	Mx	.026	1
16	MP2A	X	64.279	5
17	MP2A	Z	-111.334	5
18	MP2A	Mx	.026	5
19	MP2B	X	51.595	1
20	MP2B	Z	-89.365	1
21	MP2B	Mx	.088	1
22	MP2B	X	51.595	5
23	MP2B	Z	-89.365	5
24	MP2B	Mx	.088	5
25	MP2C	X	58.344	1
26	MP2C	Z	-101.054	1
27	MP2C	Mx	-.017	1
28	MP2C	X	58.344	5
29	MP2C	Z	-101.054	5
30	MP2C	Mx	-.017	5
31	MP2C	X	58.344	1
32	MP2C	Z	-101.054	1
33	MP2C	Mx	-.117	1
34	MP2C	X	58.344	5
35	MP2C	Z	-101.054	5
36	MP2C	Mx	-.117	5
37	MP1A	X	27.731	2
38	MP1A	Z	-48.031	2
39	MP1A	Mx	-.021	2
40	MP1A	X	27.731	4
41	MP1A	Z	-48.031	4
42	MP1A	Mx	-.021	4
43	MP1B	X	13.405	2
44	MP1B	Z	-23.218	2
45	MP1B	Mx	.02	2
46	MP1B	X	13.405	4
47	MP1B	Z	-23.218	4
48	MP1B	Mx	.02	4
49	MP1C	X	21.028	2
50	MP1C	Z	-36.421	2
51	MP1C	Mx	-.024	2
52	MP1C	X	21.028	4
53	MP1C	Z	-36.421	4
54	MP1C	Mx	-.024	4
55	MP3A	X	25.766	1.5
56	MP3A	Z	-44.628	1.5
57	MP3A	Mx	.004	1.5
58	MP3B	X	25.766	1.5
59	MP3B	Z	-44.628	1.5
60	MP3B	Mx	.004	1.5
61	MP3C	X	25.766	1.5
62	MP3C	Z	-44.628	1.5
63	MP3C	Mx	.004	1.5
64	MP2A	X	25.666	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
65	MP2A	Z	-44.455	1.5
66	MP2A	Mx	.004	1.5
67	MP2B	X	25.666	1.5
68	MP2B	Z	-44.455	1.5
69	MP2B	Mx	.004	1.5
70	MP2C	X	25.666	1.5
71	MP2C	Z	-44.455	1.5
72	MP2C	Mx	.004	1.5
73	OVP	X	52.21	1
74	OVP	Z	-90.431	1
75	OVP	Mx	0	1
76	MP3A	X	28.811	1
77	MP3A	Z	-49.902	1
78	MP3A	Mx	-.022	1
79	MP3A	X	28.811	5
80	MP3A	Z	-49.902	5
81	MP3A	Mx	-.022	5
82	MP3B	X	17.394	1
83	MP3B	Z	-30.128	1
84	MP3B	Mx	.026	1
85	MP3B	X	17.394	5
86	MP3B	Z	-30.128	5
87	MP3B	Mx	.026	5
88	MP3C	X	23.469	1
89	MP3C	Z	-40.649	1
90	MP3C	Mx	-.027	1
91	MP3C	X	23.469	5
92	MP3C	Z	-40.649	5
93	MP3C	Mx	-.027	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	96.074	1
2	MP2A	Z	-55.469	1
3	MP2A	Mx	-.109	1
4	MP2A	X	96.074	5
5	MP2A	Z	-55.469	5
6	MP2A	Mx	-.109	5
7	MP2B	X	101.054	1
8	MP2B	Z	-58.344	1
9	MP2B	Mx	.017	1
10	MP2B	X	101.054	5
11	MP2B	Z	-58.344	5
12	MP2B	Mx	.017	5
13	MP2A	X	96.074	1
14	MP2A	Z	-55.469	1
15	MP2A	Mx	-.035	1
16	MP2A	X	96.074	5
17	MP2A	Z	-55.469	5
18	MP2A	Mx	-.035	5
19	MP2B	X	101.054	1
20	MP2B	Z	-58.344	1
21	MP2B	Mx	.117	1
22	MP2B	X	101.054	5
23	MP2B	Z	-58.344	5
24	MP2B	Mx	.117	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
25	MP2C	X	115.393	1
26	MP2C	Z	-66.622	1
27	MP2C	Mx	.049	1
28	MP2C	X	115.393	5
29	MP2C	Z	-66.622	5
30	MP2C	Mx	.049	5
31	MP2C	X	115.393	1
32	MP2C	Z	-66.622	1
33	MP2C	Mx	-.118	1
34	MP2C	X	115.393	5
35	MP2C	Z	-66.622	5
36	MP2C	Mx	-.118	5
37	MP1A	X	30.796	2
38	MP1A	Z	-17.78	2
39	MP1A	Mx	-.023	2
40	MP1A	X	30.796	4
41	MP1A	Z	-17.78	4
42	MP1A	Mx	-.023	4
43	MP1B	X	36.421	2
44	MP1B	Z	-21.028	2
45	MP1B	Mx	.024	2
46	MP1B	X	36.421	4
47	MP1B	Z	-21.028	4
48	MP1B	Mx	.024	4
49	MP1C	X	52.617	2
50	MP1C	Z	-30.378	2
51	MP1C	Mx	-.016	2
52	MP1C	X	52.617	4
53	MP1C	Z	-30.378	4
54	MP1C	Mx	-.016	4
55	MP3A	X	38.903	1.5
56	MP3A	Z	-22.461	1.5
57	MP3A	Mx	.014	1.5
58	MP3B	X	38.903	1.5
59	MP3B	Z	-22.461	1.5
60	MP3B	Mx	.014	1.5
61	MP3C	X	38.903	1.5
62	MP3C	Z	-22.461	1.5
63	MP3C	Mx	.014	1.5
64	MP2A	X	36.538	1.5
65	MP2A	Z	-21.095	1.5
66	MP2A	Mx	.014	1.5
67	MP2B	X	36.538	1.5
68	MP2B	Z	-21.095	1.5
69	MP2B	Mx	.014	1.5
70	MP2C	X	36.538	1.5
71	MP2C	Z	-21.095	1.5
72	MP2C	Mx	.014	1.5
73	OVP	X	78.6	1
74	OVP	Z	-45.38	1
75	OVP	Mx	0	1
76	MP3A	X	36.167	1
77	MP3A	Z	-20.881	1
78	MP3A	Mx	-.027	1
79	MP3A	X	36.167	5
80	MP3A	Z	-20.881	5
81	MP3A	Mx	-.027	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
82	MP3B	X	40.649	1
83	MP3B	Z	-23.469	1
84	MP3B	Mx	.027	1
85	MP3B	X	40.649	5
86	MP3B	Z	-23.469	5
87	MP3B	Mx	.027	5
88	MP3C	X	53.556	1
89	MP3C	Z	-30.921	1
90	MP3C	Mx	-.016	1
91	MP3C	X	53.556	5
92	MP3C	Z	-30.921	5
93	MP3C	Mx	-.016	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	102.127	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.077	1
4	MP2A	X	102.127	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.077	5
7	MP2B	X	133.245	1
8	MP2B	Z	0	1
9	MP2B	Mx	-.049	1
10	MP2B	X	133.245	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.049	5
13	MP2A	X	102.127	1
14	MP2A	Z	0	1
15	MP2A	Mx	-.077	1
16	MP2A	X	102.127	5
17	MP2A	Z	0	5
18	MP2A	Mx	-.077	5
19	MP2B	X	133.245	1
20	MP2B	Z	0	1
21	MP2B	Mx	.118	1
22	MP2B	X	133.245	5
23	MP2B	Z	0	5
24	MP2B	Mx	.118	5
25	MP2C	X	136.305	1
26	MP2C	Z	0	1
27	MP2C	Mx	.107	1
28	MP2C	X	136.305	5
29	MP2C	Z	0	5
30	MP2C	Mx	.107	5
31	MP2C	X	136.305	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.072	1
34	MP2C	X	136.305	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.072	5
37	MP1A	X	25.609	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.019	2
40	MP1A	X	25.609	4
41	MP1A	Z	0	4

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
42	MP1A	Mx	-.019	4
43	MP1B	X	60.757	2
44	MP1B	Z	0	2
45	MP1B	Mx	.016	2
46	MP1B	X	60.757	4
47	MP1B	Z	0	4
48	MP1B	Mx	.016	4
49	MP1C	X	64.213	2
50	MP1C	Z	0	2
51	MP1C	Mx	.008	2
52	MP1C	X	64.213	4
53	MP1C	Z	0	4
54	MP1C	Mx	.008	4
55	MP3A	X	36.813	1.5
56	MP3A	Z	0	1.5
57	MP3A	Mx	.017	1.5
58	MP3B	X	36.813	1.5
59	MP3B	Z	0	1.5
60	MP3B	Mx	.017	1.5
61	MP3C	X	36.813	1.5
62	MP3C	Z	0	1.5
63	MP3C	Mx	.017	1.5
64	MP2A	X	30.975	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	.015	1.5
67	MP2B	X	30.975	1.5
68	MP2B	Z	0	1.5
69	MP2B	Mx	.015	1.5
70	MP2C	X	30.975	1.5
71	MP2C	Z	0	1.5
72	MP2C	Mx	.015	1.5
73	OVP	X	74.002	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP3A	X	33.832	1
77	MP3A	Z	0	1
78	MP3A	Mx	-.025	1
79	MP3A	X	33.832	5
80	MP3A	Z	0	5
81	MP3A	Mx	-.025	5
82	MP3B	X	61.842	1
83	MP3B	Z	0	1
84	MP3B	Mx	.016	1
85	MP3B	X	61.842	5
86	MP3B	Z	0	5
87	MP3B	Mx	.016	5
88	MP3C	X	64.596	1
89	MP3C	Z	0	1
90	MP3C	Mx	.008	1
91	MP3C	X	64.596	5
92	MP3C	Z	0	5
93	MP3C	Mx	.008	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	96.074	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
2	MP2A	Z	55.469	1
3	MP2A	Mx	-.035	1
4	MP2A	X	96.074	5
5	MP2A	Z	55.469	5
6	MP2A	Mx	-.035	5
7	MP2B	X	118.043	1
8	MP2B	Z	68.152	1
9	MP2B	Mx	-.107	1
10	MP2B	X	118.043	5
11	MP2B	Z	68.152	5
12	MP2B	Mx	-.107	5
13	MP2A	X	96.074	1
14	MP2A	Z	55.469	1
15	MP2A	Mx	-.109	1
16	MP2A	X	96.074	5
17	MP2A	Z	55.469	5
18	MP2A	Mx	-.109	5
19	MP2B	X	118.043	1
20	MP2B	Z	68.152	1
21	MP2B	Mx	.072	1
22	MP2B	X	118.043	5
23	MP2B	Z	68.152	5
24	MP2B	Mx	.072	5
25	MP2C	X	106.354	1
26	MP2C	Z	61.403	1
27	MP2C	Mx	.122	1
28	MP2C	X	106.354	5
29	MP2C	Z	61.403	5
30	MP2C	Mx	.122	5
31	MP2C	X	106.354	1
32	MP2C	Z	61.403	1
33	MP2C	Mx	-.004	1
34	MP2C	X	106.354	5
35	MP2C	Z	61.403	5
36	MP2C	Mx	-.004	5
37	MP1A	X	30.796	2
38	MP1A	Z	17.78	2
39	MP1A	Mx	-.023	2
40	MP1A	X	30.796	4
41	MP1A	Z	17.78	4
42	MP1A	Mx	-.023	4
43	MP1B	X	55.61	2
44	MP1B	Z	32.106	2
45	MP1B	Mx	-.008	2
46	MP1B	X	55.61	4
47	MP1B	Z	32.106	4
48	MP1B	Mx	-.008	4
49	MP1C	X	42.407	2
50	MP1C	Z	24.483	2
51	MP1C	Mx	.024	2
52	MP1C	X	42.407	4
53	MP1C	Z	24.483	4
54	MP1C	Mx	.024	4
55	MP3A	X	30.583	1.5
56	MP3A	Z	17.657	1.5
57	MP3A	Mx	.017	1.5
58	MP3B	X	30.583	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
59	MP3B	Z	17.657	1.5
60	MP3B	Mx	.017	1.5
61	MP3C	X	30.583	1.5
62	MP3C	Z	17.657	1.5
63	MP3C	Mx	.017	1.5
64	MP2A	X	25.031	1.5
65	MP2A	Z	14.451	1.5
66	MP2A	Mx	.014	1.5
67	MP2B	X	25.031	1.5
68	MP2B	Z	14.451	1.5
69	MP2B	Mx	.014	1.5
70	MP2C	X	25.031	1.5
71	MP2C	Z	14.451	1.5
72	MP2C	Mx	.014	1.5
73	OVP	X	61.406	1
74	OVP	Z	35.453	1
75	OVP	Mx	0	1
76	MP3A	X	36.167	1
77	MP3A	Z	20.881	1
78	MP3A	Mx	-.027	1
79	MP3A	X	36.167	5
80	MP3A	Z	20.881	5
81	MP3A	Mx	-.027	5
82	MP3B	X	55.941	1
83	MP3B	Z	32.298	1
84	MP3B	Mx	-.008	1
85	MP3B	X	55.941	5
86	MP3B	Z	32.298	5
87	MP3B	Mx	-.008	5
88	MP3C	X	45.42	1
89	MP3C	Z	26.223	1
90	MP3C	Mx	.025	1
91	MP3C	X	45.42	5
92	MP3C	Z	26.223	5
93	MP3C	Mx	.025	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	64.279	1
2	MP2A	Z	111.334	1
3	MP2A	Mx	.026	1
4	MP2A	X	64.279	5
5	MP2A	Z	111.334	5
6	MP2A	Mx	.026	5
7	MP2B	X	61.403	1
8	MP2B	Z	106.354	1
9	MP2B	Mx	-.122	1
10	MP2B	X	61.403	5
11	MP2B	Z	106.354	5
12	MP2B	Mx	-.122	5
13	MP2A	X	64.279	1
14	MP2A	Z	111.334	1
15	MP2A	Mx	-.122	1
16	MP2A	X	64.279	5
17	MP2A	Z	111.334	5
18	MP2A	Mx	-.122	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
19	MP2B	X	61.403	1
20	MP2B	Z	106.354	1
21	MP2B	Mx	.004	1
22	MP2B	X	61.403	5
23	MP2B	Z	106.354	5
24	MP2B	Mx	.004	5
25	MP2C	X	53.125	1
26	MP2C	Z	92.015	1
27	MP2C	Mx	.099	1
28	MP2C	X	53.125	5
29	MP2C	Z	92.015	5
30	MP2C	Mx	.099	5
31	MP2C	X	53.125	1
32	MP2C	Z	92.015	1
33	MP2C	Mx	.051	1
34	MP2C	X	53.125	5
35	MP2C	Z	92.015	5
36	MP2C	Mx	.051	5
37	MP1A	X	27.731	2
38	MP1A	Z	48.031	2
39	MP1A	Mx	-.021	2
40	MP1A	X	27.731	4
41	MP1A	Z	48.031	4
42	MP1A	Mx	-.021	4
43	MP1B	X	24.483	2
44	MP1B	Z	42.407	2
45	MP1B	Mx	-.024	2
46	MP1B	X	24.483	4
47	MP1B	Z	42.407	4
48	MP1B	Mx	-.024	4
49	MP1C	X	15.133	2
50	MP1C	Z	26.21	2
51	MP1C	Mx	.021	2
52	MP1C	X	15.133	4
53	MP1C	Z	26.21	4
54	MP1C	Mx	.021	4
55	MP3A	X	20.962	1.5
56	MP3A	Z	36.308	1.5
57	MP3A	Mx	.016	1.5
58	MP3B	X	20.962	1.5
59	MP3B	Z	36.308	1.5
60	MP3B	Mx	.016	1.5
61	MP3C	X	20.962	1.5
62	MP3C	Z	36.308	1.5
63	MP3C	Mx	.016	1.5
64	MP2A	X	19.023	1.5
65	MP2A	Z	32.948	1.5
66	MP2A	Mx	.015	1.5
67	MP2B	X	19.023	1.5
68	MP2B	Z	32.948	1.5
69	MP2B	Mx	.015	1.5
70	MP2C	X	19.023	1.5
71	MP2C	Z	32.948	1.5
72	MP2C	Mx	.015	1.5
73	OVP	X	42.283	1
74	OVP	Z	73.236	1
75	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
76	MP3A	X	28.811	1
77	MP3A	Z	49.902	1
78	MP3A	Mx	-.022	1
79	MP3A	X	28.811	5
80	MP3A	Z	49.902	5
81	MP3A	Mx	-.022	5
82	MP3B	X	26.223	1
83	MP3B	Z	45.42	1
84	MP3B	Mx	-.025	1
85	MP3B	X	26.223	5
86	MP3B	Z	45.42	5
87	MP3B	Mx	-.025	5
88	MP3C	X	18.771	1
89	MP3C	Z	32.513	1
90	MP3C	Mx	.026	1
91	MP3C	X	18.771	5
92	MP3C	Z	32.513	5
93	MP3C	Mx	.026	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	137.367	1
3	MP2A	Mx	.092	1
4	MP2A	X	0	5
5	MP2A	Z	137.367	5
6	MP2A	Mx	.092	5
7	MP2B	X	0	1
8	MP2B	Z	106.249	1
9	MP2B	Mx	-.099	1
10	MP2B	X	0	5
11	MP2B	Z	106.249	5
12	MP2B	Mx	-.099	5
13	MP2A	X	0	1
14	MP2A	Z	137.367	1
15	MP2A	Mx	-.092	1
16	MP2A	X	0	5
17	MP2A	Z	137.367	5
18	MP2A	Mx	-.092	5
19	MP2B	X	0	1
20	MP2B	Z	106.249	1
21	MP2B	Mx	-.051	1
22	MP2B	X	0	5
23	MP2B	Z	106.249	5
24	MP2B	Mx	-.051	5
25	MP2C	X	0	1
26	MP2C	Z	103.19	1
27	MP2C	Mx	.064	1
28	MP2C	X	0	5
29	MP2C	Z	103.19	5
30	MP2C	Mx	.064	5
31	MP2C	X	0	1
32	MP2C	Z	103.19	1
33	MP2C	Mx	.088	1
34	MP2C	X	0	5
35	MP2C	Z	103.19	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
36	MP2C	Mx	.088	5
37	MP1A	X	0	2
38	MP1A	Z	65.413	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	65.413	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	30.265	2
45	MP1B	Mx	-.021	2
46	MP1B	X	0	4
47	MP1B	Z	30.265	4
48	MP1B	Mx	-.021	4
49	MP1C	X	0	2
50	MP1C	Z	26.809	2
51	MP1C	Mx	.02	2
52	MP1C	X	0	4
53	MP1C	Z	26.809	4
54	MP1C	Mx	.02	4
55	MP3A	X	0	1.5
56	MP3A	Z	50.033	1.5
57	MP3A	Mx	.009	1.5
58	MP3B	X	0	1.5
59	MP3B	Z	50.033	1.5
60	MP3B	Mx	.009	1.5
61	MP3C	X	0	1.5
62	MP3C	Z	50.033	1.5
63	MP3C	Mx	.009	1.5
64	MP2A	X	0	1.5
65	MP2A	Z	49.26	1.5
66	MP2A	Mx	.008	1.5
67	MP2B	X	0	1.5
68	MP2B	Z	49.26	1.5
69	MP2B	Mx	.008	1.5
70	MP2C	X	0	1.5
71	MP2C	Z	49.26	1.5
72	MP2C	Mx	.008	1.5
73	OVP	X	0	1
74	OVP	Z	101.324	1
75	OVP	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	65.552	1
78	MP3A	Mx	0	1
79	MP3A	X	0	5
80	MP3A	Z	65.552	5
81	MP3A	Mx	0	5
82	MP3B	X	0	1
83	MP3B	Z	37.542	1
84	MP3B	Mx	-.026	1
85	MP3B	X	0	5
86	MP3B	Z	37.542	5
87	MP3B	Mx	-.026	5
88	MP3C	X	0	1
89	MP3C	Z	34.788	1
90	MP3C	Mx	.026	1
91	MP3C	X	0	5
92	MP3C	Z	34.788	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
93	MP3C	Mx	.026	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-64.279	1
2	MP2A	Z	111.334	1
3	MP2A	Mx	.122	1
4	MP2A	X	-64.279	5
5	MP2A	Z	111.334	5
6	MP2A	Mx	.122	5
7	MP2B	X	-51.595	1
8	MP2B	Z	89.365	1
9	MP2B	Mx	-.064	1
10	MP2B	X	-51.595	5
11	MP2B	Z	89.365	5
12	MP2B	Mx	-.064	5
13	MP2A	X	-64.279	1
14	MP2A	Z	111.334	1
15	MP2A	Mx	-.026	1
16	MP2A	X	-64.279	5
17	MP2A	Z	111.334	5
18	MP2A	Mx	-.026	5
19	MP2B	X	-51.595	1
20	MP2B	Z	89.365	1
21	MP2B	Mx	-.088	1
22	MP2B	X	-51.595	5
23	MP2B	Z	89.365	5
24	MP2B	Mx	-.088	5
25	MP2C	X	-58.344	1
26	MP2C	Z	101.054	1
27	MP2C	Mx	.017	1
28	MP2C	X	-58.344	5
29	MP2C	Z	101.054	5
30	MP2C	Mx	.017	5
31	MP2C	X	-58.344	1
32	MP2C	Z	101.054	1
33	MP2C	Mx	.117	1
34	MP2C	X	-58.344	5
35	MP2C	Z	101.054	5
36	MP2C	Mx	.117	5
37	MP1A	X	-27.731	2
38	MP1A	Z	48.031	2
39	MP1A	Mx	.021	2
40	MP1A	X	-27.731	4
41	MP1A	Z	48.031	4
42	MP1A	Mx	.021	4
43	MP1B	X	-13.405	2
44	MP1B	Z	23.218	2
45	MP1B	Mx	-.02	2
46	MP1B	X	-13.405	4
47	MP1B	Z	23.218	4
48	MP1B	Mx	-.02	4
49	MP1C	X	-21.028	2
50	MP1C	Z	36.421	2
51	MP1C	Mx	.024	2
52	MP1C	X	-21.028	4

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
53	MP1C	Z	36.421	4
54	MP1C	Mx	.024	4
55	MP3A	X	-25.766	1.5
56	MP3A	Z	44.628	1.5
57	MP3A	Mx	-.004	1.5
58	MP3B	X	-25.766	1.5
59	MP3B	Z	44.628	1.5
60	MP3B	Mx	-.004	1.5
61	MP3C	X	-25.766	1.5
62	MP3C	Z	44.628	1.5
63	MP3C	Mx	-.004	1.5
64	MP2A	X	-25.666	1.5
65	MP2A	Z	44.455	1.5
66	MP2A	Mx	-.004	1.5
67	MP2B	X	-25.666	1.5
68	MP2B	Z	44.455	1.5
69	MP2B	Mx	-.004	1.5
70	MP2C	X	-25.666	1.5
71	MP2C	Z	44.455	1.5
72	MP2C	Mx	-.004	1.5
73	OVP	X	-52.21	1
74	OVP	Z	90.431	1
75	OVP	Mx	0	1
76	MP3A	X	-28.811	1
77	MP3A	Z	49.902	1
78	MP3A	Mx	.022	1
79	MP3A	X	-28.811	5
80	MP3A	Z	49.902	5
81	MP3A	Mx	.022	5
82	MP3B	X	-17.394	1
83	MP3B	Z	30.128	1
84	MP3B	Mx	-.026	1
85	MP3B	X	-17.394	5
86	MP3B	Z	30.128	5
87	MP3B	Mx	-.026	5
88	MP3C	X	-23.469	1
89	MP3C	Z	40.649	1
90	MP3C	Mx	.027	1
91	MP3C	X	-23.469	5
92	MP3C	Z	40.649	5
93	MP3C	Mx	.027	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-96.074	1
2	MP2A	Z	55.469	1
3	MP2A	Mx	.109	1
4	MP2A	X	-96.074	5
5	MP2A	Z	55.469	5
6	MP2A	Mx	.109	5
7	MP2B	X	-101.054	1
8	MP2B	Z	58.344	1
9	MP2B	Mx	-.017	1
10	MP2B	X	-101.054	5
11	MP2B	Z	58.344	5
12	MP2B	Mx	-.017	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
13	MP2A	X	-96.074	1
14	MP2A	Z	55.469	1
15	MP2A	Mx	.035	1
16	MP2A	X	-96.074	5
17	MP2A	Z	55.469	5
18	MP2A	Mx	.035	5
19	MP2B	X	-101.054	1
20	MP2B	Z	58.344	1
21	MP2B	Mx	-.117	1
22	MP2B	X	-101.054	5
23	MP2B	Z	58.344	5
24	MP2B	Mx	-.117	5
25	MP2C	X	-115.393	1
26	MP2C	Z	66.622	1
27	MP2C	Mx	-.049	1
28	MP2C	X	-115.393	5
29	MP2C	Z	66.622	5
30	MP2C	Mx	-.049	5
31	MP2C	X	-115.393	1
32	MP2C	Z	66.622	1
33	MP2C	Mx	.118	1
34	MP2C	X	-115.393	5
35	MP2C	Z	66.622	5
36	MP2C	Mx	.118	5
37	MP1A	X	-30.796	2
38	MP1A	Z	17.78	2
39	MP1A	Mx	.023	2
40	MP1A	X	-30.796	4
41	MP1A	Z	17.78	4
42	MP1A	Mx	.023	4
43	MP1B	X	-36.421	2
44	MP1B	Z	21.028	2
45	MP1B	Mx	-.024	2
46	MP1B	X	-36.421	4
47	MP1B	Z	21.028	4
48	MP1B	Mx	-.024	4
49	MP1C	X	-52.617	2
50	MP1C	Z	30.378	2
51	MP1C	Mx	.016	2
52	MP1C	X	-52.617	4
53	MP1C	Z	30.378	4
54	MP1C	Mx	.016	4
55	MP3A	X	-38.903	1.5
56	MP3A	Z	22.461	1.5
57	MP3A	Mx	-.014	1.5
58	MP3B	X	-38.903	1.5
59	MP3B	Z	22.461	1.5
60	MP3B	Mx	-.014	1.5
61	MP3C	X	-38.903	1.5
62	MP3C	Z	22.461	1.5
63	MP3C	Mx	-.014	1.5
64	MP2A	X	-36.538	1.5
65	MP2A	Z	21.095	1.5
66	MP2A	Mx	-.014	1.5
67	MP2B	X	-36.538	1.5
68	MP2B	Z	21.095	1.5
69	MP2B	Mx	-.014	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
70	MP2C	X	-36.538	1.5
71	MP2C	Z	21.095	1.5
72	MP2C	Mx	-.014	1.5
73	OVP	X	-78.6	1
74	OVP	Z	45.38	1
75	OVP	Mx	0	1
76	MP3A	X	-36.167	1
77	MP3A	Z	20.881	1
78	MP3A	Mx	.027	1
79	MP3A	X	-36.167	5
80	MP3A	Z	20.881	5
81	MP3A	Mx	.027	5
82	MP3B	X	-40.649	1
83	MP3B	Z	23.469	1
84	MP3B	Mx	-.027	1
85	MP3B	X	-40.649	5
86	MP3B	Z	23.469	5
87	MP3B	Mx	-.027	5
88	MP3C	X	-53.556	1
89	MP3C	Z	30.921	1
90	MP3C	Mx	.016	1
91	MP3C	X	-53.556	5
92	MP3C	Z	30.921	5
93	MP3C	Mx	.016	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-102.127	1
2	MP2A	Z	0	1
3	MP2A	Mx	.077	1
4	MP2A	X	-102.127	5
5	MP2A	Z	0	5
6	MP2A	Mx	.077	5
7	MP2B	X	-133.245	1
8	MP2B	Z	0	1
9	MP2B	Mx	.049	1
10	MP2B	X	-133.245	5
11	MP2B	Z	0	5
12	MP2B	Mx	.049	5
13	MP2A	X	-102.127	1
14	MP2A	Z	0	1
15	MP2A	Mx	.077	1
16	MP2A	X	-102.127	5
17	MP2A	Z	0	5
18	MP2A	Mx	.077	5
19	MP2B	X	-133.245	1
20	MP2B	Z	0	1
21	MP2B	Mx	-.118	1
22	MP2B	X	-133.245	5
23	MP2B	Z	0	5
24	MP2B	Mx	-.118	5
25	MP2C	X	-136.305	1
26	MP2C	Z	0	1
27	MP2C	Mx	-.107	1
28	MP2C	X	-136.305	5
29	MP2C	Z	0	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
30	MP2C	Mx	-.107	5
31	MP2C	X	-136.305	1
32	MP2C	Z	0	1
33	MP2C	Mx	.072	1
34	MP2C	X	-136.305	5
35	MP2C	Z	0	5
36	MP2C	Mx	.072	5
37	MP1A	X	-25.609	2
38	MP1A	Z	0	2
39	MP1A	Mx	.019	2
40	MP1A	X	-25.609	4
41	MP1A	Z	0	4
42	MP1A	Mx	.019	4
43	MP1B	X	-60.757	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.016	2
46	MP1B	X	-60.757	4
47	MP1B	Z	0	4
48	MP1B	Mx	-.016	4
49	MP1C	X	-64.213	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.008	2
52	MP1C	X	-64.213	4
53	MP1C	Z	0	4
54	MP1C	Mx	-.008	4
55	MP3A	X	-36.813	1.5
56	MP3A	Z	0	1.5
57	MP3A	Mx	-.017	1.5
58	MP3B	X	-36.813	1.5
59	MP3B	Z	0	1.5
60	MP3B	Mx	-.017	1.5
61	MP3C	X	-36.813	1.5
62	MP3C	Z	0	1.5
63	MP3C	Mx	-.017	1.5
64	MP2A	X	-30.975	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	-.015	1.5
67	MP2B	X	-30.975	1.5
68	MP2B	Z	0	1.5
69	MP2B	Mx	-.015	1.5
70	MP2C	X	-30.975	1.5
71	MP2C	Z	0	1.5
72	MP2C	Mx	-.015	1.5
73	OVP	X	-74.002	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP3A	X	-33.832	1
77	MP3A	Z	0	1
78	MP3A	Mx	.025	1
79	MP3A	X	-33.832	5
80	MP3A	Z	0	5
81	MP3A	Mx	.025	5
82	MP3B	X	-61.842	1
83	MP3B	Z	0	1
84	MP3B	Mx	-.016	1
85	MP3B	X	-61.842	5
86	MP3B	Z	0	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
87	MP3B	Mx	-.016	5
88	MP3C	X	-64.596	1
89	MP3C	Z	0	1
90	MP3C	Mx	-.008	1
91	MP3C	X	-64.596	5
92	MP3C	Z	0	5
93	MP3C	Mx	-.008	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-96.074	1
2	MP2A	Z	-55.469	1
3	MP2A	Mx	.035	1
4	MP2A	X	-96.074	5
5	MP2A	Z	-55.469	5
6	MP2A	Mx	.035	5
7	MP2B	X	-118.043	1
8	MP2B	Z	-68.152	1
9	MP2B	Mx	.107	1
10	MP2B	X	-118.043	5
11	MP2B	Z	-68.152	5
12	MP2B	Mx	.107	5
13	MP2A	X	-96.074	1
14	MP2A	Z	-55.469	1
15	MP2A	Mx	.109	1
16	MP2A	X	-96.074	5
17	MP2A	Z	-55.469	5
18	MP2A	Mx	.109	5
19	MP2B	X	-118.043	1
20	MP2B	Z	-68.152	1
21	MP2B	Mx	-.072	1
22	MP2B	X	-118.043	5
23	MP2B	Z	-68.152	5
24	MP2B	Mx	-.072	5
25	MP2C	X	-106.354	1
26	MP2C	Z	-61.403	1
27	MP2C	Mx	-.122	1
28	MP2C	X	-106.354	5
29	MP2C	Z	-61.403	5
30	MP2C	Mx	-.122	5
31	MP2C	X	-106.354	1
32	MP2C	Z	-61.403	1
33	MP2C	Mx	.004	1
34	MP2C	X	-106.354	5
35	MP2C	Z	-61.403	5
36	MP2C	Mx	.004	5
37	MP1A	X	-30.796	2
38	MP1A	Z	-17.78	2
39	MP1A	Mx	.023	2
40	MP1A	X	-30.796	4
41	MP1A	Z	-17.78	4
42	MP1A	Mx	.023	4
43	MP1B	X	-55.61	2
44	MP1B	Z	-32.106	2
45	MP1B	Mx	.008	2
46	MP1B	X	-55.61	4

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
47	MP1B	Z	-32.106	4
48	MP1B	Mx	.008	4
49	MP1C	X	-42.407	2
50	MP1C	Z	-24.483	2
51	MP1C	Mx	-.024	2
52	MP1C	X	-42.407	4
53	MP1C	Z	-24.483	4
54	MP1C	Mx	-.024	4
55	MP3A	X	-30.583	1.5
56	MP3A	Z	-17.657	1.5
57	MP3A	Mx	-.017	1.5
58	MP3B	X	-30.583	1.5
59	MP3B	Z	-17.657	1.5
60	MP3B	Mx	-.017	1.5
61	MP3C	X	-30.583	1.5
62	MP3C	Z	-17.657	1.5
63	MP3C	Mx	-.017	1.5
64	MP2A	X	-25.031	1.5
65	MP2A	Z	-14.451	1.5
66	MP2A	Mx	-.014	1.5
67	MP2B	X	-25.031	1.5
68	MP2B	Z	-14.451	1.5
69	MP2B	Mx	-.014	1.5
70	MP2C	X	-25.031	1.5
71	MP2C	Z	-14.451	1.5
72	MP2C	Mx	-.014	1.5
73	OVP	X	-61.406	1
74	OVP	Z	-35.453	1
75	OVP	Mx	0	1
76	MP3A	X	-36.167	1
77	MP3A	Z	-20.881	1
78	MP3A	Mx	.027	1
79	MP3A	X	-36.167	5
80	MP3A	Z	-20.881	5
81	MP3A	Mx	.027	5
82	MP3B	X	-55.941	1
83	MP3B	Z	-32.298	1
84	MP3B	Mx	.008	1
85	MP3B	X	-55.941	5
86	MP3B	Z	-32.298	5
87	MP3B	Mx	.008	5
88	MP3C	X	-45.42	1
89	MP3C	Z	-26.223	1
90	MP3C	Mx	-.025	1
91	MP3C	X	-45.42	5
92	MP3C	Z	-26.223	5
93	MP3C	Mx	-.025	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-64.279	1
2	MP2A	Z	-111.334	1
3	MP2A	Mx	-.026	1
4	MP2A	X	-64.279	5
5	MP2A	Z	-111.334	5
6	MP2A	Mx	-.026	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
7	MP2B	X	-61.403	1
8	MP2B	Z	-106.354	1
9	MP2B	Mx	.122	1
10	MP2B	X	-61.403	5
11	MP2B	Z	-106.354	5
12	MP2B	Mx	.122	5
13	MP2A	X	-64.279	1
14	MP2A	Z	-111.334	1
15	MP2A	Mx	.122	1
16	MP2A	X	-64.279	5
17	MP2A	Z	-111.334	5
18	MP2A	Mx	.122	5
19	MP2B	X	-61.403	1
20	MP2B	Z	-106.354	1
21	MP2B	Mx	-.004	1
22	MP2B	X	-61.403	5
23	MP2B	Z	-106.354	5
24	MP2B	Mx	-.004	5
25	MP2C	X	-53.125	1
26	MP2C	Z	-92.015	1
27	MP2C	Mx	-.099	1
28	MP2C	X	-53.125	5
29	MP2C	Z	-92.015	5
30	MP2C	Mx	-.099	5
31	MP2C	X	-53.125	1
32	MP2C	Z	-92.015	1
33	MP2C	Mx	-.051	1
34	MP2C	X	-53.125	5
35	MP2C	Z	-92.015	5
36	MP2C	Mx	-.051	5
37	MP1A	X	-27.731	2
38	MP1A	Z	-48.031	2
39	MP1A	Mx	.021	2
40	MP1A	X	-27.731	4
41	MP1A	Z	-48.031	4
42	MP1A	Mx	.021	4
43	MP1B	X	-24.483	2
44	MP1B	Z	-42.407	2
45	MP1B	Mx	.024	2
46	MP1B	X	-24.483	4
47	MP1B	Z	-42.407	4
48	MP1B	Mx	.024	4
49	MP1C	X	-15.133	2
50	MP1C	Z	-26.21	2
51	MP1C	Mx	-.021	2
52	MP1C	X	-15.133	4
53	MP1C	Z	-26.21	4
54	MP1C	Mx	-.021	4
55	MP3A	X	-20.962	1.5
56	MP3A	Z	-36.308	1.5
57	MP3A	Mx	-.016	1.5
58	MP3B	X	-20.962	1.5
59	MP3B	Z	-36.308	1.5
60	MP3B	Mx	-.016	1.5
61	MP3C	X	-20.962	1.5
62	MP3C	Z	-36.308	1.5
63	MP3C	Mx	-.016	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
64	MP2A	X	-19.023	1.5
65	MP2A	Z	-32.948	1.5
66	MP2A	Mx	-.015	1.5
67	MP2B	X	-19.023	1.5
68	MP2B	Z	-32.948	1.5
69	MP2B	Mx	-.015	1.5
70	MP2C	X	-19.023	1.5
71	MP2C	Z	-32.948	1.5
72	MP2C	Mx	-.015	1.5
73	OVP	X	-42.283	1
74	OVP	Z	-73.236	1
75	OVP	Mx	0	1
76	MP3A	X	-28.811	1
77	MP3A	Z	-49.902	1
78	MP3A	Mx	.022	1
79	MP3A	X	-28.811	5
80	MP3A	Z	-49.902	5
81	MP3A	Mx	.022	5
82	MP3B	X	-26.223	1
83	MP3B	Z	-45.42	1
84	MP3B	Mx	.025	1
85	MP3B	X	-26.223	5
86	MP3B	Z	-45.42	5
87	MP3B	Mx	.025	5
88	MP3C	X	-18.771	1
89	MP3C	Z	-32.513	1
90	MP3C	Mx	-.026	1
91	MP3C	X	-18.771	5
92	MP3C	Z	-32.513	5
93	MP3C	Mx	-.026	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	-27.25	1
3	MP2A	Mx	-.018	1
4	MP2A	X	0	5
5	MP2A	Z	-27.25	5
6	MP2A	Mx	-.018	5
7	MP2B	X	0	1
8	MP2B	Z	-21.376	1
9	MP2B	Mx	.02	1
10	MP2B	X	0	5
11	MP2B	Z	-21.376	5
12	MP2B	Mx	.02	5
13	MP2A	X	0	1
14	MP2A	Z	-27.25	1
15	MP2A	Mx	.018	1
16	MP2A	X	0	5
17	MP2A	Z	-27.25	5
18	MP2A	Mx	.018	5
19	MP2B	X	0	1
20	MP2B	Z	-21.376	1
21	MP2B	Mx	.01	1
22	MP2B	X	0	5
23	MP2B	Z	-21.376	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
24	MP2B	Mx	.01	5
25	MP2C	X	0	1
26	MP2C	Z	-20.798	1
27	MP2C	Mx	-.013	1
28	MP2C	X	0	5
29	MP2C	Z	-20.798	5
30	MP2C	Mx	-.013	5
31	MP2C	X	0	1
32	MP2C	Z	-20.798	1
33	MP2C	Mx	-.018	1
34	MP2C	X	0	5
35	MP2C	Z	-20.798	5
36	MP2C	Mx	-.018	5
37	MP1A	X	0	2
38	MP1A	Z	-13.424	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	-13.424	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	-6.6	2
45	MP1B	Mx	.005	2
46	MP1B	X	0	4
47	MP1B	Z	-6.6	4
48	MP1B	Mx	.005	4
49	MP1C	X	0	2
50	MP1C	Z	-5.929	2
51	MP1C	Mx	-.004	2
52	MP1C	X	0	4
53	MP1C	Z	-5.929	4
54	MP1C	Mx	-.004	4
55	MP3A	X	0	1.5
56	MP3A	Z	-10.882	1.5
57	MP3A	Mx	-.002	1.5
58	MP3B	X	0	1.5
59	MP3B	Z	-10.882	1.5
60	MP3B	Mx	-.002	1.5
61	MP3C	X	0	1.5
62	MP3C	Z	-10.882	1.5
63	MP3C	Mx	-.002	1.5
64	MP2A	X	0	1.5
65	MP2A	Z	-10.728	1.5
66	MP2A	Mx	-.002	1.5
67	MP2B	X	0	1.5
68	MP2B	Z	-10.728	1.5
69	MP2B	Mx	-.002	1.5
70	MP2C	X	0	1.5
71	MP2C	Z	-10.728	1.5
72	MP2C	Mx	-.002	1.5
73	OVP	X	0	1
74	OVP	Z	-20.962	1
75	OVP	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	-13.464	1
78	MP3A	Mx	0	1
79	MP3A	X	0	5
80	MP3A	Z	-13.464	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
81	MP3A	Mx	0	5
82	MP3B	X	0	1
83	MP3B	Z	-8.199	1
84	MP3B	Mx	.006	1
85	MP3B	X	0	5
86	MP3B	Z	-8.199	5
87	MP3B	Mx	.006	5
88	MP3C	X	0	1
89	MP3C	Z	-7.681	1
90	MP3C	Mx	-.006	1
91	MP3C	X	0	5
92	MP3C	Z	-7.681	5
93	MP3C	Mx	-.006	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	12.793	1
2	MP2A	Z	-22.159	1
3	MP2A	Mx	-.024	1
4	MP2A	X	12.793	5
5	MP2A	Z	-22.159	5
6	MP2A	Mx	-.024	5
7	MP2B	X	10.399	1
8	MP2B	Z	-18.012	1
9	MP2B	Mx	.013	1
10	MP2B	X	10.399	5
11	MP2B	Z	-18.012	5
12	MP2B	Mx	.013	5
13	MP2A	X	12.793	1
14	MP2A	Z	-22.159	1
15	MP2A	Mx	.005	1
16	MP2A	X	12.793	5
17	MP2A	Z	-22.159	5
18	MP2A	Mx	.005	5
19	MP2B	X	10.399	1
20	MP2B	Z	-18.012	1
21	MP2B	Mx	.018	1
22	MP2B	X	10.399	5
23	MP2B	Z	-18.012	5
24	MP2B	Mx	.018	5
25	MP2C	X	11.673	1
26	MP2C	Z	-20.219	1
27	MP2C	Mx	-.003	1
28	MP2C	X	11.673	5
29	MP2C	Z	-20.219	5
30	MP2C	Mx	-.003	5
31	MP2C	X	11.673	1
32	MP2C	Z	-20.219	1
33	MP2C	Mx	-.023	1
34	MP2C	X	11.673	5
35	MP2C	Z	-20.219	5
36	MP2C	Mx	-.023	5
37	MP1A	X	5.746	2
38	MP1A	Z	-9.952	2
39	MP1A	Mx	-.004	2
40	MP1A	X	5.746	4

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
41	MP1A	Z	-9.952	4
42	MP1A	Mx	-.004	4
43	MP1B	X	2.964	2
44	MP1B	Z	-5.135	2
45	MP1B	Mx	.004	2
46	MP1B	X	2.964	4
47	MP1B	Z	-5.135	4
48	MP1B	Mx	.004	4
49	MP1C	X	4.444	2
50	MP1C	Z	-7.698	2
51	MP1C	Mx	-.005	2
52	MP1C	X	4.444	4
53	MP1C	Z	-7.698	4
54	MP1C	Mx	-.005	4
55	MP3A	X	5.591	1.5
56	MP3A	Z	-9.683	1.5
57	MP3A	Mx	.000971	1.5
58	MP3B	X	5.591	1.5
59	MP3B	Z	-9.683	1.5
60	MP3B	Mx	.000971	1.5
61	MP3C	X	5.591	1.5
62	MP3C	Z	-9.683	1.5
63	MP3C	Mx	.000971	1.5
64	MP2A	X	5.571	1.5
65	MP2A	Z	-9.649	1.5
66	MP2A	Mx	.000967	1.5
67	MP2B	X	5.571	1.5
68	MP2B	Z	-9.649	1.5
69	MP2B	Mx	.000967	1.5
70	MP2C	X	5.571	1.5
71	MP2C	Z	-9.649	1.5
72	MP2C	Mx	.000967	1.5
73	OVP	X	10.781	1
74	OVP	Z	-18.673	1
75	OVP	Mx	0	1
76	MP3A	X	5.987	1
77	MP3A	Z	-10.369	1
78	MP3A	Mx	-.004	1
79	MP3A	X	5.987	5
80	MP3A	Z	-10.369	5
81	MP3A	Mx	-.004	5
82	MP3B	X	3.84	1
83	MP3B	Z	-6.652	1
84	MP3B	Mx	.006	1
85	MP3B	X	3.84	5
86	MP3B	Z	-6.652	5
87	MP3B	Mx	.006	5
88	MP3C	X	4.982	1
89	MP3C	Z	-8.63	1
90	MP3C	Mx	-.006	1
91	MP3C	X	4.982	5
92	MP3C	Z	-8.63	5
93	MP3C	Mx	-.006	5

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

Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	19.278	1
2	MP2A	Z	-11.13	1
3	MP2A	Mx	-.022	1
4	MP2A	X	19.278	5
5	MP2A	Z	-11.13	5
6	MP2A	Mx	-.022	5
7	MP2B	X	20.219	1
8	MP2B	Z	-11.673	1
9	MP2B	Mx	.003	1
10	MP2B	X	20.219	5
11	MP2B	Z	-11.673	5
12	MP2B	Mx	.003	5
13	MP2A	X	19.278	1
14	MP2A	Z	-11.13	1
15	MP2A	Mx	-.007	1
16	MP2A	X	19.278	5
17	MP2A	Z	-11.13	5
18	MP2A	Mx	-.007	5
19	MP2B	X	20.219	1
20	MP2B	Z	-11.673	1
21	MP2B	Mx	.023	1
22	MP2B	X	20.219	5
23	MP2B	Z	-11.673	5
24	MP2B	Mx	.023	5
25	MP2C	X	22.925	1
26	MP2C	Z	-13.236	1
27	MP2C	Mx	.01	1
28	MP2C	X	22.925	5
29	MP2C	Z	-13.236	5
30	MP2C	Mx	.01	5
31	MP2C	X	22.925	1
32	MP2C	Z	-13.236	1
33	MP2C	Mx	-.023	1
34	MP2C	X	22.925	5
35	MP2C	Z	-13.236	5
36	MP2C	Mx	-.023	5
37	MP1A	X	6.606	2
38	MP1A	Z	-3.814	2
39	MP1A	Mx	-.005	2
40	MP1A	X	6.606	4
41	MP1A	Z	-3.814	4
42	MP1A	Mx	-.005	4
43	MP1B	X	7.698	2
44	MP1B	Z	-4.444	2
45	MP1B	Mx	.005	2
46	MP1B	X	7.698	4
47	MP1B	Z	-4.444	4
48	MP1B	Mx	.005	4
49	MP1C	X	10.842	2
50	MP1C	Z	-6.26	2
51	MP1C	Mx	-.003	2
52	MP1C	X	10.842	4
53	MP1C	Z	-6.26	4
54	MP1C	Mx	-.003	4
55	MP3A	X	8.539	1.5
56	MP3A	Z	-4.93	1.5
57	MP3A	Mx	.003	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
58	MP3B	X	8.539	1.5
59	MP3B	Z	-4.93	1.5
60	MP3B	Mx	.003	1.5
61	MP3C	X	8.539	1.5
62	MP3C	Z	-4.93	1.5
63	MP3C	Mx	.003	1.5
64	MP2A	X	8.07	1.5
65	MP2A	Z	-4.659	1.5
66	MP2A	Mx	.003	1.5
67	MP2B	X	8.07	1.5
68	MP2B	Z	-4.659	1.5
69	MP2B	Mx	.003	1.5
70	MP2C	X	8.07	1.5
71	MP2C	Z	-4.659	1.5
72	MP2C	Mx	.003	1.5
73	OVP	X	16.382	1
74	OVP	Z	-9.458	1
75	OVP	Mx	0	1
76	MP3A	X	7.787	1
77	MP3A	Z	-4.496	1
78	MP3A	Mx	-.006	1
79	MP3A	X	7.787	5
80	MP3A	Z	-4.496	5
81	MP3A	Mx	-.006	5
82	MP3B	X	8.63	1
83	MP3B	Z	-4.982	1
84	MP3B	Mx	.006	1
85	MP3B	X	8.63	5
86	MP3B	Z	-4.982	5
87	MP3B	Mx	.006	5
88	MP3C	X	11.056	1
89	MP3C	Z	-6.383	1
90	MP3C	Mx	-.003	1
91	MP3C	X	11.056	5
92	MP3C	Z	-6.383	5
93	MP3C	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	20.598	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.015	1
4	MP2A	X	20.598	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.015	5
7	MP2B	X	26.472	1
8	MP2B	Z	0	1
9	MP2B	Mx	-.01	1
10	MP2B	X	26.472	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.01	5
13	MP2A	X	20.598	1
14	MP2A	Z	0	1
15	MP2A	Mx	-.015	1
16	MP2A	X	20.598	5
17	MP2A	Z	0	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
18	MP2A	Mx	-.015	5
19	MP2B	X	26.472	1
20	MP2B	Z	0	1
21	MP2B	Mx	.023	1
22	MP2B	X	26.472	5
23	MP2B	Z	0	5
24	MP2B	Mx	.023	5
25	MP2C	X	27.049	1
26	MP2C	Z	0	1
27	MP2C	Mx	.021	1
28	MP2C	X	27.049	5
29	MP2C	Z	0	5
30	MP2C	Mx	.021	5
31	MP2C	X	27.049	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.014	1
34	MP2C	X	27.049	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.014	5
37	MP1A	X	5.696	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.004	2
40	MP1A	X	5.696	4
41	MP1A	Z	0	4
42	MP1A	Mx	-.004	4
43	MP1B	X	12.52	2
44	MP1B	Z	0	2
45	MP1B	Mx	.003	2
46	MP1B	X	12.52	4
47	MP1B	Z	0	4
48	MP1B	Mx	.003	4
49	MP1C	X	13.191	2
50	MP1C	Z	0	2
51	MP1C	Mx	.002	2
52	MP1C	X	13.191	4
53	MP1C	Z	0	4
54	MP1C	Mx	.002	4
55	MP3A	X	8.239	1.5
56	MP3A	Z	0	1.5
57	MP3A	Mx	.004	1.5
58	MP3B	X	8.239	1.5
59	MP3B	Z	0	1.5
60	MP3B	Mx	.004	1.5
61	MP3C	X	8.239	1.5
62	MP3C	Z	0	1.5
63	MP3C	Mx	.004	1.5
64	MP2A	X	7.082	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	.003	1.5
67	MP2B	X	7.082	1.5
68	MP2B	Z	0	1.5
69	MP2B	Mx	.003	1.5
70	MP2C	X	7.082	1.5
71	MP2C	Z	0	1.5
72	MP2C	Mx	.003	1.5
73	OVP	X	15.672	1
74	OVP	Z	0	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
75	OVP	Mx	0	1
76	MP3A	X	7.501	1
77	MP3A	Z	0	1
78	MP3A	Mx	-.006	1
79	MP3A	X	7.501	5
80	MP3A	Z	0	5
81	MP3A	Mx	-.006	5
82	MP3B	X	12.766	1
83	MP3B	Z	0	1
84	MP3B	Mx	.003	1
85	MP3B	X	12.766	5
86	MP3B	Z	0	5
87	MP3B	Mx	.003	5
88	MP3C	X	13.284	1
89	MP3C	Z	0	1
90	MP3C	Mx	.002	1
91	MP3C	X	13.284	5
92	MP3C	Z	0	5
93	MP3C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	19.278	1
2	MP2A	Z	11.13	1
3	MP2A	Mx	-.007	1
4	MP2A	X	19.278	5
5	MP2A	Z	11.13	5
6	MP2A	Mx	-.007	5
7	MP2B	X	23.426	1
8	MP2B	Z	13.525	1
9	MP2B	Mx	-.021	1
10	MP2B	X	23.426	5
11	MP2B	Z	13.525	5
12	MP2B	Mx	-.021	5
13	MP2A	X	19.278	1
14	MP2A	Z	11.13	1
15	MP2A	Mx	-.022	1
16	MP2A	X	19.278	5
17	MP2A	Z	11.13	5
18	MP2A	Mx	-.022	5
19	MP2B	X	23.426	1
20	MP2B	Z	13.525	1
21	MP2B	Mx	.014	1
22	MP2B	X	23.426	5
23	MP2B	Z	13.525	5
24	MP2B	Mx	.014	5
25	MP2C	X	21.219	1
26	MP2C	Z	12.251	1
27	MP2C	Mx	.024	1
28	MP2C	X	21.219	5
29	MP2C	Z	12.251	5
30	MP2C	Mx	.024	5
31	MP2C	X	21.219	1
32	MP2C	Z	12.251	1
33	MP2C	Mx	-.000701	1
34	MP2C	X	21.219	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
35	MP2C	Z	12.251	5
36	MP2C	Mx	-.000701	5
37	MP1A	X	6.606	2
38	MP1A	Z	3.814	2
39	MP1A	Mx	-.005	2
40	MP1A	X	6.606	4
41	MP1A	Z	3.814	4
42	MP1A	Mx	-.005	4
43	MP1B	X	11.424	2
44	MP1B	Z	6.595	2
45	MP1B	Mx	-.002	2
46	MP1B	X	11.424	4
47	MP1B	Z	6.595	4
48	MP1B	Mx	-.002	4
49	MP1C	X	8.86	2
50	MP1C	Z	5.115	2
51	MP1C	Mx	.005	2
52	MP1C	X	8.86	4
53	MP1C	Z	5.115	4
54	MP1C	Mx	.005	4
55	MP3A	X	6.876	1.5
56	MP3A	Z	3.97	1.5
57	MP3A	Mx	.004	1.5
58	MP3B	X	6.876	1.5
59	MP3B	Z	3.97	1.5
60	MP3B	Mx	.004	1.5
61	MP3C	X	6.876	1.5
62	MP3C	Z	3.97	1.5
63	MP3C	Mx	.004	1.5
64	MP2A	X	5.775	1.5
65	MP2A	Z	3.334	1.5
66	MP2A	Mx	.003	1.5
67	MP2B	X	5.775	1.5
68	MP2B	Z	3.334	1.5
69	MP2B	Mx	.003	1.5
70	MP2C	X	5.775	1.5
71	MP2C	Z	3.334	1.5
72	MP2C	Mx	.003	1.5
73	OVP	X	13.054	1
74	OVP	Z	7.536	1
75	OVP	Mx	0	1
76	MP3A	X	7.787	1
77	MP3A	Z	4.496	1
78	MP3A	Mx	-.006	1
79	MP3A	X	7.787	5
80	MP3A	Z	4.496	5
81	MP3A	Mx	-.006	5
82	MP3B	X	11.504	1
83	MP3B	Z	6.642	1
84	MP3B	Mx	-.002	1
85	MP3B	X	11.504	5
86	MP3B	Z	6.642	5
87	MP3B	Mx	-.002	5
88	MP3C	X	9.527	1
89	MP3C	Z	5.5	1
90	MP3C	Mx	.005	1
91	MP3C	X	9.527	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
92	MP3C	Z	5.5	5
93	MP3C	Mx	.005	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	12.793	1
2	MP2A	Z	22.159	1
3	MP2A	Mx	.005	1
4	MP2A	X	12.793	5
5	MP2A	Z	22.159	5
6	MP2A	Mx	.005	5
7	MP2B	X	12.251	1
8	MP2B	Z	21.219	1
9	MP2B	Mx	-.024	1
10	MP2B	X	12.251	5
11	MP2B	Z	21.219	5
12	MP2B	Mx	-.024	5
13	MP2A	X	12.793	1
14	MP2A	Z	22.159	1
15	MP2A	Mx	-.024	1
16	MP2A	X	12.793	5
17	MP2A	Z	22.159	5
18	MP2A	Mx	-.024	5
19	MP2B	X	12.251	1
20	MP2B	Z	21.219	1
21	MP2B	Mx	.000701	1
22	MP2B	X	12.251	5
23	MP2B	Z	21.219	5
24	MP2B	Mx	.000701	5
25	MP2C	X	10.688	1
26	MP2C	Z	18.512	1
27	MP2C	Mx	.02	1
28	MP2C	X	10.688	5
29	MP2C	Z	18.512	5
30	MP2C	Mx	.02	5
31	MP2C	X	10.688	1
32	MP2C	Z	18.512	1
33	MP2C	Mx	.01	1
34	MP2C	X	10.688	5
35	MP2C	Z	18.512	5
36	MP2C	Mx	.01	5
37	MP1A	X	5.746	2
38	MP1A	Z	9.952	2
39	MP1A	Mx	-.004	2
40	MP1A	X	5.746	4
41	MP1A	Z	9.952	4
42	MP1A	Mx	-.004	4
43	MP1B	X	5.115	2
44	MP1B	Z	8.86	2
45	MP1B	Mx	-.005	2
46	MP1B	X	5.115	4
47	MP1B	Z	8.86	4
48	MP1B	Mx	-.005	4
49	MP1C	X	3.3	2
50	MP1C	Z	5.716	2
51	MP1C	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
52	MP1C	X	3.3	4
53	MP1C	Z	5.716	4
54	MP1C	Mx	.005	4
55	MP3A	X	4.63	1.5
56	MP3A	Z	8.02	1.5
57	MP3A	Mx	.004	1.5
58	MP3B	X	4.63	1.5
59	MP3B	Z	8.02	1.5
60	MP3B	Mx	.004	1.5
61	MP3C	X	4.63	1.5
62	MP3C	Z	8.02	1.5
63	MP3C	Mx	.004	1.5
64	MP2A	X	4.246	1.5
65	MP2A	Z	7.354	1.5
66	MP2A	Mx	.003	1.5
67	MP2B	X	4.246	1.5
68	MP2B	Z	7.354	1.5
69	MP2B	Mx	.003	1.5
70	MP2C	X	4.246	1.5
71	MP2C	Z	7.354	1.5
72	MP2C	Mx	.003	1.5
73	OVP	X	8.859	1
74	OVP	Z	15.344	1
75	OVP	Mx	0	1
76	MP3A	X	5.987	1
77	MP3A	Z	10.369	1
78	MP3A	Mx	-.004	1
79	MP3A	X	5.987	5
80	MP3A	Z	10.369	5
81	MP3A	Mx	-.004	5
82	MP3B	X	5.5	1
83	MP3B	Z	9.527	1
84	MP3B	Mx	-.005	1
85	MP3B	X	5.5	5
86	MP3B	Z	9.527	5
87	MP3B	Mx	-.005	5
88	MP3C	X	4.099	1
89	MP3C	Z	7.1	1
90	MP3C	Mx	.006	1
91	MP3C	X	4.099	5
92	MP3C	Z	7.1	5
93	MP3C	Mx	.006	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	27.25	1
3	MP2A	Mx	.018	1
4	MP2A	X	0	5
5	MP2A	Z	27.25	5
6	MP2A	Mx	.018	5
7	MP2B	X	0	1
8	MP2B	Z	21.376	1
9	MP2B	Mx	-.02	1
10	MP2B	X	0	5
11	MP2B	Z	21.376	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
12	MP2B	Mx	-.02	5
13	MP2A	X	0	1
14	MP2A	Z	27.25	1
15	MP2A	Mx	-.018	1
16	MP2A	X	0	5
17	MP2A	Z	27.25	5
18	MP2A	Mx	-.018	5
19	MP2B	X	0	1
20	MP2B	Z	21.376	1
21	MP2B	Mx	-.01	1
22	MP2B	X	0	5
23	MP2B	Z	21.376	5
24	MP2B	Mx	-.01	5
25	MP2C	X	0	1
26	MP2C	Z	20.798	1
27	MP2C	Mx	.013	1
28	MP2C	X	0	5
29	MP2C	Z	20.798	5
30	MP2C	Mx	.013	5
31	MP2C	X	0	1
32	MP2C	Z	20.798	1
33	MP2C	Mx	.018	1
34	MP2C	X	0	5
35	MP2C	Z	20.798	5
36	MP2C	Mx	.018	5
37	MP1A	X	0	2
38	MP1A	Z	13.424	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	13.424	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	6.6	2
45	MP1B	Mx	-.005	2
46	MP1B	X	0	4
47	MP1B	Z	6.6	4
48	MP1B	Mx	-.005	4
49	MP1C	X	0	2
50	MP1C	Z	5.929	2
51	MP1C	Mx	.004	2
52	MP1C	X	0	4
53	MP1C	Z	5.929	4
54	MP1C	Mx	.004	4
55	MP3A	X	0	1.5
56	MP3A	Z	10.882	1.5
57	MP3A	Mx	.002	1.5
58	MP3B	X	0	1.5
59	MP3B	Z	10.882	1.5
60	MP3B	Mx	.002	1.5
61	MP3C	X	0	1.5
62	MP3C	Z	10.882	1.5
63	MP3C	Mx	.002	1.5
64	MP2A	X	0	1.5
65	MP2A	Z	10.728	1.5
66	MP2A	Mx	.002	1.5
67	MP2B	X	0	1.5
68	MP2B	Z	10.728	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
69	MP2B	Mx	.002	1.5
70	MP2C	X	0	1.5
71	MP2C	Z	10.728	1.5
72	MP2C	Mx	.002	1.5
73	OVP	X	0	1
74	OVP	Z	20.962	1
75	OVP	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	13.464	1
78	MP3A	Mx	0	1
79	MP3A	X	0	5
80	MP3A	Z	13.464	5
81	MP3A	Mx	0	5
82	MP3B	X	0	1
83	MP3B	Z	8.199	1
84	MP3B	Mx	-.006	1
85	MP3B	X	0	5
86	MP3B	Z	8.199	5
87	MP3B	Mx	-.006	5
88	MP3C	X	0	1
89	MP3C	Z	7.681	1
90	MP3C	Mx	.006	1
91	MP3C	X	0	5
92	MP3C	Z	7.681	5
93	MP3C	Mx	.006	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-12.793	1
2	MP2A	Z	22.159	1
3	MP2A	Mx	.024	1
4	MP2A	X	-12.793	5
5	MP2A	Z	22.159	5
6	MP2A	Mx	.024	5
7	MP2B	X	-10.399	1
8	MP2B	Z	18.012	1
9	MP2B	Mx	-.013	1
10	MP2B	X	-10.399	5
11	MP2B	Z	18.012	5
12	MP2B	Mx	-.013	5
13	MP2A	X	-12.793	1
14	MP2A	Z	22.159	1
15	MP2A	Mx	-.005	1
16	MP2A	X	-12.793	5
17	MP2A	Z	22.159	5
18	MP2A	Mx	-.005	5
19	MP2B	X	-10.399	1
20	MP2B	Z	18.012	1
21	MP2B	Mx	-.018	1
22	MP2B	X	-10.399	5
23	MP2B	Z	18.012	5
24	MP2B	Mx	-.018	5
25	MP2C	X	-11.673	1
26	MP2C	Z	20.219	1
27	MP2C	Mx	.003	1
28	MP2C	X	-11.673	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
29	MP2C	Z	20.219	5
30	MP2C	Mx	.003	5
31	MP2C	X	-11.673	1
32	MP2C	Z	20.219	1
33	MP2C	Mx	.023	1
34	MP2C	X	-11.673	5
35	MP2C	Z	20.219	5
36	MP2C	Mx	.023	5
37	MP1A	X	-5.746	2
38	MP1A	Z	9.952	2
39	MP1A	Mx	.004	2
40	MP1A	X	-5.746	4
41	MP1A	Z	9.952	4
42	MP1A	Mx	.004	4
43	MP1B	X	-2.964	2
44	MP1B	Z	5.135	2
45	MP1B	Mx	-.004	2
46	MP1B	X	-2.964	4
47	MP1B	Z	5.135	4
48	MP1B	Mx	-.004	4
49	MP1C	X	-4.444	2
50	MP1C	Z	7.698	2
51	MP1C	Mx	.005	2
52	MP1C	X	-4.444	4
53	MP1C	Z	7.698	4
54	MP1C	Mx	.005	4
55	MP3A	X	-5.591	1.5
56	MP3A	Z	9.683	1.5
57	MP3A	Mx	-.000971	1.5
58	MP3B	X	-5.591	1.5
59	MP3B	Z	9.683	1.5
60	MP3B	Mx	-.000971	1.5
61	MP3C	X	-5.591	1.5
62	MP3C	Z	9.683	1.5
63	MP3C	Mx	-.000971	1.5
64	MP2A	X	-5.571	1.5
65	MP2A	Z	9.649	1.5
66	MP2A	Mx	-.000967	1.5
67	MP2B	X	-5.571	1.5
68	MP2B	Z	9.649	1.5
69	MP2B	Mx	-.000967	1.5
70	MP2C	X	-5.571	1.5
71	MP2C	Z	9.649	1.5
72	MP2C	Mx	-.000967	1.5
73	OVP	X	-10.781	1
74	OVP	Z	18.673	1
75	OVP	Mx	0	1
76	MP3A	X	-5.987	1
77	MP3A	Z	10.369	1
78	MP3A	Mx	.004	1
79	MP3A	X	-5.987	5
80	MP3A	Z	10.369	5
81	MP3A	Mx	.004	5
82	MP3B	X	-3.84	1
83	MP3B	Z	6.652	1
84	MP3B	Mx	-.006	1
85	MP3B	X	-3.84	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
86	MP3B	Z	6.652	5
87	MP3B	Mx	-.006	5
88	MP3C	X	-4.982	1
89	MP3C	Z	8.63	1
90	MP3C	Mx	.006	1
91	MP3C	X	-4.982	5
92	MP3C	Z	8.63	5
93	MP3C	Mx	.006	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-19.278	1
2	MP2A	Z	11.13	1
3	MP2A	Mx	.022	1
4	MP2A	X	-19.278	5
5	MP2A	Z	11.13	5
6	MP2A	Mx	.022	5
7	MP2B	X	-20.219	1
8	MP2B	Z	11.673	1
9	MP2B	Mx	-.003	1
10	MP2B	X	-20.219	5
11	MP2B	Z	11.673	5
12	MP2B	Mx	-.003	5
13	MP2A	X	-19.278	1
14	MP2A	Z	11.13	1
15	MP2A	Mx	.007	1
16	MP2A	X	-19.278	5
17	MP2A	Z	11.13	5
18	MP2A	Mx	.007	5
19	MP2B	X	-20.219	1
20	MP2B	Z	11.673	1
21	MP2B	Mx	-.023	1
22	MP2B	X	-20.219	5
23	MP2B	Z	11.673	5
24	MP2B	Mx	-.023	5
25	MP2C	X	-22.925	1
26	MP2C	Z	13.236	1
27	MP2C	Mx	-.01	1
28	MP2C	X	-22.925	5
29	MP2C	Z	13.236	5
30	MP2C	Mx	-.01	5
31	MP2C	X	-22.925	1
32	MP2C	Z	13.236	1
33	MP2C	Mx	.023	1
34	MP2C	X	-22.925	5
35	MP2C	Z	13.236	5
36	MP2C	Mx	.023	5
37	MP1A	X	-6.606	2
38	MP1A	Z	3.814	2
39	MP1A	Mx	.005	2
40	MP1A	X	-6.606	4
41	MP1A	Z	3.814	4
42	MP1A	Mx	.005	4
43	MP1B	X	-7.698	2
44	MP1B	Z	4.444	2
45	MP1B	Mx	-.005	2

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
46	MP1B	X	-7.698	4
47	MP1B	Z	4.444	4
48	MP1B	Mx	-.005	4
49	MP1C	X	-10.842	2
50	MP1C	Z	6.26	2
51	MP1C	Mx	.003	2
52	MP1C	X	-10.842	4
53	MP1C	Z	6.26	4
54	MP1C	Mx	.003	4
55	MP3A	X	-8.539	1.5
56	MP3A	Z	4.93	1.5
57	MP3A	Mx	-.003	1.5
58	MP3B	X	-8.539	1.5
59	MP3B	Z	4.93	1.5
60	MP3B	Mx	-.003	1.5
61	MP3C	X	-8.539	1.5
62	MP3C	Z	4.93	1.5
63	MP3C	Mx	-.003	1.5
64	MP2A	X	-8.07	1.5
65	MP2A	Z	4.659	1.5
66	MP2A	Mx	-.003	1.5
67	MP2B	X	-8.07	1.5
68	MP2B	Z	4.659	1.5
69	MP2B	Mx	-.003	1.5
70	MP2C	X	-8.07	1.5
71	MP2C	Z	4.659	1.5
72	MP2C	Mx	-.003	1.5
73	OVP	X	-16.382	1
74	OVP	Z	9.458	1
75	OVP	Mx	0	1
76	MP3A	X	-7.787	1
77	MP3A	Z	4.496	1
78	MP3A	Mx	.006	1
79	MP3A	X	-7.787	5
80	MP3A	Z	4.496	5
81	MP3A	Mx	.006	5
82	MP3B	X	-8.63	1
83	MP3B	Z	4.982	1
84	MP3B	Mx	-.006	1
85	MP3B	X	-8.63	5
86	MP3B	Z	4.982	5
87	MP3B	Mx	-.006	5
88	MP3C	X	-11.056	1
89	MP3C	Z	6.383	1
90	MP3C	Mx	.003	1
91	MP3C	X	-11.056	5
92	MP3C	Z	6.383	5
93	MP3C	Mx	.003	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-20.598	1
2	MP2A	Z	0	1
3	MP2A	Mx	.015	1
4	MP2A	X	-20.598	5
5	MP2A	Z	0	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
6	MP2A	Mx	.015	5
7	MP2B	X	-26.472	1
8	MP2B	Z	0	1
9	MP2B	Mx	.01	1
10	MP2B	X	-26.472	5
11	MP2B	Z	0	5
12	MP2B	Mx	.01	5
13	MP2A	X	-20.598	1
14	MP2A	Z	0	1
15	MP2A	Mx	.015	1
16	MP2A	X	-20.598	5
17	MP2A	Z	0	5
18	MP2A	Mx	.015	5
19	MP2B	X	-26.472	1
20	MP2B	Z	0	1
21	MP2B	Mx	-.023	1
22	MP2B	X	-26.472	5
23	MP2B	Z	0	5
24	MP2B	Mx	-.023	5
25	MP2C	X	-27.049	1
26	MP2C	Z	0	1
27	MP2C	Mx	-.021	1
28	MP2C	X	-27.049	5
29	MP2C	Z	0	5
30	MP2C	Mx	-.021	5
31	MP2C	X	-27.049	1
32	MP2C	Z	0	1
33	MP2C	Mx	.014	1
34	MP2C	X	-27.049	5
35	MP2C	Z	0	5
36	MP2C	Mx	.014	5
37	MP1A	X	-5.696	2
38	MP1A	Z	0	2
39	MP1A	Mx	.004	2
40	MP1A	X	-5.696	4
41	MP1A	Z	0	4
42	MP1A	Mx	.004	4
43	MP1B	X	-12.52	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.003	2
46	MP1B	X	-12.52	4
47	MP1B	Z	0	4
48	MP1B	Mx	-.003	4
49	MP1C	X	-13.191	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.002	2
52	MP1C	X	-13.191	4
53	MP1C	Z	0	4
54	MP1C	Mx	-.002	4
55	MP3A	X	-8.239	1.5
56	MP3A	Z	0	1.5
57	MP3A	Mx	-.004	1.5
58	MP3B	X	-8.239	1.5
59	MP3B	Z	0	1.5
60	MP3B	Mx	-.004	1.5
61	MP3C	X	-8.239	1.5
62	MP3C	Z	0	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
63	MP3C	Mx	-.004	1.5
64	MP2A	X	-7.082	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	-.003	1.5
67	MP2B	X	-7.082	1.5
68	MP2B	Z	0	1.5
69	MP2B	Mx	-.003	1.5
70	MP2C	X	-7.082	1.5
71	MP2C	Z	0	1.5
72	MP2C	Mx	-.003	1.5
73	OVP	X	-15.672	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP3A	X	-7.501	1
77	MP3A	Z	0	1
78	MP3A	Mx	.006	1
79	MP3A	X	-7.501	5
80	MP3A	Z	0	5
81	MP3A	Mx	.006	5
82	MP3B	X	-12.766	1
83	MP3B	Z	0	1
84	MP3B	Mx	-.003	1
85	MP3B	X	-12.766	5
86	MP3B	Z	0	5
87	MP3B	Mx	-.003	5
88	MP3C	X	-13.284	1
89	MP3C	Z	0	1
90	MP3C	Mx	-.002	1
91	MP3C	X	-13.284	5
92	MP3C	Z	0	5
93	MP3C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-19.278	1
2	MP2A	Z	-11.13	1
3	MP2A	Mx	.007	1
4	MP2A	X	-19.278	5
5	MP2A	Z	-11.13	5
6	MP2A	Mx	.007	5
7	MP2B	X	-23.426	1
8	MP2B	Z	-13.525	1
9	MP2B	Mx	.021	1
10	MP2B	X	-23.426	5
11	MP2B	Z	-13.525	5
12	MP2B	Mx	.021	5
13	MP2A	X	-19.278	1
14	MP2A	Z	-11.13	1
15	MP2A	Mx	.022	1
16	MP2A	X	-19.278	5
17	MP2A	Z	-11.13	5
18	MP2A	Mx	.022	5
19	MP2B	X	-23.426	1
20	MP2B	Z	-13.525	1
21	MP2B	Mx	-.014	1
22	MP2B	X	-23.426	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
23	MP2B	Z	-13.525	5
24	MP2B	Mx	-.014	5
25	MP2C	X	-21.219	1
26	MP2C	Z	-12.251	1
27	MP2C	Mx	-.024	1
28	MP2C	X	-21.219	5
29	MP2C	Z	-12.251	5
30	MP2C	Mx	-.024	5
31	MP2C	X	-21.219	1
32	MP2C	Z	-12.251	1
33	MP2C	Mx	.000701	1
34	MP2C	X	-21.219	5
35	MP2C	Z	-12.251	5
36	MP2C	Mx	.000701	5
37	MP1A	X	-6.606	2
38	MP1A	Z	-3.814	2
39	MP1A	Mx	.005	2
40	MP1A	X	-6.606	4
41	MP1A	Z	-3.814	4
42	MP1A	Mx	.005	4
43	MP1B	X	-11.424	2
44	MP1B	Z	-6.595	2
45	MP1B	Mx	.002	2
46	MP1B	X	-11.424	4
47	MP1B	Z	-6.595	4
48	MP1B	Mx	.002	4
49	MP1C	X	-8.86	2
50	MP1C	Z	-5.115	2
51	MP1C	Mx	-.005	2
52	MP1C	X	-8.86	4
53	MP1C	Z	-5.115	4
54	MP1C	Mx	-.005	4
55	MP3A	X	-6.876	1.5
56	MP3A	Z	-3.97	1.5
57	MP3A	Mx	-.004	1.5
58	MP3B	X	-6.876	1.5
59	MP3B	Z	-3.97	1.5
60	MP3B	Mx	-.004	1.5
61	MP3C	X	-6.876	1.5
62	MP3C	Z	-3.97	1.5
63	MP3C	Mx	-.004	1.5
64	MP2A	X	-5.775	1.5
65	MP2A	Z	-3.334	1.5
66	MP2A	Mx	-.003	1.5
67	MP2B	X	-5.775	1.5
68	MP2B	Z	-3.334	1.5
69	MP2B	Mx	-.003	1.5
70	MP2C	X	-5.775	1.5
71	MP2C	Z	-3.334	1.5
72	MP2C	Mx	-.003	1.5
73	OVP	X	-13.054	1
74	OVP	Z	-7.536	1
75	OVP	Mx	0	1
76	MP3A	X	-7.787	1
77	MP3A	Z	-4.496	1
78	MP3A	Mx	.006	1
79	MP3A	X	-7.787	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
80	MP3A	Z	-4.496	5
81	MP3A	Mx	.006	5
82	MP3B	X	-11.504	1
83	MP3B	Z	-6.642	1
84	MP3B	Mx	.002	1
85	MP3B	X	-11.504	5
86	MP3B	Z	-6.642	5
87	MP3B	Mx	.002	5
88	MP3C	X	-9.527	1
89	MP3C	Z	-5.5	1
90	MP3C	Mx	-.005	1
91	MP3C	X	-9.527	5
92	MP3C	Z	-5.5	5
93	MP3C	Mx	-.005	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-12.793	1
2	MP2A	Z	-22.159	1
3	MP2A	Mx	-.005	1
4	MP2A	X	-12.793	5
5	MP2A	Z	-22.159	5
6	MP2A	Mx	-.005	5
7	MP2B	X	-12.251	1
8	MP2B	Z	-21.219	1
9	MP2B	Mx	.024	1
10	MP2B	X	-12.251	5
11	MP2B	Z	-21.219	5
12	MP2B	Mx	.024	5
13	MP2A	X	-12.793	1
14	MP2A	Z	-22.159	1
15	MP2A	Mx	.024	1
16	MP2A	X	-12.793	5
17	MP2A	Z	-22.159	5
18	MP2A	Mx	.024	5
19	MP2B	X	-12.251	1
20	MP2B	Z	-21.219	1
21	MP2B	Mx	-.000701	1
22	MP2B	X	-12.251	5
23	MP2B	Z	-21.219	5
24	MP2B	Mx	-.000701	5
25	MP2C	X	-10.688	1
26	MP2C	Z	-18.512	1
27	MP2C	Mx	-.02	1
28	MP2C	X	-10.688	5
29	MP2C	Z	-18.512	5
30	MP2C	Mx	-.02	5
31	MP2C	X	-10.688	1
32	MP2C	Z	-18.512	1
33	MP2C	Mx	-.01	1
34	MP2C	X	-10.688	5
35	MP2C	Z	-18.512	5
36	MP2C	Mx	-.01	5
37	MP1A	X	-5.746	2
38	MP1A	Z	-9.952	2
39	MP1A	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
40	MP1A	X	-5.746	4
41	MP1A	Z	-9.952	4
42	MP1A	Mx	.004	4
43	MP1B	X	-5.115	2
44	MP1B	Z	-8.86	2
45	MP1B	Mx	.005	2
46	MP1B	X	-5.115	4
47	MP1B	Z	-8.86	4
48	MP1B	Mx	.005	4
49	MP1C	X	-3.3	2
50	MP1C	Z	-5.716	2
51	MP1C	Mx	-.005	2
52	MP1C	X	-3.3	4
53	MP1C	Z	-5.716	4
54	MP1C	Mx	-.005	4
55	MP3A	X	-4.63	1.5
56	MP3A	Z	-8.02	1.5
57	MP3A	Mx	-.004	1.5
58	MP3B	X	-4.63	1.5
59	MP3B	Z	-8.02	1.5
60	MP3B	Mx	-.004	1.5
61	MP3C	X	-4.63	1.5
62	MP3C	Z	-8.02	1.5
63	MP3C	Mx	-.004	1.5
64	MP2A	X	-4.246	1.5
65	MP2A	Z	-7.354	1.5
66	MP2A	Mx	-.003	1.5
67	MP2B	X	-4.246	1.5
68	MP2B	Z	-7.354	1.5
69	MP2B	Mx	-.003	1.5
70	MP2C	X	-4.246	1.5
71	MP2C	Z	-7.354	1.5
72	MP2C	Mx	-.003	1.5
73	OVP	X	-8.859	1
74	OVP	Z	-15.344	1
75	OVP	Mx	0	1
76	MP3A	X	-5.987	1
77	MP3A	Z	-10.369	1
78	MP3A	Mx	.004	1
79	MP3A	X	-5.987	5
80	MP3A	Z	-10.369	5
81	MP3A	Mx	.004	5
82	MP3B	X	-5.5	1
83	MP3B	Z	-9.527	1
84	MP3B	Mx	.005	1
85	MP3B	X	-5.5	5
86	MP3B	Z	-9.527	5
87	MP3B	Mx	.005	5
88	MP3C	X	-4.099	1
89	MP3C	Z	-7.1	1
90	MP3C	Mx	-.006	1
91	MP3C	X	-4.099	5
92	MP3C	Z	-7.1	5
93	MP3C	Mx	-.006	5

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

Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	-9.031	1
3	MP2A	Mx	-.006	1
4	MP2A	X	0	5
5	MP2A	Z	-9.031	5
6	MP2A	Mx	-.006	5
7	MP2B	X	0	1
8	MP2B	Z	-6.986	1
9	MP2B	Mx	.007	1
10	MP2B	X	0	5
11	MP2B	Z	-6.986	5
12	MP2B	Mx	.007	5
13	MP2A	X	0	1
14	MP2A	Z	-9.031	1
15	MP2A	Mx	.006	1
16	MP2A	X	0	5
17	MP2A	Z	-9.031	5
18	MP2A	Mx	.006	5
19	MP2B	X	0	1
20	MP2B	Z	-6.986	1
21	MP2B	Mx	.003	1
22	MP2B	X	0	5
23	MP2B	Z	-6.986	5
24	MP2B	Mx	.003	5
25	MP2C	X	0	1
26	MP2C	Z	-6.784	1
27	MP2C	Mx	-.004	1
28	MP2C	X	0	5
29	MP2C	Z	-6.784	5
30	MP2C	Mx	-.004	5
31	MP2C	X	0	1
32	MP2C	Z	-6.784	1
33	MP2C	Mx	-.006	1
34	MP2C	X	0	5
35	MP2C	Z	-6.784	5
36	MP2C	Mx	-.006	5
37	MP1A	X	0	2
38	MP1A	Z	-4.301	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	-4.301	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	-1.99	2
45	MP1B	Mx	.001	2
46	MP1B	X	0	4
47	MP1B	Z	-1.99	4
48	MP1B	Mx	.001	4
49	MP1C	X	0	2
50	MP1C	Z	-1.763	2
51	MP1C	Mx	-.001	2
52	MP1C	X	0	4
53	MP1C	Z	-1.763	4
54	MP1C	Mx	-.001	4
55	MP3A	X	0	1.5
56	MP3A	Z	-3.289	1.5
57	MP3A	Mx	-.000562	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
58	MP3B	X	0	1.5
59	MP3B	Z	-3.289	1.5
60	MP3B	Mx	-.000562	1.5
61	MP3C	X	0	1.5
62	MP3C	Z	-3.289	1.5
63	MP3C	Mx	-.000562	1.5
64	MP2A	X	0	1.5
65	MP2A	Z	-3.239	1.5
66	MP2A	Mx	-.000554	1.5
67	MP2B	X	0	1.5
68	MP2B	Z	-3.239	1.5
69	MP2B	Mx	-.000554	1.5
70	MP2C	X	0	1.5
71	MP2C	Z	-3.239	1.5
72	MP2C	Mx	-.000554	1.5
73	OVP	X	0	1
74	OVP	Z	-6.662	1
75	OVP	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	-4.31	1
78	MP3A	Mx	0	1
79	MP3A	X	0	5
80	MP3A	Z	-4.31	5
81	MP3A	Mx	0	5
82	MP3B	X	0	1
83	MP3B	Z	-2.468	1
84	MP3B	Mx	.002	1
85	MP3B	X	0	5
86	MP3B	Z	-2.468	5
87	MP3B	Mx	.002	5
88	MP3C	X	0	1
89	MP3C	Z	-2.287	1
90	MP3C	Mx	-.002	1
91	MP3C	X	0	5
92	MP3C	Z	-2.287	5
93	MP3C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	4.226	1
2	MP2A	Z	-7.32	1
3	MP2A	Mx	-.008	1
4	MP2A	X	4.226	5
5	MP2A	Z	-7.32	5
6	MP2A	Mx	-.008	5
7	MP2B	X	3.392	1
8	MP2B	Z	-5.875	1
9	MP2B	Mx	.004	1
10	MP2B	X	3.392	5
11	MP2B	Z	-5.875	5
12	MP2B	Mx	.004	5
13	MP2A	X	4.226	1
14	MP2A	Z	-7.32	1
15	MP2A	Mx	.002	1
16	MP2A	X	4.226	5
17	MP2A	Z	-7.32	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
18	MP2A	Mx	.002	5
19	MP2B	X	3.392	1
20	MP2B	Z	-5.875	1
21	MP2B	Mx	.006	1
22	MP2B	X	3.392	5
23	MP2B	Z	-5.875	5
24	MP2B	Mx	.006	5
25	MP2C	X	3.836	1
26	MP2C	Z	-6.644	1
27	MP2C	Mx	-.001	1
28	MP2C	X	3.836	5
29	MP2C	Z	-6.644	5
30	MP2C	Mx	-.001	5
31	MP2C	X	3.836	1
32	MP2C	Z	-6.644	1
33	MP2C	Mx	-.008	1
34	MP2C	X	3.836	5
35	MP2C	Z	-6.644	5
36	MP2C	Mx	-.008	5
37	MP1A	X	1.823	2
38	MP1A	Z	-3.158	2
39	MP1A	Mx	-.001	2
40	MP1A	X	1.823	4
41	MP1A	Z	-3.158	4
42	MP1A	Mx	-.001	4
43	MP1B	X	.881	2
44	MP1B	Z	-1.526	2
45	MP1B	Mx	.001	2
46	MP1B	X	.881	4
47	MP1B	Z	-1.526	4
48	MP1B	Mx	.001	4
49	MP1C	X	1.382	2
50	MP1C	Z	-2.395	2
51	MP1C	Mx	-.002	2
52	MP1C	X	1.382	4
53	MP1C	Z	-2.395	4
54	MP1C	Mx	-.002	4
55	MP3A	X	1.694	1.5
56	MP3A	Z	-2.934	1.5
57	MP3A	Mx	.000294	1.5
58	MP3B	X	1.694	1.5
59	MP3B	Z	-2.934	1.5
60	MP3B	Mx	.000294	1.5
61	MP3C	X	1.694	1.5
62	MP3C	Z	-2.934	1.5
63	MP3C	Mx	.000294	1.5
64	MP2A	X	1.687	1.5
65	MP2A	Z	-2.923	1.5
66	MP2A	Mx	.000293	1.5
67	MP2B	X	1.687	1.5
68	MP2B	Z	-2.923	1.5
69	MP2B	Mx	.000293	1.5
70	MP2C	X	1.687	1.5
71	MP2C	Z	-2.923	1.5
72	MP2C	Mx	.000293	1.5
73	OVP	X	3.433	1
74	OVP	Z	-5.945	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
75	OVP	Mx	0	1
76	MP3A	X	1.894	1
77	MP3A	Z	-3.281	1
78	MP3A	Mx	-.001	1
79	MP3A	X	1.894	5
80	MP3A	Z	-3.281	5
81	MP3A	Mx	-.001	5
82	MP3B	X	1.144	1
83	MP3B	Z	-1.981	1
84	MP3B	Mx	.002	1
85	MP3B	X	1.144	5
86	MP3B	Z	-1.981	5
87	MP3B	Mx	.002	5
88	MP3C	X	1.543	1
89	MP3C	Z	-2.673	1
90	MP3C	Mx	-.002	1
91	MP3C	X	1.543	5
92	MP3C	Z	-2.673	5
93	MP3C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	6.317	1
2	MP2A	Z	-3.647	1
3	MP2A	Mx	-.007	1
4	MP2A	X	6.317	5
5	MP2A	Z	-3.647	5
6	MP2A	Mx	-.007	5
7	MP2B	X	6.644	1
8	MP2B	Z	-3.836	1
9	MP2B	Mx	.001	1
10	MP2B	X	6.644	5
11	MP2B	Z	-3.836	5
12	MP2B	Mx	.001	5
13	MP2A	X	6.317	1
14	MP2A	Z	-3.647	1
15	MP2A	Mx	-.002	1
16	MP2A	X	6.317	5
17	MP2A	Z	-3.647	5
18	MP2A	Mx	-.002	5
19	MP2B	X	6.644	1
20	MP2B	Z	-3.836	1
21	MP2B	Mx	.008	1
22	MP2B	X	6.644	5
23	MP2B	Z	-3.836	5
24	MP2B	Mx	.008	5
25	MP2C	X	7.587	1
26	MP2C	Z	-4.38	1
27	MP2C	Mx	.003	1
28	MP2C	X	7.587	5
29	MP2C	Z	-4.38	5
30	MP2C	Mx	.003	5
31	MP2C	X	7.587	1
32	MP2C	Z	-4.38	1
33	MP2C	Mx	-.008	1
34	MP2C	X	7.587	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
35	MP2C	Z	-4.38	5
36	MP2C	Mx	-.008	5
37	MP1A	X	2.025	2
38	MP1A	Z	-1.169	2
39	MP1A	Mx	-.002	2
40	MP1A	X	2.025	4
41	MP1A	Z	-1.169	4
42	MP1A	Mx	-.002	4
43	MP1B	X	2.395	2
44	MP1B	Z	-1.382	2
45	MP1B	Mx	.002	2
46	MP1B	X	2.395	4
47	MP1B	Z	-1.382	4
48	MP1B	Mx	.002	4
49	MP1C	X	3.459	2
50	MP1C	Z	-1.997	2
51	MP1C	Mx	-.001	2
52	MP1C	X	3.459	4
53	MP1C	Z	-1.997	4
54	MP1C	Mx	-.001	4
55	MP3A	X	2.558	1.5
56	MP3A	Z	-1.477	1.5
57	MP3A	Mx	.000949	1.5
58	MP3B	X	2.558	1.5
59	MP3B	Z	-1.477	1.5
60	MP3B	Mx	.000949	1.5
61	MP3C	X	2.558	1.5
62	MP3C	Z	-1.477	1.5
63	MP3C	Mx	.000949	1.5
64	MP2A	X	2.402	1.5
65	MP2A	Z	-1.387	1.5
66	MP2A	Mx	.000891	1.5
67	MP2B	X	2.402	1.5
68	MP2B	Z	-1.387	1.5
69	MP2B	Mx	.000891	1.5
70	MP2C	X	2.402	1.5
71	MP2C	Z	-1.387	1.5
72	MP2C	Mx	.000891	1.5
73	OVP	X	5.168	1
74	OVP	Z	-2.984	1
75	OVP	Mx	0	1
76	MP3A	X	2.378	1
77	MP3A	Z	-1.373	1
78	MP3A	Mx	-.002	1
79	MP3A	X	2.378	5
80	MP3A	Z	-1.373	5
81	MP3A	Mx	-.002	5
82	MP3B	X	2.673	1
83	MP3B	Z	-1.543	1
84	MP3B	Mx	.002	1
85	MP3B	X	2.673	5
86	MP3B	Z	-1.543	5
87	MP3B	Mx	.002	5
88	MP3C	X	3.521	1
89	MP3C	Z	-2.033	1
90	MP3C	Mx	-.001	1
91	MP3C	X	3.521	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
92	MP3C	Z	-2.033	5
93	MP3C	Mx	-.001	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	6.714	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.005	1
4	MP2A	X	6.714	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.005	5
7	MP2B	X	8.76	1
8	MP2B	Z	0	1
9	MP2B	Mx	-.003	1
10	MP2B	X	8.76	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.003	5
13	MP2A	X	6.714	1
14	MP2A	Z	0	1
15	MP2A	Mx	-.005	1
16	MP2A	X	6.714	5
17	MP2A	Z	0	5
18	MP2A	Mx	-.005	5
19	MP2B	X	8.76	1
20	MP2B	Z	0	1
21	MP2B	Mx	.008	1
22	MP2B	X	8.76	5
23	MP2B	Z	0	5
24	MP2B	Mx	.008	5
25	MP2C	X	8.962	1
26	MP2C	Z	0	1
27	MP2C	Mx	.007	1
28	MP2C	X	8.962	5
29	MP2C	Z	0	5
30	MP2C	Mx	.007	5
31	MP2C	X	8.962	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.005	1
34	MP2C	X	8.962	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.005	5
37	MP1A	X	1.684	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.001	2
40	MP1A	X	1.684	4
41	MP1A	Z	0	4
42	MP1A	Mx	-.001	4
43	MP1B	X	3.995	2
44	MP1B	Z	0	2
45	MP1B	Mx	.001	2
46	MP1B	X	3.995	4
47	MP1B	Z	0	4
48	MP1B	Mx	.001	4
49	MP1C	X	4.222	2
50	MP1C	Z	0	2
51	MP1C	Mx	.00055	2

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
52	MP1C	X	4.222	4
53	MP1C	Z	0	4
54	MP1C	Mx	.00055	4
55	MP3A	X	2.42	1.5
56	MP3A	Z	0	1.5
57	MP3A	Mx	.001	1.5
58	MP3B	X	2.42	1.5
59	MP3B	Z	0	1.5
60	MP3B	Mx	.001	1.5
61	MP3C	X	2.42	1.5
62	MP3C	Z	0	1.5
63	MP3C	Mx	.001	1.5
64	MP2A	X	2.037	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	.000957	1.5
67	MP2B	X	2.037	1.5
68	MP2B	Z	0	1.5
69	MP2B	Mx	.000957	1.5
70	MP2C	X	2.037	1.5
71	MP2C	Z	0	1.5
72	MP2C	Mx	.000957	1.5
73	OVP	X	4.865	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP3A	X	2.224	1
77	MP3A	Z	0	1
78	MP3A	Mx	-.002	1
79	MP3A	X	2.224	5
80	MP3A	Z	0	5
81	MP3A	Mx	-.002	5
82	MP3B	X	4.066	1
83	MP3B	Z	0	1
84	MP3B	Mx	.001	1
85	MP3B	X	4.066	5
86	MP3B	Z	0	5
87	MP3B	Mx	.001	5
88	MP3C	X	4.247	1
89	MP3C	Z	0	1
90	MP3C	Mx	.000553	1
91	MP3C	X	4.247	5
92	MP3C	Z	0	5
93	MP3C	Mx	.000553	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	6.317	1
2	MP2A	Z	3.647	1
3	MP2A	Mx	-.002	1
4	MP2A	X	6.317	5
5	MP2A	Z	3.647	5
6	MP2A	Mx	-.002	5
7	MP2B	X	7.761	1
8	MP2B	Z	4.481	1
9	MP2B	Mx	-.007	1
10	MP2B	X	7.761	5
11	MP2B	Z	4.481	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
12	MP2B	Mx	-.007	5
13	MP2A	X	6.317	1
14	MP2A	Z	3.647	1
15	MP2A	Mx	-.007	1
16	MP2A	X	6.317	5
17	MP2A	Z	3.647	5
18	MP2A	Mx	-.007	5
19	MP2B	X	7.761	1
20	MP2B	Z	4.481	1
21	MP2B	Mx	.005	1
22	MP2B	X	7.761	5
23	MP2B	Z	4.481	5
24	MP2B	Mx	.005	5
25	MP2C	X	6.992	1
26	MP2C	Z	4.037	1
27	MP2C	Mx	.008	1
28	MP2C	X	6.992	5
29	MP2C	Z	4.037	5
30	MP2C	Mx	.008	5
31	MP2C	X	6.992	1
32	MP2C	Z	4.037	1
33	MP2C	Mx	-.000231	1
34	MP2C	X	6.992	5
35	MP2C	Z	4.037	5
36	MP2C	Mx	-.000231	5
37	MP1A	X	2.025	2
38	MP1A	Z	1.169	2
39	MP1A	Mx	-.002	2
40	MP1A	X	2.025	4
41	MP1A	Z	1.169	4
42	MP1A	Mx	-.002	4
43	MP1B	X	3.656	2
44	MP1B	Z	2.111	2
45	MP1B	Mx	-.00055	2
46	MP1B	X	3.656	4
47	MP1B	Z	2.111	4
48	MP1B	Mx	-.00055	4
49	MP1C	X	2.788	2
50	MP1C	Z	1.61	2
51	MP1C	Mx	.002	2
52	MP1C	X	2.788	4
53	MP1C	Z	1.61	4
54	MP1C	Mx	.002	4
55	MP3A	X	2.011	1.5
56	MP3A	Z	1.161	1.5
57	MP3A	Mx	.001	1.5
58	MP3B	X	2.011	1.5
59	MP3B	Z	1.161	1.5
60	MP3B	Mx	.001	1.5
61	MP3C	X	2.011	1.5
62	MP3C	Z	1.161	1.5
63	MP3C	Mx	.001	1.5
64	MP2A	X	1.646	1.5
65	MP2A	Z	.95	1.5
66	MP2A	Mx	.000936	1.5
67	MP2B	X	1.646	1.5
68	MP2B	Z	.95	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
69	MP2B	Mx	.000936	1.5
70	MP2C	X	1.646	1.5
71	MP2C	Z	.95	1.5
72	MP2C	Mx	.000936	1.5
73	OVP	X	4.037	1
74	OVP	Z	2.331	1
75	OVP	Mx	0	1
76	MP3A	X	2.378	1
77	MP3A	Z	1.373	1
78	MP3A	Mx	-.002	1
79	MP3A	X	2.378	5
80	MP3A	Z	1.373	5
81	MP3A	Mx	-.002	5
82	MP3B	X	3.678	1
83	MP3B	Z	2.123	1
84	MP3B	Mx	-.000553	1
85	MP3B	X	3.678	5
86	MP3B	Z	2.123	5
87	MP3B	Mx	-.000553	5
88	MP3C	X	2.986	1
89	MP3C	Z	1.724	1
90	MP3C	Mx	.002	1
91	MP3C	X	2.986	5
92	MP3C	Z	1.724	5
93	MP3C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	4.226	1
2	MP2A	Z	7.32	1
3	MP2A	Mx	.002	1
4	MP2A	X	4.226	5
5	MP2A	Z	7.32	5
6	MP2A	Mx	.002	5
7	MP2B	X	4.037	1
8	MP2B	Z	6.992	1
9	MP2B	Mx	-.008	1
10	MP2B	X	4.037	5
11	MP2B	Z	6.992	5
12	MP2B	Mx	-.008	5
13	MP2A	X	4.226	1
14	MP2A	Z	7.32	1
15	MP2A	Mx	-.008	1
16	MP2A	X	4.226	5
17	MP2A	Z	7.32	5
18	MP2A	Mx	-.008	5
19	MP2B	X	4.037	1
20	MP2B	Z	6.992	1
21	MP2B	Mx	.000231	1
22	MP2B	X	4.037	5
23	MP2B	Z	6.992	5
24	MP2B	Mx	.000231	5
25	MP2C	X	3.493	1
26	MP2C	Z	6.05	1
27	MP2C	Mx	.007	1
28	MP2C	X	3.493	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
29	MP2C	Z	6.05	5
30	MP2C	Mx	.007	5
31	MP2C	X	3.493	1
32	MP2C	Z	6.05	1
33	MP2C	Mx	.003	1
34	MP2C	X	3.493	5
35	MP2C	Z	6.05	5
36	MP2C	Mx	.003	5
37	MP1A	X	1.823	2
38	MP1A	Z	3.158	2
39	MP1A	Mx	-.001	2
40	MP1A	X	1.823	4
41	MP1A	Z	3.158	4
42	MP1A	Mx	-.001	4
43	MP1B	X	1.61	2
44	MP1B	Z	2.788	2
45	MP1B	Mx	-.002	2
46	MP1B	X	1.61	4
47	MP1B	Z	2.788	4
48	MP1B	Mx	-.002	4
49	MP1C	X	.995	2
50	MP1C	Z	1.723	2
51	MP1C	Mx	.001	2
52	MP1C	X	.995	4
53	MP1C	Z	1.723	4
54	MP1C	Mx	.001	4
55	MP3A	X	1.378	1.5
56	MP3A	Z	2.387	1.5
57	MP3A	Mx	.001	1.5
58	MP3B	X	1.378	1.5
59	MP3B	Z	2.387	1.5
60	MP3B	Mx	.001	1.5
61	MP3C	X	1.378	1.5
62	MP3C	Z	2.387	1.5
63	MP3C	Mx	.001	1.5
64	MP2A	X	1.251	1.5
65	MP2A	Z	2.166	1.5
66	MP2A	Mx	.000958	1.5
67	MP2B	X	1.251	1.5
68	MP2B	Z	2.166	1.5
69	MP2B	Mx	.000958	1.5
70	MP2C	X	1.251	1.5
71	MP2C	Z	2.166	1.5
72	MP2C	Mx	.000958	1.5
73	OVP	X	2.78	1
74	OVP	Z	4.815	1
75	OVP	Mx	0	1
76	MP3A	X	1.894	1
77	MP3A	Z	3.281	1
78	MP3A	Mx	-.001	1
79	MP3A	X	1.894	5
80	MP3A	Z	3.281	5
81	MP3A	Mx	-.001	5
82	MP3B	X	1.724	1
83	MP3B	Z	2.986	1
84	MP3B	Mx	-.002	1
85	MP3B	X	1.724	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
86	MP3B	Z	2.986	5
87	MP3B	Mx	-.002	5
88	MP3C	X	1.234	1
89	MP3C	Z	2.138	1
90	MP3C	Mx	.002	1
91	MP3C	X	1.234	5
92	MP3C	Z	2.138	5
93	MP3C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	9.031	1
3	MP2A	Mx	.006	1
4	MP2A	X	0	5
5	MP2A	Z	9.031	5
6	MP2A	Mx	.006	5
7	MP2B	X	0	1
8	MP2B	Z	6.986	1
9	MP2B	Mx	-.007	1
10	MP2B	X	0	5
11	MP2B	Z	6.986	5
12	MP2B	Mx	-.007	5
13	MP2A	X	0	1
14	MP2A	Z	9.031	1
15	MP2A	Mx	-.006	1
16	MP2A	X	0	5
17	MP2A	Z	9.031	5
18	MP2A	Mx	-.006	5
19	MP2B	X	0	1
20	MP2B	Z	6.986	1
21	MP2B	Mx	-.003	1
22	MP2B	X	0	5
23	MP2B	Z	6.986	5
24	MP2B	Mx	-.003	5
25	MP2C	X	0	1
26	MP2C	Z	6.784	1
27	MP2C	Mx	.004	1
28	MP2C	X	0	5
29	MP2C	Z	6.784	5
30	MP2C	Mx	.004	5
31	MP2C	X	0	1
32	MP2C	Z	6.784	1
33	MP2C	Mx	.006	1
34	MP2C	X	0	5
35	MP2C	Z	6.784	5
36	MP2C	Mx	.006	5
37	MP1A	X	0	2
38	MP1A	Z	4.301	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	4.301	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	1.99	2
45	MP1B	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
46	MP1B	X	0	4
47	MP1B	Z	1.99	4
48	MP1B	Mx	-.001	4
49	MP1C	X	0	2
50	MP1C	Z	1.763	2
51	MP1C	Mx	.001	2
52	MP1C	X	0	4
53	MP1C	Z	1.763	4
54	MP1C	Mx	.001	4
55	MP3A	X	0	1.5
56	MP3A	Z	3.289	1.5
57	MP3A	Mx	.000562	1.5
58	MP3B	X	0	1.5
59	MP3B	Z	3.289	1.5
60	MP3B	Mx	.000562	1.5
61	MP3C	X	0	1.5
62	MP3C	Z	3.289	1.5
63	MP3C	Mx	.000562	1.5
64	MP2A	X	0	1.5
65	MP2A	Z	3.239	1.5
66	MP2A	Mx	.000554	1.5
67	MP2B	X	0	1.5
68	MP2B	Z	3.239	1.5
69	MP2B	Mx	.000554	1.5
70	MP2C	X	0	1.5
71	MP2C	Z	3.239	1.5
72	MP2C	Mx	.000554	1.5
73	OVP	X	0	1
74	OVP	Z	6.662	1
75	OVP	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	4.31	1
78	MP3A	Mx	0	1
79	MP3A	X	0	5
80	MP3A	Z	4.31	5
81	MP3A	Mx	0	5
82	MP3B	X	0	1
83	MP3B	Z	2.468	1
84	MP3B	Mx	-.002	1
85	MP3B	X	0	5
86	MP3B	Z	2.468	5
87	MP3B	Mx	-.002	5
88	MP3C	X	0	1
89	MP3C	Z	2.287	1
90	MP3C	Mx	.002	1
91	MP3C	X	0	5
92	MP3C	Z	2.287	5
93	MP3C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-4.226	1
2	MP2A	Z	7.32	1
3	MP2A	Mx	.008	1
4	MP2A	X	-4.226	5
5	MP2A	Z	7.32	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
6	MP2A	Mx	.008	5
7	MP2B	X	-3.392	1
8	MP2B	Z	5.875	1
9	MP2B	Mx	-.004	1
10	MP2B	X	-3.392	5
11	MP2B	Z	5.875	5
12	MP2B	Mx	-.004	5
13	MP2A	X	-4.226	1
14	MP2A	Z	7.32	1
15	MP2A	Mx	-.002	1
16	MP2A	X	-4.226	5
17	MP2A	Z	7.32	5
18	MP2A	Mx	-.002	5
19	MP2B	X	-3.392	1
20	MP2B	Z	5.875	1
21	MP2B	Mx	-.006	1
22	MP2B	X	-3.392	5
23	MP2B	Z	5.875	5
24	MP2B	Mx	-.006	5
25	MP2C	X	-3.836	1
26	MP2C	Z	6.644	1
27	MP2C	Mx	.001	1
28	MP2C	X	-3.836	5
29	MP2C	Z	6.644	5
30	MP2C	Mx	.001	5
31	MP2C	X	-3.836	1
32	MP2C	Z	6.644	1
33	MP2C	Mx	.008	1
34	MP2C	X	-3.836	5
35	MP2C	Z	6.644	5
36	MP2C	Mx	.008	5
37	MP1A	X	-1.823	2
38	MP1A	Z	3.158	2
39	MP1A	Mx	.001	2
40	MP1A	X	-1.823	4
41	MP1A	Z	3.158	4
42	MP1A	Mx	.001	4
43	MP1B	X	-.881	2
44	MP1B	Z	1.526	2
45	MP1B	Mx	-.001	2
46	MP1B	X	-.881	4
47	MP1B	Z	1.526	4
48	MP1B	Mx	-.001	4
49	MP1C	X	-1.382	2
50	MP1C	Z	2.395	2
51	MP1C	Mx	.002	2
52	MP1C	X	-1.382	4
53	MP1C	Z	2.395	4
54	MP1C	Mx	.002	4
55	MP3A	X	-1.694	1.5
56	MP3A	Z	2.934	1.5
57	MP3A	Mx	-.000294	1.5
58	MP3B	X	-1.694	1.5
59	MP3B	Z	2.934	1.5
60	MP3B	Mx	-.000294	1.5
61	MP3C	X	-1.694	1.5
62	MP3C	Z	2.934	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
63	MP3C	Mx	-.000294	1.5
64	MP2A	X	-1.687	1.5
65	MP2A	Z	2.923	1.5
66	MP2A	Mx	-.000293	1.5
67	MP2B	X	-1.687	1.5
68	MP2B	Z	2.923	1.5
69	MP2B	Mx	-.000293	1.5
70	MP2C	X	-1.687	1.5
71	MP2C	Z	2.923	1.5
72	MP2C	Mx	-.000293	1.5
73	OVP	X	-3.433	1
74	OVP	Z	5.945	1
75	OVP	Mx	0	1
76	MP3A	X	-1.894	1
77	MP3A	Z	3.281	1
78	MP3A	Mx	.001	1
79	MP3A	X	-1.894	5
80	MP3A	Z	3.281	5
81	MP3A	Mx	.001	5
82	MP3B	X	-1.144	1
83	MP3B	Z	1.981	1
84	MP3B	Mx	-.002	1
85	MP3B	X	-1.144	5
86	MP3B	Z	1.981	5
87	MP3B	Mx	-.002	5
88	MP3C	X	-1.543	1
89	MP3C	Z	2.673	1
90	MP3C	Mx	.002	1
91	MP3C	X	-1.543	5
92	MP3C	Z	2.673	5
93	MP3C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-6.317	1
2	MP2A	Z	3.647	1
3	MP2A	Mx	.007	1
4	MP2A	X	-6.317	5
5	MP2A	Z	3.647	5
6	MP2A	Mx	.007	5
7	MP2B	X	-6.644	1
8	MP2B	Z	3.836	1
9	MP2B	Mx	-.001	1
10	MP2B	X	-6.644	5
11	MP2B	Z	3.836	5
12	MP2B	Mx	-.001	5
13	MP2A	X	-6.317	1
14	MP2A	Z	3.647	1
15	MP2A	Mx	.002	1
16	MP2A	X	-6.317	5
17	MP2A	Z	3.647	5
18	MP2A	Mx	.002	5
19	MP2B	X	-6.644	1
20	MP2B	Z	3.836	1
21	MP2B	Mx	-.008	1
22	MP2B	X	-6.644	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
23	MP2B	Z	3.836	5
24	MP2B	Mx	-.008	5
25	MP2C	X	-7.587	1
26	MP2C	Z	4.38	1
27	MP2C	Mx	-.003	1
28	MP2C	X	-7.587	5
29	MP2C	Z	4.38	5
30	MP2C	Mx	-.003	5
31	MP2C	X	-7.587	1
32	MP2C	Z	4.38	1
33	MP2C	Mx	.008	1
34	MP2C	X	-7.587	5
35	MP2C	Z	4.38	5
36	MP2C	Mx	.008	5
37	MP1A	X	-2.025	2
38	MP1A	Z	1.169	2
39	MP1A	Mx	.002	2
40	MP1A	X	-2.025	4
41	MP1A	Z	1.169	4
42	MP1A	Mx	.002	4
43	MP1B	X	-2.395	2
44	MP1B	Z	1.382	2
45	MP1B	Mx	-.002	2
46	MP1B	X	-2.395	4
47	MP1B	Z	1.382	4
48	MP1B	Mx	-.002	4
49	MP1C	X	-3.459	2
50	MP1C	Z	1.997	2
51	MP1C	Mx	.001	2
52	MP1C	X	-3.459	4
53	MP1C	Z	1.997	4
54	MP1C	Mx	.001	4
55	MP3A	X	-2.558	1.5
56	MP3A	Z	1.477	1.5
57	MP3A	Mx	-.000949	1.5
58	MP3B	X	-2.558	1.5
59	MP3B	Z	1.477	1.5
60	MP3B	Mx	-.000949	1.5
61	MP3C	X	-2.558	1.5
62	MP3C	Z	1.477	1.5
63	MP3C	Mx	-.000949	1.5
64	MP2A	X	-2.402	1.5
65	MP2A	Z	1.387	1.5
66	MP2A	Mx	-.000891	1.5
67	MP2B	X	-2.402	1.5
68	MP2B	Z	1.387	1.5
69	MP2B	Mx	-.000891	1.5
70	MP2C	X	-2.402	1.5
71	MP2C	Z	1.387	1.5
72	MP2C	Mx	-.000891	1.5
73	OVP	X	-5.168	1
74	OVP	Z	2.984	1
75	OVP	Mx	0	1
76	MP3A	X	-2.378	1
77	MP3A	Z	1.373	1
78	MP3A	Mx	.002	1
79	MP3A	X	-2.378	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
80	MP3A	Z	1.373	5
81	MP3A	Mx	.002	5
82	MP3B	X	-2.673	1
83	MP3B	Z	1.543	1
84	MP3B	Mx	-.002	1
85	MP3B	X	-2.673	5
86	MP3B	Z	1.543	5
87	MP3B	Mx	-.002	5
88	MP3C	X	-3.521	1
89	MP3C	Z	2.033	1
90	MP3C	Mx	.001	1
91	MP3C	X	-3.521	5
92	MP3C	Z	2.033	5
93	MP3C	Mx	.001	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-6.714	1
2	MP2A	Z	0	1
3	MP2A	Mx	.005	1
4	MP2A	X	-6.714	5
5	MP2A	Z	0	5
6	MP2A	Mx	.005	5
7	MP2B	X	-8.76	1
8	MP2B	Z	0	1
9	MP2B	Mx	.003	1
10	MP2B	X	-8.76	5
11	MP2B	Z	0	5
12	MP2B	Mx	.003	5
13	MP2A	X	-6.714	1
14	MP2A	Z	0	1
15	MP2A	Mx	.005	1
16	MP2A	X	-6.714	5
17	MP2A	Z	0	5
18	MP2A	Mx	.005	5
19	MP2B	X	-8.76	1
20	MP2B	Z	0	1
21	MP2B	Mx	-.008	1
22	MP2B	X	-8.76	5
23	MP2B	Z	0	5
24	MP2B	Mx	-.008	5
25	MP2C	X	-8.962	1
26	MP2C	Z	0	1
27	MP2C	Mx	-.007	1
28	MP2C	X	-8.962	5
29	MP2C	Z	0	5
30	MP2C	Mx	-.007	5
31	MP2C	X	-8.962	1
32	MP2C	Z	0	1
33	MP2C	Mx	.005	1
34	MP2C	X	-8.962	5
35	MP2C	Z	0	5
36	MP2C	Mx	.005	5
37	MP1A	X	-1.684	2
38	MP1A	Z	0	2
39	MP1A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
40	MP1A	X	-1.684	4
41	MP1A	Z	0	4
42	MP1A	Mx	.001	4
43	MP1B	X	-3.995	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.001	2
46	MP1B	X	-3.995	4
47	MP1B	Z	0	4
48	MP1B	Mx	-.001	4
49	MP1C	X	-4.222	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.00055	2
52	MP1C	X	-4.222	4
53	MP1C	Z	0	4
54	MP1C	Mx	-.00055	4
55	MP3A	X	-2.42	1.5
56	MP3A	Z	0	1.5
57	MP3A	Mx	-.001	1.5
58	MP3B	X	-2.42	1.5
59	MP3B	Z	0	1.5
60	MP3B	Mx	-.001	1.5
61	MP3C	X	-2.42	1.5
62	MP3C	Z	0	1.5
63	MP3C	Mx	-.001	1.5
64	MP2A	X	-2.037	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	-.000957	1.5
67	MP2B	X	-2.037	1.5
68	MP2B	Z	0	1.5
69	MP2B	Mx	-.000957	1.5
70	MP2C	X	-2.037	1.5
71	MP2C	Z	0	1.5
72	MP2C	Mx	-.000957	1.5
73	OVP	X	-4.865	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP3A	X	-2.224	1
77	MP3A	Z	0	1
78	MP3A	Mx	.002	1
79	MP3A	X	-2.224	5
80	MP3A	Z	0	5
81	MP3A	Mx	.002	5
82	MP3B	X	-4.066	1
83	MP3B	Z	0	1
84	MP3B	Mx	-.001	1
85	MP3B	X	-4.066	5
86	MP3B	Z	0	5
87	MP3B	Mx	-.001	5
88	MP3C	X	-4.247	1
89	MP3C	Z	0	1
90	MP3C	Mx	-.000553	1
91	MP3C	X	-4.247	5
92	MP3C	Z	0	5
93	MP3C	Mx	-.000553	5

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

Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-6.317	1
2	MP2A	Z	-3.647	1
3	MP2A	Mx	.002	1
4	MP2A	X	-6.317	5
5	MP2A	Z	-3.647	5
6	MP2A	Mx	.002	5
7	MP2B	X	-7.761	1
8	MP2B	Z	-4.481	1
9	MP2B	Mx	.007	1
10	MP2B	X	-7.761	5
11	MP2B	Z	-4.481	5
12	MP2B	Mx	.007	5
13	MP2A	X	-6.317	1
14	MP2A	Z	-3.647	1
15	MP2A	Mx	.007	1
16	MP2A	X	-6.317	5
17	MP2A	Z	-3.647	5
18	MP2A	Mx	.007	5
19	MP2B	X	-7.761	1
20	MP2B	Z	-4.481	1
21	MP2B	Mx	-.005	1
22	MP2B	X	-7.761	5
23	MP2B	Z	-4.481	5
24	MP2B	Mx	-.005	5
25	MP2C	X	-6.992	1
26	MP2C	Z	-4.037	1
27	MP2C	Mx	-.008	1
28	MP2C	X	-6.992	5
29	MP2C	Z	-4.037	5
30	MP2C	Mx	-.008	5
31	MP2C	X	-6.992	1
32	MP2C	Z	-4.037	1
33	MP2C	Mx	.000231	1
34	MP2C	X	-6.992	5
35	MP2C	Z	-4.037	5
36	MP2C	Mx	.000231	5
37	MP1A	X	-2.025	2
38	MP1A	Z	-1.169	2
39	MP1A	Mx	.002	2
40	MP1A	X	-2.025	4
41	MP1A	Z	-1.169	4
42	MP1A	Mx	.002	4
43	MP1B	X	-3.656	2
44	MP1B	Z	-2.111	2
45	MP1B	Mx	.00055	2
46	MP1B	X	-3.656	4
47	MP1B	Z	-2.111	4
48	MP1B	Mx	.00055	4
49	MP1C	X	-2.788	2
50	MP1C	Z	-1.61	2
51	MP1C	Mx	-.002	2
52	MP1C	X	-2.788	4
53	MP1C	Z	-1.61	4
54	MP1C	Mx	-.002	4
55	MP3A	X	-2.011	1.5
56	MP3A	Z	-1.161	1.5
57	MP3A	Mx	-.001	1.5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
58	MP3B	X	-2.011	1.5
59	MP3B	Z	-1.161	1.5
60	MP3B	Mx	-.001	1.5
61	MP3C	X	-2.011	1.5
62	MP3C	Z	-1.161	1.5
63	MP3C	Mx	-.001	1.5
64	MP2A	X	-1.646	1.5
65	MP2A	Z	-.95	1.5
66	MP2A	Mx	-.000936	1.5
67	MP2B	X	-1.646	1.5
68	MP2B	Z	-.95	1.5
69	MP2B	Mx	-.000936	1.5
70	MP2C	X	-1.646	1.5
71	MP2C	Z	-.95	1.5
72	MP2C	Mx	-.000936	1.5
73	OVP	X	-4.037	1
74	OVP	Z	-2.331	1
75	OVP	Mx	0	1
76	MP3A	X	-2.378	1
77	MP3A	Z	-1.373	1
78	MP3A	Mx	.002	1
79	MP3A	X	-2.378	5
80	MP3A	Z	-1.373	5
81	MP3A	Mx	.002	5
82	MP3B	X	-3.678	1
83	MP3B	Z	-2.123	1
84	MP3B	Mx	.000553	1
85	MP3B	X	-3.678	5
86	MP3B	Z	-2.123	5
87	MP3B	Mx	.000553	5
88	MP3C	X	-2.986	1
89	MP3C	Z	-1.724	1
90	MP3C	Mx	-.002	1
91	MP3C	X	-2.986	5
92	MP3C	Z	-1.724	5
93	MP3C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP2A	X	-4.226	1
2	MP2A	Z	-7.32	1
3	MP2A	Mx	-.002	1
4	MP2A	X	-4.226	5
5	MP2A	Z	-7.32	5
6	MP2A	Mx	-.002	5
7	MP2B	X	-4.037	1
8	MP2B	Z	-6.992	1
9	MP2B	Mx	.008	1
10	MP2B	X	-4.037	5
11	MP2B	Z	-6.992	5
12	MP2B	Mx	.008	5
13	MP2A	X	-4.226	1
14	MP2A	Z	-7.32	1
15	MP2A	Mx	.008	1
16	MP2A	X	-4.226	5
17	MP2A	Z	-7.32	5

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
18	MP2A	Mx	.008	5
19	MP2B	X	-4.037	1
20	MP2B	Z	-6.992	1
21	MP2B	Mx	-.000231	1
22	MP2B	X	-4.037	5
23	MP2B	Z	-6.992	5
24	MP2B	Mx	-.000231	5
25	MP2C	X	-3.493	1
26	MP2C	Z	-6.05	1
27	MP2C	Mx	-.007	1
28	MP2C	X	-3.493	5
29	MP2C	Z	-6.05	5
30	MP2C	Mx	-.007	5
31	MP2C	X	-3.493	1
32	MP2C	Z	-6.05	1
33	MP2C	Mx	-.003	1
34	MP2C	X	-3.493	5
35	MP2C	Z	-6.05	5
36	MP2C	Mx	-.003	5
37	MP1A	X	-1.823	2
38	MP1A	Z	-3.158	2
39	MP1A	Mx	.001	2
40	MP1A	X	-1.823	4
41	MP1A	Z	-3.158	4
42	MP1A	Mx	.001	4
43	MP1B	X	-1.61	2
44	MP1B	Z	-2.788	2
45	MP1B	Mx	.002	2
46	MP1B	X	-1.61	4
47	MP1B	Z	-2.788	4
48	MP1B	Mx	.002	4
49	MP1C	X	-.995	2
50	MP1C	Z	-1.723	2
51	MP1C	Mx	-.001	2
52	MP1C	X	-.995	4
53	MP1C	Z	-1.723	4
54	MP1C	Mx	-.001	4
55	MP3A	X	-1.378	1.5
56	MP3A	Z	-2.387	1.5
57	MP3A	Mx	-.001	1.5
58	MP3B	X	-1.378	1.5
59	MP3B	Z	-2.387	1.5
60	MP3B	Mx	-.001	1.5
61	MP3C	X	-1.378	1.5
62	MP3C	Z	-2.387	1.5
63	MP3C	Mx	-.001	1.5
64	MP2A	X	-1.251	1.5
65	MP2A	Z	-2.166	1.5
66	MP2A	Mx	-.000958	1.5
67	MP2B	X	-1.251	1.5
68	MP2B	Z	-2.166	1.5
69	MP2B	Mx	-.000958	1.5
70	MP2C	X	-1.251	1.5
71	MP2C	Z	-2.166	1.5
72	MP2C	Mx	-.000958	1.5
73	OVP	X	-2.78	1
74	OVP	Z	-4.815	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
75	OVP	Mx	0	1
76	MP3A	X	-1.894	1
77	MP3A	Z	-3.281	1
78	MP3A	Mx	.001	1
79	MP3A	X	-1.894	5
80	MP3A	Z	-3.281	5
81	MP3A	Mx	.001	5
82	MP3B	X	-1.724	1
83	MP3B	Z	-2.986	1
84	MP3B	Mx	.002	1
85	MP3B	X	-1.724	5
86	MP3B	Z	-2.986	5
87	MP3B	Mx	.002	5
88	MP3C	X	-1.234	1
89	MP3C	Z	-2.138	1
90	MP3C	Mx	-.002	1
91	MP3C	X	-1.234	5
92	MP3C	Z	-2.138	5
93	MP3C	Mx	-.002	5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	M20	Y	-500	%49

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	M20	Y	-500	%76

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	M20	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	M20	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	Y	-6.194	-6.194	0	%100
2	M72A	Y	-9.098	-9.098	0	%100
3	M73	Y	-9.098	-9.098	0	%100
4	M74	Y	-9.098	-9.098	0	%100
5	M75	Y	-9.588	-9.588	0	%100
6	M78	Y	-5.29	-5.29	0	%100
7	M79	Y	-5.29	-5.29	0	%100
8	M84	Y	-9.575	-9.575	0	%100
9	M85	Y	-9.575	-9.575	0	%100
10	M87A	Y	-9.588	-9.588	0	%100
11	M89A	Y	-9.575	-9.575	0	%100
12	M90A	Y	-9.575	-9.575	0	%100
13	M92	Y	-9.588	-9.588	0	%100
14	M25	Y	-9.098	-9.098	0	%100
15	M26	Y	-9.098	-9.098	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M27	Y	-9.098	-9.098	0	%100
17	M28	Y	-9.588	-9.588	0	%100
18	M31	Y	-5.29	-5.29	0	%100
19	M32	Y	-5.29	-5.29	0	%100
20	M37	Y	-9.575	-9.575	0	%100
21	M38	Y	-9.575	-9.575	0	%100
22	M40	Y	-9.588	-9.588	0	%100
23	M42	Y	-9.575	-9.575	0	%100
24	M43	Y	-9.575	-9.575	0	%100
25	M45	Y	-9.588	-9.588	0	%100
26	M47	Y	-9.098	-9.098	0	%100
27	M48	Y	-9.098	-9.098	0	%100
28	M49	Y	-9.098	-9.098	0	%100
29	M50	Y	-9.588	-9.588	0	%100
30	M53	Y	-5.29	-5.29	0	%100
31	M54	Y	-5.29	-5.29	0	%100
32	M59	Y	-9.575	-9.575	0	%100
33	M60	Y	-9.575	-9.575	0	%100
34	M62	Y	-9.588	-9.588	0	%100
35	M64	Y	-9.575	-9.575	0	%100
36	M65	Y	-9.575	-9.575	0	%100
37	M67	Y	-9.588	-9.588	0	%100
38	M68	Y	-6.194	-6.194	0	%100
39	M69	Y	-6.194	-6.194	0	%100
40	MP4A	Y	-4.68	-4.68	0	%100
41	MP3A	Y	-4.68	-4.68	0	%100
42	MP2A	Y	-4.68	-4.68	0	%100
43	MP1A	Y	-4.68	-4.68	0	%100
44	MP4C	Y	-4.68	-4.68	0	%100
45	MP3C	Y	-4.68	-4.68	0	%100
46	MP2C	Y	-4.68	-4.68	0	%100
47	MP1C	Y	-4.68	-4.68	0	%100
48	MP4B	Y	-4.68	-4.68	0	%100
49	MP3B	Y	-4.68	-4.68	0	%100
50	MP2B	Y	-4.68	-4.68	0	%100
51	MP1B	Y	-4.68	-4.68	0	%100
52	OVP	Y	-4.68	-4.68	0	%100
53	M96	Y	-5.353	-5.353	0	%100
54	M112	Y	-5.353	-5.353	0	%100
55	M115	Y	-5.353	-5.353	0	%100
56	M118	Y	-7.194	-7.194	0	%100
57	M119	Y	-7.194	-7.194	0	%100
58	M120	Y	-7.194	-7.194	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	-9.742	-9.742	0	%100
3	M72A	X	0	0	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	-8.39	-8.39	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	-8.39	-8.39	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	-16.701	-16.701	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	M78	X	0	0	0	%100
12	M78	Z	-2.273	-2.273	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	-2.273	-2.273	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	-4.253	-4.253	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	-4.407	-4.407	0	%100
21	M89A	X	0	0	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	-4.253	-4.253	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	-4.407	-4.407	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-7.278	-7.278	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-2.098	-2.098	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-2.098	-2.098	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-4.175	-4.175	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	-2.273	-2.273	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	-9.093	-9.093	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	-12.603	-12.603	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	-17.01	-17.01	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-17.629	-17.629	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-12.603	-12.603	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-4.253	-4.253	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	-4.407	-4.407	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-7.278	-7.278	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-2.098	-2.098	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	-2.098	-2.098	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	-4.175	-4.175	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	-9.092	-9.092	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	-2.273	-2.273	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	-12.603	-12.603	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	-4.253	-4.253	0	%100
67	M62	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
68	M62	Z	-4.407	-4.407	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	-12.603	-12.603	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	-17.01	-17.01	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	-17.629	-17.629	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	-2.436	-2.436	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	-2.436	-2.436	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-6.611	-6.611	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	-6.611	-6.611	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	-6.611	-6.611	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	-6.611	-6.611	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	-6.611	-6.611	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	-6.611	-6.611	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-6.611	-6.611	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-6.611	-6.611	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	-6.611	-6.611	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-6.611	-6.611	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-6.611	-6.611	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-6.611	-6.611	0	%100
103	OVP	X	0	0	0	%100
104	OVP	Z	-6.025	-6.025	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	-8.003	-8.003	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	-2.001	-2.001	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	-2.001	-2.001	0	%100
111	M118	X	0	0	0	%100
112	M118	Z	-1.437	-1.437	0	%100
113	M119	X	0	0	0	%100
114	M119	Z	-9.005	-9.005	0	%100
115	M120	X	0	0	0	%100
116	M120	Z	-3.247	-3.247	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	3.653	3.653	0	%100
2	M20	Z	-6.328	-6.328	0	%100
3	M72A	X	1.213	1.213	0	%100
4	M72A	Z	-2.101	-2.101	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	M73	X	3.146	3.146	0	%100
6	M73	Z	-5.449	-5.449	0	%100
7	M74	X	3.146	3.146	0	%100
8	M74	Z	-5.449	-5.449	0	%100
9	M75	X	6.263	6.263	0	%100
10	M75	Z	-10.848	-10.848	0	%100
11	M78	X	3.409	3.409	0	%100
12	M78	Z	-5.905	-5.905	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	2.101	2.101	0	%100
16	M84	Z	-3.638	-3.638	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	2.101	2.101	0	%100
22	M89A	Z	-3.638	-3.638	0	%100
23	M90A	X	6.379	6.379	0	%100
24	M90A	Z	-11.049	-11.049	0	%100
25	M92	X	6.611	6.611	0	%100
26	M92	Z	-11.45	-11.45	0	%100
27	M25	X	1.213	1.213	0	%100
28	M25	Z	-2.101	-2.101	0	%100
29	M26	X	3.146	3.146	0	%100
30	M26	Z	-5.449	-5.449	0	%100
31	M27	X	3.146	3.146	0	%100
32	M27	Z	-5.449	-5.449	0	%100
33	M28	X	6.263	6.263	0	%100
34	M28	Z	-10.848	-10.848	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	3.41	3.41	0	%100
38	M32	Z	-5.906	-5.906	0	%100
39	M37	X	2.101	2.101	0	%100
40	M37	Z	-3.638	-3.638	0	%100
41	M38	X	6.379	6.379	0	%100
42	M38	Z	-11.049	-11.049	0	%100
43	M40	X	6.611	6.611	0	%100
44	M40	Z	-11.45	-11.45	0	%100
45	M42	X	2.101	2.101	0	%100
46	M42	Z	-3.638	-3.638	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	4.852	4.852	0	%100
52	M47	Z	-8.404	-8.404	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	3.409	3.409	0	%100
60	M53	Z	-5.905	-5.905	0	%100
61	M54	X	3.41	3.41	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
62	M54	Z	-5.906	-5.906	0	%100
63	M59	X	8.402	8.402	0	%100
64	M59	Z	-14.553	-14.553	0	%100
65	M60	X	6.379	6.379	0	%100
66	M60	Z	-11.049	-11.049	0	%100
67	M62	X	6.611	6.611	0	%100
68	M62	Z	-11.45	-11.45	0	%100
69	M64	X	8.402	8.402	0	%100
70	M64	Z	-14.553	-14.553	0	%100
71	M65	X	6.379	6.379	0	%100
72	M65	Z	-11.049	-11.049	0	%100
73	M67	X	6.611	6.611	0	%100
74	M67	Z	-11.45	-11.45	0	%100
75	M68	X	3.653	3.653	0	%100
76	M68	Z	-6.328	-6.328	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	3.305	3.305	0	%100
80	MP4A	Z	-5.725	-5.725	0	%100
81	MP3A	X	3.305	3.305	0	%100
82	MP3A	Z	-5.725	-5.725	0	%100
83	MP2A	X	3.305	3.305	0	%100
84	MP2A	Z	-5.725	-5.725	0	%100
85	MP1A	X	3.305	3.305	0	%100
86	MP1A	Z	-5.725	-5.725	0	%100
87	MP4C	X	3.305	3.305	0	%100
88	MP4C	Z	-5.725	-5.725	0	%100
89	MP3C	X	3.305	3.305	0	%100
90	MP3C	Z	-5.725	-5.725	0	%100
91	MP2C	X	3.305	3.305	0	%100
92	MP2C	Z	-5.725	-5.725	0	%100
93	MP1C	X	3.305	3.305	0	%100
94	MP1C	Z	-5.725	-5.725	0	%100
95	MP4B	X	3.305	3.305	0	%100
96	MP4B	Z	-5.725	-5.725	0	%100
97	MP3B	X	3.305	3.305	0	%100
98	MP3B	Z	-5.725	-5.725	0	%100
99	MP2B	X	3.305	3.305	0	%100
100	MP2B	Z	-5.725	-5.725	0	%100
101	MP1B	X	3.305	3.305	0	%100
102	MP1B	Z	-5.725	-5.725	0	%100
103	OVP	X	3.012	3.012	0	%100
104	OVP	Z	-5.217	-5.217	0	%100
105	M96	X	3.001	3.001	0	%100
106	M96	Z	-5.198	-5.198	0	%100
107	M112	X	3.001	3.001	0	%100
108	M112	Z	-5.198	-5.198	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	2.94	2.94	0	%100
112	M118	Z	-5.092	-5.092	0	%100
113	M119	X	3.845	3.845	0	%100
114	M119	Z	-6.659	-6.659	0	%100
115	M120	X	.061	.061	0	%100
116	M120	Z	-.105	-.105	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	2.109	2.109	0	%100
2	M20	Z	-1.218	-1.218	0	%100
3	M72A	X	6.303	6.303	0	%100
4	M72A	Z	-3.639	-3.639	0	%100
5	M73	X	1.817	1.817	0	%100
6	M73	Z	-1.049	-1.049	0	%100
7	M74	X	1.817	1.817	0	%100
8	M74	Z	-1.049	-1.049	0	%100
9	M75	X	3.616	3.616	0	%100
10	M75	Z	-2.088	-2.088	0	%100
11	M78	X	7.874	7.874	0	%100
12	M78	Z	-4.546	-4.546	0	%100
13	M79	X	1.969	1.969	0	%100
14	M79	Z	-1.137	-1.137	0	%100
15	M84	X	10.915	10.915	0	%100
16	M84	Z	-6.302	-6.302	0	%100
17	M85	X	3.683	3.683	0	%100
18	M85	Z	-2.126	-2.126	0	%100
19	M87A	X	3.817	3.817	0	%100
20	M87A	Z	-2.204	-2.204	0	%100
21	M89A	X	10.915	10.915	0	%100
22	M89A	Z	-6.302	-6.302	0	%100
23	M90A	X	14.731	14.731	0	%100
24	M90A	Z	-8.505	-8.505	0	%100
25	M92	X	15.267	15.267	0	%100
26	M92	Z	-8.815	-8.815	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	7.266	7.266	0	%100
30	M26	Z	-4.195	-4.195	0	%100
31	M27	X	7.266	7.266	0	%100
32	M27	Z	-4.195	-4.195	0	%100
33	M28	X	14.464	14.464	0	%100
34	M28	Z	-8.351	-8.351	0	%100
35	M31	X	1.968	1.968	0	%100
36	M31	Z	-1.136	-1.136	0	%100
37	M32	X	1.969	1.969	0	%100
38	M32	Z	-1.137	-1.137	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	3.683	3.683	0	%100
42	M38	Z	-2.126	-2.126	0	%100
43	M40	X	3.817	3.817	0	%100
44	M40	Z	-2.204	-2.204	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	3.683	3.683	0	%100
48	M43	Z	-2.126	-2.126	0	%100
49	M45	X	3.817	3.817	0	%100
50	M45	Z	-2.204	-2.204	0	%100
51	M47	X	6.303	6.303	0	%100
52	M47	Z	-3.639	-3.639	0	%100
53	M48	X	1.817	1.817	0	%100
54	M48	Z	-1.049	-1.049	0	%100
55	M49	X	1.817	1.817	0	%100
56	M49	Z	-1.049	-1.049	0	%100
57	M50	X	3.616	3.616	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M50	Z	-2.088	-2.088	0	%100
59	M53	X	1.968	1.968	0	%100
60	M53	Z	-1.136	-1.136	0	%100
61	M54	X	7.875	7.875	0	%100
62	M54	Z	-4.546	-4.546	0	%100
63	M59	X	10.915	10.915	0	%100
64	M59	Z	-6.302	-6.302	0	%100
65	M60	X	14.731	14.731	0	%100
66	M60	Z	-8.505	-8.505	0	%100
67	M62	X	15.267	15.267	0	%100
68	M62	Z	-8.815	-8.815	0	%100
69	M64	X	10.915	10.915	0	%100
70	M64	Z	-6.302	-6.302	0	%100
71	M65	X	3.683	3.683	0	%100
72	M65	Z	-2.126	-2.126	0	%100
73	M67	X	3.817	3.817	0	%100
74	M67	Z	-2.204	-2.204	0	%100
75	M68	X	8.437	8.437	0	%100
76	M68	Z	-4.871	-4.871	0	%100
77	M69	X	2.109	2.109	0	%100
78	M69	Z	-1.218	-1.218	0	%100
79	MP4A	X	5.725	5.725	0	%100
80	MP4A	Z	-3.305	-3.305	0	%100
81	MP3A	X	5.725	5.725	0	%100
82	MP3A	Z	-3.305	-3.305	0	%100
83	MP2A	X	5.725	5.725	0	%100
84	MP2A	Z	-3.305	-3.305	0	%100
85	MP1A	X	5.725	5.725	0	%100
86	MP1A	Z	-3.305	-3.305	0	%100
87	MP4C	X	5.725	5.725	0	%100
88	MP4C	Z	-3.305	-3.305	0	%100
89	MP3C	X	5.725	5.725	0	%100
90	MP3C	Z	-3.305	-3.305	0	%100
91	MP2C	X	5.725	5.725	0	%100
92	MP2C	Z	-3.305	-3.305	0	%100
93	MP1C	X	5.725	5.725	0	%100
94	MP1C	Z	-3.305	-3.305	0	%100
95	MP4B	X	5.725	5.725	0	%100
96	MP4B	Z	-3.305	-3.305	0	%100
97	MP3B	X	5.725	5.725	0	%100
98	MP3B	Z	-3.305	-3.305	0	%100
99	MP2B	X	5.725	5.725	0	%100
100	MP2B	Z	-3.305	-3.305	0	%100
101	MP1B	X	5.725	5.725	0	%100
102	MP1B	Z	-3.305	-3.305	0	%100
103	OVP	X	5.217	5.217	0	%100
104	OVP	Z	-3.012	-3.012	0	%100
105	M96	X	1.733	1.733	0	%100
106	M96	Z	-1	-1	0	%100
107	M112	X	6.93	6.93	0	%100
108	M112	Z	-4.001	-4.001	0	%100
109	M115	X	1.733	1.733	0	%100
110	M115	Z	-1	-1	0	%100
111	M118	X	7.799	7.799	0	%100
112	M118	Z	-4.503	-4.503	0	%100
113	M119	X	2.812	2.812	0	%100
114	M119	Z	-1.624	-1.624	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	M120	X	1.245	1.245	0	%100
116	M120	Z	-.719	-.719	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M72A	X	9.704	9.704	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	0	0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0	0	0	%100
11	M78	X	6.819	6.819	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	6.82	6.82	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	16.804	16.804	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	12.758	12.758	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	13.222	13.222	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	16.804	16.804	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	12.758	12.758	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	13.222	13.222	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	2.426	2.426	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	6.293	6.293	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	6.293	6.293	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	12.526	12.526	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	6.819	6.819	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M37	X	4.201	4.201	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	4.201	4.201	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	12.758	12.758	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	13.222	13.222	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	2.426	2.426	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
52	M47	Z	0	0	0	%100
53	M48	X	6.293	6.293	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	6.293	6.293	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	12.526	12.526	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	6.82	6.82	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	4.201	4.201	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	12.758	12.758	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	13.222	13.222	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	4.201	4.201	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	0	0	0	%100
75	M68	X	7.307	7.307	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	7.307	7.307	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	6.611	6.611	0	%100
80	MP4A	Z	0	0	0	%100
81	MP3A	X	6.611	6.611	0	%100
82	MP3A	Z	0	0	0	%100
83	MP2A	X	6.611	6.611	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	6.611	6.611	0	%100
86	MP1A	Z	0	0	0	%100
87	MP4C	X	6.611	6.611	0	%100
88	MP4C	Z	0	0	0	%100
89	MP3C	X	6.611	6.611	0	%100
90	MP3C	Z	0	0	0	%100
91	MP2C	X	6.611	6.611	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	6.611	6.611	0	%100
94	MP1C	Z	0	0	0	%100
95	MP4B	X	6.611	6.611	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	6.611	6.611	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	6.611	6.611	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	6.611	6.611	0	%100
102	MP1B	Z	0	0	0	%100
103	OVP	X	6.025	6.025	0	%100
104	OVP	Z	0	0	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	0	0	0	%100
107	M112	X	6.002	6.002	0	%100
108	M112	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
109	M115	X	6.002	6.002	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	7.689	7.689	0	%100
112	M118	Z	0	0	0	%100
113	M119	X	.121	.121	0	%100
114	M119	Z	0	0	0	%100
115	M120	X	5.879	5.879	0	%100
116	M120	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	2.109	2.109	0	%100
2	M20	Z	1.218	1.218	0	%100
3	M72A	X	6.303	6.303	0	%100
4	M72A	Z	3.639	3.639	0	%100
5	M73	X	1.817	1.817	0	%100
6	M73	Z	1.049	1.049	0	%100
7	M74	X	1.817	1.817	0	%100
8	M74	Z	1.049	1.049	0	%100
9	M75	X	3.616	3.616	0	%100
10	M75	Z	2.088	2.088	0	%100
11	M78	X	1.968	1.968	0	%100
12	M78	Z	1.136	1.136	0	%100
13	M79	X	7.875	7.875	0	%100
14	M79	Z	4.546	4.546	0	%100
15	M84	X	10.915	10.915	0	%100
16	M84	Z	6.302	6.302	0	%100
17	M85	X	14.731	14.731	0	%100
18	M85	Z	8.505	8.505	0	%100
19	M87A	X	15.267	15.267	0	%100
20	M87A	Z	8.815	8.815	0	%100
21	M89A	X	10.915	10.915	0	%100
22	M89A	Z	6.302	6.302	0	%100
23	M90A	X	3.683	3.683	0	%100
24	M90A	Z	2.126	2.126	0	%100
25	M92	X	3.817	3.817	0	%100
26	M92	Z	2.204	2.204	0	%100
27	M25	X	6.303	6.303	0	%100
28	M25	Z	3.639	3.639	0	%100
29	M26	X	1.817	1.817	0	%100
30	M26	Z	1.049	1.049	0	%100
31	M27	X	1.817	1.817	0	%100
32	M27	Z	1.049	1.049	0	%100
33	M28	X	3.616	3.616	0	%100
34	M28	Z	2.088	2.088	0	%100
35	M31	X	7.874	7.874	0	%100
36	M31	Z	4.546	4.546	0	%100
37	M32	X	1.969	1.969	0	%100
38	M32	Z	1.137	1.137	0	%100
39	M37	X	10.915	10.915	0	%100
40	M37	Z	6.302	6.302	0	%100
41	M38	X	3.683	3.683	0	%100
42	M38	Z	2.126	2.126	0	%100
43	M40	X	3.817	3.817	0	%100
44	M40	Z	2.204	2.204	0	%100
45	M42	X	10.915	10.915	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M42	Z	6.302	6.302	0	%100
47	M43	X	14.731	14.731	0	%100
48	M43	Z	8.505	8.505	0	%100
49	M45	X	15.267	15.267	0	%100
50	M45	Z	8.815	8.815	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	7.266	7.266	0	%100
54	M48	Z	4.195	4.195	0	%100
55	M49	X	7.266	7.266	0	%100
56	M49	Z	4.195	4.195	0	%100
57	M50	X	14.464	14.464	0	%100
58	M50	Z	8.351	8.351	0	%100
59	M53	X	1.968	1.968	0	%100
60	M53	Z	1.136	1.136	0	%100
61	M54	X	1.969	1.969	0	%100
62	M54	Z	1.137	1.137	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	3.683	3.683	0	%100
66	M60	Z	2.126	2.126	0	%100
67	M62	X	3.817	3.817	0	%100
68	M62	Z	2.204	2.204	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	3.683	3.683	0	%100
72	M65	Z	2.126	2.126	0	%100
73	M67	X	3.817	3.817	0	%100
74	M67	Z	2.204	2.204	0	%100
75	M68	X	2.109	2.109	0	%100
76	M68	Z	1.218	1.218	0	%100
77	M69	X	8.437	8.437	0	%100
78	M69	Z	4.871	4.871	0	%100
79	MP4A	X	5.725	5.725	0	%100
80	MP4A	Z	3.305	3.305	0	%100
81	MP3A	X	5.725	5.725	0	%100
82	MP3A	Z	3.305	3.305	0	%100
83	MP2A	X	5.725	5.725	0	%100
84	MP2A	Z	3.305	3.305	0	%100
85	MP1A	X	5.725	5.725	0	%100
86	MP1A	Z	3.305	3.305	0	%100
87	MP4C	X	5.725	5.725	0	%100
88	MP4C	Z	3.305	3.305	0	%100
89	MP3C	X	5.725	5.725	0	%100
90	MP3C	Z	3.305	3.305	0	%100
91	MP2C	X	5.725	5.725	0	%100
92	MP2C	Z	3.305	3.305	0	%100
93	MP1C	X	5.725	5.725	0	%100
94	MP1C	Z	3.305	3.305	0	%100
95	MP4B	X	5.725	5.725	0	%100
96	MP4B	Z	3.305	3.305	0	%100
97	MP3B	X	5.725	5.725	0	%100
98	MP3B	Z	3.305	3.305	0	%100
99	MP2B	X	5.725	5.725	0	%100
100	MP2B	Z	3.305	3.305	0	%100
101	MP1B	X	5.725	5.725	0	%100
102	MP1B	Z	3.305	3.305	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	OVP	X	5.217	5.217	0	%100
104	OVP	Z	3.012	3.012	0	%100
105	M96	X	1.733	1.733	0	%100
106	M96	Z	1	1	0	%100
107	M112	X	1.733	1.733	0	%100
108	M112	Z	1	1	0	%100
109	M115	X	6.93	6.93	0	%100
110	M115	Z	4.001	4.001	0	%100
111	M118	X	2.812	2.812	0	%100
112	M118	Z	1.624	1.624	0	%100
113	M119	X	1.245	1.245	0	%100
114	M119	Z	.719	.719	0	%100
115	M120	X	7.799	7.799	0	%100
116	M120	Z	4.503	4.503	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	3.653	3.653	0	%100
2	M20	Z	6.328	6.328	0	%100
3	M72A	X	1.213	1.213	0	%100
4	M72A	Z	2.101	2.101	0	%100
5	M73	X	3.146	3.146	0	%100
6	M73	Z	5.449	5.449	0	%100
7	M74	X	3.146	3.146	0	%100
8	M74	Z	5.449	5.449	0	%100
9	M75	X	6.263	6.263	0	%100
10	M75	Z	10.848	10.848	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	3.41	3.41	0	%100
14	M79	Z	5.906	5.906	0	%100
15	M84	X	2.101	2.101	0	%100
16	M84	Z	3.638	3.638	0	%100
17	M85	X	6.379	6.379	0	%100
18	M85	Z	11.049	11.049	0	%100
19	M87A	X	6.611	6.611	0	%100
20	M87A	Z	11.45	11.45	0	%100
21	M89A	X	2.101	2.101	0	%100
22	M89A	Z	3.638	3.638	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	4.852	4.852	0	%100
28	M25	Z	8.404	8.404	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	3.409	3.409	0	%100
36	M31	Z	5.905	5.905	0	%100
37	M32	X	3.41	3.41	0	%100
38	M32	Z	5.906	5.906	0	%100
39	M37	X	8.402	8.402	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	M37	Z	14.553	14.553	0	%100
41	M38	X	6.379	6.379	0	%100
42	M38	Z	11.049	11.049	0	%100
43	M40	X	6.611	6.611	0	%100
44	M40	Z	11.45	11.45	0	%100
45	M42	X	8.402	8.402	0	%100
46	M42	Z	14.553	14.553	0	%100
47	M43	X	6.379	6.379	0	%100
48	M43	Z	11.049	11.049	0	%100
49	M45	X	6.611	6.611	0	%100
50	M45	Z	11.45	11.45	0	%100
51	M47	X	1.213	1.213	0	%100
52	M47	Z	2.101	2.101	0	%100
53	M48	X	3.146	3.146	0	%100
54	M48	Z	5.449	5.449	0	%100
55	M49	X	3.146	3.146	0	%100
56	M49	Z	5.449	5.449	0	%100
57	M50	X	6.263	6.263	0	%100
58	M50	Z	10.848	10.848	0	%100
59	M53	X	3.409	3.409	0	%100
60	M53	Z	5.905	5.905	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	2.101	2.101	0	%100
64	M59	Z	3.638	3.638	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	2.101	2.101	0	%100
70	M64	Z	3.638	3.638	0	%100
71	M65	X	6.379	6.379	0	%100
72	M65	Z	11.049	11.049	0	%100
73	M67	X	6.611	6.611	0	%100
74	M67	Z	11.45	11.45	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	3.653	3.653	0	%100
78	M69	Z	6.328	6.328	0	%100
79	MP4A	X	3.305	3.305	0	%100
80	MP4A	Z	5.725	5.725	0	%100
81	MP3A	X	3.305	3.305	0	%100
82	MP3A	Z	5.725	5.725	0	%100
83	MP2A	X	3.305	3.305	0	%100
84	MP2A	Z	5.725	5.725	0	%100
85	MP1A	X	3.305	3.305	0	%100
86	MP1A	Z	5.725	5.725	0	%100
87	MP4C	X	3.305	3.305	0	%100
88	MP4C	Z	5.725	5.725	0	%100
89	MP3C	X	3.305	3.305	0	%100
90	MP3C	Z	5.725	5.725	0	%100
91	MP2C	X	3.305	3.305	0	%100
92	MP2C	Z	5.725	5.725	0	%100
93	MP1C	X	3.305	3.305	0	%100
94	MP1C	Z	5.725	5.725	0	%100
95	MP4B	X	3.305	3.305	0	%100
96	MP4B	Z	5.725	5.725	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	MP3B	X	3.305	3.305	0	%100
98	MP3B	Z	5.725	5.725	0	%100
99	MP2B	X	3.305	3.305	0	%100
100	MP2B	Z	5.725	5.725	0	%100
101	MP1B	X	3.305	3.305	0	%100
102	MP1B	Z	5.725	5.725	0	%100
103	OVP	X	3.012	3.012	0	%100
104	OVP	Z	5.217	5.217	0	%100
105	M96	X	3.001	3.001	0	%100
106	M96	Z	5.198	5.198	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	0	0	0	%100
109	M115	X	3.001	3.001	0	%100
110	M115	Z	5.198	5.198	0	%100
111	M118	X	.061	.061	0	%100
112	M118	Z	.105	.105	0	%100
113	M119	X	2.94	2.94	0	%100
114	M119	Z	5.092	5.092	0	%100
115	M120	X	3.845	3.845	0	%100
116	M120	Z	6.659	6.659	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	9.742	9.742	0	%100
3	M72A	X	0	0	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	8.39	8.39	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	8.39	8.39	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	16.701	16.701	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	2.273	2.273	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	2.273	2.273	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	4.253	4.253	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	4.407	4.407	0	%100
21	M89A	X	0	0	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	4.253	4.253	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	4.407	4.407	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	7.278	7.278	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	2.098	2.098	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	2.098	2.098	0	%100
33	M28	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M28	Z	4.175	4.175	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	2.273	2.273	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	9.093	9.093	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	12.603	12.603	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	17.01	17.01	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	17.629	17.629	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	12.603	12.603	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	4.253	4.253	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	4.407	4.407	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	7.278	7.278	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	2.098	2.098	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	2.098	2.098	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	4.175	4.175	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	9.092	9.092	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	2.273	2.273	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	12.603	12.603	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	4.253	4.253	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	4.407	4.407	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	12.603	12.603	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	17.01	17.01	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	17.629	17.629	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	2.436	2.436	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	2.436	2.436	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	6.611	6.611	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	6.611	6.611	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	6.611	6.611	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	6.611	6.611	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	6.611	6.611	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	6.611	6.611	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	MP2C	X	0	0	0	%100
92	MP2C	Z	6.611	6.611	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	6.611	6.611	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	6.611	6.611	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	6.611	6.611	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	6.611	6.611	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	6.611	6.611	0	%100
103	OVP	X	0	0	0	%100
104	OVP	Z	6.025	6.025	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	8.003	8.003	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	2.001	2.001	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	2.001	2.001	0	%100
111	M118	X	0	0	0	%100
112	M118	Z	1.437	1.437	0	%100
113	M119	X	0	0	0	%100
114	M119	Z	9.005	9.005	0	%100
115	M120	X	0	0	0	%100
116	M120	Z	3.247	3.247	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-3.653	-3.653	0	%100
2	M20	Z	6.328	6.328	0	%100
3	M72A	X	-1.213	-1.213	0	%100
4	M72A	Z	2.101	2.101	0	%100
5	M73	X	-3.146	-3.146	0	%100
6	M73	Z	5.449	5.449	0	%100
7	M74	X	-3.146	-3.146	0	%100
8	M74	Z	5.449	5.449	0	%100
9	M75	X	-6.263	-6.263	0	%100
10	M75	Z	10.848	10.848	0	%100
11	M78	X	-3.409	-3.409	0	%100
12	M78	Z	5.905	5.905	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	-2.101	-2.101	0	%100
16	M84	Z	3.638	3.638	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	-2.101	-2.101	0	%100
22	M89A	Z	3.638	3.638	0	%100
23	M90A	X	-6.379	-6.379	0	%100
24	M90A	Z	11.049	11.049	0	%100
25	M92	X	-6.611	-6.611	0	%100
26	M92	Z	11.45	11.45	0	%100
27	M25	X	-1.213	-1.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	M25	Z	2.101	2.101	0	%100
29	M26	X	-3.146	-3.146	0	%100
30	M26	Z	5.449	5.449	0	%100
31	M27	X	-3.146	-3.146	0	%100
32	M27	Z	5.449	5.449	0	%100
33	M28	X	-6.263	-6.263	0	%100
34	M28	Z	10.848	10.848	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	-3.41	-3.41	0	%100
38	M32	Z	5.906	5.906	0	%100
39	M37	X	-2.101	-2.101	0	%100
40	M37	Z	3.638	3.638	0	%100
41	M38	X	-6.379	-6.379	0	%100
42	M38	Z	11.049	11.049	0	%100
43	M40	X	-6.611	-6.611	0	%100
44	M40	Z	11.45	11.45	0	%100
45	M42	X	-2.101	-2.101	0	%100
46	M42	Z	3.638	3.638	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	-4.852	-4.852	0	%100
52	M47	Z	8.404	8.404	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	-3.409	-3.409	0	%100
60	M53	Z	5.905	5.905	0	%100
61	M54	X	-3.41	-3.41	0	%100
62	M54	Z	5.906	5.906	0	%100
63	M59	X	-8.402	-8.402	0	%100
64	M59	Z	14.553	14.553	0	%100
65	M60	X	-6.379	-6.379	0	%100
66	M60	Z	11.049	11.049	0	%100
67	M62	X	-6.611	-6.611	0	%100
68	M62	Z	11.45	11.45	0	%100
69	M64	X	-8.402	-8.402	0	%100
70	M64	Z	14.553	14.553	0	%100
71	M65	X	-6.379	-6.379	0	%100
72	M65	Z	11.049	11.049	0	%100
73	M67	X	-6.611	-6.611	0	%100
74	M67	Z	11.45	11.45	0	%100
75	M68	X	-3.653	-3.653	0	%100
76	M68	Z	6.328	6.328	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	-3.305	-3.305	0	%100
80	MP4A	Z	5.725	5.725	0	%100
81	MP3A	X	-3.305	-3.305	0	%100
82	MP3A	Z	5.725	5.725	0	%100
83	MP2A	X	-3.305	-3.305	0	%100
84	MP2A	Z	5.725	5.725	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
85	MP1A	X	-3.305	-3.305	0	%100
86	MP1A	Z	5.725	5.725	0	%100
87	MP4C	X	-3.305	-3.305	0	%100
88	MP4C	Z	5.725	5.725	0	%100
89	MP3C	X	-3.305	-3.305	0	%100
90	MP3C	Z	5.725	5.725	0	%100
91	MP2C	X	-3.305	-3.305	0	%100
92	MP2C	Z	5.725	5.725	0	%100
93	MP1C	X	-3.305	-3.305	0	%100
94	MP1C	Z	5.725	5.725	0	%100
95	MP4B	X	-3.305	-3.305	0	%100
96	MP4B	Z	5.725	5.725	0	%100
97	MP3B	X	-3.305	-3.305	0	%100
98	MP3B	Z	5.725	5.725	0	%100
99	MP2B	X	-3.305	-3.305	0	%100
100	MP2B	Z	5.725	5.725	0	%100
101	MP1B	X	-3.305	-3.305	0	%100
102	MP1B	Z	5.725	5.725	0	%100
103	OVP	X	-3.012	-3.012	0	%100
104	OVP	Z	5.217	5.217	0	%100
105	M96	X	-3.001	-3.001	0	%100
106	M96	Z	5.198	5.198	0	%100
107	M112	X	-3.001	-3.001	0	%100
108	M112	Z	5.198	5.198	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	-2.94	-2.94	0	%100
112	M118	Z	5.092	5.092	0	%100
113	M119	X	-3.845	-3.845	0	%100
114	M119	Z	6.659	6.659	0	%100
115	M120	X	-.061	-.061	0	%100
116	M120	Z	.105	.105	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-2.109	-2.109	0	%100
2	M20	Z	1.218	1.218	0	%100
3	M72A	X	-6.303	-6.303	0	%100
4	M72A	Z	3.639	3.639	0	%100
5	M73	X	-1.817	-1.817	0	%100
6	M73	Z	1.049	1.049	0	%100
7	M74	X	-1.817	-1.817	0	%100
8	M74	Z	1.049	1.049	0	%100
9	M75	X	-3.616	-3.616	0	%100
10	M75	Z	2.088	2.088	0	%100
11	M78	X	-7.874	-7.874	0	%100
12	M78	Z	4.546	4.546	0	%100
13	M79	X	-1.969	-1.969	0	%100
14	M79	Z	1.137	1.137	0	%100
15	M84	X	-10.915	-10.915	0	%100
16	M84	Z	6.302	6.302	0	%100
17	M85	X	-3.683	-3.683	0	%100
18	M85	Z	2.126	2.126	0	%100
19	M87A	X	-3.817	-3.817	0	%100
20	M87A	Z	2.204	2.204	0	%100
21	M89A	X	-10.915	-10.915	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M89A	Z	6.302	6.302	0	%100
23	M90A	X	-14.731	-14.731	0	%100
24	M90A	Z	8.505	8.505	0	%100
25	M92	X	-15.267	-15.267	0	%100
26	M92	Z	8.815	8.815	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-7.266	-7.266	0	%100
30	M26	Z	4.195	4.195	0	%100
31	M27	X	-7.266	-7.266	0	%100
32	M27	Z	4.195	4.195	0	%100
33	M28	X	-14.464	-14.464	0	%100
34	M28	Z	8.351	8.351	0	%100
35	M31	X	-1.968	-1.968	0	%100
36	M31	Z	1.136	1.136	0	%100
37	M32	X	-1.969	-1.969	0	%100
38	M32	Z	1.137	1.137	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	-3.683	-3.683	0	%100
42	M38	Z	2.126	2.126	0	%100
43	M40	X	-3.817	-3.817	0	%100
44	M40	Z	2.204	2.204	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-3.683	-3.683	0	%100
48	M43	Z	2.126	2.126	0	%100
49	M45	X	-3.817	-3.817	0	%100
50	M45	Z	2.204	2.204	0	%100
51	M47	X	-6.303	-6.303	0	%100
52	M47	Z	3.639	3.639	0	%100
53	M48	X	-1.817	-1.817	0	%100
54	M48	Z	1.049	1.049	0	%100
55	M49	X	-1.817	-1.817	0	%100
56	M49	Z	1.049	1.049	0	%100
57	M50	X	-3.616	-3.616	0	%100
58	M50	Z	2.088	2.088	0	%100
59	M53	X	-1.968	-1.968	0	%100
60	M53	Z	1.136	1.136	0	%100
61	M54	X	-7.875	-7.875	0	%100
62	M54	Z	4.546	4.546	0	%100
63	M59	X	-10.915	-10.915	0	%100
64	M59	Z	6.302	6.302	0	%100
65	M60	X	-14.731	-14.731	0	%100
66	M60	Z	8.505	8.505	0	%100
67	M62	X	-15.267	-15.267	0	%100
68	M62	Z	8.815	8.815	0	%100
69	M64	X	-10.915	-10.915	0	%100
70	M64	Z	6.302	6.302	0	%100
71	M65	X	-3.683	-3.683	0	%100
72	M65	Z	2.126	2.126	0	%100
73	M67	X	-3.817	-3.817	0	%100
74	M67	Z	2.204	2.204	0	%100
75	M68	X	-8.437	-8.437	0	%100
76	M68	Z	4.871	4.871	0	%100
77	M69	X	-2.109	-2.109	0	%100
78	M69	Z	1.218	1.218	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	MP4A	X	-5.725	-5.725	0	%100
80	MP4A	Z	3.305	3.305	0	%100
81	MP3A	X	-5.725	-5.725	0	%100
82	MP3A	Z	3.305	3.305	0	%100
83	MP2A	X	-5.725	-5.725	0	%100
84	MP2A	Z	3.305	3.305	0	%100
85	MP1A	X	-5.725	-5.725	0	%100
86	MP1A	Z	3.305	3.305	0	%100
87	MP4C	X	-5.725	-5.725	0	%100
88	MP4C	Z	3.305	3.305	0	%100
89	MP3C	X	-5.725	-5.725	0	%100
90	MP3C	Z	3.305	3.305	0	%100
91	MP2C	X	-5.725	-5.725	0	%100
92	MP2C	Z	3.305	3.305	0	%100
93	MP1C	X	-5.725	-5.725	0	%100
94	MP1C	Z	3.305	3.305	0	%100
95	MP4B	X	-5.725	-5.725	0	%100
96	MP4B	Z	3.305	3.305	0	%100
97	MP3B	X	-5.725	-5.725	0	%100
98	MP3B	Z	3.305	3.305	0	%100
99	MP2B	X	-5.725	-5.725	0	%100
100	MP2B	Z	3.305	3.305	0	%100
101	MP1B	X	-5.725	-5.725	0	%100
102	MP1B	Z	3.305	3.305	0	%100
103	OVP	X	-5.217	-5.217	0	%100
104	OVP	Z	3.012	3.012	0	%100
105	M96	X	-1.733	-1.733	0	%100
106	M96	Z	1	1	0	%100
107	M112	X	-6.93	-6.93	0	%100
108	M112	Z	4.001	4.001	0	%100
109	M115	X	-1.733	-1.733	0	%100
110	M115	Z	1	1	0	%100
111	M118	X	-7.799	-7.799	0	%100
112	M118	Z	4.503	4.503	0	%100
113	M119	X	-2.812	-2.812	0	%100
114	M119	Z	1.624	1.624	0	%100
115	M120	X	-1.245	-1.245	0	%100
116	M120	Z	.719	.719	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M72A	X	-9.704	-9.704	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	0	0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0	0	0	%100
11	M78	X	-6.819	-6.819	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	-6.82	-6.82	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	-16.804	-16.804	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M84	Z	0	0	0	%100
17	M85	X	-12.758	-12.758	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	-13.222	-13.222	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	-16.804	-16.804	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	-12.758	-12.758	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	-13.222	-13.222	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	-2.426	-2.426	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-6.293	-6.293	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-6.293	-6.293	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-12.526	-12.526	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	-6.819	-6.819	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M37	X	-4.201	-4.201	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	-4.201	-4.201	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-12.758	-12.758	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	-13.222	-13.222	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	-2.426	-2.426	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-6.293	-6.293	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	-6.293	-6.293	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	-12.526	-12.526	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	-6.82	-6.82	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	-4.201	-4.201	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	-12.758	-12.758	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	-13.222	-13.222	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	-4.201	-4.201	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
73	M67	X	0	0	0	%100
74	M67	Z	0	0	0	%100
75	M68	X	-7.307	-7.307	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	-7.307	-7.307	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	-6.611	-6.611	0	%100
80	MP4A	Z	0	0	0	%100
81	MP3A	X	-6.611	-6.611	0	%100
82	MP3A	Z	0	0	0	%100
83	MP2A	X	-6.611	-6.611	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	-6.611	-6.611	0	%100
86	MP1A	Z	0	0	0	%100
87	MP4C	X	-6.611	-6.611	0	%100
88	MP4C	Z	0	0	0	%100
89	MP3C	X	-6.611	-6.611	0	%100
90	MP3C	Z	0	0	0	%100
91	MP2C	X	-6.611	-6.611	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-6.611	-6.611	0	%100
94	MP1C	Z	0	0	0	%100
95	MP4B	X	-6.611	-6.611	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	-6.611	-6.611	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	-6.611	-6.611	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-6.611	-6.611	0	%100
102	MP1B	Z	0	0	0	%100
103	OVP	X	-6.025	-6.025	0	%100
104	OVP	Z	0	0	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	0	0	0	%100
107	M112	X	-6.002	-6.002	0	%100
108	M112	Z	0	0	0	%100
109	M115	X	-6.002	-6.002	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	-7.689	-7.689	0	%100
112	M118	Z	0	0	0	%100
113	M119	X	-.121	-.121	0	%100
114	M119	Z	0	0	0	%100
115	M120	X	-5.879	-5.879	0	%100
116	M120	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-2.109	-2.109	0	%100
2	M20	Z	-1.218	-1.218	0	%100
3	M72A	X	-6.303	-6.303	0	%100
4	M72A	Z	-3.639	-3.639	0	%100
5	M73	X	-1.817	-1.817	0	%100
6	M73	Z	-1.049	-1.049	0	%100
7	M74	X	-1.817	-1.817	0	%100
8	M74	Z	-1.049	-1.049	0	%100
9	M75	X	-3.616	-3.616	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	M75	Z	-2.088	-2.088	0	%100
11	M78	X	-1.968	-1.968	0	%100
12	M78	Z	-1.136	-1.136	0	%100
13	M79	X	-7.875	-7.875	0	%100
14	M79	Z	-4.546	-4.546	0	%100
15	M84	X	-10.915	-10.915	0	%100
16	M84	Z	-6.302	-6.302	0	%100
17	M85	X	-14.731	-14.731	0	%100
18	M85	Z	-8.505	-8.505	0	%100
19	M87A	X	-15.267	-15.267	0	%100
20	M87A	Z	-8.815	-8.815	0	%100
21	M89A	X	-10.915	-10.915	0	%100
22	M89A	Z	-6.302	-6.302	0	%100
23	M90A	X	-3.683	-3.683	0	%100
24	M90A	Z	-2.126	-2.126	0	%100
25	M92	X	-3.817	-3.817	0	%100
26	M92	Z	-2.204	-2.204	0	%100
27	M25	X	-6.303	-6.303	0	%100
28	M25	Z	-3.639	-3.639	0	%100
29	M26	X	-1.817	-1.817	0	%100
30	M26	Z	-1.049	-1.049	0	%100
31	M27	X	-1.817	-1.817	0	%100
32	M27	Z	-1.049	-1.049	0	%100
33	M28	X	-3.616	-3.616	0	%100
34	M28	Z	-2.088	-2.088	0	%100
35	M31	X	-7.874	-7.874	0	%100
36	M31	Z	-4.546	-4.546	0	%100
37	M32	X	-1.969	-1.969	0	%100
38	M32	Z	-1.137	-1.137	0	%100
39	M37	X	-10.915	-10.915	0	%100
40	M37	Z	-6.302	-6.302	0	%100
41	M38	X	-3.683	-3.683	0	%100
42	M38	Z	-2.126	-2.126	0	%100
43	M40	X	-3.817	-3.817	0	%100
44	M40	Z	-2.204	-2.204	0	%100
45	M42	X	-10.915	-10.915	0	%100
46	M42	Z	-6.302	-6.302	0	%100
47	M43	X	-14.731	-14.731	0	%100
48	M43	Z	-8.505	-8.505	0	%100
49	M45	X	-15.267	-15.267	0	%100
50	M45	Z	-8.815	-8.815	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-7.266	-7.266	0	%100
54	M48	Z	-4.195	-4.195	0	%100
55	M49	X	-7.266	-7.266	0	%100
56	M49	Z	-4.195	-4.195	0	%100
57	M50	X	-14.464	-14.464	0	%100
58	M50	Z	-8.351	-8.351	0	%100
59	M53	X	-1.968	-1.968	0	%100
60	M53	Z	-1.136	-1.136	0	%100
61	M54	X	-1.969	-1.969	0	%100
62	M54	Z	-1.137	-1.137	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	-3.683	-3.683	0	%100
66	M60	Z	-2.126	-2.126	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
67	M62	X	-3.817	-3.817	0	%100
68	M62	Z	-2.204	-2.204	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	-3.683	-3.683	0	%100
72	M65	Z	-2.126	-2.126	0	%100
73	M67	X	-3.817	-3.817	0	%100
74	M67	Z	-2.204	-2.204	0	%100
75	M68	X	-2.109	-2.109	0	%100
76	M68	Z	-1.218	-1.218	0	%100
77	M69	X	-8.437	-8.437	0	%100
78	M69	Z	-4.871	-4.871	0	%100
79	MP4A	X	-5.725	-5.725	0	%100
80	MP4A	Z	-3.305	-3.305	0	%100
81	MP3A	X	-5.725	-5.725	0	%100
82	MP3A	Z	-3.305	-3.305	0	%100
83	MP2A	X	-5.725	-5.725	0	%100
84	MP2A	Z	-3.305	-3.305	0	%100
85	MP1A	X	-5.725	-5.725	0	%100
86	MP1A	Z	-3.305	-3.305	0	%100
87	MP4C	X	-5.725	-5.725	0	%100
88	MP4C	Z	-3.305	-3.305	0	%100
89	MP3C	X	-5.725	-5.725	0	%100
90	MP3C	Z	-3.305	-3.305	0	%100
91	MP2C	X	-5.725	-5.725	0	%100
92	MP2C	Z	-3.305	-3.305	0	%100
93	MP1C	X	-5.725	-5.725	0	%100
94	MP1C	Z	-3.305	-3.305	0	%100
95	MP4B	X	-5.725	-5.725	0	%100
96	MP4B	Z	-3.305	-3.305	0	%100
97	MP3B	X	-5.725	-5.725	0	%100
98	MP3B	Z	-3.305	-3.305	0	%100
99	MP2B	X	-5.725	-5.725	0	%100
100	MP2B	Z	-3.305	-3.305	0	%100
101	MP1B	X	-5.725	-5.725	0	%100
102	MP1B	Z	-3.305	-3.305	0	%100
103	OVP	X	-5.217	-5.217	0	%100
104	OVP	Z	-3.012	-3.012	0	%100
105	M96	X	-1.733	-1.733	0	%100
106	M96	Z	-1	-1	0	%100
107	M112	X	-1.733	-1.733	0	%100
108	M112	Z	-1	-1	0	%100
109	M115	X	-6.93	-6.93	0	%100
110	M115	Z	-4.001	-4.001	0	%100
111	M118	X	-2.812	-2.812	0	%100
112	M118	Z	-1.624	-1.624	0	%100
113	M119	X	-1.245	-1.245	0	%100
114	M119	Z	-.719	-.719	0	%100
115	M120	X	-7.799	-7.799	0	%100
116	M120	Z	-4.503	-4.503	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-3.653	-3.653	0	%100
2	M20	Z	-6.328	-6.328	0	%100
3	M72A	X	-1.213	-1.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M72A	Z	-2.101	-2.101	0	%100
5	M73	X	-3.146	-3.146	0	%100
6	M73	Z	-5.449	-5.449	0	%100
7	M74	X	-3.146	-3.146	0	%100
8	M74	Z	-5.449	-5.449	0	%100
9	M75	X	-6.263	-6.263	0	%100
10	M75	Z	-10.848	-10.848	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	-3.41	-3.41	0	%100
14	M79	Z	-5.906	-5.906	0	%100
15	M84	X	-2.101	-2.101	0	%100
16	M84	Z	-3.638	-3.638	0	%100
17	M85	X	-6.379	-6.379	0	%100
18	M85	Z	-11.049	-11.049	0	%100
19	M87A	X	-6.611	-6.611	0	%100
20	M87A	Z	-11.45	-11.45	0	%100
21	M89A	X	-2.101	-2.101	0	%100
22	M89A	Z	-3.638	-3.638	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	-4.852	-4.852	0	%100
28	M25	Z	-8.404	-8.404	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	-3.409	-3.409	0	%100
36	M31	Z	-5.905	-5.905	0	%100
37	M32	X	-3.41	-3.41	0	%100
38	M32	Z	-5.906	-5.906	0	%100
39	M37	X	-8.402	-8.402	0	%100
40	M37	Z	-14.553	-14.553	0	%100
41	M38	X	-6.379	-6.379	0	%100
42	M38	Z	-11.049	-11.049	0	%100
43	M40	X	-6.611	-6.611	0	%100
44	M40	Z	-11.45	-11.45	0	%100
45	M42	X	-8.402	-8.402	0	%100
46	M42	Z	-14.553	-14.553	0	%100
47	M43	X	-6.379	-6.379	0	%100
48	M43	Z	-11.049	-11.049	0	%100
49	M45	X	-6.611	-6.611	0	%100
50	M45	Z	-11.45	-11.45	0	%100
51	M47	X	-1.213	-1.213	0	%100
52	M47	Z	-2.101	-2.101	0	%100
53	M48	X	-3.146	-3.146	0	%100
54	M48	Z	-5.449	-5.449	0	%100
55	M49	X	-3.146	-3.146	0	%100
56	M49	Z	-5.449	-5.449	0	%100
57	M50	X	-6.263	-6.263	0	%100
58	M50	Z	-10.848	-10.848	0	%100
59	M53	X	-3.409	-3.409	0	%100
60	M53	Z	-5.905	-5.905	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
61	M54	X	0	0	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	-2.101	-2.101	0	%100
64	M59	Z	-3.638	-3.638	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	-2.101	-2.101	0	%100
70	M64	Z	-3.638	-3.638	0	%100
71	M65	X	-6.379	-6.379	0	%100
72	M65	Z	-11.049	-11.049	0	%100
73	M67	X	-6.611	-6.611	0	%100
74	M67	Z	-11.45	-11.45	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	-3.653	-3.653	0	%100
78	M69	Z	-6.328	-6.328	0	%100
79	MP4A	X	-3.305	-3.305	0	%100
80	MP4A	Z	-5.725	-5.725	0	%100
81	MP3A	X	-3.305	-3.305	0	%100
82	MP3A	Z	-5.725	-5.725	0	%100
83	MP2A	X	-3.305	-3.305	0	%100
84	MP2A	Z	-5.725	-5.725	0	%100
85	MP1A	X	-3.305	-3.305	0	%100
86	MP1A	Z	-5.725	-5.725	0	%100
87	MP4C	X	-3.305	-3.305	0	%100
88	MP4C	Z	-5.725	-5.725	0	%100
89	MP3C	X	-3.305	-3.305	0	%100
90	MP3C	Z	-5.725	-5.725	0	%100
91	MP2C	X	-3.305	-3.305	0	%100
92	MP2C	Z	-5.725	-5.725	0	%100
93	MP1C	X	-3.305	-3.305	0	%100
94	MP1C	Z	-5.725	-5.725	0	%100
95	MP4B	X	-3.305	-3.305	0	%100
96	MP4B	Z	-5.725	-5.725	0	%100
97	MP3B	X	-3.305	-3.305	0	%100
98	MP3B	Z	-5.725	-5.725	0	%100
99	MP2B	X	-3.305	-3.305	0	%100
100	MP2B	Z	-5.725	-5.725	0	%100
101	MP1B	X	-3.305	-3.305	0	%100
102	MP1B	Z	-5.725	-5.725	0	%100
103	OVP	X	-3.012	-3.012	0	%100
104	OVP	Z	-5.217	-5.217	0	%100
105	M96	X	-3.001	-3.001	0	%100
106	M96	Z	-5.198	-5.198	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	0	0	0	%100
109	M115	X	-3.001	-3.001	0	%100
110	M115	Z	-5.198	-5.198	0	%100
111	M118	X	-.061	-.061	0	%100
112	M118	Z	-.105	-.105	0	%100
113	M119	X	-2.94	-2.94	0	%100
114	M119	Z	-5.092	-5.092	0	%100
115	M120	X	-3.845	-3.845	0	%100
116	M120	Z	-6.659	-6.659	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	-2.899	-2.899	0	%100
3	M72A	X	0	0	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	-2.406	-2.406	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	-2.406	-2.406	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	-3.775	-3.775	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	-.677	-.677	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	-.678	-.678	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	-.94	-.94	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	-.968	-.968	0	%100
21	M89A	X	0	0	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	-.94	-.94	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	-.968	-.968	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-2.169	-2.169	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-.601	-.601	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-.601	-.601	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-.944	-.944	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	-.677	-.677	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	-2.71	-2.71	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	-2.792	-2.792	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	-3.76	-3.76	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-3.873	-3.873	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-2.792	-2.792	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-.94	-.94	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	-.968	-.968	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-2.169	-2.169	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-.601	-.601	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	-.601	-.601	0	%100
57	M50	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M50	Z	-.944	-.944	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	-2.71	-2.71	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	-.678	-.678	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	-2.792	-2.792	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	-.94	-.94	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	-.968	-.968	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	-2.792	-2.792	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	-3.76	-3.76	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	-3.873	-3.873	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	-.725	-.725	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	-.725	-.725	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-2.328	-2.328	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	-2.328	-2.328	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	-2.328	-2.328	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	-2.328	-2.328	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	-2.328	-2.328	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	-2.328	-2.328	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-2.328	-2.328	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-2.328	-2.328	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	-2.328	-2.328	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-2.328	-2.328	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-2.328	-2.328	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-2.328	-2.328	0	%100
103	OVP	X	0	0	0	%100
104	OVP	Z	-2.154	-2.154	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	-2.582	-2.582	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	-.645	-.645	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	-.645	-.645	0	%100
111	M118	X	0	0	0	%100
112	M118	Z	-.38	-.38	0	%100
113	M119	X	0	0	0	%100
114	M119	Z	-2.378	-2.378	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	M120	X	0	0	0	%100
116	M120	Z	-.857	-.857	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	1.087	1.087	0	%100
2	M20	Z	-1.883	-1.883	0	%100
3	M72A	X	.362	.362	0	%100
4	M72A	Z	-.626	-.626	0	%100
5	M73	X	.902	.902	0	%100
6	M73	Z	-1.563	-1.563	0	%100
7	M74	X	.902	.902	0	%100
8	M74	Z	-1.563	-1.563	0	%100
9	M75	X	1.416	1.416	0	%100
10	M75	Z	-2.452	-2.452	0	%100
11	M78	X	1.016	1.016	0	%100
12	M78	Z	-1.76	-1.76	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	.465	.465	0	%100
16	M84	Z	-.806	-.806	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	.465	.465	0	%100
22	M89A	Z	-.806	-.806	0	%100
23	M90A	X	1.41	1.41	0	%100
24	M90A	Z	-2.442	-2.442	0	%100
25	M92	X	1.452	1.452	0	%100
26	M92	Z	-2.516	-2.516	0	%100
27	M25	X	.362	.362	0	%100
28	M25	Z	-.626	-.626	0	%100
29	M26	X	.902	.902	0	%100
30	M26	Z	-1.563	-1.563	0	%100
31	M27	X	.902	.902	0	%100
32	M27	Z	-1.563	-1.563	0	%100
33	M28	X	1.416	1.416	0	%100
34	M28	Z	-2.452	-2.452	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	1.016	1.016	0	%100
38	M32	Z	-1.76	-1.76	0	%100
39	M37	X	.465	.465	0	%100
40	M37	Z	-.806	-.806	0	%100
41	M38	X	1.41	1.41	0	%100
42	M38	Z	-2.442	-2.442	0	%100
43	M40	X	1.452	1.452	0	%100
44	M40	Z	-2.516	-2.516	0	%100
45	M42	X	.465	.465	0	%100
46	M42	Z	-.806	-.806	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	1.446	1.446	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
52	M47	Z	-2.505	-2.505	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	1.016	1.016	0	%100
60	M53	Z	-1.76	-1.76	0	%100
61	M54	X	1.016	1.016	0	%100
62	M54	Z	-1.76	-1.76	0	%100
63	M59	X	1.861	1.861	0	%100
64	M59	Z	-3.224	-3.224	0	%100
65	M60	X	1.41	1.41	0	%100
66	M60	Z	-2.442	-2.442	0	%100
67	M62	X	1.452	1.452	0	%100
68	M62	Z	-2.516	-2.516	0	%100
69	M64	X	1.861	1.861	0	%100
70	M64	Z	-3.224	-3.224	0	%100
71	M65	X	1.41	1.41	0	%100
72	M65	Z	-2.442	-2.442	0	%100
73	M67	X	1.452	1.452	0	%100
74	M67	Z	-2.516	-2.516	0	%100
75	M68	X	1.087	1.087	0	%100
76	M68	Z	-1.883	-1.883	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	1.164	1.164	0	%100
80	MP4A	Z	-2.016	-2.016	0	%100
81	MP3A	X	1.164	1.164	0	%100
82	MP3A	Z	-2.016	-2.016	0	%100
83	MP2A	X	1.164	1.164	0	%100
84	MP2A	Z	-2.016	-2.016	0	%100
85	MP1A	X	1.164	1.164	0	%100
86	MP1A	Z	-2.016	-2.016	0	%100
87	MP4C	X	1.164	1.164	0	%100
88	MP4C	Z	-2.016	-2.016	0	%100
89	MP3C	X	1.164	1.164	0	%100
90	MP3C	Z	-2.016	-2.016	0	%100
91	MP2C	X	1.164	1.164	0	%100
92	MP2C	Z	-2.016	-2.016	0	%100
93	MP1C	X	1.164	1.164	0	%100
94	MP1C	Z	-2.016	-2.016	0	%100
95	MP4B	X	1.164	1.164	0	%100
96	MP4B	Z	-2.016	-2.016	0	%100
97	MP3B	X	1.164	1.164	0	%100
98	MP3B	Z	-2.016	-2.016	0	%100
99	MP2B	X	1.164	1.164	0	%100
100	MP2B	Z	-2.016	-2.016	0	%100
101	MP1B	X	1.164	1.164	0	%100
102	MP1B	Z	-2.016	-2.016	0	%100
103	OVP	X	1.077	1.077	0	%100
104	OVP	Z	-1.865	-1.865	0	%100
105	M96	X	.968	.968	0	%100
106	M96	Z	-1.677	-1.677	0	%100
107	M112	X	.968	.968	0	%100
108	M112	Z	-1.677	-1.677	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	.776	.776	0	%100
112	M118	Z	-1.344	-1.344	0	%100
113	M119	X	1.015	1.015	0	%100
114	M119	Z	-1.758	-1.758	0	%100
115	M120	X	.016	.016	0	%100
116	M120	Z	-.028	-.028	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	.628	.628	0	%100
2	M20	Z	-.362	-.362	0	%100
3	M72A	X	1.879	1.879	0	%100
4	M72A	Z	-1.085	-1.085	0	%100
5	M73	X	.521	.521	0	%100
6	M73	Z	-.301	-.301	0	%100
7	M74	X	.521	.521	0	%100
8	M74	Z	-.301	-.301	0	%100
9	M75	X	.817	.817	0	%100
10	M75	Z	-.472	-.472	0	%100
11	M78	X	2.347	2.347	0	%100
12	M78	Z	-1.355	-1.355	0	%100
13	M79	X	.587	.587	0	%100
14	M79	Z	-.339	-.339	0	%100
15	M84	X	2.418	2.418	0	%100
16	M84	Z	-1.396	-1.396	0	%100
17	M85	X	.814	.814	0	%100
18	M85	Z	-.47	-.47	0	%100
19	M87A	X	.839	.839	0	%100
20	M87A	Z	-.484	-.484	0	%100
21	M89A	X	2.418	2.418	0	%100
22	M89A	Z	-1.396	-1.396	0	%100
23	M90A	X	3.256	3.256	0	%100
24	M90A	Z	-1.88	-1.88	0	%100
25	M92	X	3.354	3.354	0	%100
26	M92	Z	-1.937	-1.937	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	2.083	2.083	0	%100
30	M26	Z	-1.203	-1.203	0	%100
31	M27	X	2.083	2.083	0	%100
32	M27	Z	-1.203	-1.203	0	%100
33	M28	X	3.269	3.269	0	%100
34	M28	Z	-1.888	-1.888	0	%100
35	M31	X	.587	.587	0	%100
36	M31	Z	-.339	-.339	0	%100
37	M32	X	.587	.587	0	%100
38	M32	Z	-.339	-.339	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	.814	.814	0	%100
42	M38	Z	-.47	-.47	0	%100
43	M40	X	.839	.839	0	%100
44	M40	Z	-.484	-.484	0	%100
45	M42	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M42	Z	0	0	0	%100
47	M43	X	.814	.814	0	%100
48	M43	Z	-.47	-.47	0	%100
49	M45	X	.839	.839	0	%100
50	M45	Z	-.484	-.484	0	%100
51	M47	X	1.879	1.879	0	%100
52	M47	Z	-1.085	-1.085	0	%100
53	M48	X	.521	.521	0	%100
54	M48	Z	-.301	-.301	0	%100
55	M49	X	.521	.521	0	%100
56	M49	Z	-.301	-.301	0	%100
57	M50	X	.817	.817	0	%100
58	M50	Z	-.472	-.472	0	%100
59	M53	X	.587	.587	0	%100
60	M53	Z	-.339	-.339	0	%100
61	M54	X	2.347	2.347	0	%100
62	M54	Z	-1.355	-1.355	0	%100
63	M59	X	2.418	2.418	0	%100
64	M59	Z	-1.396	-1.396	0	%100
65	M60	X	3.256	3.256	0	%100
66	M60	Z	-1.88	-1.88	0	%100
67	M62	X	3.354	3.354	0	%100
68	M62	Z	-1.937	-1.937	0	%100
69	M64	X	2.418	2.418	0	%100
70	M64	Z	-1.396	-1.396	0	%100
71	M65	X	.814	.814	0	%100
72	M65	Z	-.47	-.47	0	%100
73	M67	X	.839	.839	0	%100
74	M67	Z	-.484	-.484	0	%100
75	M68	X	2.511	2.511	0	%100
76	M68	Z	-1.45	-1.45	0	%100
77	M69	X	.628	.628	0	%100
78	M69	Z	-.362	-.362	0	%100
79	MP4A	X	2.016	2.016	0	%100
80	MP4A	Z	-1.164	-1.164	0	%100
81	MP3A	X	2.016	2.016	0	%100
82	MP3A	Z	-1.164	-1.164	0	%100
83	MP2A	X	2.016	2.016	0	%100
84	MP2A	Z	-1.164	-1.164	0	%100
85	MP1A	X	2.016	2.016	0	%100
86	MP1A	Z	-1.164	-1.164	0	%100
87	MP4C	X	2.016	2.016	0	%100
88	MP4C	Z	-1.164	-1.164	0	%100
89	MP3C	X	2.016	2.016	0	%100
90	MP3C	Z	-1.164	-1.164	0	%100
91	MP2C	X	2.016	2.016	0	%100
92	MP2C	Z	-1.164	-1.164	0	%100
93	MP1C	X	2.016	2.016	0	%100
94	MP1C	Z	-1.164	-1.164	0	%100
95	MP4B	X	2.016	2.016	0	%100
96	MP4B	Z	-1.164	-1.164	0	%100
97	MP3B	X	2.016	2.016	0	%100
98	MP3B	Z	-1.164	-1.164	0	%100
99	MP2B	X	2.016	2.016	0	%100
100	MP2B	Z	-1.164	-1.164	0	%100
101	MP1B	X	2.016	2.016	0	%100
102	MP1B	Z	-1.164	-1.164	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	OVP	X	1.865	1.865	0	%100
104	OVP	Z	-1.077	-1.077	0	%100
105	M96	X	.559	.559	0	%100
106	M96	Z	-.323	-.323	0	%100
107	M112	X	2.236	2.236	0	%100
108	M112	Z	-1.291	-1.291	0	%100
109	M115	X	.559	.559	0	%100
110	M115	Z	-.323	-.323	0	%100
111	M118	X	2.059	2.059	0	%100
112	M118	Z	-1.189	-1.189	0	%100
113	M119	X	.743	.743	0	%100
114	M119	Z	-.429	-.429	0	%100
115	M120	X	.329	.329	0	%100
116	M120	Z	-.19	-.19	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M72A	X	2.892	2.892	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	0	0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0	0	0	%100
11	M78	X	2.032	2.032	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	2.033	2.033	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	3.722	3.722	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	2.82	2.82	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	2.905	2.905	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	3.722	3.722	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	2.82	2.82	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	2.905	2.905	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	.723	.723	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	1.804	1.804	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	1.804	1.804	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	2.831	2.831	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	2.032	2.032	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M37	X	.931	.931	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	.931	.931	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	2.82	2.82	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	2.905	2.905	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	.723	.723	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	1.804	1.804	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	1.804	1.804	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	2.831	2.831	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	2.033	2.033	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	.931	.931	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	2.82	2.82	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	2.905	2.905	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	.931	.931	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	0	0	0	%100
75	M68	X	2.175	2.175	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	2.175	2.175	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	2.328	2.328	0	%100
80	MP4A	Z	0	0	0	%100
81	MP3A	X	2.328	2.328	0	%100
82	MP3A	Z	0	0	0	%100
83	MP2A	X	2.328	2.328	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	2.328	2.328	0	%100
86	MP1A	Z	0	0	0	%100
87	MP4C	X	2.328	2.328	0	%100
88	MP4C	Z	0	0	0	%100
89	MP3C	X	2.328	2.328	0	%100
90	MP3C	Z	0	0	0	%100
91	MP2C	X	2.328	2.328	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	2.328	2.328	0	%100
94	MP1C	Z	0	0	0	%100
95	MP4B	X	2.328	2.328	0	%100
96	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	MP3B	X	2.328	2.328	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	2.328	2.328	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	2.328	2.328	0	%100
102	MP1B	Z	0	0	0	%100
103	OVP	X	2.154	2.154	0	%100
104	OVP	Z	0	0	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	0	0	0	%100
107	M112	X	1.936	1.936	0	%100
108	M112	Z	0	0	0	%100
109	M115	X	1.936	1.936	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	2.03	2.03	0	%100
112	M118	Z	0	0	0	%100
113	M119	X	.032	.032	0	%100
114	M119	Z	0	0	0	%100
115	M120	X	1.552	1.552	0	%100
116	M120	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	.628	.628	0	%100
2	M20	Z	.362	.362	0	%100
3	M72A	X	1.879	1.879	0	%100
4	M72A	Z	1.085	1.085	0	%100
5	M73	X	.521	.521	0	%100
6	M73	Z	.301	.301	0	%100
7	M74	X	.521	.521	0	%100
8	M74	Z	.301	.301	0	%100
9	M75	X	.817	.817	0	%100
10	M75	Z	.472	.472	0	%100
11	M78	X	.587	.587	0	%100
12	M78	Z	.339	.339	0	%100
13	M79	X	2.347	2.347	0	%100
14	M79	Z	1.355	1.355	0	%100
15	M84	X	2.418	2.418	0	%100
16	M84	Z	1.396	1.396	0	%100
17	M85	X	3.256	3.256	0	%100
18	M85	Z	1.88	1.88	0	%100
19	M87A	X	3.354	3.354	0	%100
20	M87A	Z	1.937	1.937	0	%100
21	M89A	X	2.418	2.418	0	%100
22	M89A	Z	1.396	1.396	0	%100
23	M90A	X	.814	.814	0	%100
24	M90A	Z	.47	.47	0	%100
25	M92	X	.839	.839	0	%100
26	M92	Z	.484	.484	0	%100
27	M25	X	1.879	1.879	0	%100
28	M25	Z	1.085	1.085	0	%100
29	M26	X	.521	.521	0	%100
30	M26	Z	.301	.301	0	%100
31	M27	X	.521	.521	0	%100
32	M27	Z	.301	.301	0	%100
33	M28	X	.817	.817	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M28	Z	.472	.472	0	%100
35	M31	X	2.347	2.347	0	%100
36	M31	Z	1.355	1.355	0	%100
37	M32	X	.587	.587	0	%100
38	M32	Z	.339	.339	0	%100
39	M37	X	2.418	2.418	0	%100
40	M37	Z	1.396	1.396	0	%100
41	M38	X	.814	.814	0	%100
42	M38	Z	.47	.47	0	%100
43	M40	X	.839	.839	0	%100
44	M40	Z	.484	.484	0	%100
45	M42	X	2.418	2.418	0	%100
46	M42	Z	1.396	1.396	0	%100
47	M43	X	3.256	3.256	0	%100
48	M43	Z	1.88	1.88	0	%100
49	M45	X	3.354	3.354	0	%100
50	M45	Z	1.937	1.937	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	2.083	2.083	0	%100
54	M48	Z	1.203	1.203	0	%100
55	M49	X	2.083	2.083	0	%100
56	M49	Z	1.203	1.203	0	%100
57	M50	X	3.269	3.269	0	%100
58	M50	Z	1.888	1.888	0	%100
59	M53	X	.587	.587	0	%100
60	M53	Z	.339	.339	0	%100
61	M54	X	.587	.587	0	%100
62	M54	Z	.339	.339	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	.814	.814	0	%100
66	M60	Z	.47	.47	0	%100
67	M62	X	.839	.839	0	%100
68	M62	Z	.484	.484	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	.814	.814	0	%100
72	M65	Z	.47	.47	0	%100
73	M67	X	.839	.839	0	%100
74	M67	Z	.484	.484	0	%100
75	M68	X	.628	.628	0	%100
76	M68	Z	.362	.362	0	%100
77	M69	X	2.511	2.511	0	%100
78	M69	Z	1.45	1.45	0	%100
79	MP4A	X	2.016	2.016	0	%100
80	MP4A	Z	1.164	1.164	0	%100
81	MP3A	X	2.016	2.016	0	%100
82	MP3A	Z	1.164	1.164	0	%100
83	MP2A	X	2.016	2.016	0	%100
84	MP2A	Z	1.164	1.164	0	%100
85	MP1A	X	2.016	2.016	0	%100
86	MP1A	Z	1.164	1.164	0	%100
87	MP4C	X	2.016	2.016	0	%100
88	MP4C	Z	1.164	1.164	0	%100
89	MP3C	X	2.016	2.016	0	%100
90	MP3C	Z	1.164	1.164	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	MP2C	X	2.016	2.016	0	%100
92	MP2C	Z	1.164	1.164	0	%100
93	MP1C	X	2.016	2.016	0	%100
94	MP1C	Z	1.164	1.164	0	%100
95	MP4B	X	2.016	2.016	0	%100
96	MP4B	Z	1.164	1.164	0	%100
97	MP3B	X	2.016	2.016	0	%100
98	MP3B	Z	1.164	1.164	0	%100
99	MP2B	X	2.016	2.016	0	%100
100	MP2B	Z	1.164	1.164	0	%100
101	MP1B	X	2.016	2.016	0	%100
102	MP1B	Z	1.164	1.164	0	%100
103	OVP	X	1.865	1.865	0	%100
104	OVP	Z	1.077	1.077	0	%100
105	M96	X	.559	.559	0	%100
106	M96	Z	.323	.323	0	%100
107	M112	X	.559	.559	0	%100
108	M112	Z	.323	.323	0	%100
109	M115	X	2.236	2.236	0	%100
110	M115	Z	1.291	1.291	0	%100
111	M118	X	.743	.743	0	%100
112	M118	Z	.429	.429	0	%100
113	M119	X	.329	.329	0	%100
114	M119	Z	.19	.19	0	%100
115	M120	X	2.059	2.059	0	%100
116	M120	Z	1.189	1.189	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	1.087	1.087	0	%100
2	M20	Z	1.883	1.883	0	%100
3	M72A	X	.362	.362	0	%100
4	M72A	Z	.626	.626	0	%100
5	M73	X	.902	.902	0	%100
6	M73	Z	1.563	1.563	0	%100
7	M74	X	.902	.902	0	%100
8	M74	Z	1.563	1.563	0	%100
9	M75	X	1.416	1.416	0	%100
10	M75	Z	2.452	2.452	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	1.016	1.016	0	%100
14	M79	Z	1.76	1.76	0	%100
15	M84	X	.465	.465	0	%100
16	M84	Z	.806	.806	0	%100
17	M85	X	1.41	1.41	0	%100
18	M85	Z	2.442	2.442	0	%100
19	M87A	X	1.452	1.452	0	%100
20	M87A	Z	2.516	2.516	0	%100
21	M89A	X	.465	.465	0	%100
22	M89A	Z	.806	.806	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	1.446	1.446	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	M25	Z	2.505	2.505	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	1.016	1.016	0	%100
36	M31	Z	1.76	1.76	0	%100
37	M32	X	1.016	1.016	0	%100
38	M32	Z	1.76	1.76	0	%100
39	M37	X	1.861	1.861	0	%100
40	M37	Z	3.224	3.224	0	%100
41	M38	X	1.41	1.41	0	%100
42	M38	Z	2.442	2.442	0	%100
43	M40	X	1.452	1.452	0	%100
44	M40	Z	2.516	2.516	0	%100
45	M42	X	1.861	1.861	0	%100
46	M42	Z	3.224	3.224	0	%100
47	M43	X	1.41	1.41	0	%100
48	M43	Z	2.442	2.442	0	%100
49	M45	X	1.452	1.452	0	%100
50	M45	Z	2.516	2.516	0	%100
51	M47	X	.362	.362	0	%100
52	M47	Z	.626	.626	0	%100
53	M48	X	.902	.902	0	%100
54	M48	Z	1.563	1.563	0	%100
55	M49	X	.902	.902	0	%100
56	M49	Z	1.563	1.563	0	%100
57	M50	X	1.416	1.416	0	%100
58	M50	Z	2.452	2.452	0	%100
59	M53	X	1.016	1.016	0	%100
60	M53	Z	1.76	1.76	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	.465	.465	0	%100
64	M59	Z	.806	.806	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	.465	.465	0	%100
70	M64	Z	.806	.806	0	%100
71	M65	X	1.41	1.41	0	%100
72	M65	Z	2.442	2.442	0	%100
73	M67	X	1.452	1.452	0	%100
74	M67	Z	2.516	2.516	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	1.087	1.087	0	%100
78	M69	Z	1.883	1.883	0	%100
79	MP4A	X	1.164	1.164	0	%100
80	MP4A	Z	2.016	2.016	0	%100
81	MP3A	X	1.164	1.164	0	%100
82	MP3A	Z	2.016	2.016	0	%100
83	MP2A	X	1.164	1.164	0	%100
84	MP2A	Z	2.016	2.016	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
85	MP1A	X	1.164	1.164	0	%100
86	MP1A	Z	2.016	2.016	0	%100
87	MP4C	X	1.164	1.164	0	%100
88	MP4C	Z	2.016	2.016	0	%100
89	MP3C	X	1.164	1.164	0	%100
90	MP3C	Z	2.016	2.016	0	%100
91	MP2C	X	1.164	1.164	0	%100
92	MP2C	Z	2.016	2.016	0	%100
93	MP1C	X	1.164	1.164	0	%100
94	MP1C	Z	2.016	2.016	0	%100
95	MP4B	X	1.164	1.164	0	%100
96	MP4B	Z	2.016	2.016	0	%100
97	MP3B	X	1.164	1.164	0	%100
98	MP3B	Z	2.016	2.016	0	%100
99	MP2B	X	1.164	1.164	0	%100
100	MP2B	Z	2.016	2.016	0	%100
101	MP1B	X	1.164	1.164	0	%100
102	MP1B	Z	2.016	2.016	0	%100
103	OVP	X	1.077	1.077	0	%100
104	OVP	Z	1.865	1.865	0	%100
105	M96	X	.968	.968	0	%100
106	M96	Z	1.677	1.677	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	0	0	0	%100
109	M115	X	.968	.968	0	%100
110	M115	Z	1.677	1.677	0	%100
111	M118	X	.016	.016	0	%100
112	M118	Z	.028	.028	0	%100
113	M119	X	.776	.776	0	%100
114	M119	Z	1.344	1.344	0	%100
115	M120	X	1.015	1.015	0	%100
116	M120	Z	1.758	1.758	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	2.899	2.899	0	%100
3	M72A	X	0	0	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	2.406	2.406	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	2.406	2.406	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	3.775	3.775	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	.677	.677	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	.678	.678	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	.94	.94	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	.968	.968	0	%100
21	M89A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	.94	.94	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	.968	.968	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	2.169	2.169	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	.601	.601	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	.601	.601	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	.944	.944	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	.677	.677	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	2.71	2.71	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	2.792	2.792	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	3.76	3.76	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	3.873	3.873	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	2.792	2.792	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	.94	.94	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	.968	.968	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	2.169	2.169	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	.601	.601	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	.601	.601	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	.944	.944	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	2.71	2.71	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	.678	.678	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	2.792	2.792	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	.94	.94	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	.968	.968	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	2.792	2.792	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	3.76	3.76	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	3.873	3.873	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	.725	.725	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	.725	.725	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	MP4A	X	0	0	0	%100
80	MP4A	Z	2.328	2.328	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	2.328	2.328	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	2.328	2.328	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	2.328	2.328	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	2.328	2.328	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	2.328	2.328	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	2.328	2.328	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	2.328	2.328	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	2.328	2.328	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	2.328	2.328	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	2.328	2.328	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	2.328	2.328	0	%100
103	OVP	X	0	0	0	%100
104	OVP	Z	2.154	2.154	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	2.582	2.582	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	.645	.645	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	.645	.645	0	%100
111	M118	X	0	0	0	%100
112	M118	Z	.38	.38	0	%100
113	M119	X	0	0	0	%100
114	M119	Z	2.378	2.378	0	%100
115	M120	X	0	0	0	%100
116	M120	Z	.857	.857	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-1.087	-1.087	0	%100
2	M20	Z	1.883	1.883	0	%100
3	M72A	X	-.362	-.362	0	%100
4	M72A	Z	.626	.626	0	%100
5	M73	X	-.902	-.902	0	%100
6	M73	Z	1.563	1.563	0	%100
7	M74	X	-.902	-.902	0	%100
8	M74	Z	1.563	1.563	0	%100
9	M75	X	-1.416	-1.416	0	%100
10	M75	Z	2.452	2.452	0	%100
11	M78	X	-1.016	-1.016	0	%100
12	M78	Z	1.76	1.76	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	-.465	-.465	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M84	Z	.806	.806	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	-.465	-.465	0	%100
22	M89A	Z	.806	.806	0	%100
23	M90A	X	-1.41	-1.41	0	%100
24	M90A	Z	2.442	2.442	0	%100
25	M92	X	-1.452	-1.452	0	%100
26	M92	Z	2.516	2.516	0	%100
27	M25	X	-.362	-.362	0	%100
28	M25	Z	.626	.626	0	%100
29	M26	X	-.902	-.902	0	%100
30	M26	Z	1.563	1.563	0	%100
31	M27	X	-.902	-.902	0	%100
32	M27	Z	1.563	1.563	0	%100
33	M28	X	-1.416	-1.416	0	%100
34	M28	Z	2.452	2.452	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	-1.016	-1.016	0	%100
38	M32	Z	1.76	1.76	0	%100
39	M37	X	-.465	-.465	0	%100
40	M37	Z	.806	.806	0	%100
41	M38	X	-1.41	-1.41	0	%100
42	M38	Z	2.442	2.442	0	%100
43	M40	X	-1.452	-1.452	0	%100
44	M40	Z	2.516	2.516	0	%100
45	M42	X	-.465	-.465	0	%100
46	M42	Z	.806	.806	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	-1.446	-1.446	0	%100
52	M47	Z	2.505	2.505	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	-1.016	-1.016	0	%100
60	M53	Z	1.76	1.76	0	%100
61	M54	X	-1.016	-1.016	0	%100
62	M54	Z	1.76	1.76	0	%100
63	M59	X	-1.861	-1.861	0	%100
64	M59	Z	3.224	3.224	0	%100
65	M60	X	-1.41	-1.41	0	%100
66	M60	Z	2.442	2.442	0	%100
67	M62	X	-1.452	-1.452	0	%100
68	M62	Z	2.516	2.516	0	%100
69	M64	X	-1.861	-1.861	0	%100
70	M64	Z	3.224	3.224	0	%100
71	M65	X	-1.41	-1.41	0	%100
72	M65	Z	2.442	2.442	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
73	M67	X	-1.452	-1.452	0	%100
74	M67	Z	2.516	2.516	0	%100
75	M68	X	-1.087	-1.087	0	%100
76	M68	Z	1.883	1.883	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	-1.164	-1.164	0	%100
80	MP4A	Z	2.016	2.016	0	%100
81	MP3A	X	-1.164	-1.164	0	%100
82	MP3A	Z	2.016	2.016	0	%100
83	MP2A	X	-1.164	-1.164	0	%100
84	MP2A	Z	2.016	2.016	0	%100
85	MP1A	X	-1.164	-1.164	0	%100
86	MP1A	Z	2.016	2.016	0	%100
87	MP4C	X	-1.164	-1.164	0	%100
88	MP4C	Z	2.016	2.016	0	%100
89	MP3C	X	-1.164	-1.164	0	%100
90	MP3C	Z	2.016	2.016	0	%100
91	MP2C	X	-1.164	-1.164	0	%100
92	MP2C	Z	2.016	2.016	0	%100
93	MP1C	X	-1.164	-1.164	0	%100
94	MP1C	Z	2.016	2.016	0	%100
95	MP4B	X	-1.164	-1.164	0	%100
96	MP4B	Z	2.016	2.016	0	%100
97	MP3B	X	-1.164	-1.164	0	%100
98	MP3B	Z	2.016	2.016	0	%100
99	MP2B	X	-1.164	-1.164	0	%100
100	MP2B	Z	2.016	2.016	0	%100
101	MP1B	X	-1.164	-1.164	0	%100
102	MP1B	Z	2.016	2.016	0	%100
103	OVP	X	-1.077	-1.077	0	%100
104	OVP	Z	1.865	1.865	0	%100
105	M96	X	-.968	-.968	0	%100
106	M96	Z	1.677	1.677	0	%100
107	M112	X	-.968	-.968	0	%100
108	M112	Z	1.677	1.677	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	-.776	-.776	0	%100
112	M118	Z	1.344	1.344	0	%100
113	M119	X	-1.015	-1.015	0	%100
114	M119	Z	1.758	1.758	0	%100
115	M120	X	-.016	-.016	0	%100
116	M120	Z	.028	.028	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-.628	-.628	0	%100
2	M20	Z	.362	.362	0	%100
3	M72A	X	-1.879	-1.879	0	%100
4	M72A	Z	1.085	1.085	0	%100
5	M73	X	-.521	-.521	0	%100
6	M73	Z	.301	.301	0	%100
7	M74	X	-.521	-.521	0	%100
8	M74	Z	.301	.301	0	%100
9	M75	X	-.817	-.817	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	M75	Z	.472	.472	0	%100
11	M78	X	-2.347	-2.347	0	%100
12	M78	Z	1.355	1.355	0	%100
13	M79	X	-.587	-.587	0	%100
14	M79	Z	.339	.339	0	%100
15	M84	X	-2.418	-2.418	0	%100
16	M84	Z	1.396	1.396	0	%100
17	M85	X	-.814	-.814	0	%100
18	M85	Z	.47	.47	0	%100
19	M87A	X	-.839	-.839	0	%100
20	M87A	Z	.484	.484	0	%100
21	M89A	X	-2.418	-2.418	0	%100
22	M89A	Z	1.396	1.396	0	%100
23	M90A	X	-3.256	-3.256	0	%100
24	M90A	Z	1.88	1.88	0	%100
25	M92	X	-3.354	-3.354	0	%100
26	M92	Z	1.937	1.937	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-2.083	-2.083	0	%100
30	M26	Z	1.203	1.203	0	%100
31	M27	X	-2.083	-2.083	0	%100
32	M27	Z	1.203	1.203	0	%100
33	M28	X	-3.269	-3.269	0	%100
34	M28	Z	1.888	1.888	0	%100
35	M31	X	-.587	-.587	0	%100
36	M31	Z	.339	.339	0	%100
37	M32	X	-.587	-.587	0	%100
38	M32	Z	.339	.339	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	-.814	-.814	0	%100
42	M38	Z	.47	.47	0	%100
43	M40	X	-.839	-.839	0	%100
44	M40	Z	.484	.484	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-.814	-.814	0	%100
48	M43	Z	.47	.47	0	%100
49	M45	X	-.839	-.839	0	%100
50	M45	Z	.484	.484	0	%100
51	M47	X	-1.879	-1.879	0	%100
52	M47	Z	1.085	1.085	0	%100
53	M48	X	-.521	-.521	0	%100
54	M48	Z	.301	.301	0	%100
55	M49	X	-.521	-.521	0	%100
56	M49	Z	.301	.301	0	%100
57	M50	X	-.817	-.817	0	%100
58	M50	Z	.472	.472	0	%100
59	M53	X	-.587	-.587	0	%100
60	M53	Z	.339	.339	0	%100
61	M54	X	-2.347	-2.347	0	%100
62	M54	Z	1.355	1.355	0	%100
63	M59	X	-2.418	-2.418	0	%100
64	M59	Z	1.396	1.396	0	%100
65	M60	X	-3.256	-3.256	0	%100
66	M60	Z	1.88	1.88	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
67	M62	X	-3.354	-3.354	0	%100
68	M62	Z	1.937	1.937	0	%100
69	M64	X	-2.418	-2.418	0	%100
70	M64	Z	1.396	1.396	0	%100
71	M65	X	-.814	-.814	0	%100
72	M65	Z	.47	.47	0	%100
73	M67	X	-.839	-.839	0	%100
74	M67	Z	.484	.484	0	%100
75	M68	X	-2.511	-2.511	0	%100
76	M68	Z	1.45	1.45	0	%100
77	M69	X	-.628	-.628	0	%100
78	M69	Z	.362	.362	0	%100
79	MP4A	X	-2.016	-2.016	0	%100
80	MP4A	Z	1.164	1.164	0	%100
81	MP3A	X	-2.016	-2.016	0	%100
82	MP3A	Z	1.164	1.164	0	%100
83	MP2A	X	-2.016	-2.016	0	%100
84	MP2A	Z	1.164	1.164	0	%100
85	MP1A	X	-2.016	-2.016	0	%100
86	MP1A	Z	1.164	1.164	0	%100
87	MP4C	X	-2.016	-2.016	0	%100
88	MP4C	Z	1.164	1.164	0	%100
89	MP3C	X	-2.016	-2.016	0	%100
90	MP3C	Z	1.164	1.164	0	%100
91	MP2C	X	-2.016	-2.016	0	%100
92	MP2C	Z	1.164	1.164	0	%100
93	MP1C	X	-2.016	-2.016	0	%100
94	MP1C	Z	1.164	1.164	0	%100
95	MP4B	X	-2.016	-2.016	0	%100
96	MP4B	Z	1.164	1.164	0	%100
97	MP3B	X	-2.016	-2.016	0	%100
98	MP3B	Z	1.164	1.164	0	%100
99	MP2B	X	-2.016	-2.016	0	%100
100	MP2B	Z	1.164	1.164	0	%100
101	MP1B	X	-2.016	-2.016	0	%100
102	MP1B	Z	1.164	1.164	0	%100
103	OVP	X	-1.865	-1.865	0	%100
104	OVP	Z	1.077	1.077	0	%100
105	M96	X	-.559	-.559	0	%100
106	M96	Z	.323	.323	0	%100
107	M112	X	-2.236	-2.236	0	%100
108	M112	Z	1.291	1.291	0	%100
109	M115	X	-.559	-.559	0	%100
110	M115	Z	.323	.323	0	%100
111	M118	X	-2.059	-2.059	0	%100
112	M118	Z	1.189	1.189	0	%100
113	M119	X	-.743	-.743	0	%100
114	M119	Z	.429	.429	0	%100
115	M120	X	-.329	-.329	0	%100
116	M120	Z	.19	.19	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M72A	X	-2.892	-2.892	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	0	0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0	0	0	%100
11	M78	X	-2.032	-2.032	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	-2.033	-2.033	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	-3.722	-3.722	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	-2.82	-2.82	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	-2.905	-2.905	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	-3.722	-3.722	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	-2.82	-2.82	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	-2.905	-2.905	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	-.723	-.723	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-1.804	-1.804	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-1.804	-1.804	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-2.831	-2.831	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	-2.032	-2.032	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M37	X	-.931	-.931	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	-.931	-.931	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-2.82	-2.82	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	-2.905	-2.905	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	-.723	-.723	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-1.804	-1.804	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	-1.804	-1.804	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	-2.831	-2.831	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
61	M54	X	-2.033	-2.033	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	-.931	-.931	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	-2.82	-2.82	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	-2.905	-2.905	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	-.931	-.931	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	0	0	0	%100
75	M68	X	-2.175	-2.175	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	-2.175	-2.175	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	-2.328	-2.328	0	%100
80	MP4A	Z	0	0	0	%100
81	MP3A	X	-2.328	-2.328	0	%100
82	MP3A	Z	0	0	0	%100
83	MP2A	X	-2.328	-2.328	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	-2.328	-2.328	0	%100
86	MP1A	Z	0	0	0	%100
87	MP4C	X	-2.328	-2.328	0	%100
88	MP4C	Z	0	0	0	%100
89	MP3C	X	-2.328	-2.328	0	%100
90	MP3C	Z	0	0	0	%100
91	MP2C	X	-2.328	-2.328	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-2.328	-2.328	0	%100
94	MP1C	Z	0	0	0	%100
95	MP4B	X	-2.328	-2.328	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	-2.328	-2.328	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	-2.328	-2.328	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-2.328	-2.328	0	%100
102	MP1B	Z	0	0	0	%100
103	OVP	X	-2.154	-2.154	0	%100
104	OVP	Z	0	0	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	0	0	0	%100
107	M112	X	-1.936	-1.936	0	%100
108	M112	Z	0	0	0	%100
109	M115	X	-1.936	-1.936	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	-2.03	-2.03	0	%100
112	M118	Z	0	0	0	%100
113	M119	X	-.032	-.032	0	%100
114	M119	Z	0	0	0	%100
115	M120	X	-1.552	-1.552	0	%100
116	M120	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-.628	-.628	0	%100
2	M20	Z	-.362	-.362	0	%100
3	M72A	X	-1.879	-1.879	0	%100
4	M72A	Z	-1.085	-1.085	0	%100
5	M73	X	-.521	-.521	0	%100
6	M73	Z	-.301	-.301	0	%100
7	M74	X	-.521	-.521	0	%100
8	M74	Z	-.301	-.301	0	%100
9	M75	X	-.817	-.817	0	%100
10	M75	Z	-.472	-.472	0	%100
11	M78	X	-.587	-.587	0	%100
12	M78	Z	-.339	-.339	0	%100
13	M79	X	-2.347	-2.347	0	%100
14	M79	Z	-1.355	-1.355	0	%100
15	M84	X	-2.418	-2.418	0	%100
16	M84	Z	-1.396	-1.396	0	%100
17	M85	X	-3.256	-3.256	0	%100
18	M85	Z	-1.88	-1.88	0	%100
19	M87A	X	-3.354	-3.354	0	%100
20	M87A	Z	-1.937	-1.937	0	%100
21	M89A	X	-2.418	-2.418	0	%100
22	M89A	Z	-1.396	-1.396	0	%100
23	M90A	X	-.814	-.814	0	%100
24	M90A	Z	-.47	-.47	0	%100
25	M92	X	-.839	-.839	0	%100
26	M92	Z	-.484	-.484	0	%100
27	M25	X	-1.879	-1.879	0	%100
28	M25	Z	-1.085	-1.085	0	%100
29	M26	X	-.521	-.521	0	%100
30	M26	Z	-.301	-.301	0	%100
31	M27	X	-.521	-.521	0	%100
32	M27	Z	-.301	-.301	0	%100
33	M28	X	-.817	-.817	0	%100
34	M28	Z	-.472	-.472	0	%100
35	M31	X	-2.347	-2.347	0	%100
36	M31	Z	-1.355	-1.355	0	%100
37	M32	X	-.587	-.587	0	%100
38	M32	Z	-.339	-.339	0	%100
39	M37	X	-2.418	-2.418	0	%100
40	M37	Z	-1.396	-1.396	0	%100
41	M38	X	-.814	-.814	0	%100
42	M38	Z	-.47	-.47	0	%100
43	M40	X	-.839	-.839	0	%100
44	M40	Z	-.484	-.484	0	%100
45	M42	X	-2.418	-2.418	0	%100
46	M42	Z	-1.396	-1.396	0	%100
47	M43	X	-3.256	-3.256	0	%100
48	M43	Z	-1.88	-1.88	0	%100
49	M45	X	-3.354	-3.354	0	%100
50	M45	Z	-1.937	-1.937	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-2.083	-2.083	0	%100
54	M48	Z	-1.203	-1.203	0	%100
55	M49	X	-2.083	-2.083	0	%100
56	M49	Z	-1.203	-1.203	0	%100
57	M50	X	-3.269	-3.269	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M50	Z	-1.888	-1.888	0	%100
59	M53	X	-.587	-.587	0	%100
60	M53	Z	-.339	-.339	0	%100
61	M54	X	-.587	-.587	0	%100
62	M54	Z	-.339	-.339	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	-.814	-.814	0	%100
66	M60	Z	-.47	-.47	0	%100
67	M62	X	-.839	-.839	0	%100
68	M62	Z	-.484	-.484	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	-.814	-.814	0	%100
72	M65	Z	-.47	-.47	0	%100
73	M67	X	-.839	-.839	0	%100
74	M67	Z	-.484	-.484	0	%100
75	M68	X	-.628	-.628	0	%100
76	M68	Z	-.362	-.362	0	%100
77	M69	X	-2.511	-2.511	0	%100
78	M69	Z	-1.45	-1.45	0	%100
79	MP4A	X	-2.016	-2.016	0	%100
80	MP4A	Z	-1.164	-1.164	0	%100
81	MP3A	X	-2.016	-2.016	0	%100
82	MP3A	Z	-1.164	-1.164	0	%100
83	MP2A	X	-2.016	-2.016	0	%100
84	MP2A	Z	-1.164	-1.164	0	%100
85	MP1A	X	-2.016	-2.016	0	%100
86	MP1A	Z	-1.164	-1.164	0	%100
87	MP4C	X	-2.016	-2.016	0	%100
88	MP4C	Z	-1.164	-1.164	0	%100
89	MP3C	X	-2.016	-2.016	0	%100
90	MP3C	Z	-1.164	-1.164	0	%100
91	MP2C	X	-2.016	-2.016	0	%100
92	MP2C	Z	-1.164	-1.164	0	%100
93	MP1C	X	-2.016	-2.016	0	%100
94	MP1C	Z	-1.164	-1.164	0	%100
95	MP4B	X	-2.016	-2.016	0	%100
96	MP4B	Z	-1.164	-1.164	0	%100
97	MP3B	X	-2.016	-2.016	0	%100
98	MP3B	Z	-1.164	-1.164	0	%100
99	MP2B	X	-2.016	-2.016	0	%100
100	MP2B	Z	-1.164	-1.164	0	%100
101	MP1B	X	-2.016	-2.016	0	%100
102	MP1B	Z	-1.164	-1.164	0	%100
103	OVP	X	-1.865	-1.865	0	%100
104	OVP	Z	-1.077	-1.077	0	%100
105	M96	X	-.559	-.559	0	%100
106	M96	Z	-.323	-.323	0	%100
107	M112	X	-.559	-.559	0	%100
108	M112	Z	-.323	-.323	0	%100
109	M115	X	-2.236	-2.236	0	%100
110	M115	Z	-1.291	-1.291	0	%100
111	M118	X	-.743	-.743	0	%100
112	M118	Z	-.429	-.429	0	%100
113	M119	X	-.329	-.329	0	%100
114	M119	Z	-.19	-.19	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	M120	X	-2.059	-2.059	0	%100
116	M120	Z	-1.189	-1.189	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-1.087	-1.087	0	%100
2	M20	Z	-1.883	-1.883	0	%100
3	M72A	X	-.362	-.362	0	%100
4	M72A	Z	-.626	-.626	0	%100
5	M73	X	-.902	-.902	0	%100
6	M73	Z	-1.563	-1.563	0	%100
7	M74	X	-.902	-.902	0	%100
8	M74	Z	-1.563	-1.563	0	%100
9	M75	X	-1.416	-1.416	0	%100
10	M75	Z	-2.452	-2.452	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	-1.016	-1.016	0	%100
14	M79	Z	-1.76	-1.76	0	%100
15	M84	X	-.465	-.465	0	%100
16	M84	Z	-.806	-.806	0	%100
17	M85	X	-1.41	-1.41	0	%100
18	M85	Z	-2.442	-2.442	0	%100
19	M87A	X	-1.452	-1.452	0	%100
20	M87A	Z	-2.516	-2.516	0	%100
21	M89A	X	-.465	-.465	0	%100
22	M89A	Z	-.806	-.806	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	-1.446	-1.446	0	%100
28	M25	Z	-2.505	-2.505	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	-1.016	-1.016	0	%100
36	M31	Z	-1.76	-1.76	0	%100
37	M32	X	-1.016	-1.016	0	%100
38	M32	Z	-1.76	-1.76	0	%100
39	M37	X	-1.861	-1.861	0	%100
40	M37	Z	-3.224	-3.224	0	%100
41	M38	X	-1.41	-1.41	0	%100
42	M38	Z	-2.442	-2.442	0	%100
43	M40	X	-1.452	-1.452	0	%100
44	M40	Z	-2.516	-2.516	0	%100
45	M42	X	-1.861	-1.861	0	%100
46	M42	Z	-3.224	-3.224	0	%100
47	M43	X	-1.41	-1.41	0	%100
48	M43	Z	-2.442	-2.442	0	%100
49	M45	X	-1.452	-1.452	0	%100
50	M45	Z	-2.516	-2.516	0	%100
51	M47	X	-.362	-.362	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
52	M47	Z	-.626	-.626	0	%100
53	M48	X	-.902	-.902	0	%100
54	M48	Z	-1.563	-1.563	0	%100
55	M49	X	-.902	-.902	0	%100
56	M49	Z	-1.563	-1.563	0	%100
57	M50	X	-1.416	-1.416	0	%100
58	M50	Z	-2.452	-2.452	0	%100
59	M53	X	-1.016	-1.016	0	%100
60	M53	Z	-1.76	-1.76	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	-.465	-.465	0	%100
64	M59	Z	-.806	-.806	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	-.465	-.465	0	%100
70	M64	Z	-.806	-.806	0	%100
71	M65	X	-1.41	-1.41	0	%100
72	M65	Z	-2.442	-2.442	0	%100
73	M67	X	-1.452	-1.452	0	%100
74	M67	Z	-2.516	-2.516	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	-1.087	-1.087	0	%100
78	M69	Z	-1.883	-1.883	0	%100
79	MP4A	X	-1.164	-1.164	0	%100
80	MP4A	Z	-2.016	-2.016	0	%100
81	MP3A	X	-1.164	-1.164	0	%100
82	MP3A	Z	-2.016	-2.016	0	%100
83	MP2A	X	-1.164	-1.164	0	%100
84	MP2A	Z	-2.016	-2.016	0	%100
85	MP1A	X	-1.164	-1.164	0	%100
86	MP1A	Z	-2.016	-2.016	0	%100
87	MP4C	X	-1.164	-1.164	0	%100
88	MP4C	Z	-2.016	-2.016	0	%100
89	MP3C	X	-1.164	-1.164	0	%100
90	MP3C	Z	-2.016	-2.016	0	%100
91	MP2C	X	-1.164	-1.164	0	%100
92	MP2C	Z	-2.016	-2.016	0	%100
93	MP1C	X	-1.164	-1.164	0	%100
94	MP1C	Z	-2.016	-2.016	0	%100
95	MP4B	X	-1.164	-1.164	0	%100
96	MP4B	Z	-2.016	-2.016	0	%100
97	MP3B	X	-1.164	-1.164	0	%100
98	MP3B	Z	-2.016	-2.016	0	%100
99	MP2B	X	-1.164	-1.164	0	%100
100	MP2B	Z	-2.016	-2.016	0	%100
101	MP1B	X	-1.164	-1.164	0	%100
102	MP1B	Z	-2.016	-2.016	0	%100
103	OVP	X	-1.077	-1.077	0	%100
104	OVP	Z	-1.865	-1.865	0	%100
105	M96	X	-.968	-.968	0	%100
106	M96	Z	-1.677	-1.677	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
109	M115	X	-.968	-.968	0	%100
110	M115	Z	-1.677	-1.677	0	%100
111	M118	X	-.016	-.016	0	%100
112	M118	Z	-.028	-.028	0	%100
113	M119	X	-.776	-.776	0	%100
114	M119	Z	-1.344	-1.344	0	%100
115	M120	X	-1.015	-1.015	0	%100
116	M120	Z	-1.758	-1.758	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	-.641	-.641	0	%100
3	M72A	X	0	0	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	-.552	-.552	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	-.552	-.552	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	-1.098	-1.098	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	-.149	-.149	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	-.149	-.149	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	-.28	-.28	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	-.29	-.29	0	%100
21	M89A	X	0	0	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	-.28	-.28	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	-.29	-.29	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-.478	-.478	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-.138	-.138	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-.138	-.138	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-.275	-.275	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	-.149	-.149	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	-.598	-.598	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	-.829	-.829	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	-1.118	-1.118	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-1.159	-1.159	0	%100
45	M42	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M42	Z	-.829	-.829	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-.28	-.28	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	-.29	-.29	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-.478	-.478	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-.138	-.138	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	-.138	-.138	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	-.275	-.275	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	-.598	-.598	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	-.149	-.149	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	-.829	-.829	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	-.28	-.28	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	-.29	-.29	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	-.829	-.829	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	-1.118	-1.118	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	-1.159	-1.159	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	-.16	-.16	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	-.16	-.16	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-.435	-.435	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	-.435	-.435	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	-.435	-.435	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	-.435	-.435	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	-.435	-.435	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	-.435	-.435	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-.435	-.435	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-.435	-.435	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	-.435	-.435	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-.435	-.435	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-.435	-.435	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-.435	-.435	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	OVP	X	0	0	0	%100
104	OVP	Z	-.396	-.396	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	-.526	-.526	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	-.132	-.132	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	-.132	-.132	0	%100
111	M118	X	0	0	0	%100
112	M118	Z	-.095	-.095	0	%100
113	M119	X	0	0	0	%100
114	M119	Z	-.592	-.592	0	%100
115	M120	X	0	0	0	%100
116	M120	Z	-.213	-.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	.24	.24	0	%100
2	M20	Z	-.416	-.416	0	%100
3	M72A	X	.08	.08	0	%100
4	M72A	Z	-.138	-.138	0	%100
5	M73	X	.207	.207	0	%100
6	M73	Z	-.358	-.358	0	%100
7	M74	X	.207	.207	0	%100
8	M74	Z	-.358	-.358	0	%100
9	M75	X	.412	.412	0	%100
10	M75	Z	-.713	-.713	0	%100
11	M78	X	.224	.224	0	%100
12	M78	Z	-.388	-.388	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	.138	.138	0	%100
16	M84	Z	-.239	-.239	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	.138	.138	0	%100
22	M89A	Z	-.239	-.239	0	%100
23	M90A	X	.419	.419	0	%100
24	M90A	Z	-.726	-.726	0	%100
25	M92	X	.435	.435	0	%100
26	M92	Z	-.753	-.753	0	%100
27	M25	X	.08	.08	0	%100
28	M25	Z	-.138	-.138	0	%100
29	M26	X	.207	.207	0	%100
30	M26	Z	-.358	-.358	0	%100
31	M27	X	.207	.207	0	%100
32	M27	Z	-.358	-.358	0	%100
33	M28	X	.412	.412	0	%100
34	M28	Z	-.713	-.713	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	.224	.224	0	%100
38	M32	Z	-.388	-.388	0	%100
39	M37	X	.138	.138	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	M37	Z	-.239	-.239	0	%100
41	M38	X	.419	.419	0	%100
42	M38	Z	-.726	-.726	0	%100
43	M40	X	.435	.435	0	%100
44	M40	Z	-.753	-.753	0	%100
45	M42	X	.138	.138	0	%100
46	M42	Z	-.239	-.239	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	.319	.319	0	%100
52	M47	Z	-.553	-.553	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	.224	.224	0	%100
60	M53	Z	-.388	-.388	0	%100
61	M54	X	.224	.224	0	%100
62	M54	Z	-.388	-.388	0	%100
63	M59	X	.552	.552	0	%100
64	M59	Z	-.957	-.957	0	%100
65	M60	X	.419	.419	0	%100
66	M60	Z	-.726	-.726	0	%100
67	M62	X	.435	.435	0	%100
68	M62	Z	-.753	-.753	0	%100
69	M64	X	.552	.552	0	%100
70	M64	Z	-.957	-.957	0	%100
71	M65	X	.419	.419	0	%100
72	M65	Z	-.726	-.726	0	%100
73	M67	X	.435	.435	0	%100
74	M67	Z	-.753	-.753	0	%100
75	M68	X	.24	.24	0	%100
76	M68	Z	-.416	-.416	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	.217	.217	0	%100
80	MP4A	Z	-.376	-.376	0	%100
81	MP3A	X	.217	.217	0	%100
82	MP3A	Z	-.376	-.376	0	%100
83	MP2A	X	.217	.217	0	%100
84	MP2A	Z	-.376	-.376	0	%100
85	MP1A	X	.217	.217	0	%100
86	MP1A	Z	-.376	-.376	0	%100
87	MP4C	X	.217	.217	0	%100
88	MP4C	Z	-.376	-.376	0	%100
89	MP3C	X	.217	.217	0	%100
90	MP3C	Z	-.376	-.376	0	%100
91	MP2C	X	.217	.217	0	%100
92	MP2C	Z	-.376	-.376	0	%100
93	MP1C	X	.217	.217	0	%100
94	MP1C	Z	-.376	-.376	0	%100
95	MP4B	X	.217	.217	0	%100
96	MP4B	Z	-.376	-.376	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	MP3B	X	.217	.217	0	%100
98	MP3B	Z	-.376	-.376	0	%100
99	MP2B	X	.217	.217	0	%100
100	MP2B	Z	-.376	-.376	0	%100
101	MP1B	X	.217	.217	0	%100
102	MP1B	Z	-.376	-.376	0	%100
103	OVP	X	.198	.198	0	%100
104	OVP	Z	-.343	-.343	0	%100
105	M96	X	.197	.197	0	%100
106	M96	Z	-.342	-.342	0	%100
107	M112	X	.197	.197	0	%100
108	M112	Z	-.342	-.342	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	.193	.193	0	%100
112	M118	Z	-.335	-.335	0	%100
113	M119	X	.253	.253	0	%100
114	M119	Z	-.438	-.438	0	%100
115	M120	X	.004	.004	0	%100
116	M120	Z	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	.139	.139	0	%100
2	M20	Z	-.08	-.08	0	%100
3	M72A	X	.414	.414	0	%100
4	M72A	Z	-.239	-.239	0	%100
5	M73	X	.119	.119	0	%100
6	M73	Z	-.069	-.069	0	%100
7	M74	X	.119	.119	0	%100
8	M74	Z	-.069	-.069	0	%100
9	M75	X	.238	.238	0	%100
10	M75	Z	-.137	-.137	0	%100
11	M78	X	.518	.518	0	%100
12	M78	Z	-.299	-.299	0	%100
13	M79	X	.129	.129	0	%100
14	M79	Z	-.075	-.075	0	%100
15	M84	X	.718	.718	0	%100
16	M84	Z	-.414	-.414	0	%100
17	M85	X	.242	.242	0	%100
18	M85	Z	-.14	-.14	0	%100
19	M87A	X	.251	.251	0	%100
20	M87A	Z	-.145	-.145	0	%100
21	M89A	X	.718	.718	0	%100
22	M89A	Z	-.414	-.414	0	%100
23	M90A	X	.969	.969	0	%100
24	M90A	Z	-.559	-.559	0	%100
25	M92	X	1.004	1.004	0	%100
26	M92	Z	-.58	-.58	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	.478	.478	0	%100
30	M26	Z	-.276	-.276	0	%100
31	M27	X	.478	.478	0	%100
32	M27	Z	-.276	-.276	0	%100
33	M28	X	.951	.951	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M28	Z	-.549	-.549	0	%100
35	M31	X	.129	.129	0	%100
36	M31	Z	-.075	-.075	0	%100
37	M32	X	.129	.129	0	%100
38	M32	Z	-.075	-.075	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	.242	.242	0	%100
42	M38	Z	-.14	-.14	0	%100
43	M40	X	.251	.251	0	%100
44	M40	Z	-.145	-.145	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	.242	.242	0	%100
48	M43	Z	-.14	-.14	0	%100
49	M45	X	.251	.251	0	%100
50	M45	Z	-.145	-.145	0	%100
51	M47	X	.414	.414	0	%100
52	M47	Z	-.239	-.239	0	%100
53	M48	X	.119	.119	0	%100
54	M48	Z	-.069	-.069	0	%100
55	M49	X	.119	.119	0	%100
56	M49	Z	-.069	-.069	0	%100
57	M50	X	.238	.238	0	%100
58	M50	Z	-.137	-.137	0	%100
59	M53	X	.129	.129	0	%100
60	M53	Z	-.075	-.075	0	%100
61	M54	X	.518	.518	0	%100
62	M54	Z	-.299	-.299	0	%100
63	M59	X	.718	.718	0	%100
64	M59	Z	-.414	-.414	0	%100
65	M60	X	.969	.969	0	%100
66	M60	Z	-.559	-.559	0	%100
67	M62	X	1.004	1.004	0	%100
68	M62	Z	-.58	-.58	0	%100
69	M64	X	.718	.718	0	%100
70	M64	Z	-.414	-.414	0	%100
71	M65	X	.242	.242	0	%100
72	M65	Z	-.14	-.14	0	%100
73	M67	X	.251	.251	0	%100
74	M67	Z	-.145	-.145	0	%100
75	M68	X	.555	.555	0	%100
76	M68	Z	-.32	-.32	0	%100
77	M69	X	.139	.139	0	%100
78	M69	Z	-.08	-.08	0	%100
79	MP4A	X	.376	.376	0	%100
80	MP4A	Z	-.217	-.217	0	%100
81	MP3A	X	.376	.376	0	%100
82	MP3A	Z	-.217	-.217	0	%100
83	MP2A	X	.376	.376	0	%100
84	MP2A	Z	-.217	-.217	0	%100
85	MP1A	X	.376	.376	0	%100
86	MP1A	Z	-.217	-.217	0	%100
87	MP4C	X	.376	.376	0	%100
88	MP4C	Z	-.217	-.217	0	%100
89	MP3C	X	.376	.376	0	%100
90	MP3C	Z	-.217	-.217	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	MP2C	X	.376	.376	0	%100
92	MP2C	Z	-.217	-.217	0	%100
93	MP1C	X	.376	.376	0	%100
94	MP1C	Z	-.217	-.217	0	%100
95	MP4B	X	.376	.376	0	%100
96	MP4B	Z	-.217	-.217	0	%100
97	MP3B	X	.376	.376	0	%100
98	MP3B	Z	-.217	-.217	0	%100
99	MP2B	X	.376	.376	0	%100
100	MP2B	Z	-.217	-.217	0	%100
101	MP1B	X	.376	.376	0	%100
102	MP1B	Z	-.217	-.217	0	%100
103	OVP	X	.343	.343	0	%100
104	OVP	Z	-.198	-.198	0	%100
105	M96	X	.114	.114	0	%100
106	M96	Z	-.066	-.066	0	%100
107	M112	X	.456	.456	0	%100
108	M112	Z	-.263	-.263	0	%100
109	M115	X	.114	.114	0	%100
110	M115	Z	-.066	-.066	0	%100
111	M118	X	.513	.513	0	%100
112	M118	Z	-.296	-.296	0	%100
113	M119	X	.185	.185	0	%100
114	M119	Z	-.107	-.107	0	%100
115	M120	X	.082	.082	0	%100
116	M120	Z	-.047	-.047	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M72A	X	.638	.638	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	0	0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0	0	0	%100
11	M78	X	.448	.448	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	.448	.448	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	1.105	1.105	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	.839	.839	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	.869	.869	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	1.105	1.105	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	.839	.839	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	.869	.869	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	.159	.159	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	M25	Z	0	0	0	%100
29	M26	X	.414	.414	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	.414	.414	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	.824	.824	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	.448	.448	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M37	X	.276	.276	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	.276	.276	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	.839	.839	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	.869	.869	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	.159	.159	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	.414	.414	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	.414	.414	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	.824	.824	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	.448	.448	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	.276	.276	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	.839	.839	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	.869	.869	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	.276	.276	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	0	0	0	%100
75	M68	X	.48	.48	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	.48	.48	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	.435	.435	0	%100
80	MP4A	Z	0	0	0	%100
81	MP3A	X	.435	.435	0	%100
82	MP3A	Z	0	0	0	%100
83	MP2A	X	.435	.435	0	%100
84	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
85	MP1A	X	.435	.435	0	%100
86	MP1A	Z	0	0	0	%100
87	MP4C	X	.435	.435	0	%100
88	MP4C	Z	0	0	0	%100
89	MP3C	X	.435	.435	0	%100
90	MP3C	Z	0	0	0	%100
91	MP2C	X	.435	.435	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	.435	.435	0	%100
94	MP1C	Z	0	0	0	%100
95	MP4B	X	.435	.435	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	.435	.435	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	.435	.435	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	.435	.435	0	%100
102	MP1B	Z	0	0	0	%100
103	OVP	X	.396	.396	0	%100
104	OVP	Z	0	0	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	0	0	0	%100
107	M112	X	.395	.395	0	%100
108	M112	Z	0	0	0	%100
109	M115	X	.395	.395	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	.506	.506	0	%100
112	M118	Z	0	0	0	%100
113	M119	X	.008	.008	0	%100
114	M119	Z	0	0	0	%100
115	M120	X	.387	.387	0	%100
116	M120	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	.139	.139	0	%100
2	M20	Z	.08	.08	0	%100
3	M72A	X	.414	.414	0	%100
4	M72A	Z	.239	.239	0	%100
5	M73	X	.119	.119	0	%100
6	M73	Z	.069	.069	0	%100
7	M74	X	.119	.119	0	%100
8	M74	Z	.069	.069	0	%100
9	M75	X	.238	.238	0	%100
10	M75	Z	.137	.137	0	%100
11	M78	X	.129	.129	0	%100
12	M78	Z	.075	.075	0	%100
13	M79	X	.518	.518	0	%100
14	M79	Z	.299	.299	0	%100
15	M84	X	.718	.718	0	%100
16	M84	Z	.414	.414	0	%100
17	M85	X	.969	.969	0	%100
18	M85	Z	.559	.559	0	%100
19	M87A	X	1.004	1.004	0	%100
20	M87A	Z	.58	.58	0	%100
21	M89A	X	.718	.718	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M89A	Z	.414	.414	0	%100
23	M90A	X	.242	.242	0	%100
24	M90A	Z	.14	.14	0	%100
25	M92	X	.251	.251	0	%100
26	M92	Z	.145	.145	0	%100
27	M25	X	.414	.414	0	%100
28	M25	Z	.239	.239	0	%100
29	M26	X	.119	.119	0	%100
30	M26	Z	.069	.069	0	%100
31	M27	X	.119	.119	0	%100
32	M27	Z	.069	.069	0	%100
33	M28	X	.238	.238	0	%100
34	M28	Z	.137	.137	0	%100
35	M31	X	.518	.518	0	%100
36	M31	Z	.299	.299	0	%100
37	M32	X	.129	.129	0	%100
38	M32	Z	.075	.075	0	%100
39	M37	X	.718	.718	0	%100
40	M37	Z	.414	.414	0	%100
41	M38	X	.242	.242	0	%100
42	M38	Z	.14	.14	0	%100
43	M40	X	.251	.251	0	%100
44	M40	Z	.145	.145	0	%100
45	M42	X	.718	.718	0	%100
46	M42	Z	.414	.414	0	%100
47	M43	X	.969	.969	0	%100
48	M43	Z	.559	.559	0	%100
49	M45	X	1.004	1.004	0	%100
50	M45	Z	.58	.58	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	.478	.478	0	%100
54	M48	Z	.276	.276	0	%100
55	M49	X	.478	.478	0	%100
56	M49	Z	.276	.276	0	%100
57	M50	X	.951	.951	0	%100
58	M50	Z	.549	.549	0	%100
59	M53	X	.129	.129	0	%100
60	M53	Z	.075	.075	0	%100
61	M54	X	.129	.129	0	%100
62	M54	Z	.075	.075	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	.242	.242	0	%100
66	M60	Z	.14	.14	0	%100
67	M62	X	.251	.251	0	%100
68	M62	Z	.145	.145	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	.242	.242	0	%100
72	M65	Z	.14	.14	0	%100
73	M67	X	.251	.251	0	%100
74	M67	Z	.145	.145	0	%100
75	M68	X	.139	.139	0	%100
76	M68	Z	.08	.08	0	%100
77	M69	X	.555	.555	0	%100
78	M69	Z	.32	.32	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	MP4A	X	.376	.376	0	%100
80	MP4A	Z	.217	.217	0	%100
81	MP3A	X	.376	.376	0	%100
82	MP3A	Z	.217	.217	0	%100
83	MP2A	X	.376	.376	0	%100
84	MP2A	Z	.217	.217	0	%100
85	MP1A	X	.376	.376	0	%100
86	MP1A	Z	.217	.217	0	%100
87	MP4C	X	.376	.376	0	%100
88	MP4C	Z	.217	.217	0	%100
89	MP3C	X	.376	.376	0	%100
90	MP3C	Z	.217	.217	0	%100
91	MP2C	X	.376	.376	0	%100
92	MP2C	Z	.217	.217	0	%100
93	MP1C	X	.376	.376	0	%100
94	MP1C	Z	.217	.217	0	%100
95	MP4B	X	.376	.376	0	%100
96	MP4B	Z	.217	.217	0	%100
97	MP3B	X	.376	.376	0	%100
98	MP3B	Z	.217	.217	0	%100
99	MP2B	X	.376	.376	0	%100
100	MP2B	Z	.217	.217	0	%100
101	MP1B	X	.376	.376	0	%100
102	MP1B	Z	.217	.217	0	%100
103	OVP	X	.343	.343	0	%100
104	OVP	Z	.198	.198	0	%100
105	M96	X	.114	.114	0	%100
106	M96	Z	.066	.066	0	%100
107	M112	X	.114	.114	0	%100
108	M112	Z	.066	.066	0	%100
109	M115	X	.456	.456	0	%100
110	M115	Z	.263	.263	0	%100
111	M118	X	.185	.185	0	%100
112	M118	Z	.107	.107	0	%100
113	M119	X	.082	.082	0	%100
114	M119	Z	.047	.047	0	%100
115	M120	X	.513	.513	0	%100
116	M120	Z	.296	.296	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	.24	.24	0	%100
2	M20	Z	.416	.416	0	%100
3	M72A	X	.08	.08	0	%100
4	M72A	Z	.138	.138	0	%100
5	M73	X	.207	.207	0	%100
6	M73	Z	.358	.358	0	%100
7	M74	X	.207	.207	0	%100
8	M74	Z	.358	.358	0	%100
9	M75	X	.412	.412	0	%100
10	M75	Z	.713	.713	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	.224	.224	0	%100
14	M79	Z	.388	.388	0	%100
15	M84	X	.138	.138	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M84	Z	.239	.239	0	%100
17	M85	X	.419	.419	0	%100
18	M85	Z	.726	.726	0	%100
19	M87A	X	.435	.435	0	%100
20	M87A	Z	.753	.753	0	%100
21	M89A	X	.138	.138	0	%100
22	M89A	Z	.239	.239	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	.319	.319	0	%100
28	M25	Z	.553	.553	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	.224	.224	0	%100
36	M31	Z	.388	.388	0	%100
37	M32	X	.224	.224	0	%100
38	M32	Z	.388	.388	0	%100
39	M37	X	.552	.552	0	%100
40	M37	Z	.957	.957	0	%100
41	M38	X	.419	.419	0	%100
42	M38	Z	.726	.726	0	%100
43	M40	X	.435	.435	0	%100
44	M40	Z	.753	.753	0	%100
45	M42	X	.552	.552	0	%100
46	M42	Z	.957	.957	0	%100
47	M43	X	.419	.419	0	%100
48	M43	Z	.726	.726	0	%100
49	M45	X	.435	.435	0	%100
50	M45	Z	.753	.753	0	%100
51	M47	X	.08	.08	0	%100
52	M47	Z	.138	.138	0	%100
53	M48	X	.207	.207	0	%100
54	M48	Z	.358	.358	0	%100
55	M49	X	.207	.207	0	%100
56	M49	Z	.358	.358	0	%100
57	M50	X	.412	.412	0	%100
58	M50	Z	.713	.713	0	%100
59	M53	X	.224	.224	0	%100
60	M53	Z	.388	.388	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	.138	.138	0	%100
64	M59	Z	.239	.239	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	.138	.138	0	%100
70	M64	Z	.239	.239	0	%100
71	M65	X	.419	.419	0	%100
72	M65	Z	.726	.726	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
73	M67	X	.435	.435	0	%100
74	M67	Z	.753	.753	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	.24	.24	0	%100
78	M69	Z	.416	.416	0	%100
79	MP4A	X	.217	.217	0	%100
80	MP4A	Z	.376	.376	0	%100
81	MP3A	X	.217	.217	0	%100
82	MP3A	Z	.376	.376	0	%100
83	MP2A	X	.217	.217	0	%100
84	MP2A	Z	.376	.376	0	%100
85	MP1A	X	.217	.217	0	%100
86	MP1A	Z	.376	.376	0	%100
87	MP4C	X	.217	.217	0	%100
88	MP4C	Z	.376	.376	0	%100
89	MP3C	X	.217	.217	0	%100
90	MP3C	Z	.376	.376	0	%100
91	MP2C	X	.217	.217	0	%100
92	MP2C	Z	.376	.376	0	%100
93	MP1C	X	.217	.217	0	%100
94	MP1C	Z	.376	.376	0	%100
95	MP4B	X	.217	.217	0	%100
96	MP4B	Z	.376	.376	0	%100
97	MP3B	X	.217	.217	0	%100
98	MP3B	Z	.376	.376	0	%100
99	MP2B	X	.217	.217	0	%100
100	MP2B	Z	.376	.376	0	%100
101	MP1B	X	.217	.217	0	%100
102	MP1B	Z	.376	.376	0	%100
103	OVP	X	.198	.198	0	%100
104	OVP	Z	.343	.343	0	%100
105	M96	X	.197	.197	0	%100
106	M96	Z	.342	.342	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	0	0	0	%100
109	M115	X	.197	.197	0	%100
110	M115	Z	.342	.342	0	%100
111	M118	X	.004	.004	0	%100
112	M118	Z	.007	.007	0	%100
113	M119	X	.193	.193	0	%100
114	M119	Z	.335	.335	0	%100
115	M120	X	.253	.253	0	%100
116	M120	Z	.438	.438	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	.641	.641	0	%100
3	M72A	X	0	0	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	.552	.552	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	.552	.552	0	%100
9	M75	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	M75	Z	1.098	1.098	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	.149	.149	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	.149	.149	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	.28	.28	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	.29	.29	0	%100
21	M89A	X	0	0	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	.28	.28	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	.29	.29	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	.478	.478	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	.138	.138	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	.138	.138	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	.275	.275	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	.149	.149	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	.598	.598	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	.829	.829	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	1.118	1.118	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	1.159	1.159	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	.829	.829	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	.28	.28	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	.29	.29	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.478	.478	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	.138	.138	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	.138	.138	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	.275	.275	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	.598	.598	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	.149	.149	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	.829	.829	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	.28	.28	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
67	M62	X	0	0	0	%100
68	M62	Z	.29	.29	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	.829	.829	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	1.118	1.118	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	1.159	1.159	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	.16	.16	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	.16	.16	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	.435	.435	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	.435	.435	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	.435	.435	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	.435	.435	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	.435	.435	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	.435	.435	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	.435	.435	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	.435	.435	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	.435	.435	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	.435	.435	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	.435	.435	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	.435	.435	0	%100
103	OVP	X	0	0	0	%100
104	OVP	Z	.396	.396	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	.526	.526	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	.132	.132	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	.132	.132	0	%100
111	M118	X	0	0	0	%100
112	M118	Z	.095	.095	0	%100
113	M119	X	0	0	0	%100
114	M119	Z	.592	.592	0	%100
115	M120	X	0	0	0	%100
116	M120	Z	.213	.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-.24	-.24	0	%100
2	M20	Z	.416	.416	0	%100
3	M72A	X	-.08	-.08	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M72A	Z	.138	.138	0	%100
5	M73	X	-.207	-.207	0	%100
6	M73	Z	.358	.358	0	%100
7	M74	X	-.207	-.207	0	%100
8	M74	Z	.358	.358	0	%100
9	M75	X	-.412	-.412	0	%100
10	M75	Z	.713	.713	0	%100
11	M78	X	-.224	-.224	0	%100
12	M78	Z	.388	.388	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	-.138	-.138	0	%100
16	M84	Z	.239	.239	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	-.138	-.138	0	%100
22	M89A	Z	.239	.239	0	%100
23	M90A	X	-.419	-.419	0	%100
24	M90A	Z	.726	.726	0	%100
25	M92	X	-.435	-.435	0	%100
26	M92	Z	.753	.753	0	%100
27	M25	X	-.08	-.08	0	%100
28	M25	Z	.138	.138	0	%100
29	M26	X	-.207	-.207	0	%100
30	M26	Z	.358	.358	0	%100
31	M27	X	-.207	-.207	0	%100
32	M27	Z	.358	.358	0	%100
33	M28	X	-.412	-.412	0	%100
34	M28	Z	.713	.713	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	-.224	-.224	0	%100
38	M32	Z	.388	.388	0	%100
39	M37	X	-.138	-.138	0	%100
40	M37	Z	.239	.239	0	%100
41	M38	X	-.419	-.419	0	%100
42	M38	Z	.726	.726	0	%100
43	M40	X	-.435	-.435	0	%100
44	M40	Z	.753	.753	0	%100
45	M42	X	-.138	-.138	0	%100
46	M42	Z	.239	.239	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	-.319	-.319	0	%100
52	M47	Z	.553	.553	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	-.224	-.224	0	%100
60	M53	Z	.388	.388	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
61	M54	X	-.224	-.224	0	%100
62	M54	Z	.388	.388	0	%100
63	M59	X	-.552	-.552	0	%100
64	M59	Z	.957	.957	0	%100
65	M60	X	-.419	-.419	0	%100
66	M60	Z	.726	.726	0	%100
67	M62	X	-.435	-.435	0	%100
68	M62	Z	.753	.753	0	%100
69	M64	X	-.552	-.552	0	%100
70	M64	Z	.957	.957	0	%100
71	M65	X	-.419	-.419	0	%100
72	M65	Z	.726	.726	0	%100
73	M67	X	-.435	-.435	0	%100
74	M67	Z	.753	.753	0	%100
75	M68	X	-.24	-.24	0	%100
76	M68	Z	.416	.416	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	-.217	-.217	0	%100
80	MP4A	Z	.376	.376	0	%100
81	MP3A	X	-.217	-.217	0	%100
82	MP3A	Z	.376	.376	0	%100
83	MP2A	X	-.217	-.217	0	%100
84	MP2A	Z	.376	.376	0	%100
85	MP1A	X	-.217	-.217	0	%100
86	MP1A	Z	.376	.376	0	%100
87	MP4C	X	-.217	-.217	0	%100
88	MP4C	Z	.376	.376	0	%100
89	MP3C	X	-.217	-.217	0	%100
90	MP3C	Z	.376	.376	0	%100
91	MP2C	X	-.217	-.217	0	%100
92	MP2C	Z	.376	.376	0	%100
93	MP1C	X	-.217	-.217	0	%100
94	MP1C	Z	.376	.376	0	%100
95	MP4B	X	-.217	-.217	0	%100
96	MP4B	Z	.376	.376	0	%100
97	MP3B	X	-.217	-.217	0	%100
98	MP3B	Z	.376	.376	0	%100
99	MP2B	X	-.217	-.217	0	%100
100	MP2B	Z	.376	.376	0	%100
101	MP1B	X	-.217	-.217	0	%100
102	MP1B	Z	.376	.376	0	%100
103	OVP	X	-.198	-.198	0	%100
104	OVP	Z	.343	.343	0	%100
105	M96	X	-.197	-.197	0	%100
106	M96	Z	.342	.342	0	%100
107	M112	X	-.197	-.197	0	%100
108	M112	Z	.342	.342	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	-.193	-.193	0	%100
112	M118	Z	.335	.335	0	%100
113	M119	X	-.253	-.253	0	%100
114	M119	Z	.438	.438	0	%100
115	M120	X	-.004	-.004	0	%100
116	M120	Z	.007	.007	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-.139	-.139	0	%100
2	M20	Z	.08	.08	0	%100
3	M72A	X	-.414	-.414	0	%100
4	M72A	Z	.239	.239	0	%100
5	M73	X	-.119	-.119	0	%100
6	M73	Z	.069	.069	0	%100
7	M74	X	-.119	-.119	0	%100
8	M74	Z	.069	.069	0	%100
9	M75	X	-.238	-.238	0	%100
10	M75	Z	.137	.137	0	%100
11	M78	X	-.518	-.518	0	%100
12	M78	Z	.299	.299	0	%100
13	M79	X	-.129	-.129	0	%100
14	M79	Z	.075	.075	0	%100
15	M84	X	-.718	-.718	0	%100
16	M84	Z	.414	.414	0	%100
17	M85	X	-.242	-.242	0	%100
18	M85	Z	.14	.14	0	%100
19	M87A	X	-.251	-.251	0	%100
20	M87A	Z	.145	.145	0	%100
21	M89A	X	-.718	-.718	0	%100
22	M89A	Z	.414	.414	0	%100
23	M90A	X	-.969	-.969	0	%100
24	M90A	Z	.559	.559	0	%100
25	M92	X	-1.004	-1.004	0	%100
26	M92	Z	.58	.58	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-.478	-.478	0	%100
30	M26	Z	.276	.276	0	%100
31	M27	X	-.478	-.478	0	%100
32	M27	Z	.276	.276	0	%100
33	M28	X	-.951	-.951	0	%100
34	M28	Z	.549	.549	0	%100
35	M31	X	-.129	-.129	0	%100
36	M31	Z	.075	.075	0	%100
37	M32	X	-.129	-.129	0	%100
38	M32	Z	.075	.075	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	-.242	-.242	0	%100
42	M38	Z	.14	.14	0	%100
43	M40	X	-.251	-.251	0	%100
44	M40	Z	.145	.145	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-.242	-.242	0	%100
48	M43	Z	.14	.14	0	%100
49	M45	X	-.251	-.251	0	%100
50	M45	Z	.145	.145	0	%100
51	M47	X	-.414	-.414	0	%100
52	M47	Z	.239	.239	0	%100
53	M48	X	-.119	-.119	0	%100
54	M48	Z	.069	.069	0	%100
55	M49	X	-.119	-.119	0	%100
56	M49	Z	.069	.069	0	%100
57	M50	X	-.238	-.238	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M50	Z	.137	.137	0	%100
59	M53	X	-.129	-.129	0	%100
60	M53	Z	.075	.075	0	%100
61	M54	X	-.518	-.518	0	%100
62	M54	Z	.299	.299	0	%100
63	M59	X	-.718	-.718	0	%100
64	M59	Z	.414	.414	0	%100
65	M60	X	-.969	-.969	0	%100
66	M60	Z	.559	.559	0	%100
67	M62	X	-1.004	-1.004	0	%100
68	M62	Z	.58	.58	0	%100
69	M64	X	-.718	-.718	0	%100
70	M64	Z	.414	.414	0	%100
71	M65	X	-.242	-.242	0	%100
72	M65	Z	.14	.14	0	%100
73	M67	X	-.251	-.251	0	%100
74	M67	Z	.145	.145	0	%100
75	M68	X	-.555	-.555	0	%100
76	M68	Z	.32	.32	0	%100
77	M69	X	-.139	-.139	0	%100
78	M69	Z	.08	.08	0	%100
79	MP4A	X	-.376	-.376	0	%100
80	MP4A	Z	.217	.217	0	%100
81	MP3A	X	-.376	-.376	0	%100
82	MP3A	Z	.217	.217	0	%100
83	MP2A	X	-.376	-.376	0	%100
84	MP2A	Z	.217	.217	0	%100
85	MP1A	X	-.376	-.376	0	%100
86	MP1A	Z	.217	.217	0	%100
87	MP4C	X	-.376	-.376	0	%100
88	MP4C	Z	.217	.217	0	%100
89	MP3C	X	-.376	-.376	0	%100
90	MP3C	Z	.217	.217	0	%100
91	MP2C	X	-.376	-.376	0	%100
92	MP2C	Z	.217	.217	0	%100
93	MP1C	X	-.376	-.376	0	%100
94	MP1C	Z	.217	.217	0	%100
95	MP4B	X	-.376	-.376	0	%100
96	MP4B	Z	.217	.217	0	%100
97	MP3B	X	-.376	-.376	0	%100
98	MP3B	Z	.217	.217	0	%100
99	MP2B	X	-.376	-.376	0	%100
100	MP2B	Z	.217	.217	0	%100
101	MP1B	X	-.376	-.376	0	%100
102	MP1B	Z	.217	.217	0	%100
103	OVP	X	-.343	-.343	0	%100
104	OVP	Z	.198	.198	0	%100
105	M96	X	-.114	-.114	0	%100
106	M96	Z	.066	.066	0	%100
107	M112	X	-.456	-.456	0	%100
108	M112	Z	.263	.263	0	%100
109	M115	X	-.114	-.114	0	%100
110	M115	Z	.066	.066	0	%100
111	M118	X	-.513	-.513	0	%100
112	M118	Z	.296	.296	0	%100
113	M119	X	-.185	-.185	0	%100
114	M119	Z	.107	.107	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	M120	X	-.082	-.082	0	%100
116	M120	Z	.047	.047	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M72A	X	-.638	-.638	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	0	0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0	0	0	%100
11	M78	X	-.448	-.448	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	-.448	-.448	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	-1.105	-1.105	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	-.839	-.839	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	-.869	-.869	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	-1.105	-1.105	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	-.839	-.839	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	-.869	-.869	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	-.159	-.159	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-.414	-.414	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-.414	-.414	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-.824	-.824	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	-.448	-.448	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M37	X	-.276	-.276	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	-.276	-.276	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-.839	-.839	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	-.869	-.869	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	-.159	-.159	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
52	M47	Z	0	0	0	%100
53	M48	X	-.414	-.414	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	-.414	-.414	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	-.824	-.824	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	-.448	-.448	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	-.276	-.276	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	-.839	-.839	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	-.869	-.869	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	-.276	-.276	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	0	0	0	%100
75	M68	X	-.48	-.48	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	-.48	-.48	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	-.435	-.435	0	%100
80	MP4A	Z	0	0	0	%100
81	MP3A	X	-.435	-.435	0	%100
82	MP3A	Z	0	0	0	%100
83	MP2A	X	-.435	-.435	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	-.435	-.435	0	%100
86	MP1A	Z	0	0	0	%100
87	MP4C	X	-.435	-.435	0	%100
88	MP4C	Z	0	0	0	%100
89	MP3C	X	-.435	-.435	0	%100
90	MP3C	Z	0	0	0	%100
91	MP2C	X	-.435	-.435	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-.435	-.435	0	%100
94	MP1C	Z	0	0	0	%100
95	MP4B	X	-.435	-.435	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	-.435	-.435	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	-.435	-.435	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-.435	-.435	0	%100
102	MP1B	Z	0	0	0	%100
103	OVP	X	-.396	-.396	0	%100
104	OVP	Z	0	0	0	%100
105	M96	X	0	0	0	%100
106	M96	Z	0	0	0	%100
107	M112	X	-.395	-.395	0	%100
108	M112	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
109	M115	X	-.395	-.395	0	%100
110	M115	Z	0	0	0	%100
111	M118	X	-.506	-.506	0	%100
112	M118	Z	0	0	0	%100
113	M119	X	-.008	-.008	0	%100
114	M119	Z	0	0	0	%100
115	M120	X	-.387	-.387	0	%100
116	M120	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-.139	-.139	0	%100
2	M20	Z	-.08	-.08	0	%100
3	M72A	X	-.414	-.414	0	%100
4	M72A	Z	-.239	-.239	0	%100
5	M73	X	-.119	-.119	0	%100
6	M73	Z	-.069	-.069	0	%100
7	M74	X	-.119	-.119	0	%100
8	M74	Z	-.069	-.069	0	%100
9	M75	X	-.238	-.238	0	%100
10	M75	Z	-.137	-.137	0	%100
11	M78	X	-.129	-.129	0	%100
12	M78	Z	-.075	-.075	0	%100
13	M79	X	-.518	-.518	0	%100
14	M79	Z	-.299	-.299	0	%100
15	M84	X	-.718	-.718	0	%100
16	M84	Z	-.414	-.414	0	%100
17	M85	X	-.969	-.969	0	%100
18	M85	Z	-.559	-.559	0	%100
19	M87A	X	-1.004	-1.004	0	%100
20	M87A	Z	-.58	-.58	0	%100
21	M89A	X	-.718	-.718	0	%100
22	M89A	Z	-.414	-.414	0	%100
23	M90A	X	-.242	-.242	0	%100
24	M90A	Z	-.14	-.14	0	%100
25	M92	X	-.251	-.251	0	%100
26	M92	Z	-.145	-.145	0	%100
27	M25	X	-.414	-.414	0	%100
28	M25	Z	-.239	-.239	0	%100
29	M26	X	-.119	-.119	0	%100
30	M26	Z	-.069	-.069	0	%100
31	M27	X	-.119	-.119	0	%100
32	M27	Z	-.069	-.069	0	%100
33	M28	X	-.238	-.238	0	%100
34	M28	Z	-.137	-.137	0	%100
35	M31	X	-.518	-.518	0	%100
36	M31	Z	-.299	-.299	0	%100
37	M32	X	-.129	-.129	0	%100
38	M32	Z	-.075	-.075	0	%100
39	M37	X	-.718	-.718	0	%100
40	M37	Z	-.414	-.414	0	%100
41	M38	X	-.242	-.242	0	%100
42	M38	Z	-.14	-.14	0	%100
43	M40	X	-.251	-.251	0	%100
44	M40	Z	-.145	-.145	0	%100
45	M42	X	-.718	-.718	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M42	Z	-.414	-.414	0	%100
47	M43	X	-.969	-.969	0	%100
48	M43	Z	-.559	-.559	0	%100
49	M45	X	-1.004	-1.004	0	%100
50	M45	Z	-.58	-.58	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-.478	-.478	0	%100
54	M48	Z	-.276	-.276	0	%100
55	M49	X	-.478	-.478	0	%100
56	M49	Z	-.276	-.276	0	%100
57	M50	X	-.951	-.951	0	%100
58	M50	Z	-.549	-.549	0	%100
59	M53	X	-.129	-.129	0	%100
60	M53	Z	-.075	-.075	0	%100
61	M54	X	-.129	-.129	0	%100
62	M54	Z	-.075	-.075	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	-.242	-.242	0	%100
66	M60	Z	-.14	-.14	0	%100
67	M62	X	-.251	-.251	0	%100
68	M62	Z	-.145	-.145	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	-.242	-.242	0	%100
72	M65	Z	-.14	-.14	0	%100
73	M67	X	-.251	-.251	0	%100
74	M67	Z	-.145	-.145	0	%100
75	M68	X	-.139	-.139	0	%100
76	M68	Z	-.08	-.08	0	%100
77	M69	X	-.555	-.555	0	%100
78	M69	Z	-.32	-.32	0	%100
79	MP4A	X	-.376	-.376	0	%100
80	MP4A	Z	-.217	-.217	0	%100
81	MP3A	X	-.376	-.376	0	%100
82	MP3A	Z	-.217	-.217	0	%100
83	MP2A	X	-.376	-.376	0	%100
84	MP2A	Z	-.217	-.217	0	%100
85	MP1A	X	-.376	-.376	0	%100
86	MP1A	Z	-.217	-.217	0	%100
87	MP4C	X	-.376	-.376	0	%100
88	MP4C	Z	-.217	-.217	0	%100
89	MP3C	X	-.376	-.376	0	%100
90	MP3C	Z	-.217	-.217	0	%100
91	MP2C	X	-.376	-.376	0	%100
92	MP2C	Z	-.217	-.217	0	%100
93	MP1C	X	-.376	-.376	0	%100
94	MP1C	Z	-.217	-.217	0	%100
95	MP4B	X	-.376	-.376	0	%100
96	MP4B	Z	-.217	-.217	0	%100
97	MP3B	X	-.376	-.376	0	%100
98	MP3B	Z	-.217	-.217	0	%100
99	MP2B	X	-.376	-.376	0	%100
100	MP2B	Z	-.217	-.217	0	%100
101	MP1B	X	-.376	-.376	0	%100
102	MP1B	Z	-.217	-.217	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	OVP	X	-.343	-.343	0	%100
104	OVP	Z	-.198	-.198	0	%100
105	M96	X	-.114	-.114	0	%100
106	M96	Z	-.066	-.066	0	%100
107	M112	X	-.114	-.114	0	%100
108	M112	Z	-.066	-.066	0	%100
109	M115	X	-.456	-.456	0	%100
110	M115	Z	-.263	-.263	0	%100
111	M118	X	-.185	-.185	0	%100
112	M118	Z	-.107	-.107	0	%100
113	M119	X	-.082	-.082	0	%100
114	M119	Z	-.047	-.047	0	%100
115	M120	X	-.513	-.513	0	%100
116	M120	Z	-.296	-.296	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-.24	-.24	0	%100
2	M20	Z	-.416	-.416	0	%100
3	M72A	X	-.08	-.08	0	%100
4	M72A	Z	-.138	-.138	0	%100
5	M73	X	-.207	-.207	0	%100
6	M73	Z	-.358	-.358	0	%100
7	M74	X	-.207	-.207	0	%100
8	M74	Z	-.358	-.358	0	%100
9	M75	X	-.412	-.412	0	%100
10	M75	Z	-.713	-.713	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	-.224	-.224	0	%100
14	M79	Z	-.388	-.388	0	%100
15	M84	X	-.138	-.138	0	%100
16	M84	Z	-.239	-.239	0	%100
17	M85	X	-.419	-.419	0	%100
18	M85	Z	-.726	-.726	0	%100
19	M87A	X	-.435	-.435	0	%100
20	M87A	Z	-.753	-.753	0	%100
21	M89A	X	-.138	-.138	0	%100
22	M89A	Z	-.239	-.239	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	-.319	-.319	0	%100
28	M25	Z	-.553	-.553	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	-.224	-.224	0	%100
36	M31	Z	-.388	-.388	0	%100
37	M32	X	-.224	-.224	0	%100
38	M32	Z	-.388	-.388	0	%100
39	M37	X	-.552	-.552	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	M37	Z	-.957	-.957	0	%100
41	M38	X	-.419	-.419	0	%100
42	M38	Z	-.726	-.726	0	%100
43	M40	X	-.435	-.435	0	%100
44	M40	Z	-.753	-.753	0	%100
45	M42	X	-.552	-.552	0	%100
46	M42	Z	-.957	-.957	0	%100
47	M43	X	-.419	-.419	0	%100
48	M43	Z	-.726	-.726	0	%100
49	M45	X	-.435	-.435	0	%100
50	M45	Z	-.753	-.753	0	%100
51	M47	X	-.08	-.08	0	%100
52	M47	Z	-.138	-.138	0	%100
53	M48	X	-.207	-.207	0	%100
54	M48	Z	-.358	-.358	0	%100
55	M49	X	-.207	-.207	0	%100
56	M49	Z	-.358	-.358	0	%100
57	M50	X	-.412	-.412	0	%100
58	M50	Z	-.713	-.713	0	%100
59	M53	X	-.224	-.224	0	%100
60	M53	Z	-.388	-.388	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	-.138	-.138	0	%100
64	M59	Z	-.239	-.239	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	-.138	-.138	0	%100
70	M64	Z	-.239	-.239	0	%100
71	M65	X	-.419	-.419	0	%100
72	M65	Z	-.726	-.726	0	%100
73	M67	X	-.435	-.435	0	%100
74	M67	Z	-.753	-.753	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	-.24	-.24	0	%100
78	M69	Z	-.416	-.416	0	%100
79	MP4A	X	-.217	-.217	0	%100
80	MP4A	Z	-.376	-.376	0	%100
81	MP3A	X	-.217	-.217	0	%100
82	MP3A	Z	-.376	-.376	0	%100
83	MP2A	X	-.217	-.217	0	%100
84	MP2A	Z	-.376	-.376	0	%100
85	MP1A	X	-.217	-.217	0	%100
86	MP1A	Z	-.376	-.376	0	%100
87	MP4C	X	-.217	-.217	0	%100
88	MP4C	Z	-.376	-.376	0	%100
89	MP3C	X	-.217	-.217	0	%100
90	MP3C	Z	-.376	-.376	0	%100
91	MP2C	X	-.217	-.217	0	%100
92	MP2C	Z	-.376	-.376	0	%100
93	MP1C	X	-.217	-.217	0	%100
94	MP1C	Z	-.376	-.376	0	%100
95	MP4B	X	-.217	-.217	0	%100
96	MP4B	Z	-.376	-.376	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	MP3B	X	-.217	-.217	0	%100
98	MP3B	Z	-.376	-.376	0	%100
99	MP2B	X	-.217	-.217	0	%100
100	MP2B	Z	-.376	-.376	0	%100
101	MP1B	X	-.217	-.217	0	%100
102	MP1B	Z	-.376	-.376	0	%100
103	OVP	X	-.198	-.198	0	%100
104	OVP	Z	-.343	-.343	0	%100
105	M96	X	-.197	-.197	0	%100
106	M96	Z	-.342	-.342	0	%100
107	M112	X	0	0	0	%100
108	M112	Z	0	0	0	%100
109	M115	X	-.197	-.197	0	%100
110	M115	Z	-.342	-.342	0	%100
111	M118	X	-.004	-.004	0	%100
112	M118	Z	-.007	-.007	0	%100
113	M119	X	-.193	-.193	0	%100
114	M119	Z	-.335	-.335	0	%100
115	M120	X	-.253	-.253	0	%100
116	M120	Z	-.438	-.438	0	%100

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M31	Y	-2.356	-4.541	0	.793
2	M31	Y	-4.541	-6.018	.793	1.586
3	M31	Y	-6.018	-7.77	1.586	2.379
4	M31	Y	-7.77	-7.475	2.379	3.172
5	M31	Y	-7.475	-4.145	3.172	3.965
6	M32	Y	-4.166	-7.563	0	.793
7	M32	Y	-7.563	-7.938	.793	1.587
8	M32	Y	-7.938	-6.372	1.587	2.38
9	M32	Y	-6.372	-4.807	2.38	3.173
10	M32	Y	-4.807	-2.16	3.173	3.967
11	M53	Y	-2.356	-4.541	0	.793
12	M53	Y	-4.541	-6.018	.793	1.586
13	M53	Y	-6.018	-7.77	1.586	2.379
14	M53	Y	-7.77	-7.475	2.379	3.172
15	M53	Y	-7.475	-4.145	3.172	3.965
16	M54	Y	-4.166	-7.563	0	.793
17	M54	Y	-7.563	-7.938	.793	1.587
18	M54	Y	-7.938	-6.372	1.587	2.38
19	M54	Y	-6.372	-4.807	2.38	3.173
20	M54	Y	-4.807	-2.16	3.173	3.967
21	M78	Y	-2.36	-4.543	0	.793
22	M78	Y	-4.543	-6.018	.793	1.586
23	M78	Y	-6.018	-7.77	1.586	2.379
24	M78	Y	-7.77	-7.474	2.379	3.172
25	M78	Y	-7.474	-4.145	3.172	3.965
26	M79	Y	-4.175	-7.565	0	.793
27	M79	Y	-7.565	-7.934	.793	1.587
28	M79	Y	-7.934	-6.368	1.587	2.38
29	M79	Y	-6.368	-4.805	2.38	3.173
30	M79	Y	-4.805	-2.158	3.173	3.967

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M31	Y	-4.443	-8.565	0	.793
2	M31	Y	-8.565	-11.35	.793	1.586
3	M31	Y	-11.35	-14.656	1.586	2.379
4	M31	Y	-14.656	-14.098	2.379	3.172
5	M31	Y	-14.098	-7.817	3.172	3.965
6	M32	Y	-7.858	-14.264	0	.793
7	M32	Y	-14.264	-14.972	.793	1.587
8	M32	Y	-14.972	-12.019	1.587	2.38
9	M32	Y	-12.019	-9.066	2.38	3.173
10	M32	Y	-9.066	-4.075	3.173	3.967
11	M53	Y	-4.443	-8.565	0	.793
12	M53	Y	-8.565	-11.35	.793	1.586
13	M53	Y	-11.35	-14.656	1.586	2.379
14	M53	Y	-14.656	-14.098	2.379	3.172
15	M53	Y	-14.098	-7.817	3.172	3.965
16	M54	Y	-7.858	-14.264	0	.793
17	M54	Y	-14.264	-14.972	.793	1.587
18	M54	Y	-14.972	-12.019	1.587	2.38
19	M54	Y	-12.019	-9.066	2.38	3.173
20	M54	Y	-9.066	-4.075	3.173	3.967
21	M78	Y	-4.451	-8.569	0	.793
22	M78	Y	-8.569	-11.351	.793	1.586
23	M78	Y	-11.351	-14.656	1.586	2.379
24	M78	Y	-14.656	-14.097	2.379	3.172
25	M78	Y	-14.097	-7.818	3.172	3.965
26	M79	Y	-7.875	-14.27	0	.793
27	M79	Y	-14.27	-14.965	.793	1.587
28	M79	Y	-14.965	-12.011	1.587	2.38
29	M79	Y	-12.011	-9.062	2.38	3.173
30	M79	Y	-9.062	-4.07	3.173	3.967

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N43	N42	N38	N39	Y	Two Way	-.005
2	N66	N67	N71	N70	Y	Two Way	-.005
3	N117	N116A	N121	N122	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N43	N42	N38	N39	Y	Two Way	-.01
2	N66	N67	N71	N70	Y	Two Way	-.01
3	N117	N116A	N121	N122	Y	Two Way	-.01

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N112A	max	1125.225	10	2204.456	17	1368.742	1	3895.516	13	1283.353	4	151.852	4
2		min	-1134.307	4	885.098	36	-1511.071	7	1561.9	43	-1291.892	10	-274.401	10
3	N34	max	1107.41	9	2039.485	16	1099.788	1	-887.649	11	1069.171	12	-1451.614	10
4		min	-1227.836	3	951.88	10	-1022.767	7	-2396.411	41	-1084.224	6	-3051.016	24
5	N62	max	1333.292	10	2022.757	23	1014.295	1	-727.298	50	1085.098	8	3249.767	23
6		min	-1202.78	4	876.794	50	-948.988	7	-1817.198	22	-1108.244	2	1310.42	50
7	Totals:	max	3562.209	10	6256.302	23	3482.826	1						
8		min	-3562.213	4	3022.937	4	-3482.826	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M20	PIPE_3.0	.127	5.043	17	.039	8.79		48	23365.1...	65205	5748.75	5748.75	2....	H1-1b
2	M72A	HSS4X4X4	.338	0	22	.092	0	y	22	98544.5...	106155	12311.25	12311.25	3....	H1-1b
3	M73	HSS4X4X4	.180	2.406	14	.041	2.406	y	21	104215....	106155	12311.25	12311.25	1....	H1-1b
4	M74	HSS4X4X4	.193	0	18	.053	0	y	17	104215....	106155	12311.25	12311.25	1....	H1-1b
5	M75	PL1/2x6	.173	.547	6	.118	.228	y	12	61891.8...	94500	984.375	11812.5	1....	H1-1b
6	M78	L2x2x3	.126	3.965	2	.011	3.965	y	22	10573.9...	22743	542.224	1068.048	1....	H2-1
7	M79	L2x2x3	.126	0	12	.013	0	y	16	10568.3...	22743	542.224	1067.657	1....	H2-1
8	M84	PL3/8x6	.223	0	10	.085	0	y	17	69303.46	70875	553.875	8859.375	1....	H1-1b
9	M85	PL3/8x6	.127	0	4	.093	0	y	17	69630.3...	70875	553.875	8859.375	1....	H1-1b
10	M87A	PL1/2x6	.049	.125	5	.018	.125	y	50	93979.0...	94500	984.375	11812.5	1....	H1-1b
11	M89A	PL3/8x6	.168	0	4	.173	0	y	21	69303.46	70875	553.875	8859.375	1....	H1-1b
12	M90A	PL3/8x6	.103	0	10	.083	0	y	21	69630.3...	70875	553.875	8859.375	1....	H1-1b
13	M92	PL1/2x6	.049	.125	9	.018	0	y	40	93979.0...	94500	984.375	11812.5	1....	H1-1b
14	M25	HSS4X4X4	.317	0	18	.123	0	y	42	98544.5...	106155	12311.25	12311.25	3....	H1-1b
15	M26	HSS4X4X4	.181	2.406	22	.040	2.406	y	16	104215....	106155	12311.25	12311.25	1....	H1-1b
16	M27	HSS4X4X4	.194	0	14	.057	0	y	38	104215....	106155	12311.25	12311.25	1....	H1-1b
17	M28	PL1/2x6	.180	.547	4	.120	.228	y	8	61891.8...	94500	984.375	11812.5	1....	H1-1b
18	M31	L2x2x3	.136	3.965	10	.012	3.965	y	14	10573.9...	22743	542.224	1068.053	1....	H2-1
19	M32	L2x2x3	.128	0	8	.012	0	y	24	10568.3...	22743	542.224	1067.66	1....	H2-1
20	M37	PL3/8x6	.221	0	6	.133	0	y	44	69303.46	70875	553.875	8859.375	1....	H1-1b
21	M38	PL3/8x6	.129	0	7	.092	0	y	15	69630.3...	70875	553.875	8859.375	2....	H1-1b
22	M40	PL1/2x6	.049	.125	1	.077	0	y	42	93979.0...	94500	984.375	11812.5	1....	H1-1b
23	M42	PL3/8x6	.151	0	12	.179	0	y	16	69303.46	70875	553.875	8859.375	2....	H1-1b
24	M43	PL3/8x6	.095	0	6	.083	0	y	16	69630.3...	70875	553.875	8859.375	1....	H1-1b
25	M45	PL1/2x6	.048	.125	5	.030	.125	y	41	93979.0...	94500	984.375	11812.5	1....	H1-1b
26	M47	HSS4X4X4	.326	0	14	.102	0	y	33	98544.5...	106155	12311.25	12311.25	3....	H1-1b
27	M48	HSS4X4X4	.182	2.406	18	.042	2.406	y	24	104215....	106155	12311.25	12311.25	1....	H1-1b
28	M49	HSS4X4X4	.186	0	16	.047	0	y	22	104215....	106155	12311.25	12311.25	1....	H1-1b
29	M50	PL1/2x6	.181	.547	12	.104	.866	y	6	61891.8...	94500	984.375	11812.5	1....	H1-1b
30	M53	L2x2x3	.131	3.965	6	.012	3.965	y	22	10573.9...	22743	542.224	1068.053	1....	H2-1
31	M54	L2x2x3	.130	0	4	.011	0	y	21	10568.3...	22743	542.224	1067.66	1....	H2-1
32	M59	PL3/8x6	.207	0	8	.119	0	y	22	69303.46	70875	553.875	8859.375	1....	H1-1b
33	M60	PL3/8x6	.130	0	9	.086	0	y	23	69630.3...	70875	553.875	8859.375	1....	H1-1b
34	M62	PL1/2x6	.047	.125	9	.010	0	y	50	93979.0...	94500	984.375	11812.5	1....	H1-1b
35	M64	PL3/8x6	.169	0	8	.167	0	y	24	69303.46	70875	553.875	8859.375	1....	H1-1b
36	M65	PL3/8x6	.101	0	2	.083	0	y	23	69630.3...	70875	553.875	8859.375	1....	H1-1b
37	M67	PL1/2x6	.049	.125	1	.016	0	y	30	93979.0...	94500	984.375	11812.5	1....	H1-1b
38	M68	PIPE_3.0	.123	5.312	13	.038	5.312		22	22278.5...	65205	5748.75	5748.75	2....	H1-1b
39	M69	PIPE_3.0	.134	4.983	21	.039	8.684		5	23938.5...	65205	5748.75	5748.75	2....	H1-1b
40	MP4A	PIPE_2.0	.158	2.625	50	.040	.688		50	20866.7...	32130	1871.625	1871.625	4....	H1-1b
41	MP3A	PIPE_2.0	.152	2.625	14	.042	2.625		18	20866.7...	32130	1871.625	1871.625	4....	H1-1b
42	MP2A	PIPE_2.5	.187	2.688	7	.029	2.625		1	37773.8...	50715	3596.25	3596.25	3....	H1-1b
43	MP1A	PIPE_2.0	.204	2.625	23	.045	2.625		8	20866.7...	32130	1871.625	1871.625	4....	H1-1b
44	MP4C	PIPE_2.0	.020	2.688	6	.002	2.688		6	20866.7...	32130	1871.625	1871.625	1....	H1-1b
45	MP3C	PIPE_2.0	.201	2.625	22	.059	2.625		23	20866.7...	32130	1871.625	1871.625	3....	H1-1b
46	MP2C	PIPE_2.5	.186	2.688	4	.029	2.625		9	37773.8...	50715	3596.25	3596.25	1....	H1-1b
47	MP1C	PIPE_2.0	.195	2.625	19	.044	2.625		16	20866.7...	32130	1871.625	1871.625	4....	H1-1b
48	MP4B	PIPE_2.0	.088	2.625	18	.023	2.625		21	20866.7...	32130	1871.625	1871.625	2....	H1-1b
49	MP3B	PIPE_2.0	.153	2.625	18	.043	2.625		21	20866.7...	32130	1871.625	1871.625	2....	H1-1b
50	MP2B	PIPE_2.5	.186	2.688	11	.028	2.625		2	37773.8...	50715	3596.25	3596.25	1....	H1-1b
51	MP1B	PIPE_2.0	.205	2.625	15	.045	2.625		24	20866.7...	32130	1871.625	1871.625	3....	H1-1b
52	OVP	PIPE_2.0	.160	3.5	2	.013	3.5		2	26521.4...	32130	1871.625	1871.625	1....	H1-1b
53	M96	PIPE_2.5	.092	6.773	21	.015	10.663		19	11887.5...	50715	3596.25	3596.25	2....	H1-1b
54	M112	PIPE_2.5	.088	6.773	18	.016	6.773		14	11887.5...	50715	3596.25	3596.25	1....	H1-1b
55	M115	PIPE_2.5	.093	6.773	14	.015	6.917		20	11887.5...	50715	3596.25	3596.25	2....	H1-1b
56	M118	L3X3X4	.039	1.16	19	.025	0	y	50	45284.7...	46656	1688.138	3755.745	1....	H2-1

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
57	M119	L3X3X4	.035	1.16	20	.006	0	y	50	45284.7...	46656	1688.138	3755.745	1.2	H2-1
58	M120	L3X3X4	.049	1.161	15	.018	0	z	26	45284.3...	46656	1688.138	3755.745	1....	H2-1

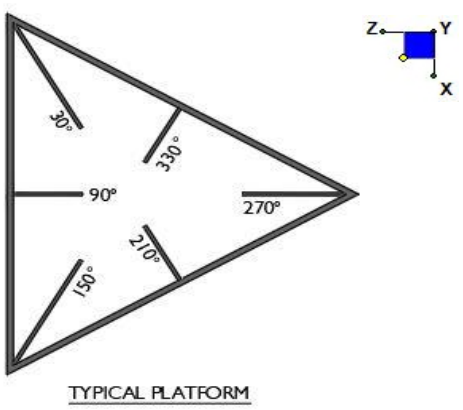
Client:	Verizon	Date:	6/21/2021
Site Name:	Waterbury East CT		
Project No.	21777081A		
Title:	Mount Fix	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

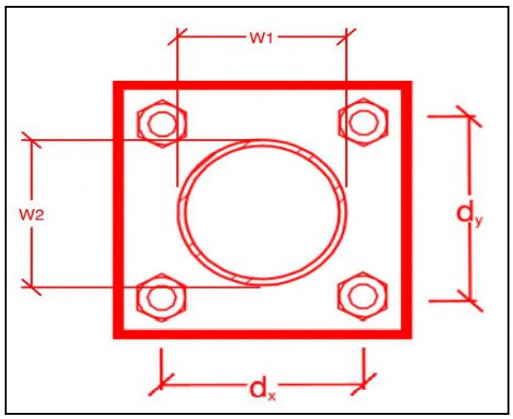
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N34	30
N62	150
N112A	270



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)*:	7
d_y (in) *(Delta Y of typ. bolt config. sketch)*:	7
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	14.5
Required Shear Strength (kips):	3.7
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**17.5%***
Shear Capacity Overall:	**7.4%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	10
Plate Height (in):	10
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.5
Weld Size (1/16 in):	3
Phi*Rn (kip/in):	4.18
Required Weld Strength (kip/in):	2.37
Plate Bending Capacity:	**56.9%**
Weld Capacity:	**56.7%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)*:	10.6
Phi*Mn_{xx} *(kip-in)*:	20.3
Mu_{yy} *(kip-in)*:	0.9
Phi*Mn_{yy} *(kip-in)*:	20.3

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

---

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

Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.

Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

Any special photos outside of the standard requirements will be indicated on the drawings

Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) must be shown.

Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.

Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.

Each photo should be time and date stamped

Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.

Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.

The photos in the file structure should be uploaded **to** https://pmi.vzwsmart.com as depicted on the drawings

Photo Requirements:

Base and "During Installation Photos"

- Base pictures include
  - Photo of Gate Signs showing the tower owner, site name, and number
  - Photo of carrier shelter showing the carrier site name and number if available
  - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
- "During Installation Photos if provided - must be placed only in this folder

Photos taken at ground level

- Overall tower structure before and after installation of the modifications
- Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- *Photos taken at Mount Elevation*
    - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
        - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
    - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
    - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
    - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
    - Photos showing the safety climb wire rope above and below the mount prior to modification.
    - Photos showing the climbing facility and safety climb if present.

Material Certification:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Contractor to install 48" long P2.0 STD mount pipe on standoff horizontal between Beta & Gamma sector. Attach proposed mount pipe to the standoff with crossover plate (Site Pro 1 – SQCX4-K, or EOR approved equivalent). Contractor shall attach proposed OVP 12" from top of mount pipe. Contractor to Install safety climb wire clip on existing mount collar such that the existing safety climb wire does not contact the existing mount members.

Response:

Schedule A – Photo & Document File Structure

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

Structure: 469379-VZW - WATERBURY EAST CT

Sector: **A**

Structure Type: Monopole

Mount Elev: 87.00

10037968

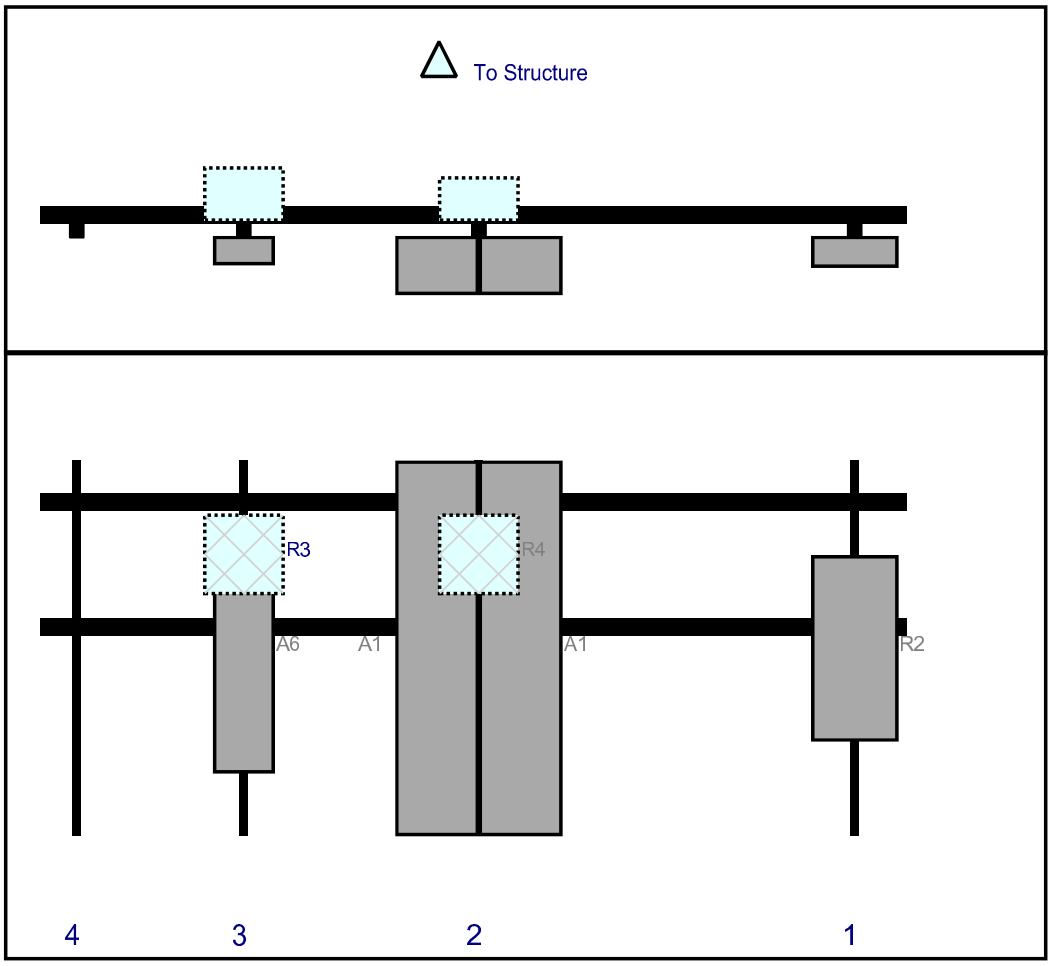
6/21/2021

Page: 1

MASER CONSULTING — CONNECTICUT —

Plan View

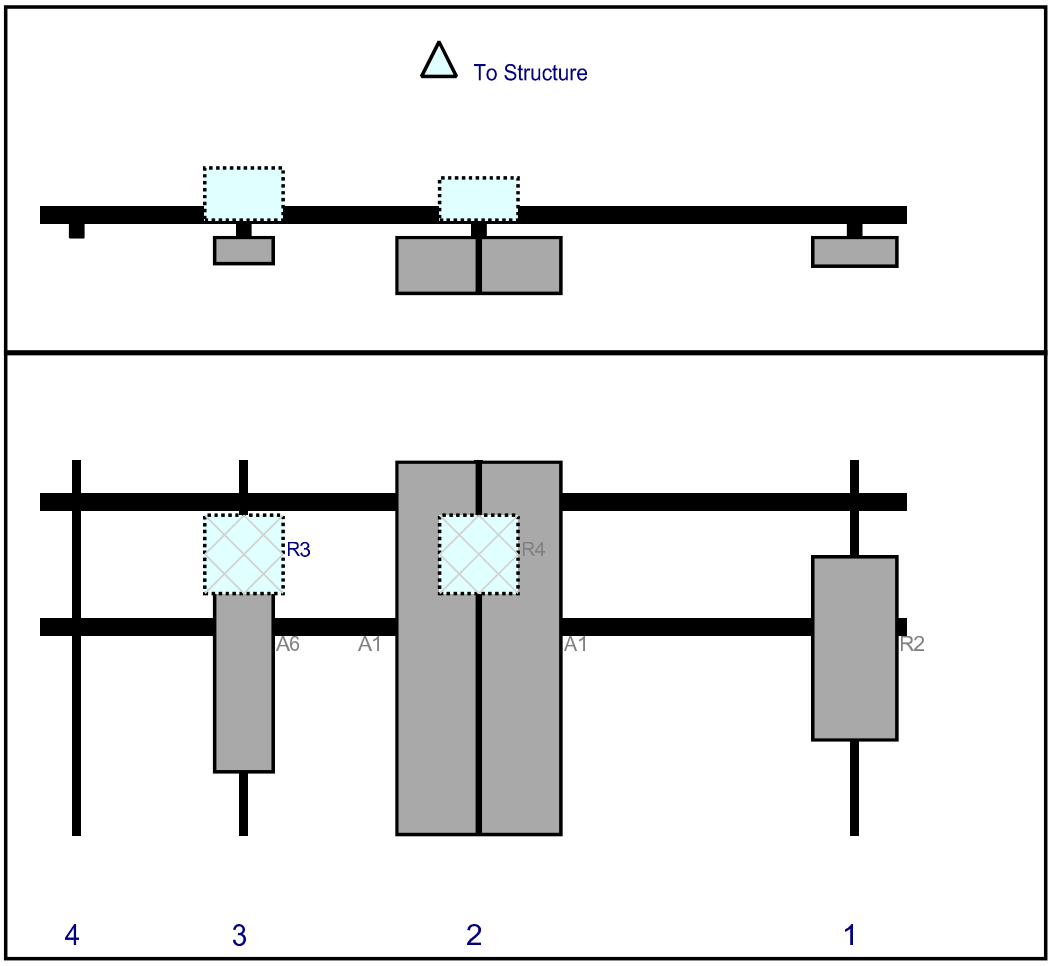
Front View
Looking at Structure



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
R2	MT6407-77A	35.1	16.1	156	1	a	Front	36	0	Added	
A1	MX06FRO660-03	71.3	15.4	84	2	a	Front	36	8	Added	
A1	MX06FRO660-03	71.3	15.4	84	2	b	Front	36	-8	Added	
R4	B5/B13 RRH-BR04C	15	15	84	2	a	Behind	18	0	Added	
A6	BXA-171063-12CF	47.25	11.25	39	3	a	Front	36	0	Retained	02/15/2021
R3	B2/B66A RRH-BR049	15	15	39	3	a	Behind	18	0	Added	

Plan View

Front View
Looking at Structure



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R4	B5/B13 RRH-BR04C	15	15	84	2	a	Behind	18	0	Added	
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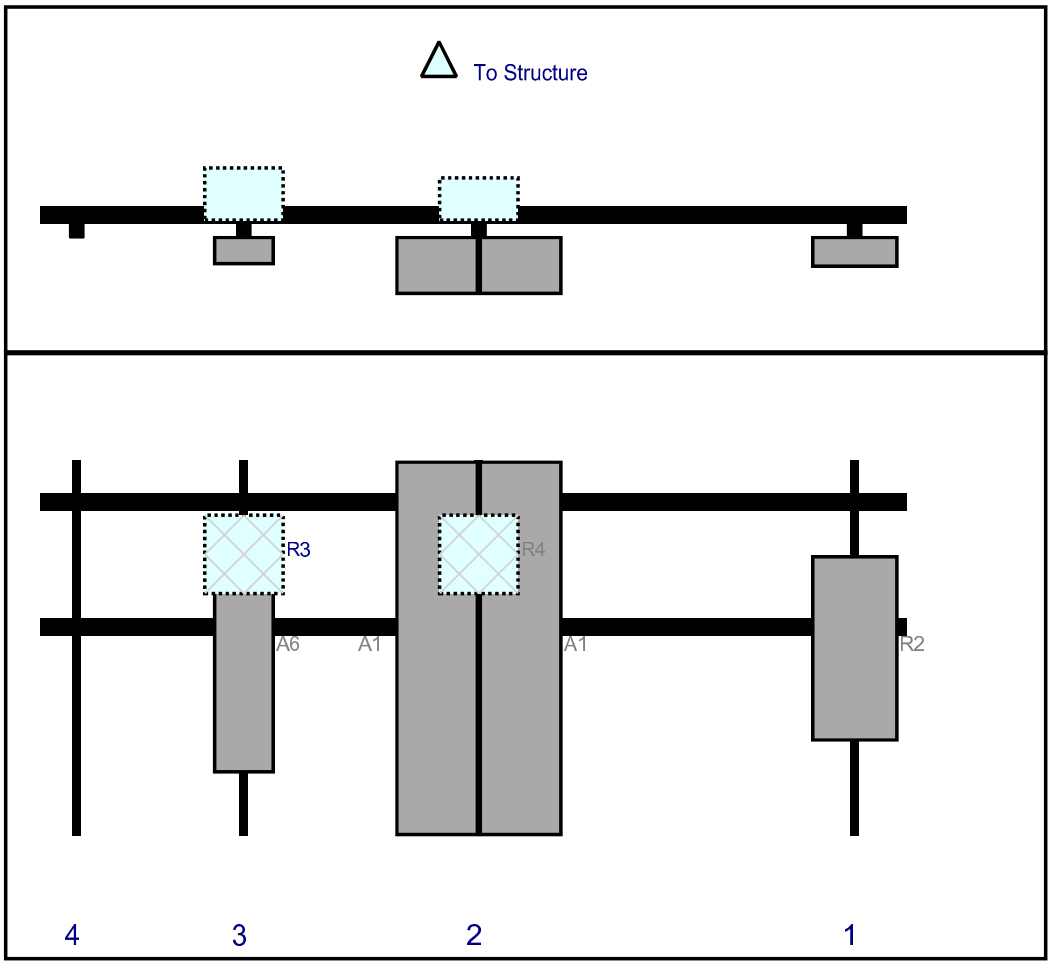
Plan View

Front View
Looking at Structure



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A6	BXA-171063-12CF	47.25	11.25	39	3	a	Front	36	0	Retained	02/15/2021
R3	B2/B66A RRH-BR049	15	15	39	3	a	Behind	18	0	Added	

Maser Consulting Connecticut

MASER CONSULTING
— CONNECTICUT —

Subject:	*TIA-222-H Usage*	
Site Information	*Site ID:*	*469379-VZW / WATERBURY EAST CT*
	Site Name:	*WATERBURY EAST CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*940 Meriden Rd.* *Waterbury, Connecticut 06705* *New Haven County*
	Latitude:	*41.553278°*
	Longitude:	*-72.993361°*
Structure Information	*Tower Type:*	*115-Ft Monopole*
	Mount Type:	*13.83-Ft Platform*

To Whom It May Concern,

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

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

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

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

Sincerely,

Justin Linette, PE
Sr. Technical Manager

Digitally signed by Justin Linette
Date: 2021.06.24 08:00:28-04'00'

PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 13.83' PLATFORM

SITE NAME: WATERBURY EAST CT
SITE NUMBER: 469379

940 MERIDEN RD.
WATERBURY, CT 06705
NEW HAVEN COUNTY

PROJECT INFORMATION

SITE INFORMATION

LATITUDE:	41.553278° N
LONGITUDE:	72.993361° W
JURISDICTION:	NEW HAVEN COUNTY

APPLICANT/LESSEE

COMPANY:	VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY:	VERIZON WIRELESS
ADDRESS:	118 FLANDERS ROAD, THIRD FLOOR
CITY, STATE, ZIP:	WESTBOROUGH, MA 01581
CONTACT:	ANDREW CANDIELLO
EMAIL:	ANDREW.CANDIELLO@VERIZONWIRELESS.COM

PROJECT MANAGER

COMPANY:	MASER CONSULTING CONNECTICUT
CONTACT:	PETER ALBANO
PHONE:	856-797-0412
E-MAIL:	PETER.ALBANO@COLLIERSENGINEERING.COM

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
S-1	BILL OF MATERIALS
S-2	MODIFICATION NOTES
S-3	MODIFICATION NOTES
S-4	MODIFICATION DETAILS
S-5	MODIFICATION DETAILS
S-6	MODIFICATION DETAILS
S-7	MOUNT PHOTOS
	SPECIFICATION SHEETS

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10074889
VZW LOCATION CODE (PSLC):	469379
FUZE ID:	16227601

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT

SMART TOOL PROJECT #:	10037968
MASER CONSULTING PROJECT #:	21777081A
ANALYSIS DATE:	6/2/2021

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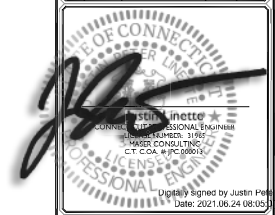
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE:	JOB NUMBER:
AS SHOWN	21777081A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/23/2021	ISSUED FOR CONSTRUCTION	SC	JL



Digitally Signed by Justin Peter Linette
Date: 2021.06.24 08:05:11-04'00'

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:

WATERBURY EAST CT
469379

940 MERIDEN RD.
WATERBURY, CT 06705
NEW HAVEN COUNTY

MASER CONSULTING
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	VZWSMART	VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET	
3		VZWSMART-MSK2	CROSSOVER PLATE	
12		VZWSMART-MSK1	CROSSOVER PLATE	

OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	-	-	166" LONG, P2.5 STD	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3	-	-	72" LONG, P2.5 STD	GALVANIZED
1	-	-	48" LONG, P2.0 STD	GALVANIZED
3	-	-	24" LONG, L3X3X1/4	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
1	SITE PRO 1	SQCX4-K	CROSSOVER PLATE	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION

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

VZWSMART KITS - APPROVED VENDORS

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

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

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NEW MEXICO, MARYLAND, GEORGIA, TEXAS, TENNESSEE, COLORADO

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SCALE: AS SHOWN | JOB NUMBER: 21777081A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/23/2021	ISSUED FOR CONSTRUCTION	SC	JL

STATE OF CONNECTICUT
Justin Linette
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 31965
MASER CONSULTING
CT C.O.A. #PEC.0000152
LICENSED PROFESSIONAL ENGINEER
Digitally signed by Justin Peter Linette
Date: 2021.06.24 08:05:25-04'00'

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:
WATERBURY EAST CT
469379
940 MERIDEN RD.
WATERBURY, CT 06705
NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: BILL OF MATERIALS

SHEET NUMBER: S-1

GENERAL NOTES

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

DESIGN LOADS

WIND LOADS

a. BASIC WIND SPEED (3 SECOND GUST), V = 117 MPH

b. EXPOSURE CATEGORY B

c. TOPOGRAPHIC CATEGORY 1

d. MEAN BASE ELEVATION (AMSL) = 608.16'

ICE LOADS

a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH

b. ICE THICKNESS = 1.00 IN

SEISMIC LOADS

a. SEISMIC DESIGN CATEGORY B

b. SHORT TERM MCER GROUND MOTION, S_S = .194

c. LONG TERM MCER GROUND MOTION, S_1 = .054

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

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Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: 31961
MASER CONSULTING
C.T. C.O.A. # PEC.0000131

Digitally signed by Justin Peter Linette
Date: 2021.06.24 08:05:25 -04'00'

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NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
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Fax: 856.722.1120

SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MODIFICATION INSPECTION NOTES

MI CHECKLIST

CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
X	EOR APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZW PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT
NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CORRECTION OF FAILING MI'S

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

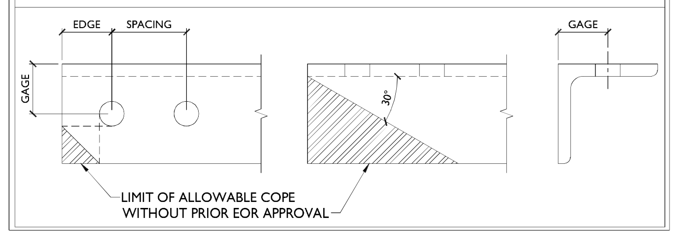
REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - FOUNDATION MODIFICATIONS
  - WELD PREPARATION
  - BOLT INSTALLATION
  - FINAL INSTALLED CONDITION
  - SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
  - FINAL INFIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

ALLOWABLE COPING

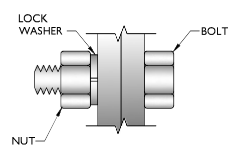


BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

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Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
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CT C.O.A. # PEC.0000013
Digitally signed by Justin Peter Linette
Date: 2021.06.24 08:05:25 -04'00'

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NEW HAVEN COUNTY

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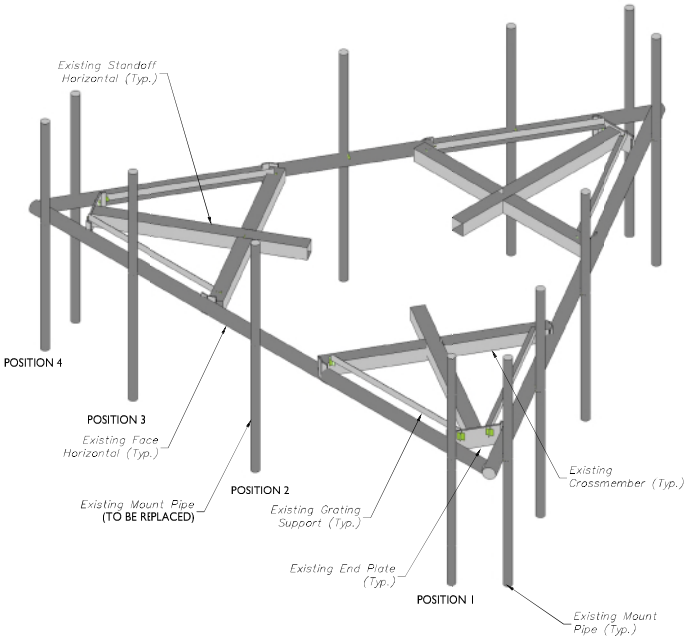
Fax: 856.722.1120

SHEET TITLE: MODIFICATION NOTES

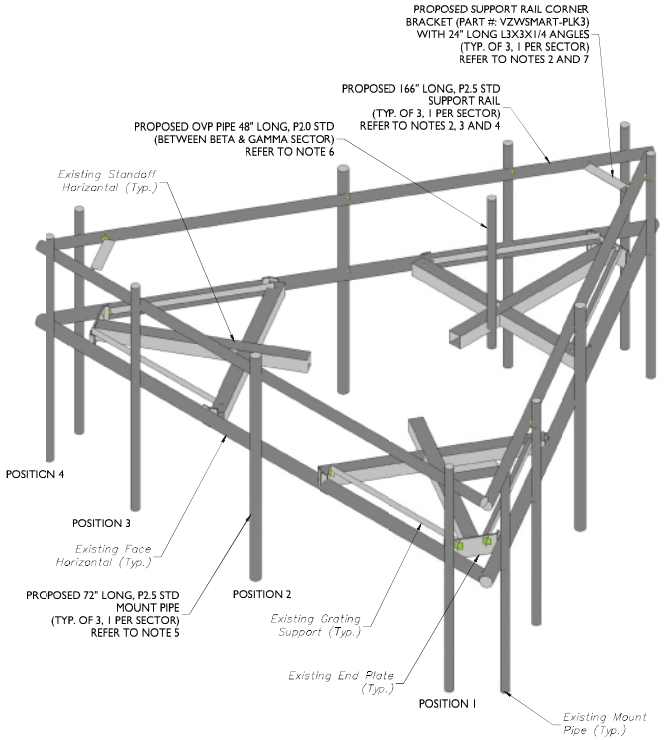
SHEET NUMBER: S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 EXISTING PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY LEVEL-UP TOWERS ON 2/15/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (87'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW SUPPORT RAIL TO ALL VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
5. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
6. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: SITE PRO 1 - SQCX4-K, OR EOR APPROVED EQUAL).
7. CONTRACTOR SHALL CONNECT PROPOSED L3X3X1/4 ANGLES TO CORNER BRACKETS USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.

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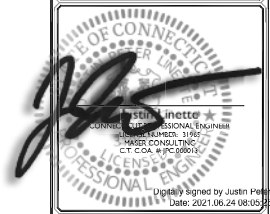

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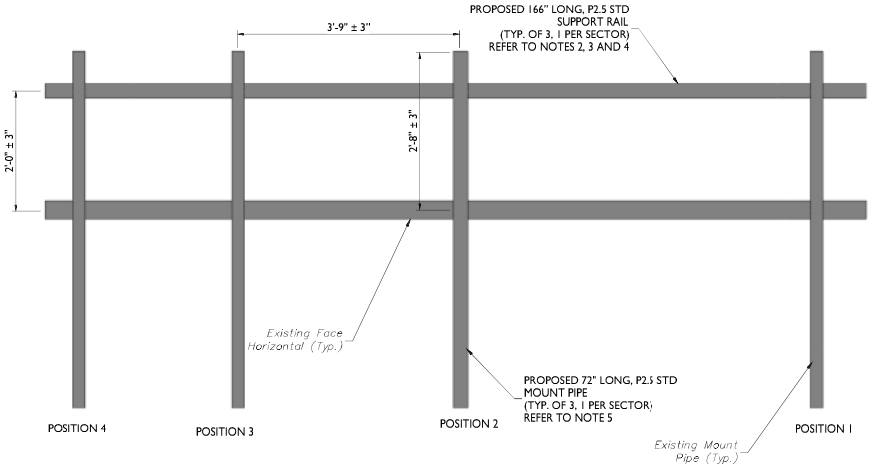
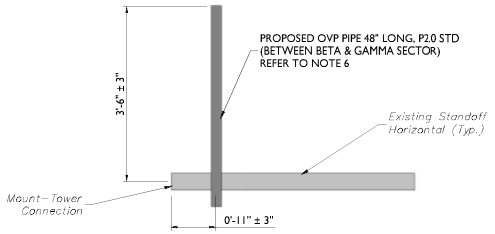
SHEET TITLE: MODIFICATION DETAILS

SHEET NUMBER: S-4



1 PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION

SCALE : N.T.S.

MODIFICATION NOTES:

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3. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW SUPPORT RAIL TO ALL VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
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6. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: SITE PRO 1 - SQCX4-K, OR EOR APPROVED EQUAL).
7. CONTRACTOR SHALL CONNECT PROPOSED L3X3X1/4 ANGLES TO CORNER BRACKETS USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.

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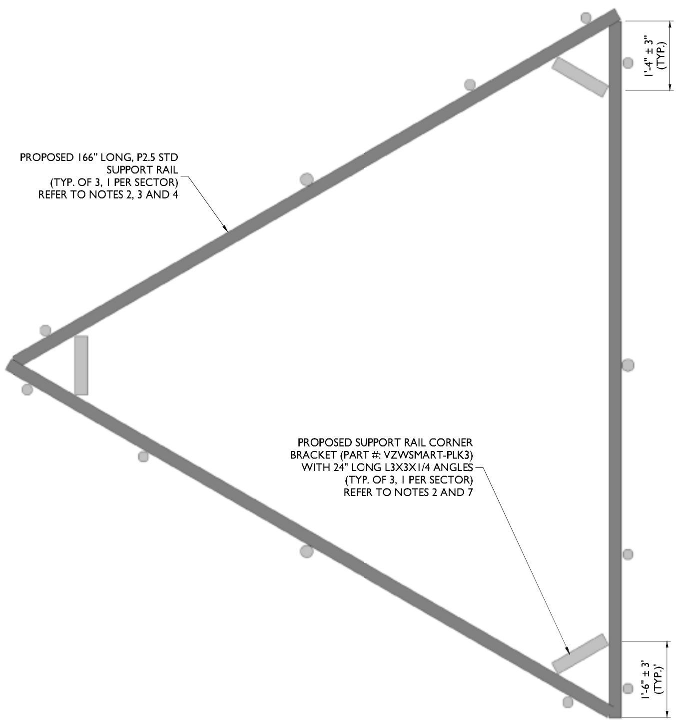
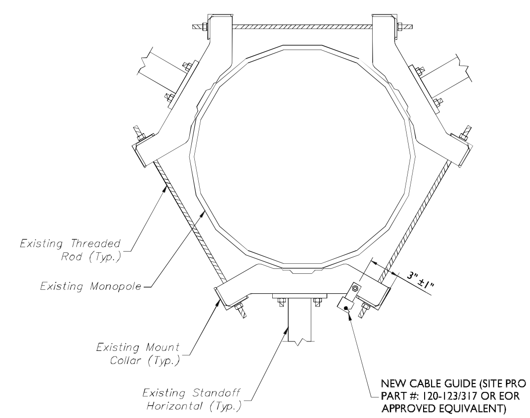
SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-5



4 PROPOSED PLAN VIEW

SCALE : N.T.S.



3 PROPOSED CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW

SCALE : N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW SUPPORT RAIL TO ALL VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
5. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
6. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: SITE PRO 1 - SQCX4-K, OR EOR APPROVED EQUAL).
7. CONTRACTOR SHALL CONNECT PROPOSED L3X3X1/4 ANGLES TO CORNER BRACKETS USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.

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SCALE:	JOB NUMBER:
AS SHOWN	21777081A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	6/23/2021	ISSUED FOR CONSTRUCTION	SC	JL

Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: 31961
MASER CONSULTING
C.T. C.O.A. # PEC.0000013
Digitally signed by Justin Peter Linette
Date: 2021.06.24 08:05:25-04'00'

SITE NAME:

WATERBURY EAST CT
469379

940 MERIDEN RD.
WATERBURY, CT 06705
NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-6

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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SCALE:	JOB NUMBER:
AS SHOWN	21777081A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/23/2021	ISSUED FOR CONSTRUCTION	SC	JL

Justin Linette
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 31965
MASER CONSULTING
CT C.O.A. #PEC.0000152
Digitally Signed by Justin Peter Linette
Date: 2021.06.24 08:05:25-04'00'

SITE NAME:

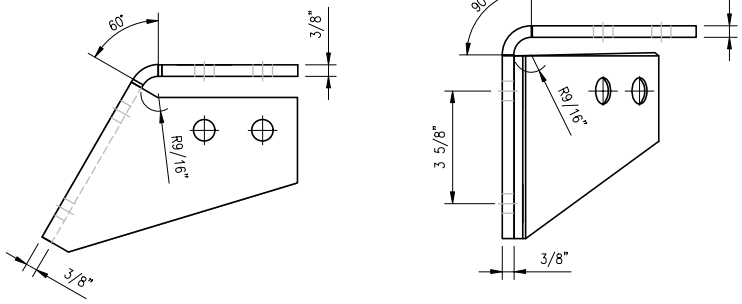
WATERBURY EAST CT
469379

940 MERIDEN RD.
WATERBURY, CT 06705
NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

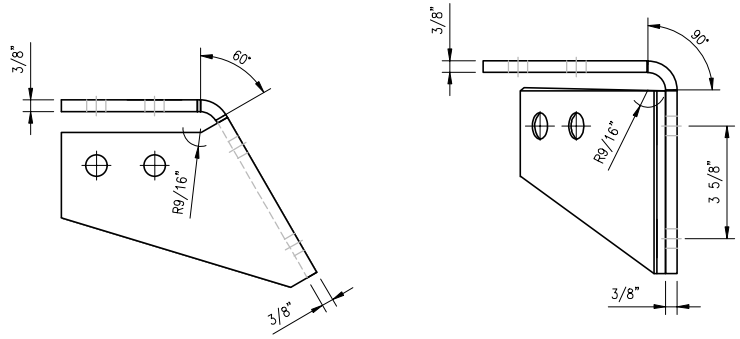
SHEET TITLE:
MOUNT PHOTOS

SHEET NUMBER:
S-7



TOP VIEW SIDE VIEW

CBP-L



TOP VIEW SIDE VIEW

CBP-R

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

VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)

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

VzW SMART Tool© Vendor

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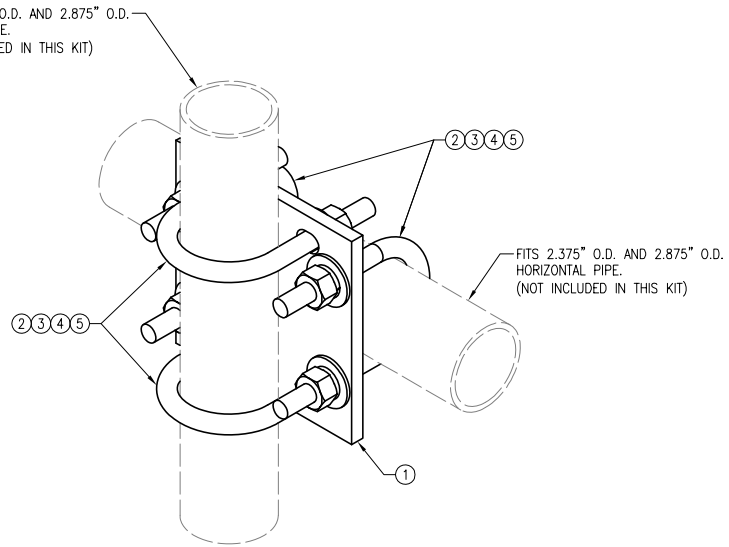
DRAWN BY: H.R | CHECKED BY: HMA

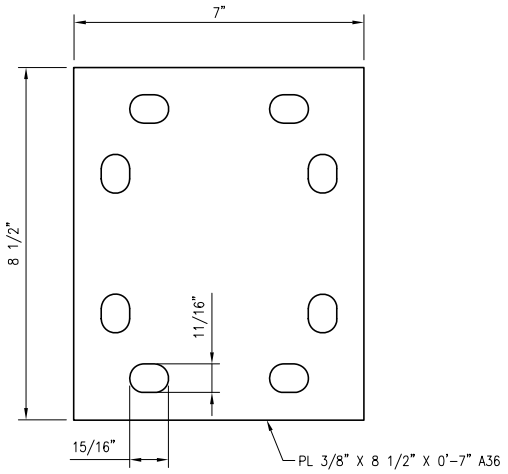
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART-PLK3
SUPPORT RAIL CORNER BRACKET

SHEET NUMBER: VZWSMART-PLK3

REV #: 0





PL375-857

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

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

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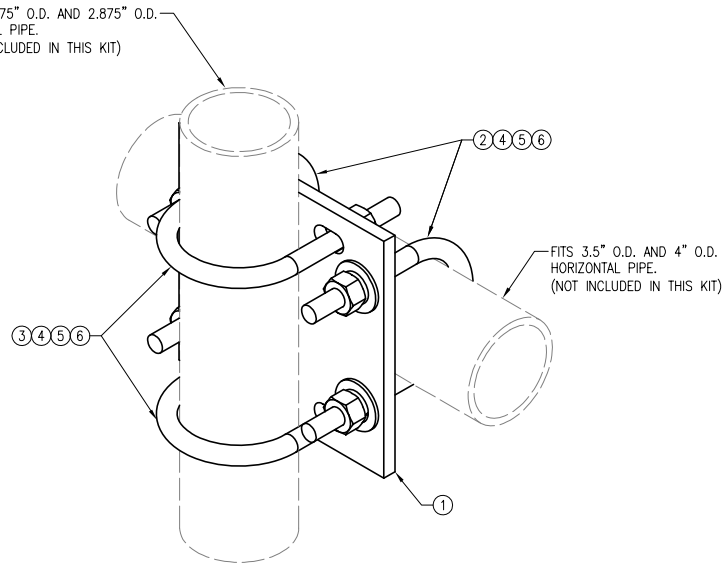
DRAWN BY: H.R	CHECKED BY: HMA

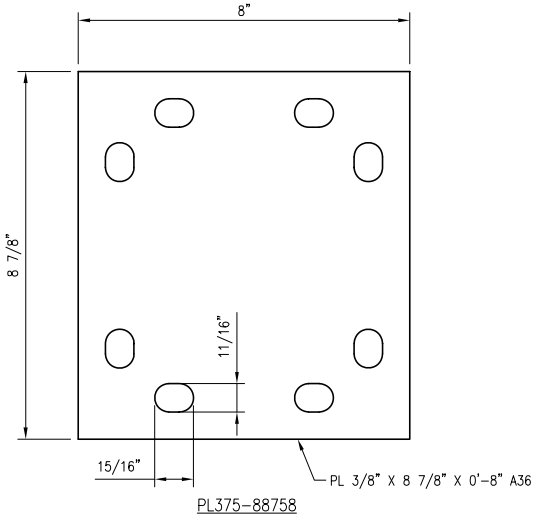
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:

VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER:	REV #:
VZWSMART-MSK1	0





PL375-88758

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

VZWSMART-MSK2 (CROSSOVER PLATE)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-88758	PL 3/8" X 8 3/4" X 0'-8" A36	MSK2-F1	8
2	2	MS02-625-4125-600	RU-BOLT 5/8" X 4 1/8" I.W. X 6" I.L. A36 (OR EQUIV.)	RBC-1	3
3	2	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	3
4	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
5	8	LW-625	5/8" HDG LOCK WASHER	---	0
6	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	15

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DRAWN BY: H.R | CHECKED BY: HMA

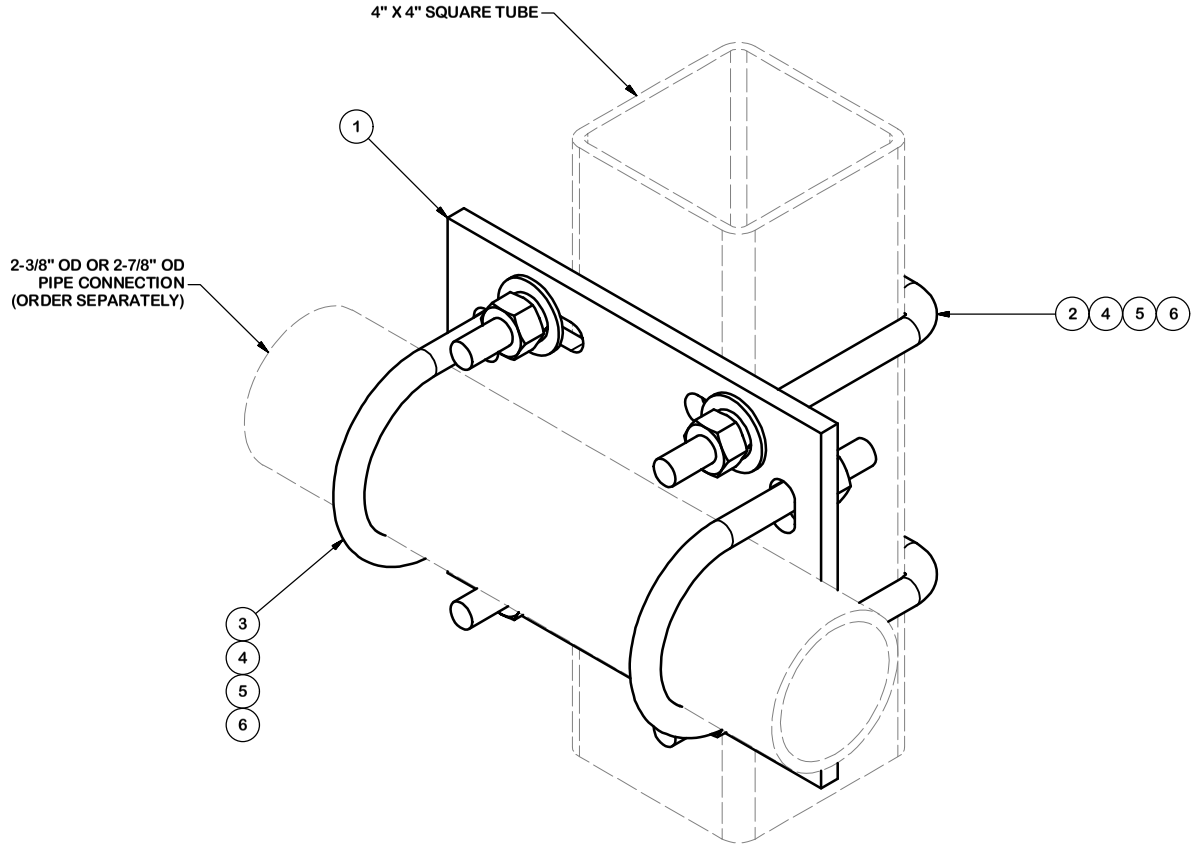
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART-MSK2
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK2

REV #: 0

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	6.02
2	2	X-SUB1418	SQUARE U-BOLT 0.5" DIA. X 4.125" IW X 6" IL X 3" TR		0.98	1.95
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	1.19
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.67	1.34
4	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	11.35



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

DESCRIPTION
CROSSOVER PLATE KIT
W/ SQUARE U-BOLTS AND STD. U-BOLTS

SITE PRO 1
A valmont COMPANY

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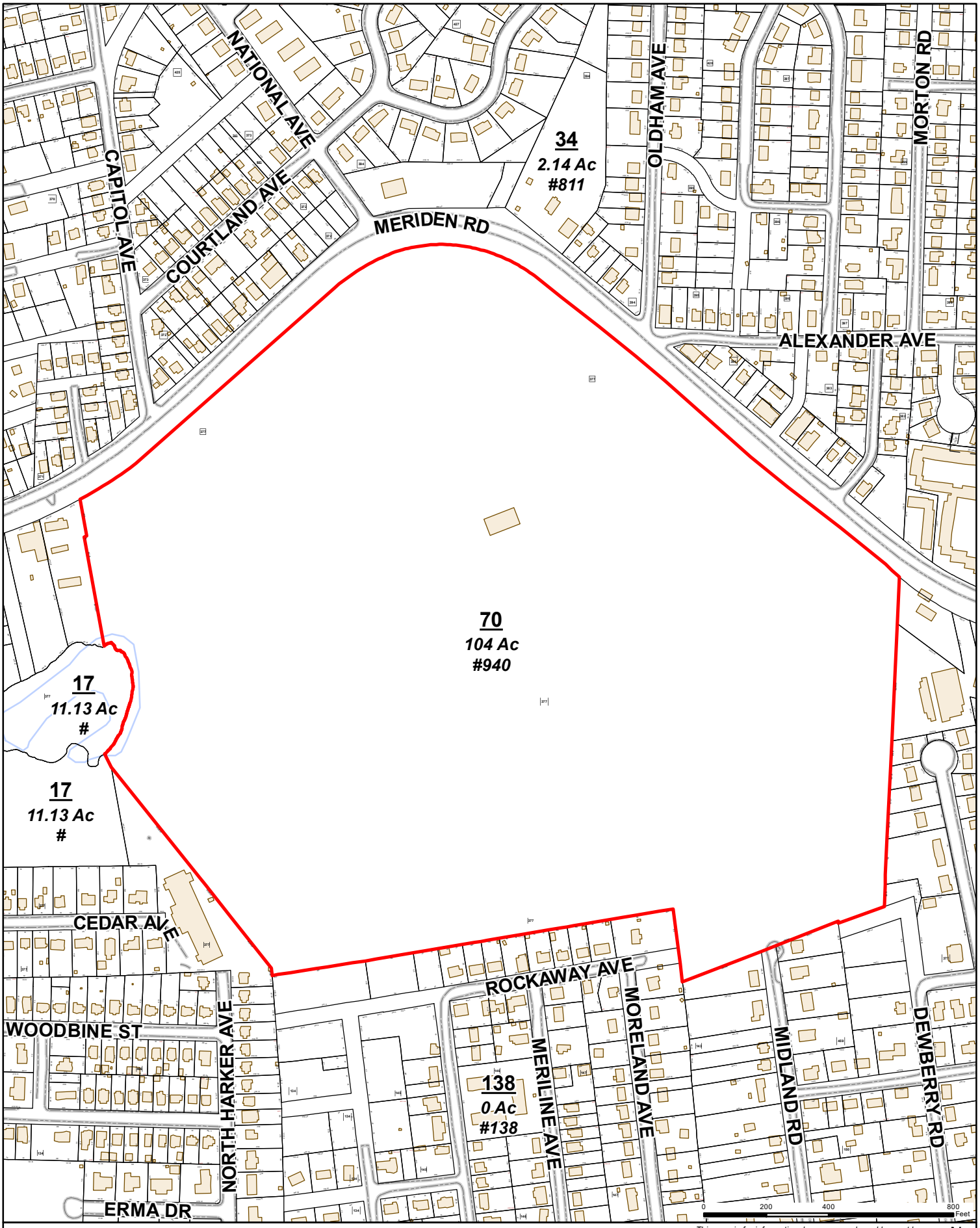
	CSL 9/18/2018	3RD PARTY	SQCX4-K

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
87	02	CUSTOMER	BMC 11/12/2018	SQCX4-K

ATTACHMENT 5



City of Waterbury
Public Works Department

MBL: **0302-0377-0070**

ADDRESS: 940 MERIDEN RD

City of Waterbury G.I.S.

Property Search
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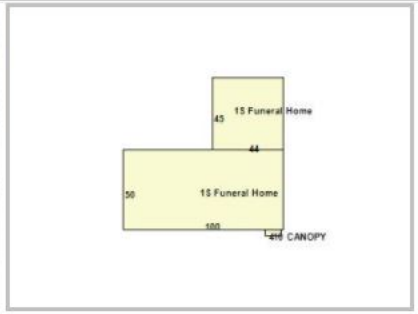
Building Info
Property Value
Sales History
Permit Info
Property Maps
eQuality Site

Location: 940 MERIDEN RD **Owner:** PINE GROVE CEMETERY ASSOCIATION



Map Block Lot:	0302-0377-0070	**Acres:**	104
Primary Use:	Church - Sanctuary (Chapel)	**Zone:**	RL
Neighborhood:	71000-Exempt	**Vol/Page:**	368 / 217

Mailing Address:
PINE GROVE CEMETERY ASSOCIATION
850 MERIDEN RD
WATERBURY, CT 067050000

Eligible Programs:
Come Home to Downtown: No
New Market Tax Credit: Yes
Enterprise Zone: No
Opportunity Zone: No

Back

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

WATERBURY EAST

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3	3	neopost 12/02/2021 US POSTAGE $002.99 ZIP 06103 041L1220937
	Postmaster, per *(name of receiving employee)* Boae		

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1.	Neil M. O'Leary, Mayor City of Waterbury 235 Grand Street Waterbury, CT 06702				
2.	Robert Nerney, City Planner City of Waterbury 185 South Main Street, 5th Floor Waterbury, CT 06706				
3.	Pine Grove Cemetery Association 850 Meriden Road Waterbury, CT 06705				
4.					
5.					
6.					

OLD STATE HOUSE STATION 06103 DEC 02 2021 USPS

PS Form **3665**, January 2017 (Page 1 of 1) PSN 7530-17-000-5549

See Reverse for Instructions