10 Industrial Ave,
Suite 3
Mahwah NJ 07430

Phone: 201.684.0055
Fax: 201.684.0066

Transcend Wireless

July 1, 2021

Members of the Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification
23 Stonybrook Road, Stratford, CT 06614
Latitude: 41.203300
Longitude: -73.148600
T-Mobile Site#: CTFF310D - Anchor

Dear Ms. Bachman:

T-Mobile currently maintains three (3) antennas at the 87' level and three (3) antennas at the 97' level of the existing 119' monopole at 23 Stonybrook Road in Stratford, CT. The property is owned by Stonybrook Management LLC. The tower is owned by American Tower. T-Mobile now intends to relocate the three (3) antennas at the 87' level to the 97' level of the monopole. T-Mobile also plans on adding three (3) new 2500 MHz antennas to the 97' level for a total of nine (9) antennas. The new antennas support 5G services.

Planned Modifications:
Tower:
Install New:
(3) AIR6449 B41 Antennas
(1) 6/24 Hybrid Trunk Cables

Existing to Remain:
(3) AIR32 KRD901146 Antennas (Relocated to 97' Level)
(3) APXVAARR24 Antennas
(1) 1 ¼" Hybrid Cables
(6) 1 ⅝" Coax Cables
(1) 6/24 Hybrid Trunk Cable

To Be Removed:
(3) RRUs 01 B2

(3) Radio 4449 B12, B71 RRUs
(3) KRY 112 144/2 TTAs
(1) 1 ¼" Hybrid Cables
(6) 1 ⅝" Coax Cables

Ground:
Install New:
(1) BB6648 and (1) BB6630
(1) Enclosure 6160 Cabinet and (1) B160 Cabinet

To Be Removed:
(1) Nortel Cabinet

This tower facility was originally approved by the Connecticut Siting Council in Docket No. 385 on February 25, 2010. The proposed modification complies with the approval.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies§ 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to Mayor Laura Hoydick, Elected Official, and Jay Habansky, Planning and Zoning Administrator, as well as the property owner and tower owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S;A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.

2. The proposed modifications will not require the extension of the site boundary.

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

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,

Eric Breun
Transcend Wireless
Cell: 201-658-7728
Email: ebreun@transcendwireless.com

Attachments
cc: Laura Hoydick - Mayor of Stratford
Jay Habansky - Planning and Zoning Administrator
American Tower - Tower Owner
Stonybrook Management LLC - Property Owner

ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430

1 LBS

1 OF 1

SHIP TO:
STONYBROOK MANAGEMENT LLC
124 KNAPP STREET
EASTON CT 06612

CT 066 9-06

UPS GROUND
TRACKING #: 1Z V25 742 03 9283 7211

BILLING: P/P

Reference #1: CTFF310D

XOL 21.06.14 NV45 26.0A 06/2021*

ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430

1 LBS

1 OF 1

SHIP TO:
PLANNING AND ZONING ADMIN
JAY HABANSKY
2725 MAIN STREET
STRATFORD CT 06615

CT 066 9-01

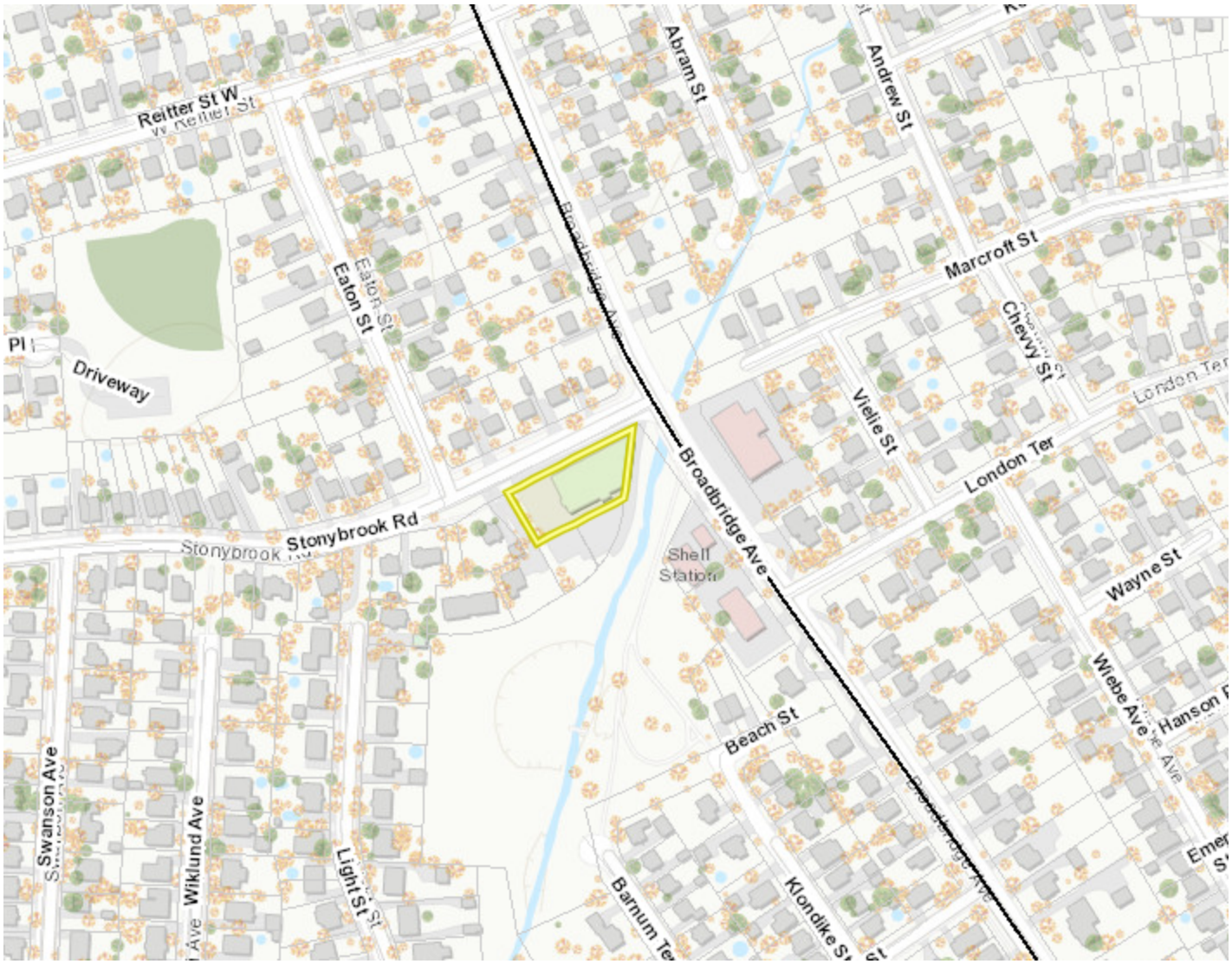
UPS GROUND
TRACKING #: 1Z V25 742 03 9861 4334

BILLING: P/P

Reference #1: CTFF310D

XOL 21.06.14 NV45 26.0A 06/2021*


ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430
1 LBS
1 OF 1
SHIP TO:
AMERICAN TOWER CORPORATION
10 PRESIDENTIAL WAY
WOBURN MA 01801
MA 018 9-04
UPS GROUND
TRACKING #: 1Z V25 742 03 9730 4340
BILLING: P/P
Reference #1: CTFF310D
XOL 21.06.14 NV45 26.0A 06/2021*
TM


Reitter St W
Eaton St
Driveway
Stonybrook Rd
Abram St
Andrew St
Marcroft St
Chewy St
Vielie St
London Ter
Broadbridge Ave
Shell Station
Wayne St
Wiebe Ave
Beach St
Swanson Ave
Wiklund Ave
Light St
Barnum Ter
Klondike St

23 STONYBROOK RD

Sales | Print | Map It

Location	23 STONYBROOK RD	**Mblu**	30/11 10/ 16/ /
Acct#	1626900	**Owner**	STONYBROOK MANAGEMENT LLC
PBN		**Assessment**	$673,750
Appraisal	$962,500	**PID**	17088
Building Count	1		

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$740,700	$221,800	$962,500
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$518,490	$155,260	$673,750

Owner of Record

Owner	STONYBROOK MANAGEMENT LLC	**Sale Price**	$900,000
Co-Owner		**Certificate**	
Address	124 KNAPP ST EASTON , CT 06612	**Book**	2604
		Page	0275
		Sale Date	03/24/2005
		Instrument	00

Ownership History

Ownership History						
Owner	**Sale Price**	**Certificate**	**Instrument**	**Sale Date**	**Book**	**Page**
STONYBROOK MANAGEMENT LLC	$900,000		00	03/24/2005	2604	0275
STONYBROOK CENTER INC THE	$90,000		UNKQ	08/13/1969	0451	0378

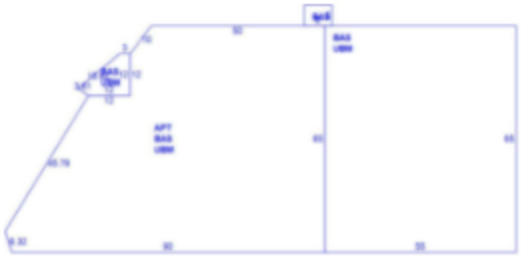
Building 1 : Section 1

Year Built: 1969
Living Area: 13,264
Building Percent Good: 65

Building Attributes	
Field	**Description**
STYLE	Retail/Apt
MODEL	Commercial
Stories:	2 Stories
Occupancy	8.00
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Built Up
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Hot Water
AC Type	Partial
Struct Class	
Bldg Use	Nbhd Ctr
Usrfld 215	
Usrfld 216	
Usrfld 217	
Usrfld 218	
Usrfld 219	
1st Floor Use:	323
Heat/AC	Heat/AC Split
Frame Type	Masonry
Baths/Plumbing	Average
Ceiling/Wall	Ceil & Walls
Rooms/Prtns	Average
Wall Height	9.00
% Comm Wall	

Building Photo

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	8,502	8,502
APT	Apartment	4,762	4,762
UBM	Unfinished Basement	8,454	0
		21,718	13,264

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
A/C	Air Condition	5679.60 S.F.	$9,500	1
SPR1	Sprinklers - Wet	3000.00 S.F.	$3,900	1

Land

Land Use

Use Code	323
Description	Nbhd Ctr
Zone	
Neighborhood	1
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	0.46
Frontage	0
Depth	0
Assessed Value	$155,260
Appraised Value	$221,800

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV	Paving	AS	Asphalt	16000.00 S.F.	$13,200	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2020	$740,700	$221,800	$962,500
2019	$740,700	$221,800	$962,500
2018	$726,500	$212,800	$939,300

Assessment			
Valuation Year	Improvements	Land	Total
2020	$518,490	$155,260	$673,750
2019	$518,490	$155,260	$673,750
2018	$508,550	$148,960	$657,510

DOCKET NO. 385 – T-Mobile Northeast LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and management of a telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut.	}	Connecticut Siting Council February 25, 2010

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, maintenance, and management of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to T-Mobile Northeast LLC, hereinafter referred to as the Certificate Holder, for a telecommunications facility at 23 Stonybrook Road, Stratford, 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 constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of T-Mobile Northeast LLC and other entities, both public and private, but such tower shall not exceed a height of 100 feet above ground level. Panel antennas shall be installed in an exterior, flush mount configuration and such panel antennas shall not exceed a height of 100 feet above ground level.

2. The tower compound shall be re-located in an east-west orientation along the south property line. The tower shall be re-located appropriately to increase the distance from the tower to the west property line.

3. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Stratford for comment, 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, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and
    b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
    c) details for the installation of architecturally-treated fencing around the compound and the installation of evergreen plantings along the west property boundary, where necessary to provide visual screening to the adjacent residences.

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

5. 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.

6. 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.

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

8. 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.

9. At least one wireless telecommunications carrier shall install their equipment and shall become operational not later than 120 days after the tower is erected. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.

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

10. 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.

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

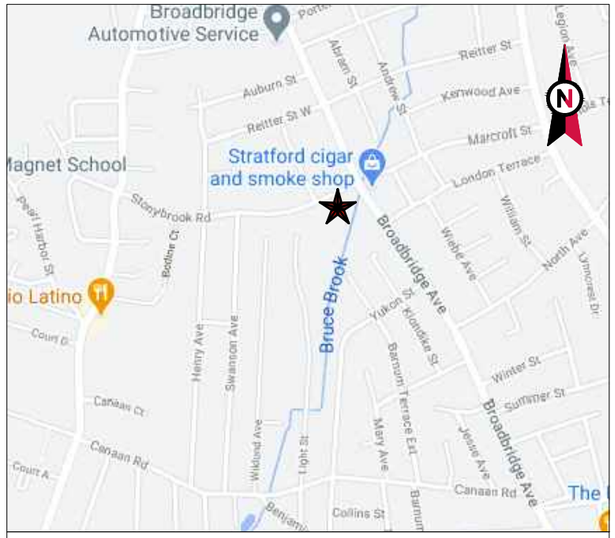
12. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written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

Pursuant to General Statutes § 16-50p, the Council hereby directs 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 Connecticut Post.

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 to this proceeding are:

Applicant	**Its Representative**
T-Mobile Northeast LLC	Julie D. Kohler, Esq. Monte E. Frank, Esq. Jesse A. Langer, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: STONEYBROOK RD CT
ATC SITE NUMBER: 283420
T-MOBILE SITE NAME: 23 STONYBROOK RD
T-MOBILE SITE NUMBER: CTFF310D
SITE ADDRESS: 23 STONYBROOK ROAD
STRATFORD, CT 06614-3715

LOCATION MAP

T-MOBILE AMENDMENT ANCHOR PLAN
67D5A997DB CONFIGURATION

COMPLIANCE CODE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 2015 INTERNATIONAL BUILDING CODE (IBC)
2. 2017 NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: UNITED ILLUMINATING
PHONE: (800) 722-5584

TELEPHONE COMPANY: FRONTIER COMMUNICATIONS
PHONE: (800) 376-6843

811 Know what's below. Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

23 STONYBROOK ROAD

STRATFORD, CT 06614-3715

COUNTY: FAIRFIELD

GEOGRAPHIC COORDINATES:

LATITUDE: 41.20327777

LONGITUDE: -73.148625

GROUND ELEVATION: 77' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

ENGINEER:

KIMLEY -HORN
& ASSOCIATES
421 FAYETTEVILLE ST, STE 600
RALEIGH, NC 27601
COA: PEC.0000738

PROPERTY OWNER:

JOHN D MIRANDA
23 STONYBROOK ROAD
STRATFORD, CT 06614

APPLICANT:

T-MOBILE CENTRAL LLC
ATTN: BILAL BATROUKH
1400 OPUS PLACE
DOWNERS GROVE, IL 60515

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

TOWER WORK:

REMOVE (3) KRY 112 144/2 TTA(s), (3) 4449 B12,B71 RRU(s) AND (3) RRUS 01 B2 RRU(s), (1) 1 1/4" HYBRID AND (6) 1 5/8"COAX CABLE(s)

INSTALL (3) AIR6449 B41 ANTENNA(s), AND (1) 6/24 TRUNK CABLE

EXISTING (3) APXVAARR24_43-U-NA20 ANTENNA(s), (3) AIR32 KRD901146-1_B66A_B2A ANTENNA(s), (6) 1 5/8" COAX, (1) 1 1/4" HYBRID, AND (1) 6/24 TRUNK CABLE TO REMAIN

GROUND WORK:

REMOVE (1) NORTEL CABINET

INSTALL (1) ENCLOSURE 6160 CABINET, (1) B160 CABINET, (1) BB 6630, (1) BB 6648,

EXISTING (1) RBS 6131 CABINET, (1) DUW30, (1) DUG20, (2) BB 6630, AND (6) RU22 TO REMAIN

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.

PROJECT LOCATION DIRECTIONS

FROM DOWNTOWN NEW HAVEN START OUT GOING NORTHEAST ON CHURCH ST TOWARD WALL ST. CHURCH ST BECOMES WHITNEY AVE. TURN RIGHT ONTO TRUMBULL ST. TURN SLIGHT LEFT TO TAKE THE I-91 S/I-91 N RAMP. MERGE ONTO I-91 S TOWARD I-95/NEW LONDON/N.Y.CITY. MERGE ONTO I-95 S VIA THE EXIT ON THE LEFT TOWARD N Y CITY. TAKE EXIT 32 TOWARD W BROAD ST/STRATFORD. MERGE ONTO LINDEN AVE. TAKE THE 1ST RIGHT ONTO W BROAD ST. TAKE THE 1ST RIGHT ONTO W BROAD ST. TURN RIGHT ONTO BARNUM AVE/US-1 N. TAKE THE 2ND LEFT ONTO BROADBRIDGE AVE. TURN LEFT ONTO STONYBROOK RD.SITE IS ON THE LEFT.

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	06/28/21	NJ
G-002	GENERAL NOTES	0	06/28/21	NJ
C-101	DETAILED SITE PLAN	0	06/28/21	NJ
C-102	GROUND DETAIL PLAN	0	06/28/21	NJ
C-201	TOWER ELEVATION	0	06/28/21	NJ
C-401	EXISTING ANTENNA INFORMATION & SCHEDULE	0	06/28/21	NJ
C-402	PROPOSED ANTENNA INFORMATION & SCHEDULE	0	06/28/21	NJ
C-501	CONSTRUCTION DETAILS	0	06/28/21	NJ
E-501	GROUNDING DETAILS	0	06/28/21	NJ
R-601	SUPPLEMENTAL	0	06/28/21	NJ
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			
R-606	SUPPLEMENTAL			

AMERICAN TOWER®

Kimley»Horn

COA: PEC.0000738
421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601

REV.	DESCRIPTION	BY	DATE
A	PRELIM	KB	03/03/21
0	ISSUED FOR CONSTRUCTION	NJ	06/28/21

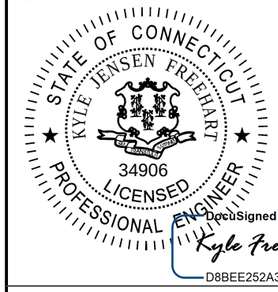
ATC SITE NUMBER:
283420

ATC SITE NAME:
STONEYBROOK RD CT

T-MOBILE SITE NAME:
23 STONYBROOK RD

SITE ADDRESS:
23 STONYBROOK ROAD
STRATFORD, CT 06614-3715

SEAL:



T-Mobile

DATE DRAWN:	06/28/21
ATC JOB NO:	13337496_G3
CUSTOMER ID:	23 STONYBROOK RD
CUSTOMER #:	CTFF310D

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
   - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
   - B. AC/TELCO INTERFACE BOX (PPC)
   - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
   - D. TOWERS, MONOPOLES
   - E. TOWER LIGHTING
   - F. GENERATORS & LIQUID PROPANE TANK
   - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
   - H. ANTENNAS (INSTALLED BY OTHERS)
   - I. TRANSMISSION LINE
   - J. TRANSMISSION LINE JUMPERS
   - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
   - L. TRANSMISSION LINE GROUND KITS
   - M. HANGERS
   - N. HOISTING GRIPS
   - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
   - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
   - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
   - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
   - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
   - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
   - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
   - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
   - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
   - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
   - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
   - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
   - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING ½" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
   - H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
   - I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T- MOBILE PROJECT MANAGER IN WRITING

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.
   - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
   - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
   - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
   - G. ANTENNA AND COAXIAL CABLE GROUNDING:
     - i. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
     - ii. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

ELECTRICAL NOTES:

2. ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
3. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
4. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

AMERICAN TOWER®

Kimley»Horn

COA: PEC.0000738
421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601

REV.	DESCRIPTION	BY	DATE
A	PRELIM	KB	03/03/21
0	ISSUED FOR CONSTRUCTION	NJ	06/28/21

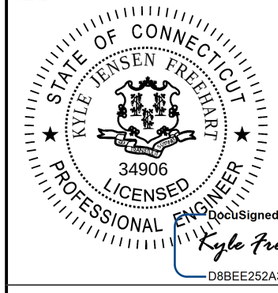
ATC SITE NUMBER:
283420

ATC SITE NAME:
STONEYBROOK RD CT

T-MOBILE SITE NAME:
23 STONYBROOK RD

SITE ADDRESS:
23 STONYBROOK ROAD
STRATFORD, CT 06614-3715

SEAL:



T-Mobile

DATE DRAWN:	06/28/21
ATC JOB NO:	13337496_G3
CUSTOMER ID:	23 STONYBROOK RD
CUSTOMER #:	CTFF310D

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

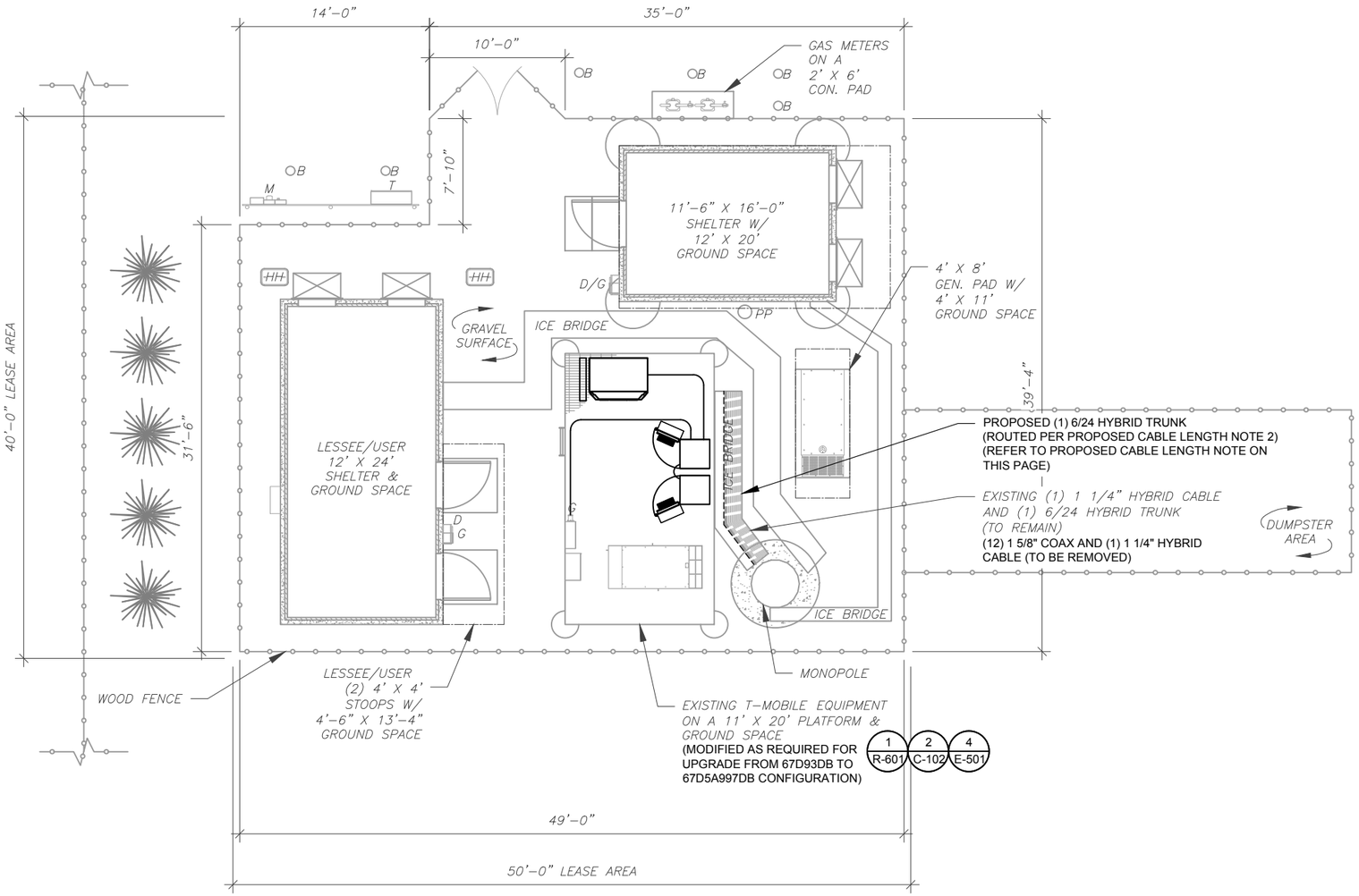
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
——x——	CHAINLINK FENCE



1 DETAILED SITE PLAN

GRAPHIC SCALE

10 0 5 10

(IN FEET)
1 UNIT = 10 FEET

PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **128'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

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Kimley»Horn

COA: PEC.0000738
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RALEIGH, NC 27601

REV.	DESCRIPTION	BY	DATE
A	PRELIM	KB	03/03/21
0	ISSUED FOR CONSTRUCTION	NJ	06/28/21

ATC SITE NUMBER:
283420

ATC SITE NAME:
STONEYBROOK RD CT

T-MOBILE SITE NAME:
23 STONYBROOK RD

SITE ADDRESS:
23 STONYBROOK ROAD
STRATFORD, CT 06614-3715

SEAL:

STATE OF CONNECTICUT
KYLE JENSEN FREEHART
34906
LICENSED PROFESSIONAL ENGINEER

DocuSigned by:
Kyle Freehart
D8BEE252A3804C1...

T-Mobile

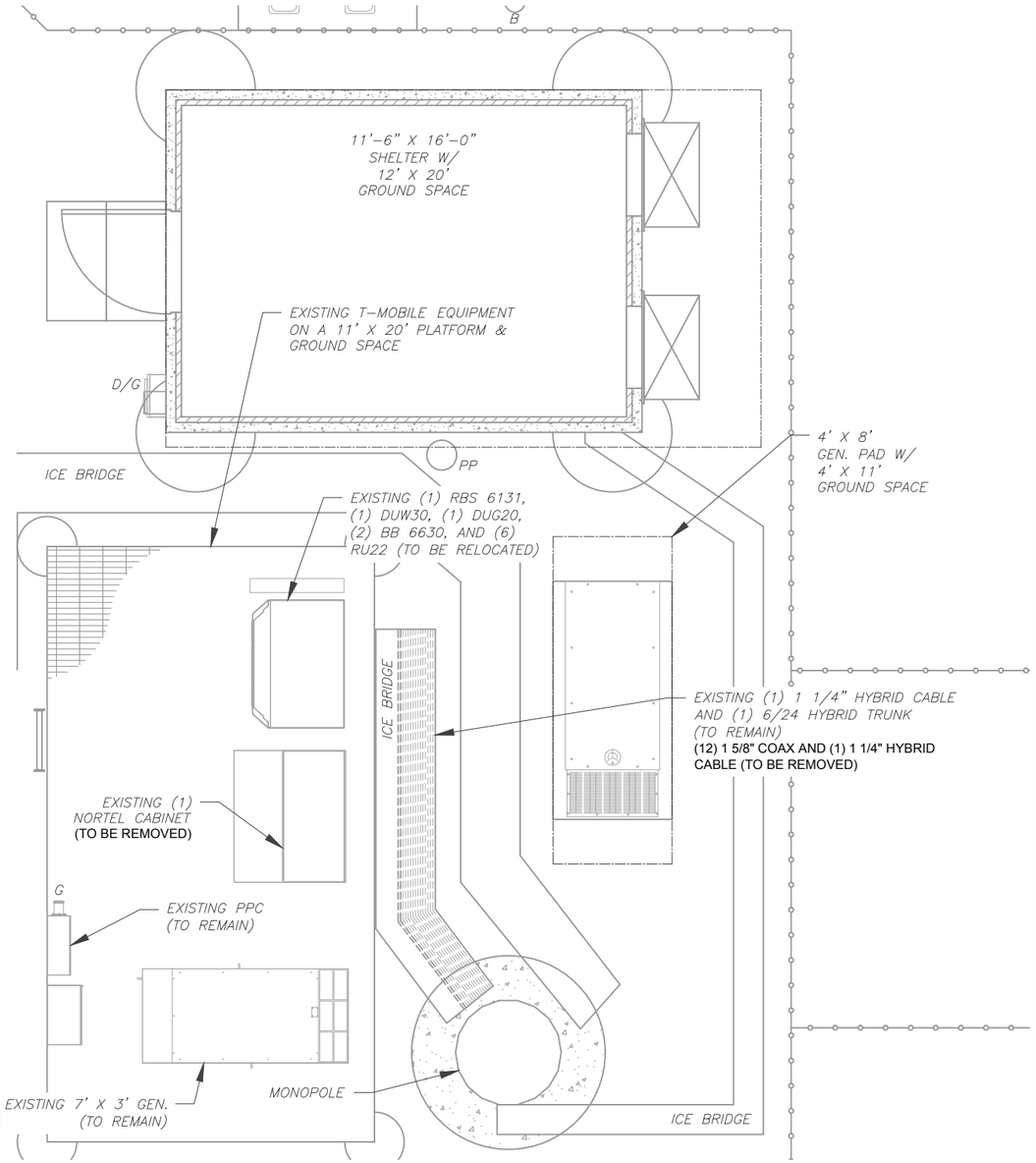
DATE DRAWN:	06/28/21
ATC JOB NO:	13337496_G3
CUSTOMER ID:	23 STONYBROOK RD
CUSTOMER #:	CTFF310D

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

SITE PLAN NOTES:

1. CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
3. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
4. ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.

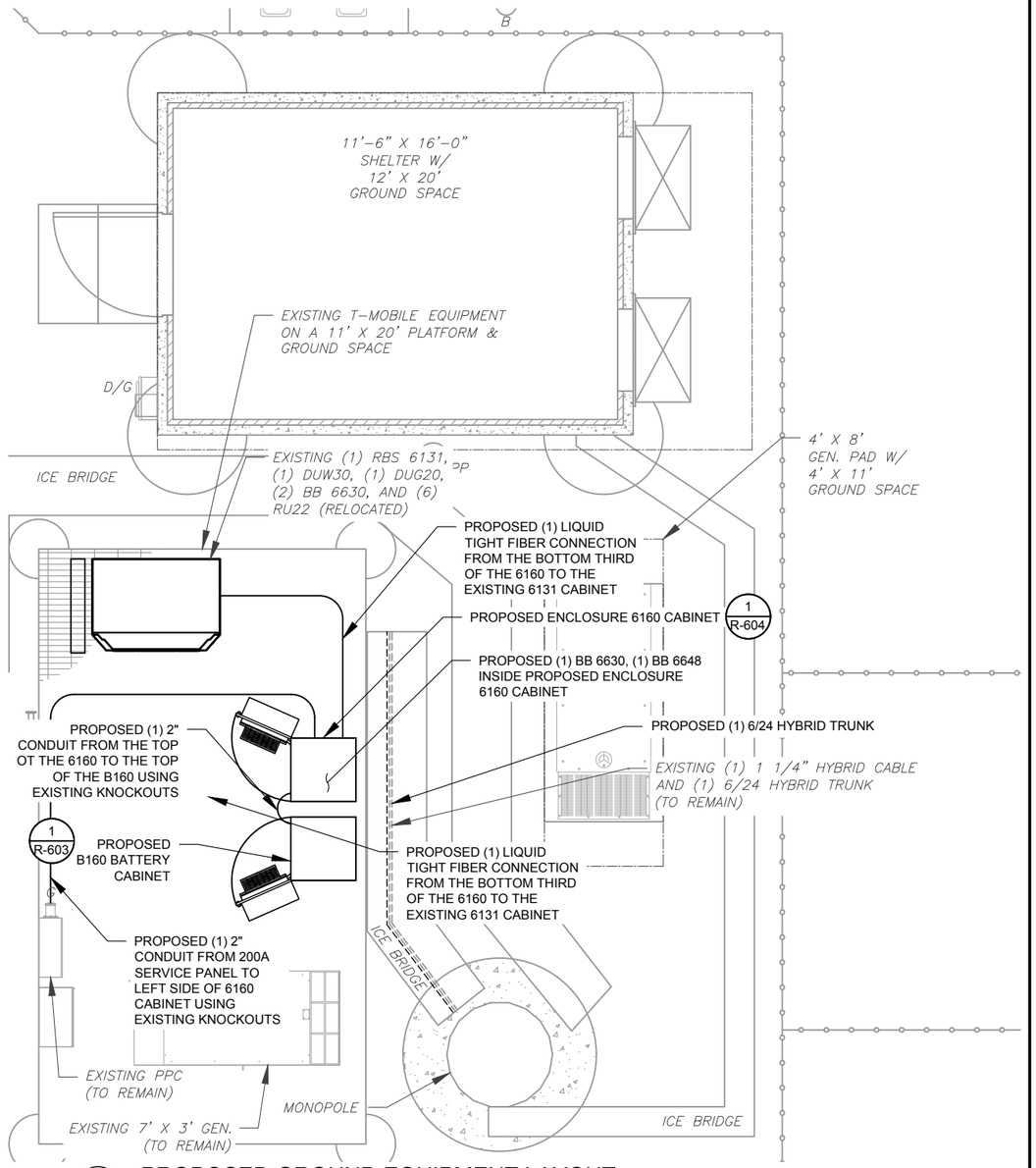


1 EXISTING GROUND EQUIPMENT LAYOUT

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

T-MOBILE CM APPROVAL REQUIRED
BEFORE INSTALLING CABINETS



2 PROPOSED GROUND EQUIPMENT LAYOUT

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

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0	ISSUED FOR CONSTRUCTION	NJ	06/28/21

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STRATFORD, CT 06614-3715

SEAL:

STATE OF CONNECTICUT
KYLE JENSEN FREEHART
34906
LICENSED
PROFESSIONAL ENGINEER

DocuSigned by:
Kyle Freehart
D8BEE252A3804C1...

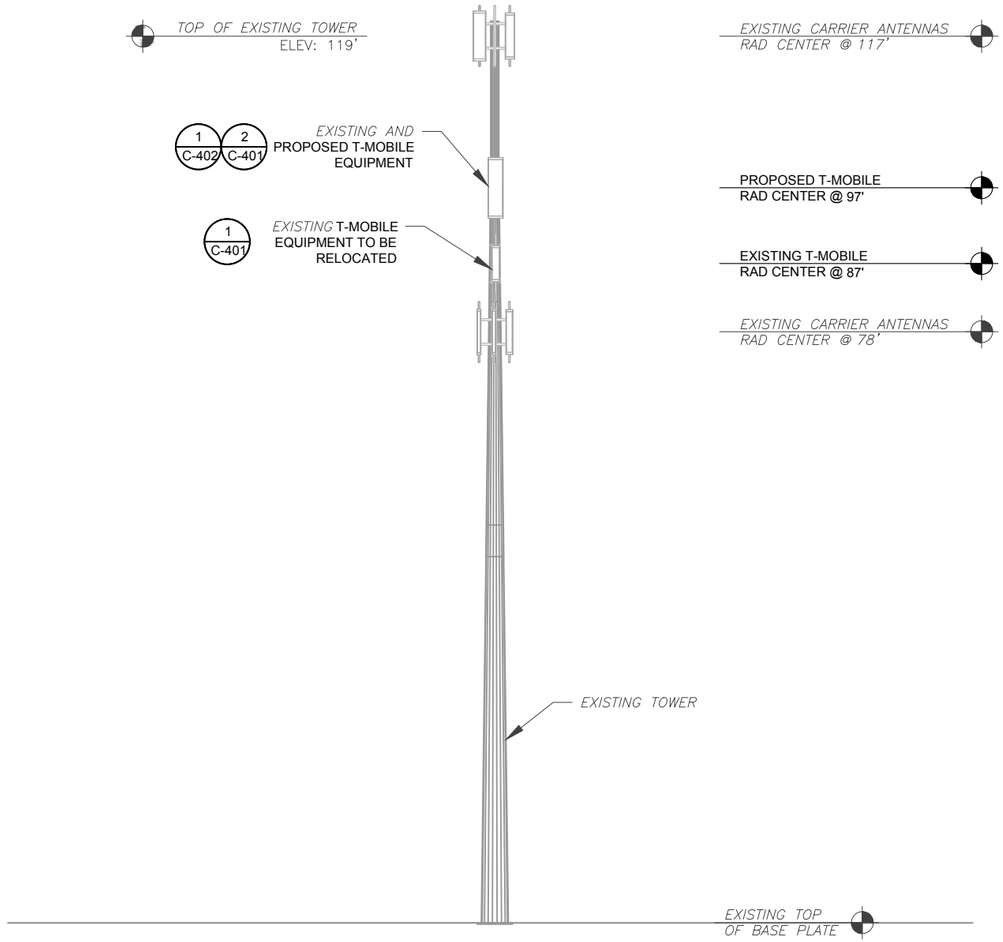
T··Mobile·

DATE DRAWN:	06/28/21
ATC JOB NO:	13337496_G3
CUSTOMER ID:	23 STONYBROOK RD
CUSTOMER #:	CTFF310D

DETAILED GROUND PLAN

SHEET NUMBER:	REVISION:
C-102	0

PER MOUNT ANALYSIS COMPLETED BY ETS, DATED 03/23/21, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



1 TOWER ELEVATION
SCALE: N.T.S.

TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

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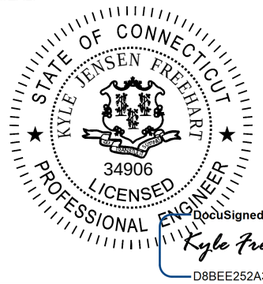
STRATFORD, CT 06614-3715

SEAL:

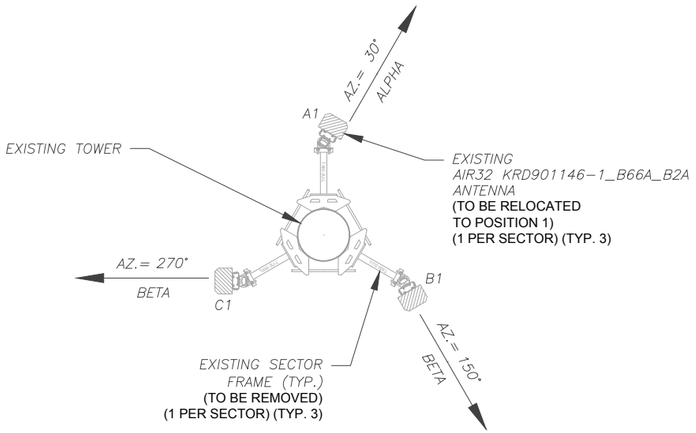


T-Mobile

DATE DRAWN:	06/28/21
ATC JOB NO:	13337496_G3
CUSTOMER ID:	23 STONYBROOK RD
CUSTOMER #:	CTFF310D

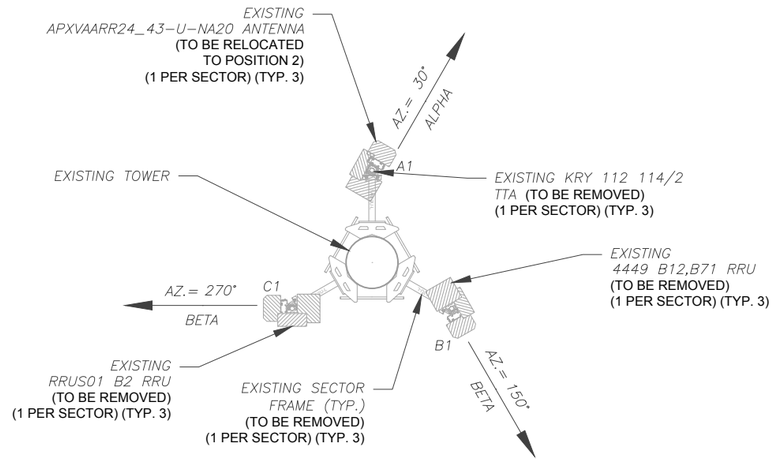
TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0



1 EXISTING ANTENNA PLAN @ 87'

SCALE: N.T.S.



2 EXISTING ANTENNA PLAN @ 97'

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE @ 87' RAD

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	87'	30°	A1	AIR32 KRD901146-1_ B66A_B2A	1900/2100	0°	REL	–	–
BETA	87'	150°	B1	AIR32 KRD901146-1_ B66A_B2A	1900/2100	0°	REL	–	–
GAMMA	87'	270°	C1	AIR32 KRD901146-1_ B66A_B2A	1900/2100	0°	REL	–	–

NOTES

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

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

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

EXISTING ANTENNA SCHEDULE @ 97' RAD

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	97'	30°	A1	APXVAARR24_43-U-NA 20	600/700/1900/ 2100	0°	REL	4449 B12,B71, KRY 112 114/2	RMV RMV
BETA	97'	150°	B1	APXVAARR24_43-U-NA 20	600/700/1900/ 2100	0°	REL	4449 B12,B71, KRY 112 114/2	RMV RMV
GAMMA	97'	270°	C1	APXVAARR24_43-U-NA 20	600/700/1900/ 2100	0°	REL	4449 B12,B71, KRY 112 114/2	RMV RMV

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
–	–	(12) 1 5/8"	1 1/4"	RMV
–	–	–	1 1/4"	RMN
–	–	–	6/24 HYBRID TRUNK	RMN

3 EQUIPMENT SCHEDULES

AMERICAN TOWER®

Kimley»Horn

COA: PEC.0000738
421 FAYETTEVILLE ST, SUITE 600
RALEIGH, NC 27601

REV.	DESCRIPTION	BY	DATE
A	PRELIM	KB	03/03/21
0	ISSUED FOR CONSTRUCTION	NJ	06/28/21

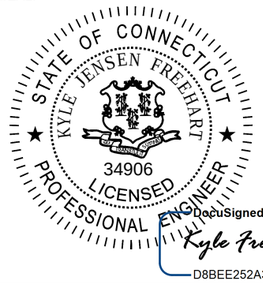
ATC SITE NUMBER:
283420

ATC SITE NAME:
STONEYBROOK RD CT

T-MOBILE SITE NAME:
23 STONYBROOK RD

SITE ADDRESS:
23 STONYBROOK ROAD
STRATFORD, CT 06614-3715

SEAL:



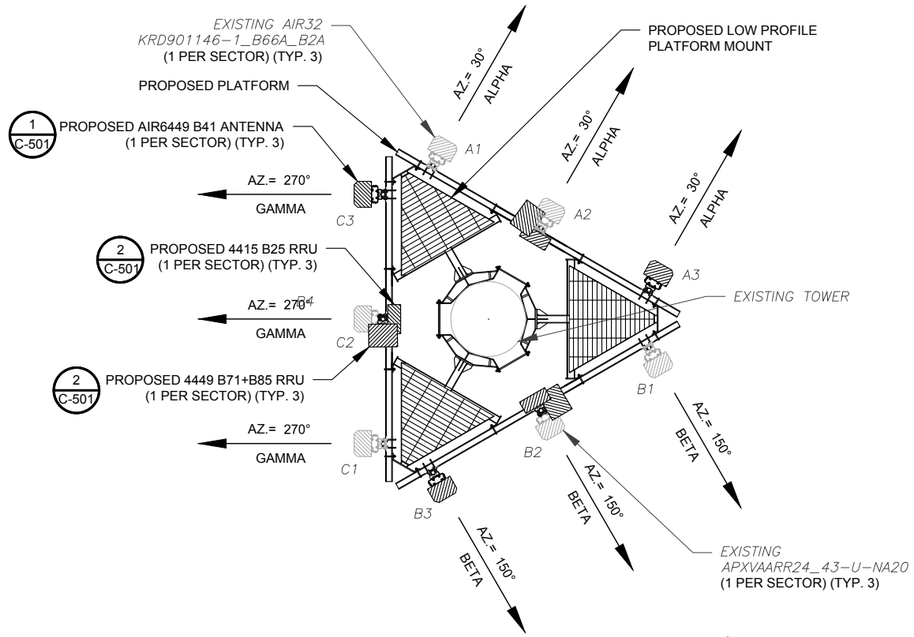
T-Mobile

DATE DRAWN:	06/28/21
ATC JOB NO:	13337496_G3
CUSTOMER ID:	23 STONYBROOK RD
CUSTOMER #:	CTFF310D

EXISTING ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0

PER MOUNT ANALYSIS COMPLETED BY ETS, DATED 03/23/21, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



2 FINAL ANTENNA PLAN

SCALE: N.T.S.

NOTES

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

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

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

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	97'	30°	A1	AIR32 KRD901146-1_B66A_B2	1900/2100	0°	REL	-	-
			A2	APXVAARR24_43-U-NA20	600/700/1900	0°	REL	4449 B71+B85, 4415 B25	ADD
			A3	AIR6449 B41	2500	0°	ADD	-	-
BETA	97'	150°	B1	AIR32 KRD901146-1_B66A_B2	1900/2100	0°	REL	-	-
			B2	APXVAARR24_43-U-NA20	600/700/1900	0°	REL	4449 B71+B85, 4415 B25	ADD
			B3	AIR6449 B41	2500	0°	ADD	-	-
GAMMA	97'	270°	C1	AIR32 KRD901146-1_B66A_B2	1900/2100	0°	REL	-	-
			C2	APXVAARR24_43-U-NA20	600/700/1900	0°	REL	4449 B71+B85, 4415 B25	ADD
			C3	AIR6449 B41	2500	0°	ADD	-	-

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	-	*1 1/4"*	*RMN*
-	-	-	*6/24 HYBRID TRUNK*	*RMN*
-	-	-	6/24 HYBRID TRUNK	ADD

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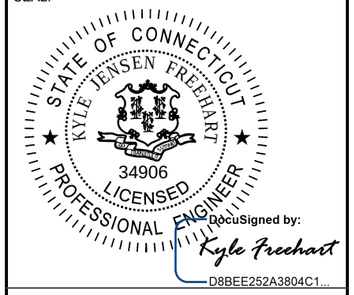
T-MOBILE SITE NAME:
23 STONYBROOK RD

SITE ADDRESS:
23 STONYBROOK ROAD
STRATFORD, CT 06614-3715

SEAL:

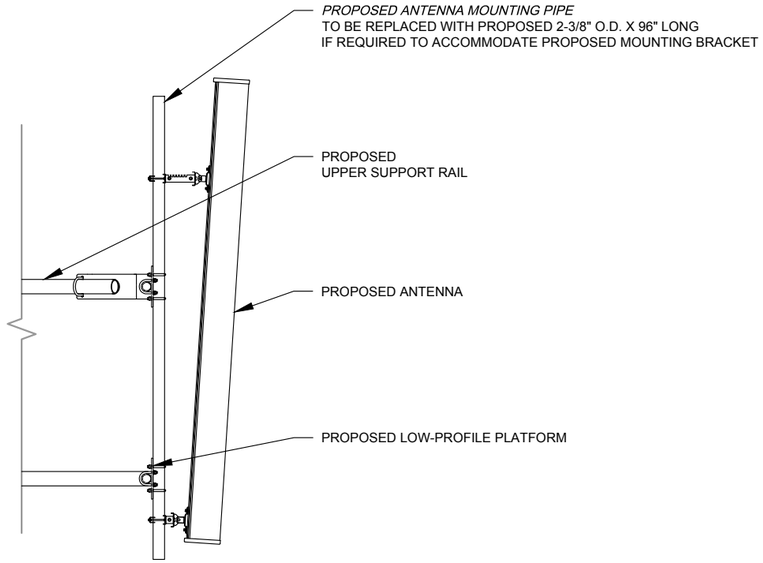


T-Mobile

DATE DRAWN:	06/28/21
ATC JOB NO:	13337496_G3
CUSTOMER ID:	23 STONYBROOK RD
CUSTOMER #:	CTFF310D

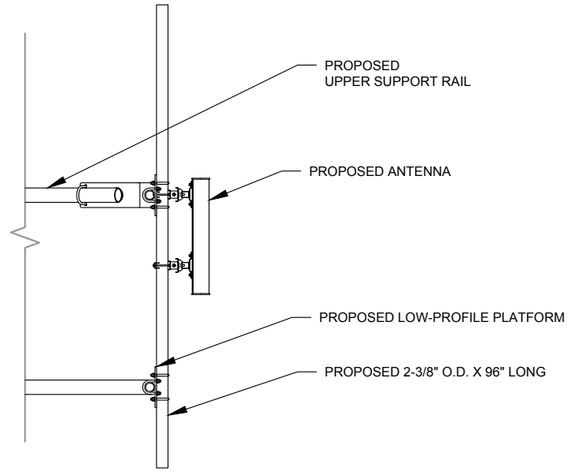
PROPOSED ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-402	0



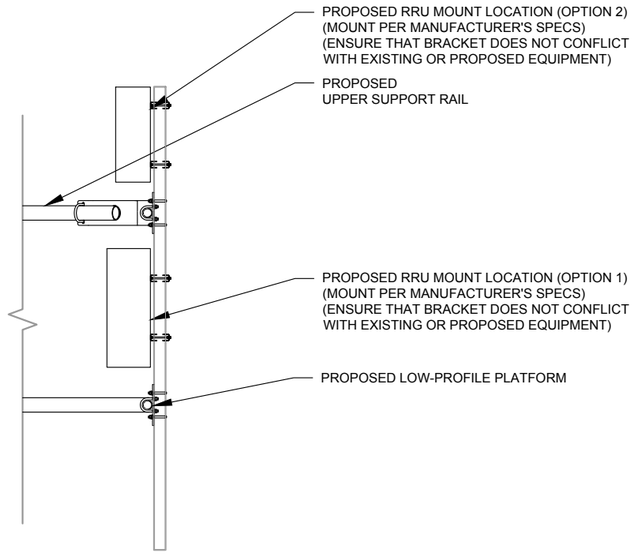
1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

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RALEIGH, NC 27601

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SITE ADDRESS:
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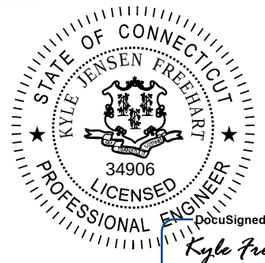
STRATFORD, CT 06614-3715

SEAL:

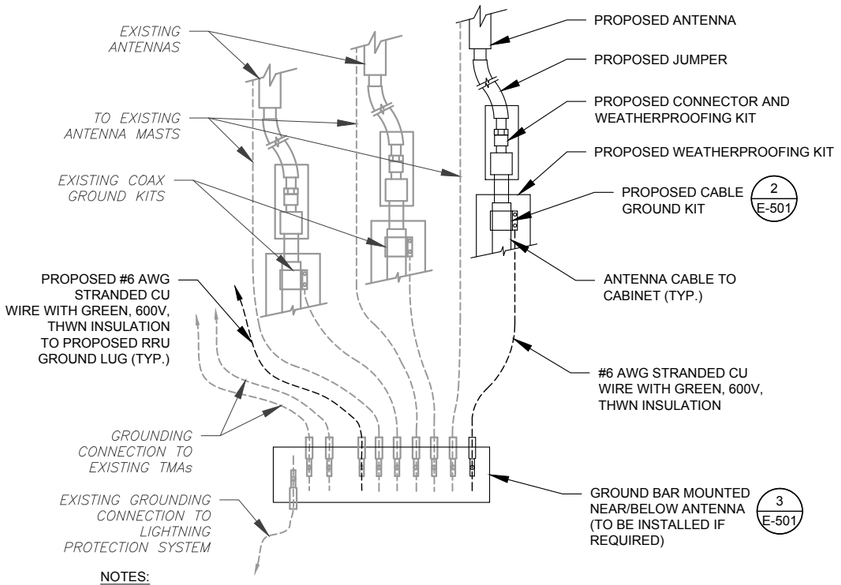


T-Mobile

DATE DRAWN:	06/28/21
ATC JOB NO:	13337496_G3
CUSTOMER ID:	23 STONYBROOK RD
CUSTOMER #:	CTFF310D

CONSTRUCTION
DETAILS

SHEET NUMBER:	REVISION:
C-501	0

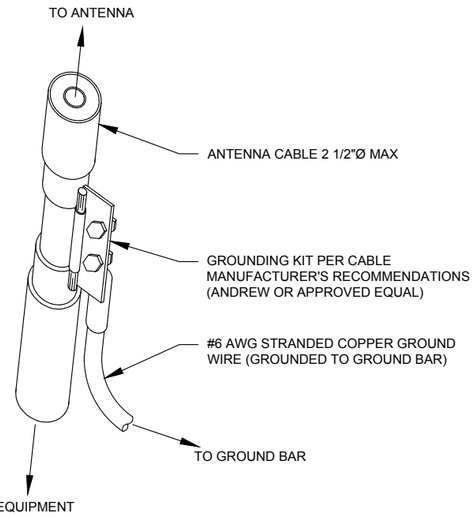


NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

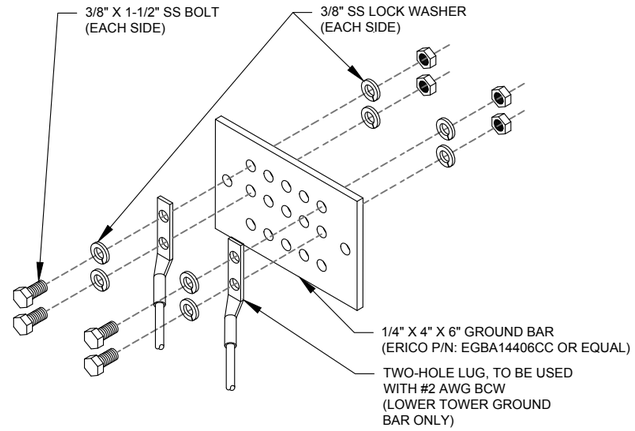


GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.

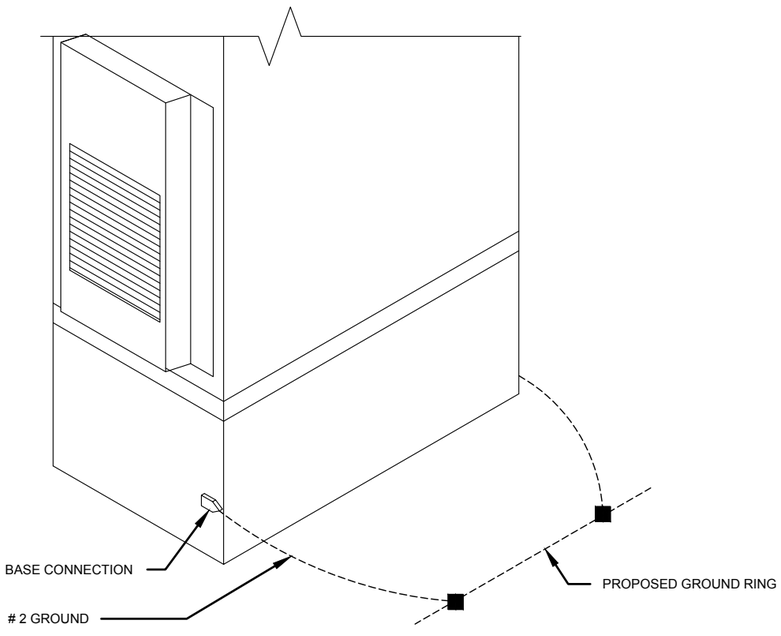


GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.



4 OUTDOOR CABINET GROUNDING

SCALE: N.T.S.

ELECTRICAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
2. ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW:

OCPD SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
80A/2P	2#3 AWG	#8 AWG	1-1/4"
100/2P	2#2 AWG	#8 AWG	1-1/4"
125A/2P	2#1 AWG	#8 AWG	1-1/2"
150A/2P	2#1/0 AWG	#8 AWG	1-1/2"

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23 STONYBROOK RD

SITE ADDRESS:
23 STONYBROOK ROAD
STRATFORD, CT 06614-3715

SEAL:

STATE OF CONNECTICUT · KYLE JENSEN FREEHART · 34906 · LICENSED PROFESSIONAL ENGINEER

DocuSigned by:
Kyle Freehart
D8BEE252A3804C1...

T-Mobile

DATE DRAWN:	06/28/21
ATC JOB NO:	13337496_G3
CUSTOMER ID:	23 STONYBROOK RD
CUSTOMER #:	CTFF310D

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

Section 5 - RAN Equipment

Existing RAN Equipment

Template: 67D93DB Outdoor

Enclosure	1	2
Enclosure Type	RBS 6131	Ancillary Equipment (Ericsson)
Baseband	DUW30 U2100; DUG20 G1900; BB 6630 L2100 L1900; BB 6630 L700 L600 N600	
Hybrid Cable System		Ericsson 6x12 HCS 6AWG 40m
Radio	RU22 (x 6) U2100	

Proposed RAN Equipment

Template: 67D5A997DB Outdoor

Enclosure	1	2	3
Enclosure Type	RBS 6131	Enclosure 6160	B160
Baseband	DUW30; DUG20 G1900; BB 6630 L2100 L1900; BB 6630 L700 L600 N600	BB 6630 L2500; BB 6648 N2500	
Hybrid Cable System	Ericsson 6x12 HCS 6AWG 40m; Ericsson Hybrid Trunk 6/24 4AWG 40m	Ericsson Hybrid Trunk 6/24 4AWG 40m; PSU 4813	
Radio	RU22 (x 6)		
Transport System		CSR IXRe V2: (Gen2)	

RAN Scope of Work:

U2100 will be decommissioned. Cabinet radios will become unused.

Remove Nortel Cabinet.

Add (1) Enclosure 6160.

Add (1) Battery Cabinet B160.

Add (1) IXRe Router to new Enclosure 6160.

Add (1) BB6630 for L2500 to new Enclosure 6160.

Add (1) BB6648 for N2500 to new Enclosure 6160.

Add (1) PSU4813 Voltage Booster to new Enclosure 6160.

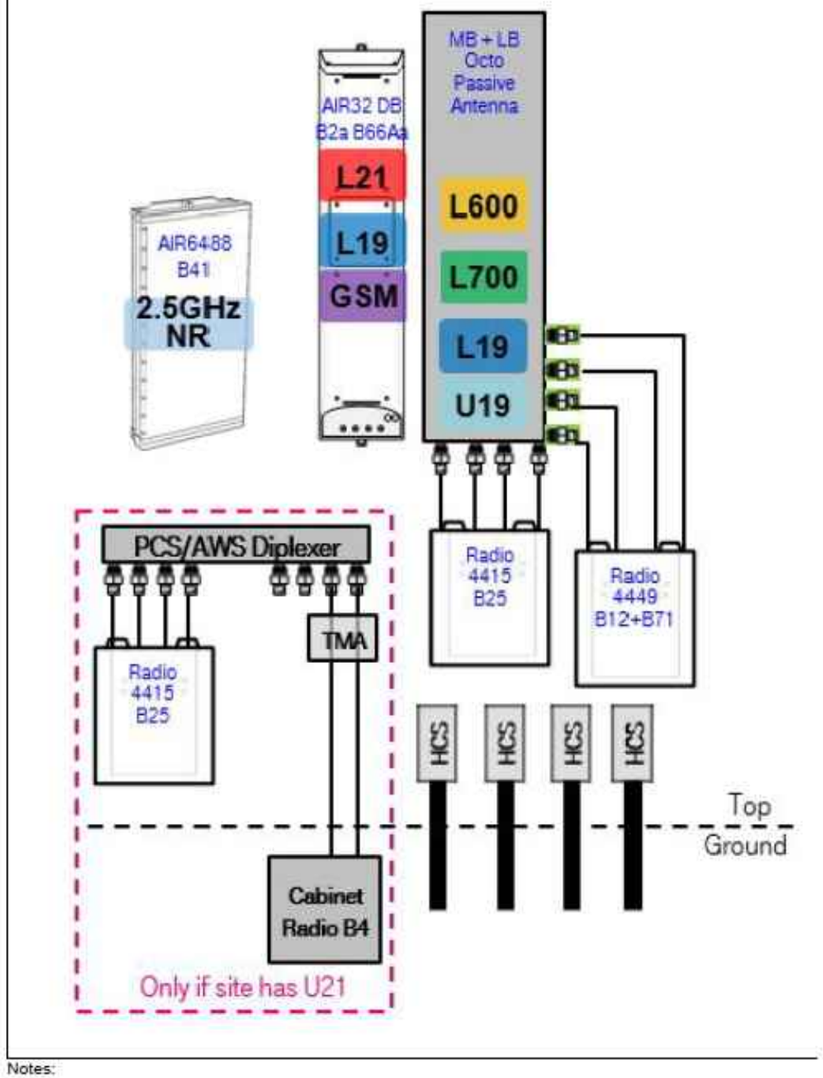
Existing: (6) Coaxial Lines; (3) 6X12 HCS.

Replace the (1) 6X12 HCS for the AIR32 DB (currently at 87' Rad center) with (1) new 6X24 HCS terminating at the RBS6131. Length may be different from existing 6X12 HCS due to the new Rad Center for the AIR32 Dual Band.

Add (1) 6X24 HCS terminating at the Enclosure 6160. Connect DC for the AIR6449 B41 to the PSU4813 Voltage Booster.

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE

67D5997DB_2xAIR+1OP.JPG



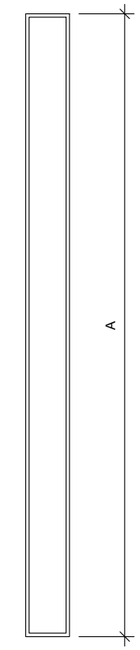
Notes:

2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

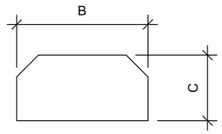
NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-601	0



FRONT VIEW

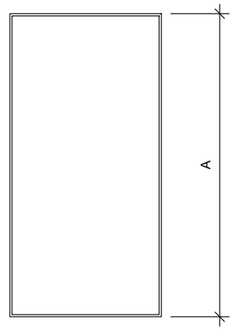


TOP VIEW

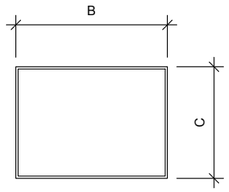
1 ANTENNA SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR6449 B41	33.1"	20.6"	8.6"	104.0



FRONT VIEW



TOP VIEW

2 RRU SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

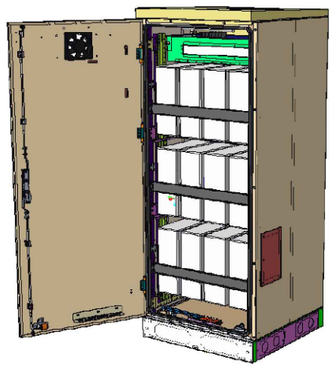
RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4449 B71 B85A	15.0"	13.2"	10.5"	75.0
RRUS 4415 B25	16.5"	13.4"	5.9"	46.0

SUPPLEMENTAL

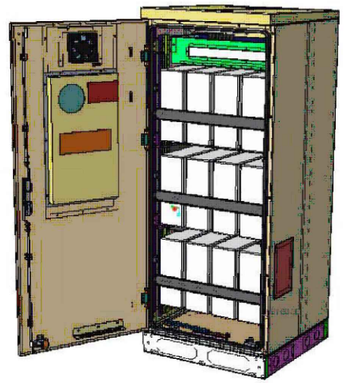
SHEET NUMBER: R-602

REVISION: 0

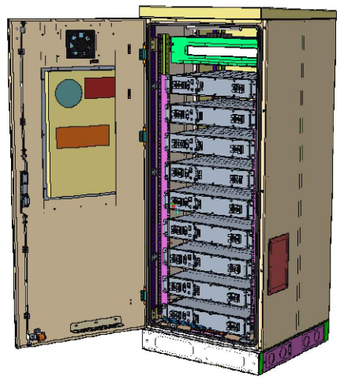
Enclosure B160



Enclosure B160
AirCon + VRLA



Enclosure B160
AirCon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA

Enclosure B160

Capacity
- VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah
- Li-Ion: 24U 19" / 23"
- Sodium-Nickel: 3x FIAMM

Electrical specification
- DC Output: -48VDC/200A
- Battery breakers: 2x 125/2p
- Alarms: Door open, Climate failure, MCB Connection

Mechanical specification
- Weight: 134kg
- Dimensions: 63 x 26 x 26 in. (incl. Base frame)
- Base frame height: 6 in.
- Material: Galvanized steel (180g/m^2)
- Color: Powder paint NCS 2002-B
- Door: Front access
- Locking type: Pad lock / cylinder

Environmental specification
- Ingress protection: VRLA/Sodium IP44
Li-Ion IP55
- Relative humidity: 15-100%

Climate system
- Air Conditioner
  - Fan type: DC
  - Cooling capacity: 500W @L35/L35
- Convection cooling
  - Emergency fan

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-603	0

ERICSSON

Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3PP vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) climate system the Enclosure 6160 ensures optimal environmental protection of the active equipment - enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31,5kW of power in total and provides 24kW of -48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with ENM - allowing for advanced remote monitoring and control such a fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3PP O&M systems.

Preliminary technical specification for Enclosure 6160 AC

CAPACITY	
Rack space user equipment	19U (19" rack)
Hardware capabilities	Power and CPRI support for multi-standard remote radios (RRU or AIR)
	ERS Baseband and Transport units
	Li-Ion batteries
	3PP equipment
	Additional power feed available as option
MECHANICAL SPECIFICATION	
Weight	145 kg (excluding active equipment) 320 lbs (excluding active equipment)
Dimension (H x W x D)	1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame)
Base frame height	150 mm 6 in.
Mounting position	Ground
Enclosure material	Aluminum
Color	Power paint NCS 2002-B
Door	Front access
Rack type	19" (IEC 60297-3-100)
Locking type	Pad lock or Cylinder
POWER SYSTEM	
Input voltage	3P+N+PE: 346/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-250 VAC
Input power	<33kW
Output load (-48VDC)	24kW
Total capacity (-48VDC)	31.5kW
AC SPD	Class 2/Type 2
DC SPD	Class 2/Type 2
PSU Slots	9x
Service outlet	Optional
Priority load	8x Circuit Breaker
LLVD 1	6x Circuit Breaker
LLVD 2	6x Circuit Breaker
CB ratings	3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A
Battery Interface	2x Circuit Breaker
Battery Circuit Breaker rating	125A 2pol (200A)
PSU capacity	3500W

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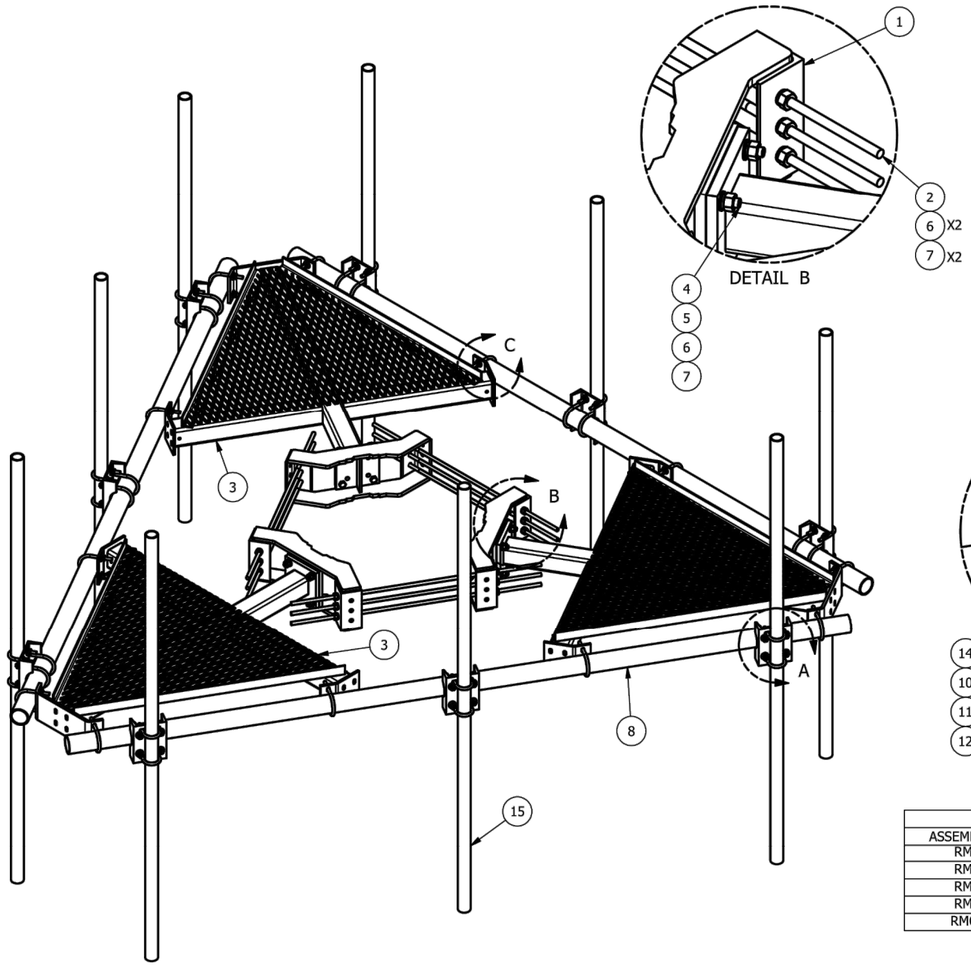
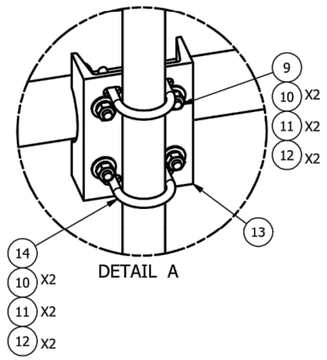
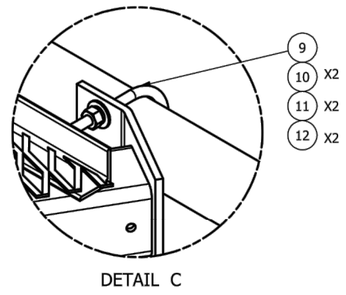
SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-604	0







PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)		0.40	3.59
2	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)		0.40	3.59
3	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
4	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2.75	0.36	4.27
5	12	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.41
6	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
7	30	A58NUT	5/8" HDG A325 HEX NUT		0.13	3.90
8	3	P3150	3-1/2" X 150" SCH 40 GALVANIZED PIPE	150.000 in	94.80	284.40
9	30	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.26	7.71
10	96	G12FW	1/2" HDG USS FLATWASHER		0.03	3.27
11	96	G12LW	1/2" HDG LOCKWASHER		0.01	1.33
12	96	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	6.88
13	9	X-SP219	SMALL SUPPORT CROSS PLATE	8.250 in	8.61	77.50
14	18	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	4.63
15	9	B	ANTENNA MOUNTING PIPE	C	D	E

2-3/8" O.D. VERTICAL MOUNTING PIPES					
ASSEMBLY NO. "A"	PART NO. "B"	LENGTH, "C"	UNIT WEIGHT, "D"	NET WEIGHT, "E"	TOTAL WEIGHT
RMQP-363	P263	63"	20.18	181.62	1494.37
RMQP-372	P272	72"	23.07	207.63	1520.38
RMQP-384	P284	84"	26.91	242.19	1554.94
RMQP-396	P296	96"	30.76	276.84	1589.59
RMQP-3126	P2126	126"	40.75	366.75	1679.50

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	ADDED 10' 6" ANTENNA MOUNTING PIPES		CEK	7/7/2015

REVISION HISTORY

TOLERANCE NOTE

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
LOW PROFILE CO-LOCATION PLATFORM FOR 9 ANTENNAS WITH 12' 6" FACE WIDTH FOR 12" - 38" DIAMETER POLES

DRAWN BY	CPD NO.	DRAWING USAGE
CEK 1/19/2012	semb	CUSTOMER

ENG. APPROVAL

CHECKED BY: BMC 1/23/2012

PART NO.: **SEE ASSEMBLY NO. "A"**

DWG. NO.: **RMQP-3XX**

PAGE 1 OF 2

SITE PRO 1 — A valmont COMPANY
Engineering Support Team: 1-888-753-7446
Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

1 MOUNT ANALYSIS

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

SUPPLEMENTAL

SHEET NUMBER: R-605

REVISION: 0

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

ETS ENGINEERED TOWER SOLUTIONS, PLLC

Antenna Mount Analysis Report

ATC Site Name	:	**STONEYBROOK RD CT, CT**
ATC Site Number	:	**283420**
Engineering Number	:	**13337496_C8_03**
ETS, PLLC Job Number	:	**21090474.STR.5371**
Mount Elevation	:	**97 ft**
Carrier	:	**T-Mobile**
Carrier Site Name	:	**23 Stonybrook Rd**
Carrier Site Number	:	**CTFF310D**
Site Location	:	**23 Stonybrook Rd** **Stratford, CT 06614** **41.203300, -73.148600**
County	:	**Fairfield**
Date	:	**March 23, 2021**
Max Usage	:	**42%**
Result	:	**Replacement - Pass**

Prepared By:
Douglas H. Kosiba, PE
Structural Engineering Lead

Reviewed By:
F. Geoffrey Bost, PE
President/Owner

STATE OF CONNECTICUT · F. GEOFFREY BOST · PEN.0029529 · LICENSED PROFESSIONAL ENGINEER
3/23/21

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for T-Mobile at 97 ft.

Supporting Documents

Spec. Sheet	Site Pro 1 RMQP-396 w/ HRK12, dated January 23, 2012
RFDS	RFDS (CTFF310D) dated January 19, 2021

Analysis

This antenna mount was analyzed using RISA-3D v17.0.4 analysis software

Basic Wind Speed:	119 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Codes:	ANSI/TIA-222-H
Structure Class:	II
Exposure Category:	B
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.207, S_1 = 0.054
Site Class:	D - Default
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

Conclusion

Due to customer requirements, the existing mount cannot support the equipment as described in this report and must be replaced with the mount listed below. Based on the analysis results, the proposed mount meets the requirements, per the applicable codes listed above, and can support the equipment as described in this report.

Site Pro 1 RMQP-396 w/ HRK12

If you have any questions or require additional information, please contact American Tower via email at ENG.Outsource@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Engineered Tower Solutions, PLLC - 3227 Wellington Court, Raleigh, NC 27615 - 919.782.2710 Office - www.engineeredtowersolutions.com

1 MOUNT ANALYSIS

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SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-606	0

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

ETS
ENGINEERED TOWER SOLUTIONS, PLLC

Antenna Mount Analysis Report

ATC Site Name	:	**STONEYBROOK RD CT, CT**
ATC Site Number	:	**283420**
Engineering Number	:	**13337496_C8_03**
ETS, PLLC Job Number	:	**21090474.STR.5371**
Mount Elevation	:	**97 ft**
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Carrier Site Name	:	**23 Stonybrook Rd**
Carrier Site Number	:	**CTFF310D**
Site Location	:	**23 Stonybrook Rd** **Stratford, CT 06614** **41.203300, -73.148600**
County	:	**Fairfield**
Date	:	**March 23, 2021**
Max Usage	:	**42%**
Result	:	**Replacement - Pass**

Prepared By:
Douglas H. Kosiba, PE
Structural Engineering Lead

Reviewed By:
F. Geoffrey Bost, PE
President/Owner

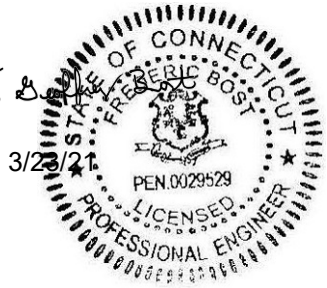

Table of Contents

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Basic Wind Speed:	119 mph (3-Second Gust)
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Codes:	ANSI/TIA-222-H
Structure Class:	II
Exposure Category:	B
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.207, S_1 = 0.054
Site Class:	D - Default
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

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Due to customer requirements, the existing mount cannot support the equipment as described in this report and must be replaced with the mount listed below. Based on the analysis results, the proposed mount meets the requirements, per the applicable codes listed above, and can support the equipment as described in this report.

Site Pro 1 RMQP-396 w/ HRK12

If you have any questions or require additional information, please contact American Tower via email at ENG.Outsource@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

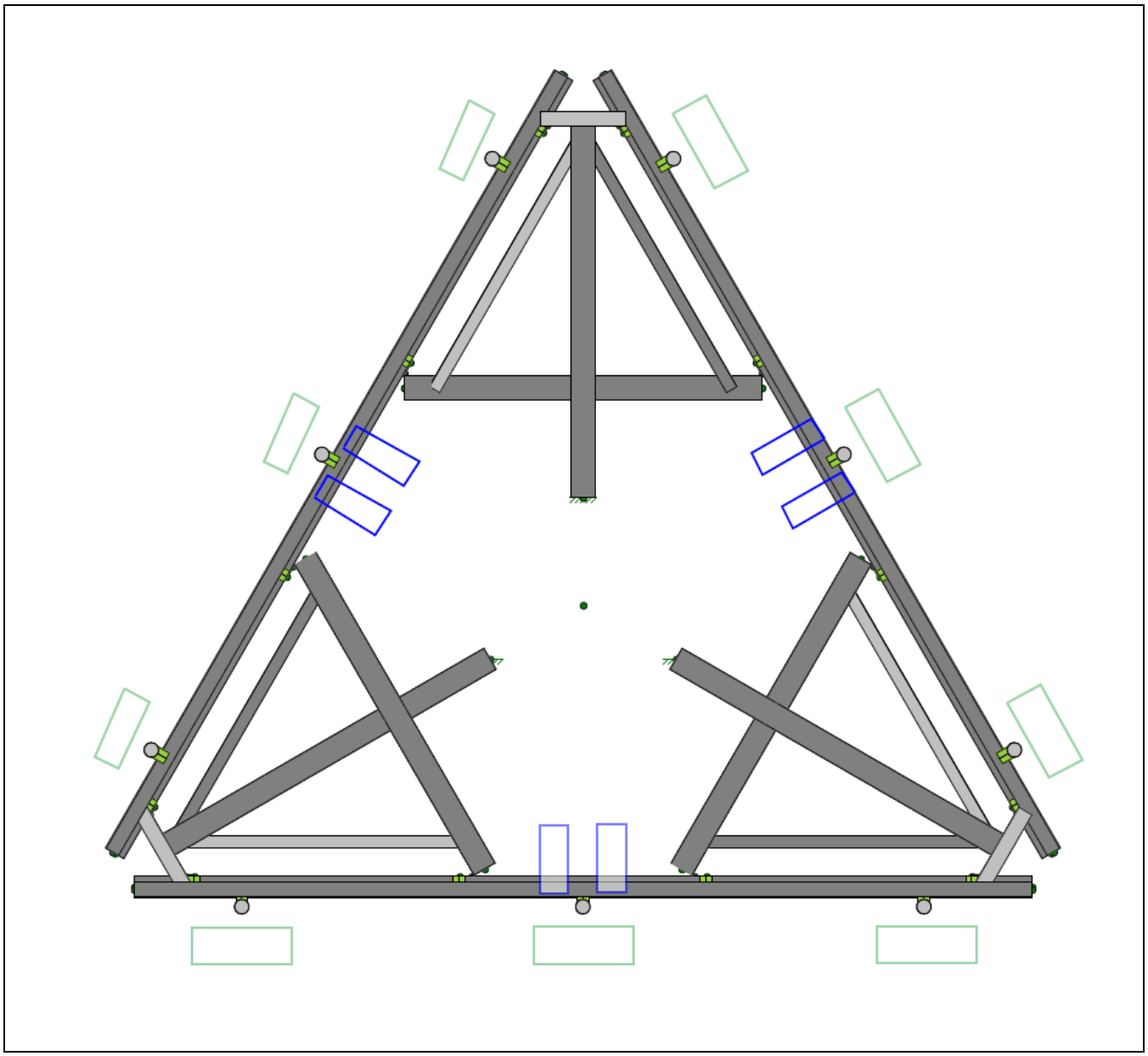
Antenna Loading

Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model
97.0	97.0	3	Ericsson AIR32 B66Aa/B2a
		3	RFS APXVAARR24_43-U-NA20
		3	Ericsson Air6449 B41
		3	Ericsson Radio 4449 B71 B85A
		3	Ericsson RRUS 4415 B25

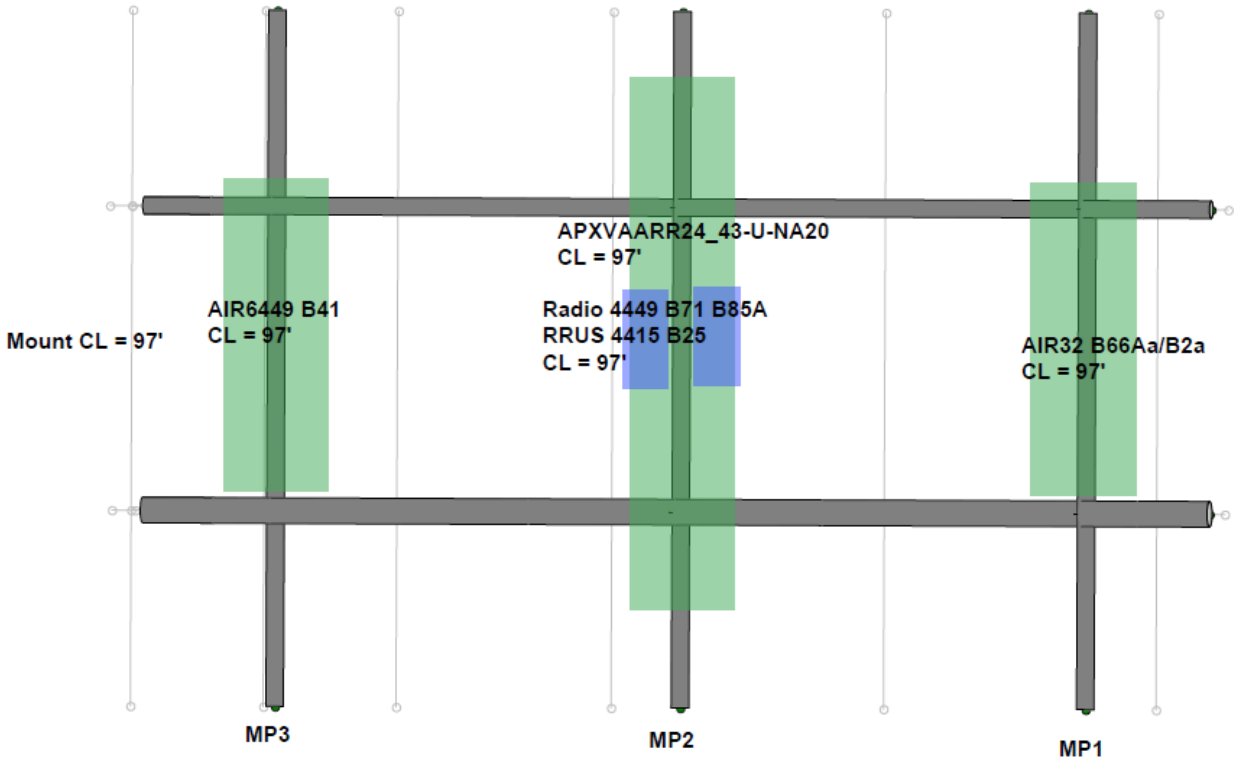
Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Horizontals	41%	Pass
Mount Pipes	42%	Pass
Handrails	30%	Pass

Mount Layout



Equipment Layout



Standard Conditions

All engineering services performed by Engineered Tower Solutions, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of ETS, PLLC

It is the responsibility of the client to ensure that the information provided to ETS, PLLC and used in the performance of our engineering services is correct and complete.

The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specification.

All connections are to be verified for condition and tightness by the installation contractor preceding any changes to the appurtenance mounting system and/or equipment attached to it.

Steel grades have been assumed as follows, unless noted otherwise:

Channel, Solid Round, Angle, Plate, Threaded Rod	ASTM A36 (Gr. 36)
HSS (Rectangular)	ASTM A500 (Gr. B-46)
HSS (Round)	ASTM A500 (Gr. B-42)
Pipe	ASTM A53 (Gr. 35)
Connection Bolts	ASTM A325
U-Bolt	SAE J429 (Gr. 2)

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

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ETS, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

Site Inputs	
Mount Support (Tower, or Building Support)?	Tower
Risk Category (TIA Table 2-1)	II
Exposure Category	B
Basic Wind Speed without Ice, V	119 mph
Basic Wind Speed with Ice, V_i	50 mph
Design of Ice, δ_{ice}	56 pcf
Design Ice Thickness, t_i	1.00 in
Basic Wind Speed (Maintenance)	30 mph
Maintenance Load, L_m	500 lb
Maintenance Load, L_v	250 lb
Height of Structure, h	119.0 ft
Mount Centerline, h_m	97.0 ft
Topographic Factor, K_{zt}	1.00
Rooftop Wind Speed-Up Factor, K_s	1.00
Mean Elevation of base of structure above sea level, z_s	75 ft
Ground Elevation Factor, K_e	1.00
Wind Direction Probability Factor, K_d	0.95
Gust Response Factor, G_h	1.00
Shielding Factor for Appurtenances, K_a	0.90

TIA-222-H Mount Load Generator

Seismic Design Input/Output	
0.207	Spectral response acceleration at short periods, S_s
0.054	Spectral response acceleration at a period of 1 second, S_1
D	Soil Site Class
1.600	Short-period site coefficient, F_a
2.400	Long-period site coefficient, F_v
0.221	Design spectral response acceleration at short periods, S_{DS}
0.086	Design spectral response acceleration at a period of 1 second, S_{D1}
2.00	Response modification coefficient, R
1.00	Earthquake amplification factor, A_s
1.00	Importance Factor
0.1104	Seismic Response Coefficient, C_s
Eh = 0.110 W	Total Seismic Shear Force, $E_h = \rho Q_E$ ($Q_E = \rho C_s W A_s$ & $\rho = 1.0$)
Ev = 0.044 D	Vertical Seismic Load Effect, $E_v = 0.2 S_{DS} D A_s$

Output File Name: STONEYBROOK RD CT, CT - T-Mobile

ENGINEERED TOWER SOLUTIONS, PLLC

Mount Pipe Information							Mount Pipe Forces					
Mount Pipe	Mount Location	Vertical Offset	Length	Diameter	Weight	Shape	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
P 2 SCH 40 x 96	MP1	0.00 ft	96.00 in	2.38 in	29.25 lb	Round	21.87 lb	63.93 lb	1.114 in	37.98 lb	7.90 lb	20.86 lb
P 2 SCH 40 x 96	MP2	0.00 ft	96.00 in	2.38 in	29.25 lb	Round	0.06 lb	63.93 lb	1.114 in	37.98 lb	0.44 lb	20.86 lb
P 2 SCH 40 x 96	MP3	0.00 ft	96.00 in	2.38 in	29.25 lb	Round	34.91 lb	63.93 lb	1.114 in	37.98 lb	12.37 lb	20.86 lb
P 2 SCH 40 x 96	MP4	0.00 ft	96.00 in	2.38 in	29.25 lb	Round	21.87 lb	63.93 lb	1.114 in	37.98 lb	7.90 lb	20.86 lb
P 2 SCH 40 x 96	MP5	0.00 ft	96.00 in	2.38 in	29.25 lb	Round	0.06 lb	63.93 lb	1.114 in	37.98 lb	0.44 lb	20.86 lb
P 2 SCH 40 x 96	MP6	0.00 ft	96.00 in	2.38 in	29.25 lb	Round	34.91 lb	63.93 lb	1.114 in	37.98 lb	12.37 lb	20.86 lb
P 2 SCH 40 x 96	MP7	0.00 ft	96.00 in	2.38 in	29.25 lb	Round	21.87 lb	63.93 lb	1.114 in	37.98 lb	7.90 lb	20.86 lb
P 2 SCH 40 x 96	MP8	0.00 ft	96.00 in	2.38 in	29.25 lb	Round	0.06 lb	63.93 lb	1.114 in	37.98 lb	0.44 lb	20.86 lb
P 2 SCH 40 x 96	MP9	0.00 ft	96.00 in	2.38 in	29.25 lb	Round	34.91 lb	63.93 lb	1.114 in	37.98 lb	12.37 lb	20.86 lb

Engineered Tower Solutions, PLLC
3227 Wellington Court
Raleigh, NC 27615

Appurtenance Information - MP1							Appurtenance Forces - MP1					
Appurtenance	Quantity	Vertical Offset	Length	Width	Depth	Weight	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
AIR32 B66Aa/B2a	1	0.00 ft	56.60 in	12.90 in	8.70 in	132.20 lb	219.04 lb	158.56 lb	1.114 in	107.02 lb	41.95 lb	31.72 lb

Appurtenance Information - MP2							Appurtenance Forces - MP2					
Appurtenance	Quantity	Vertical Offset	Length	Width	Depth	Weight	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
APXVAARR24	1	0.00 ft	95.90 in	24.00 in	8.70 in	127.90 lb	681.12 lb	299.08 lb	1.114 in	289.74 lb	125.73 lb	58.74 lb
Radio 4449 B71	1	0.00 ft	15.00 in	10.50 in	13.20 in	75.00 lb	44.16 lb	55.52 lb	1.114 in	30.59 lb	8.90 lb	11.76 lb
RRUS 4415 B25	1	0.00 ft	16.50 in	5.90 in	13.40 in	46.00 lb	27.60 lb	62.00 lb	1.114 in	29.48 lb	6.02 lb	13.01 lb

Appurtenance Information - MP3							Appurtenance Forces - MP3					
Appurtenance	Quantity	Vertical Offset	Length	Width	Depth	Weight	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
Air6449 B41	1	0.00 ft	33.10 in	20.60 in	8.60 in	104.00 lb	191.19 lb	83.81 lb	1.114 in	87.97 lb	36.03 lb	17.38 lb

Appurtenance Information - MP4							Appurtenance Forces - MP4					
Appurtenance	Quantity	Vertical Offset	Length	Width	Depth	Weight	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
AIR32 B66Aa/B2a	1	0.00 ft	56.60 in	12.90 in	8.70 in	132.20 lb	219.04 lb	158.56 lb	1.114 in	107.02 lb	41.95 lb	31.72 lb

Appurtenance Information - MP5							Appurtenance Forces - MP5					
Appurtenance	Quantity	Vertical Offset	Length	Width	Depth	Weight	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
APXVAARR24	1	0.00 ft	95.90 in	24.00 in	8.70 in	127.90 lb	681.12 lb	299.08 lb	1.114 in	289.74 lb	125.73 lb	58.74 lb
Radio 4449 B71	1	0.00 ft	15.00 in	10.50 in	13.20 in	75.00 lb	44.16 lb	55.52 lb	1.114 in	30.59 lb	8.90 lb	11.76 lb
RRUS 4415 B25	1	0.00 ft	16.50 in	5.90 in	13.40 in	46.00 lb	27.60 lb	62.00 lb	1.114 in	29.48 lb	6.02 lb	13.01 lb

Appurtenance Information - MP6							Appurtenance Forces - MP6					
Appurtenance	Quantity	Vertical Offset	Length	Width	Depth	Weight	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
Air6449 B41	1	0.00 ft	33.10 in	20.60 in	8.60 in	104.00 lb	191.19 lb	83.81 lb	1.114 in	87.97 lb	36.03 lb	17.38 lb

Appurtenance Information - MP7							Appurtenance Forces - MP7					
Appurtenance	Quantity	Vertical Offset	Length	Width	Depth	Weight	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
AIR32 B66Aa/B2a	1	0.00 ft	56.60 in	12.90 in	8.70 in	132.20 lb	219.04 lb	158.56 lb	1.114 in	107.02 lb	41.95 lb	31.72 lb

Appurtenance Information - MP8							Appurtenance Forces - MP8					
Appurtenance	Quantity	Vertical Offset	Length	Width	Depth	Weight	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
APXVAARR24	1	0.00 ft	95.90 in	24.00 in	8.70 in	127.90 lb	681.12 lb	299.08 lb	1.114 in	289.74 lb	125.73 lb	58.74 lb
Radio 4449 B71	1	0.00 ft	15.00 in	10.50 in	13.20 in	75.00 lb	44.16 lb	55.52 lb	1.114 in	30.59 lb	8.90 lb	11.76 lb
RRUS 4415 B25	1	0.00 ft	16.50 in	5.90 in	13.40 in	46.00 lb	27.60 lb	62.00 lb	1.114 in	29.48 lb	6.02 lb	13.01 lb

Appurtenance Information - MP9							Appurtenance Forces - MP9					
Appurtenance	Quantity	Vertical Offset	Length	Width	Depth	Weight	Front Design Wind Force, F_A	Side Design Wind Force, F_A	Design Ice Thickness, t_{iz}	Ice Weight	Front Design Wind Force on Ice, F_A	Side Design Wind Force on Ice, F_A
Air6449 B41	1	0.00 ft	33.10 in	20.60 in	8.60 in	104.00 lb	191.19 lb	83.81 lb	1.114 in	87.97 lb	36.03 lb	17.38 lb

Member Distributed Loads	Member Information			Member Forces		
Mount Members	Width/Diameter (in)	Depth/Diameter (in)	Length (in)	Ka * Force/Length, No Ice	Ice Weight (plf)	Ka * Force/Length, Ice
PIPE 3.0	3.500 in	3.500 in	150.0 in	10.6 lb/ft	6.3 lb/ft	3.1 lb/ft
PIPE 2.0	2.380 in	2.380 in	150.0 in	7.2 lb/ft	4.8 lb/ft	2.5 lb/ft
HSS 4x4SA	4.000 in	4.000 in	62.3 in	10.8 lb/ft	9.2 lb/ft	2.8 lb/ft
HSS 4x4 BRACE	4.000 in	4.000 in	59.8 in	10.6 lb/ft	9.2 lb/ft	2.7 lb/ft
LL2.5x2.5	5.500 in	2.500 in	52.5 in	20.6 lb/ft	9.0 lb/ft	4.4 lb/ft
L2x2	2.000 in	2.000 in	50.7 in	10.1 lb/ft	5.4 lb/ft	2.7 lb/ft
L2.5x2.5	2.500 in	2.500 in	13.0 in	8.3 lb/ft	6.3 lb/ft	2.2 lb/ft
PL 6x1/2	6.000 in	0.500 in	12.0 in	18.2 lb/ft	9.7 lb/ft	3.9 lb/ft
PL 6x3/8	6.000 in	0.375 in	6.0 in	18.2 lb/ft	9.7 lb/ft	3.9 lb/ft
PL 8x1/2	8.000 in	0.500 in	4.0 in	24.2 lb/ft	12.4 lb/ft	5.0 lb/ft

Member Lookup	Member Label	Position	Maintenance Load
HSS 4x4 BRACE	BRACE-1	210°	
HSS 4x4 BRACE	BRACE-2	330°	
HSS 4x4 BRACE	BRACE-3	90°	
PL 6x3/8	CONN-PL-60-1	60°	
PL 6x3/8	CONN-PL-60-2	60°	
PL 6x3/8	CONN-PL-90-1	90°	
PL 6x3/8	CONN-PL-90-2	90°	
PL 6x3/8	CONN-PL-180-1	0°	
PL 6x3/8	CONN-PL-180-2	0°	
PL 6x3/8	CONN-PL-210-1	210°	
PL 6x3/8	CONN-PL-210-2	210°	
PL 6x3/8	CONN-PL-300-1	300°	
PL 6x3/8	CONN-PL-300-2	300°	
PL 6x3/8	CONN-PL-330-1	330°	
PL 6x3/8	CONN-PL-330-2	330°	
L2.5x2.5	COR-1	210°	

Member Lookup	Member Label	Position	Maintenance Load
L2.5x2.5	COR-2	330°	
L2.5x2.5	COR-3	90°	
PL 6x1/2	COR-PL-90-1	90°	
PL 6x1/2	COR-PL-90-2	90°	
PL 6x1/2	COR-PL-90-3	90°	
PL 6x1/2	COR-PL-90-4	90°	
PL 6x1/2	COR-PL-210-1	210°	
PL 6x1/2	COR-PL-210-2	210°	
PL 6x1/2	COR-PL-210-3	210°	
PL 6x1/2	COR-PL-210-4	210°	
PL 6x1/2	COR-PL-330-1	330°	
PL 6x1/2	COR-PL-330-2	330°	
PL 6x1/2	COR-PL-330-3	330°	
PL 6x1/2	COR-PL-330-4	330°	
PIPE 3.0	FM-0	90°	Start/Mid/End
PIPE 3.0	FM-120	210°	Start/Mid/End
PIPE 3.0	FM-240	330°	Start/Mid/End
L2x2	GRATE-H-90-1	90°	Mid
L2x2	GRATE-H-90-2	90°	Mid
L2x2	GRATE-H-210-1	210°	Mid
L2x2	GRATE-H-210-2	210°	Mid
L2x2	GRATE-H-330-1	330°	Mid
L2x2	GRATE-H-330-2	330°	Mid
PIPE 2.0	HR-0	90°	Start/Mid/End
PIPE 2.0	HR-120	210°	Start/Mid/End
PIPE 2.0	HR-240	330°	Start/Mid/End
HSS 4x4SA	SA-1	300°	
HSS 4x4SA	SA-2	60°	
HSS 4x4SA	SA-3	180°	

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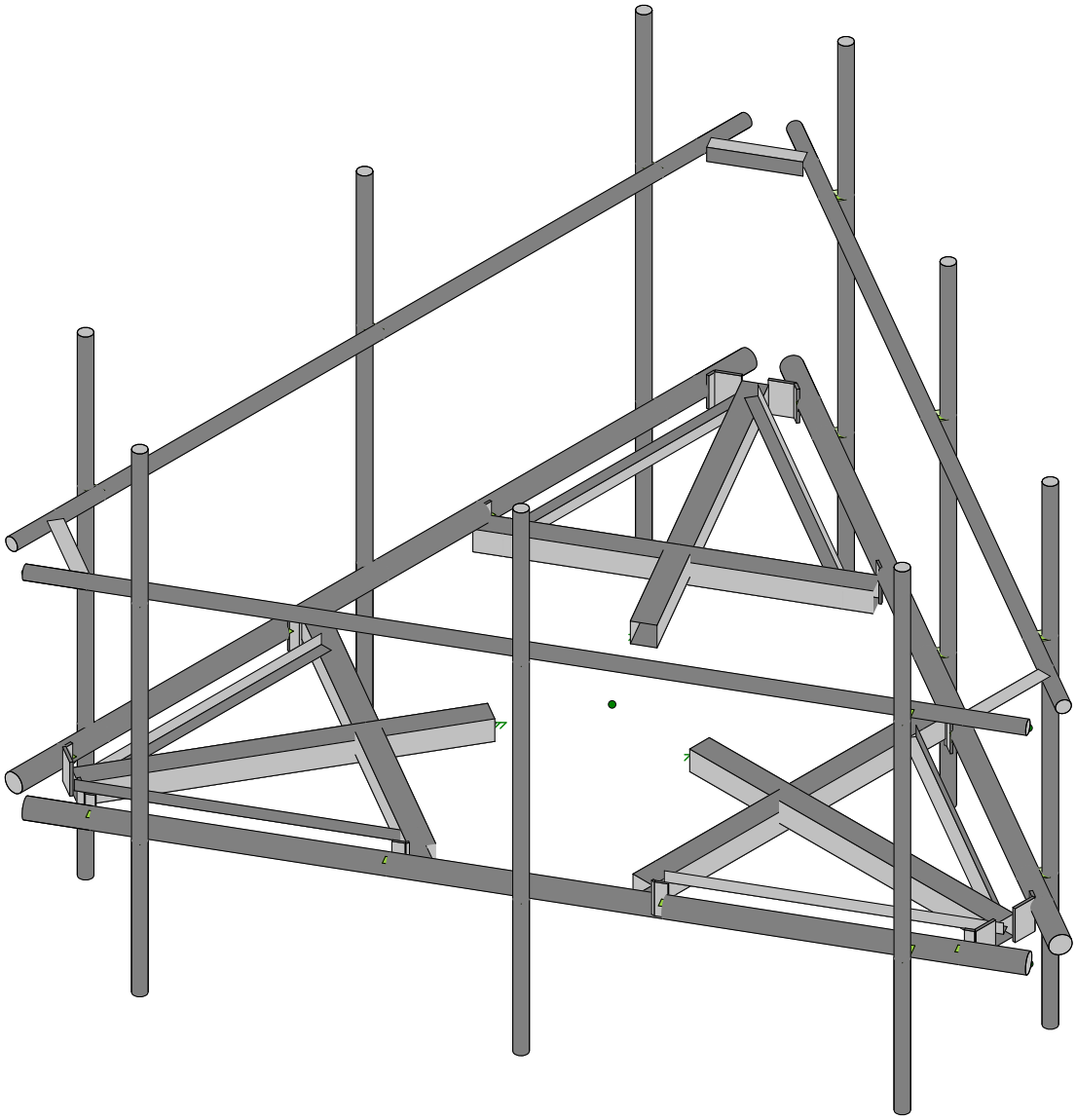
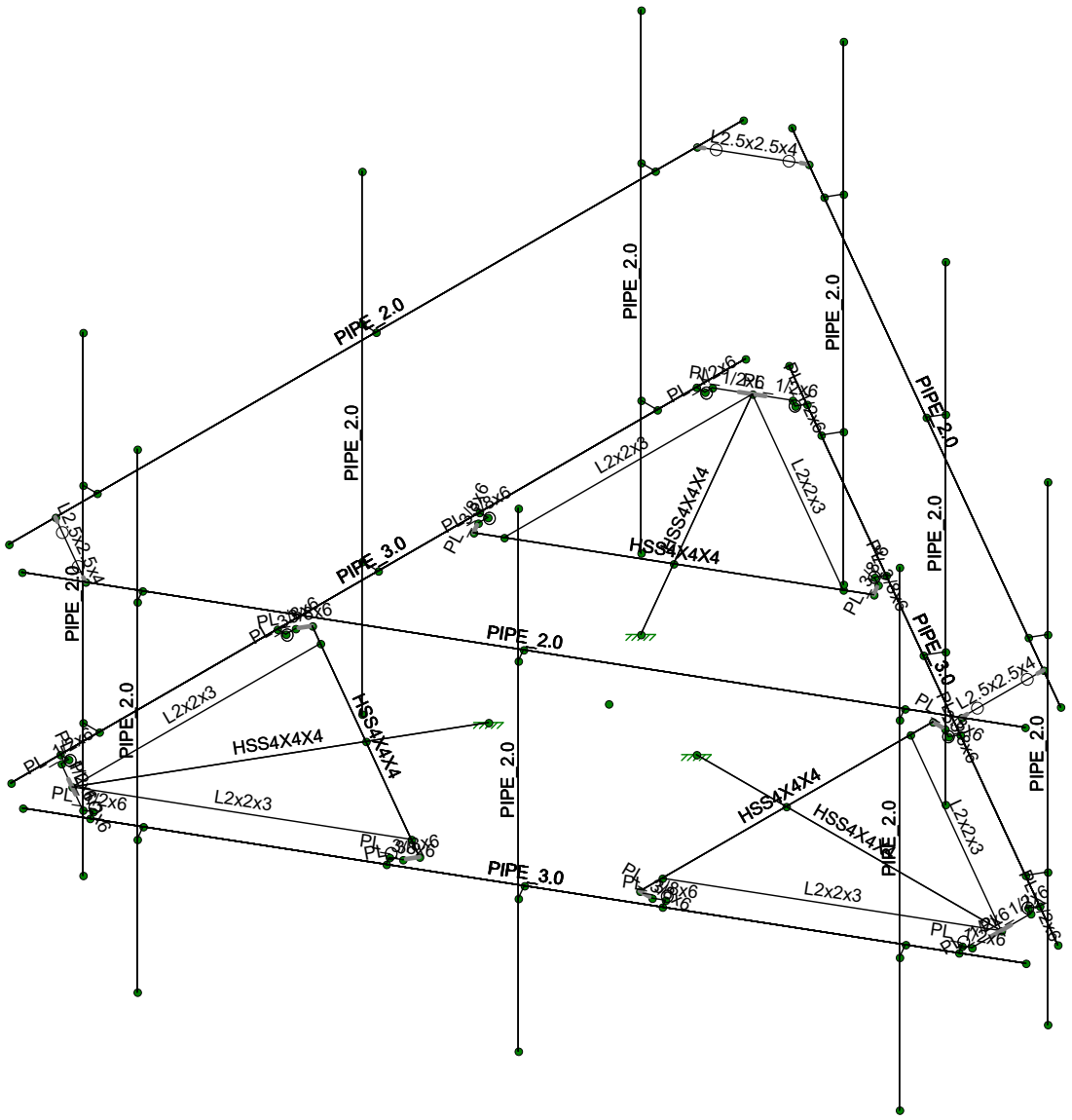
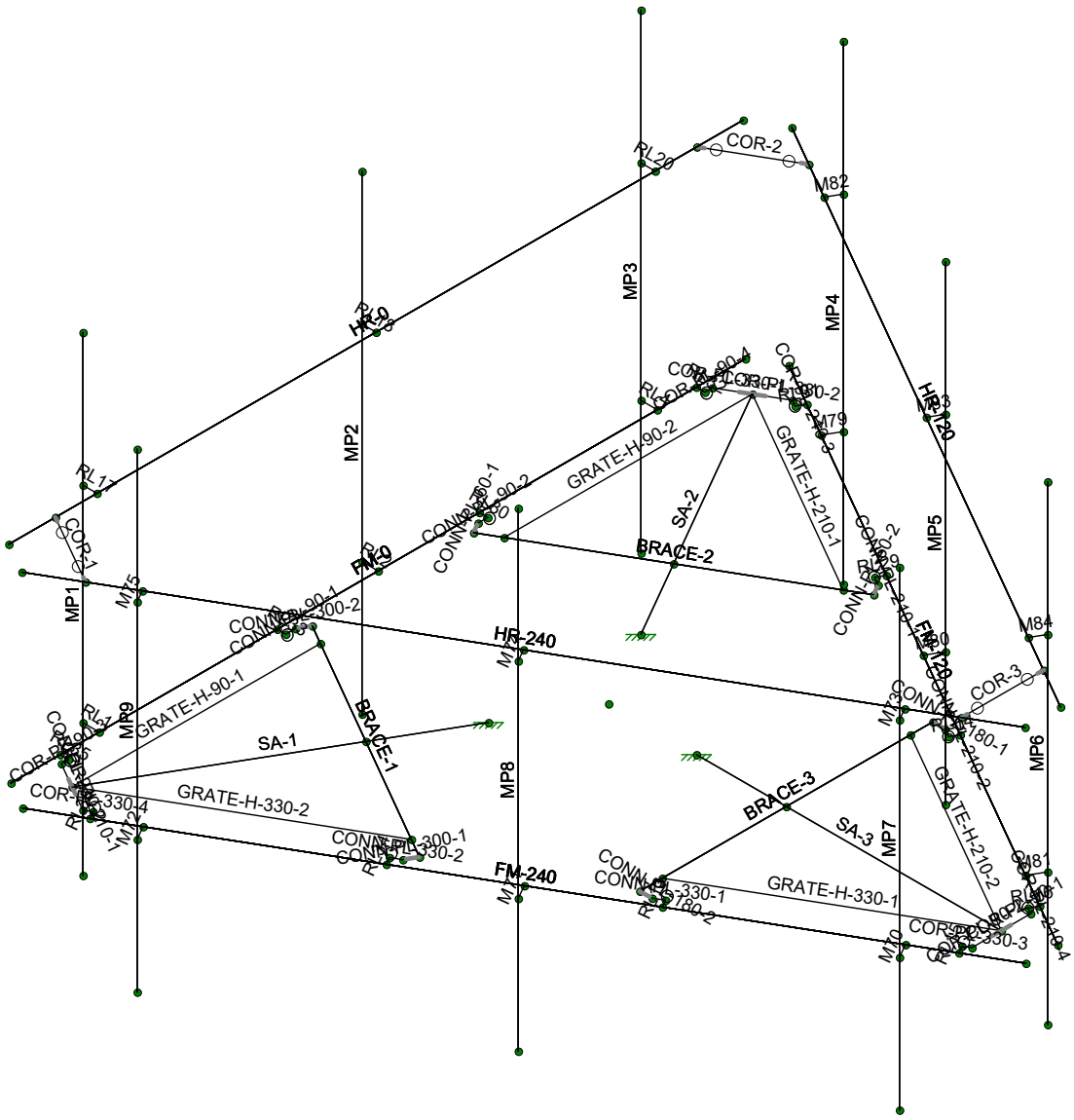
3227 Wellington Court
Raleigh, NC 27615



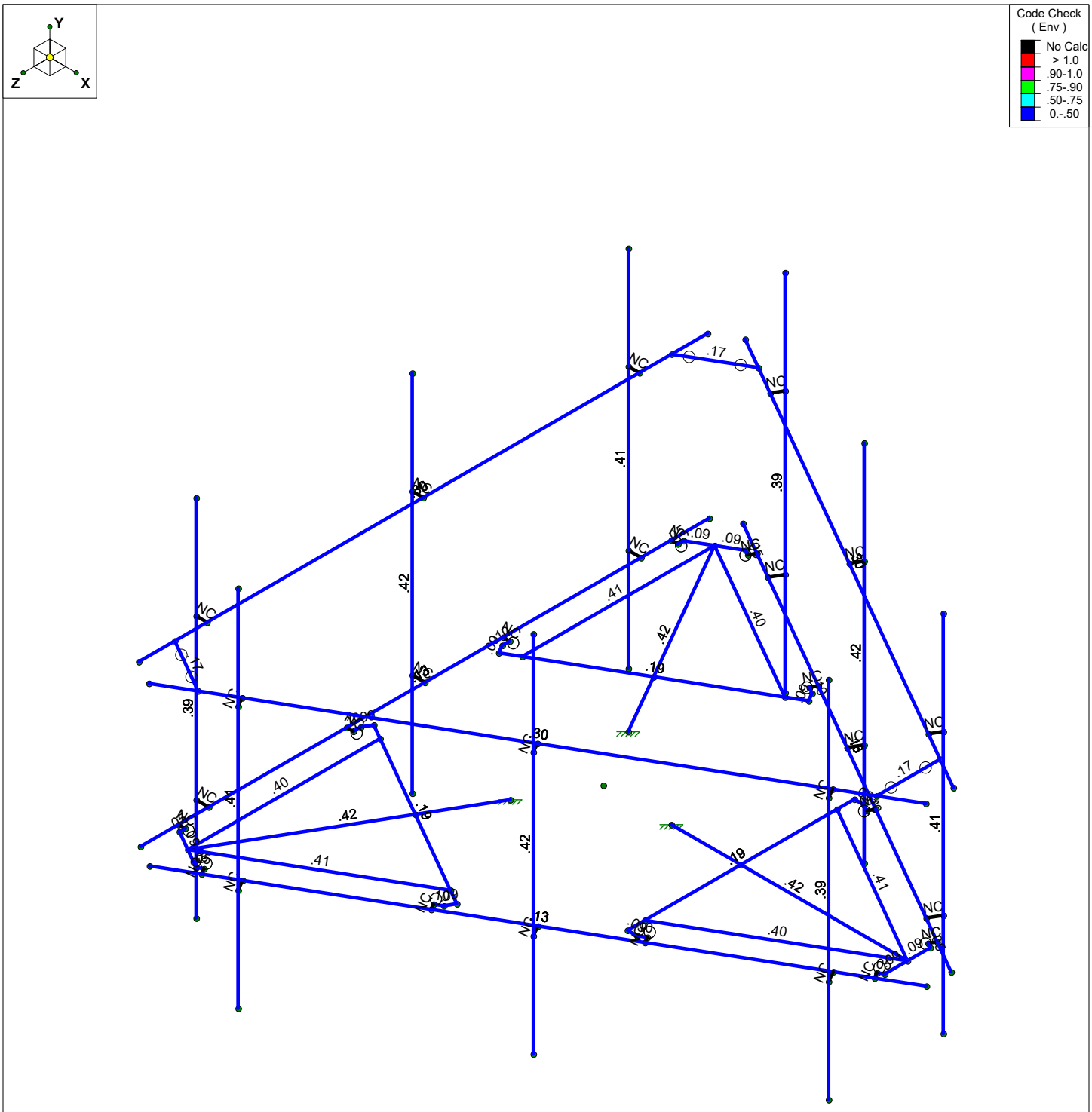
ETS, PLLC	STONEYBROOK RD CT	SK - 1
DHK		Mar 23, 2021 at 2:34 PM
ETS# 21090474.STR.5371		STONEYBROOK RD CT, CT - T-M...



ETS, PLLC	STONEYBROOK RD CT	SK - 2
DHK		Mar 23, 2021 at 2:34 PM
ETS# 21090474.STR.5371		STONEYBROOK RD CT, CT - T-M...

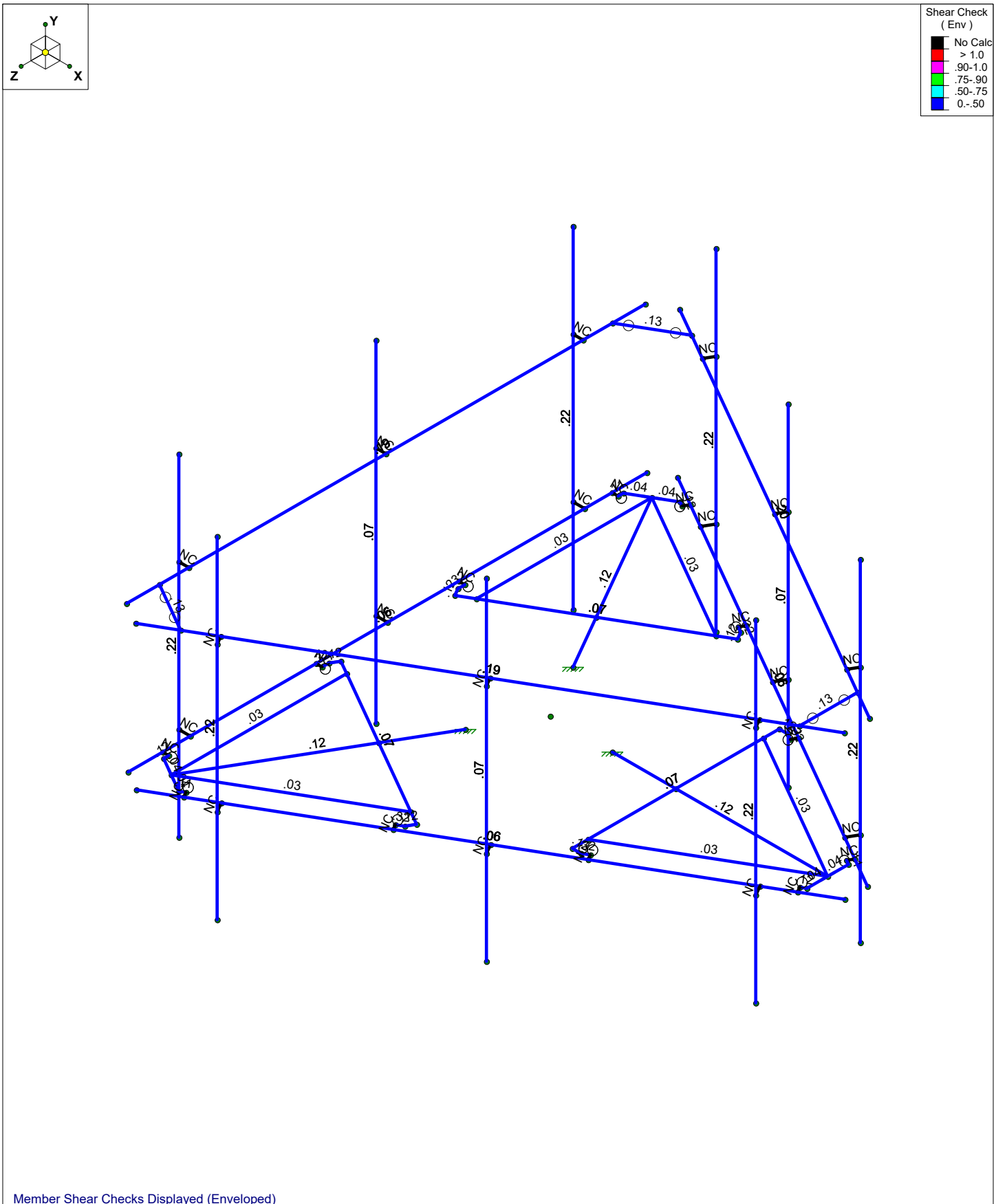


ETS, PLLC	STONEYBROOK RD CT	SK - 3
DHK		Mar 23, 2021 at 2:35 PM
ETS# 21090474.STR.5371		STONEYBROOK RD CT, CT - T-M...



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.4D

ETS, PLLC	STONEYBROOK RD CT	SK - 4
DHK		Mar 23, 2021 at 2:35 PM
ETS# 21090474.STR.5371		STONEYBROOK RD CT, CT - T-M...



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.4D

ETS, PLLC	STONEYBROOK RD CT	SK - 5
DHK		Mar 23, 2021 at 2:35 PM
ETS# 21090474.STR.5371		STONEYBROOK RD CT, CT - T-M...

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N10	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N114	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N136	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	N1	-47.054047	0	75.	0	
2	N2	-47.054047	0	-75.	0	
3	N3	88.478929	0	-3.25	0	
4	N4	-41.424881	0	-78.25	0	
5	N5	80.215319	0	6.000274	0	
6	N6	80.215319	0	-6.000274	0	
7	N7	88.478929	0	3.25	0	
8	N8	-41.424881	0	78.25	0	
9	N9	36.293219	0	-25.358864	0	
10	N10	17.965319	0	-0.	0	
11	N11	36.293219	0	29.915332	0	
12	N12	36.293219	0	-29.915763	0	
13	N13	80.215319	0	-0.	0	
14	N14	36.293219	0	25.358433	0	
15	N15	0.	0	-0.	0	
16	N16	-47.054047	0	57.	0	
17	N17	-50.369047	0	57.	0	
18	N18	-50.369047	69	57.	0	
19	N19	-50.369047	-27	57.	0	
20	N20	36.293219	0	-0.	0	
21	N22	-47.054047	0	-0.	0	
22	N23	-50.369047	0	-0.	0	
23	N24	-50.369047	69	-0.	0	
24	N25	-50.369047	-27	-0.	0	
25	N30	-47.054047	0	-57.	0	
26	N31	-50.369047	0	-57.	0	
27	N32	-50.369047	69	-57.	0	
28	N33	-50.369047	-27	-57.	0	
29	N66	38.793219	0	29.915332	0	
30	N67	40.52527	0	28.915332	0	
31	N68	41.40027	0	30.430876	0	
32	N69	38.793219	0	-29.915763	0	
33	N70	40.52527	0	-28.915763	0	
34	N71	41.40027	0	-30.431307	0	
35	N72	78.915967	0	6.750455	0	
36	N73	79.790967	0	8.266	0	
37	N74	78.915967	0	-6.750456	0	
38	N75	79.790967	0	-8.266001	0	
39	N76	-47.489047	42	75.	0	
40	N77	-47.489047	42	-75.	0	
41	N78	-47.489047	42	57.	0	
42	N79	-50.369047	42	57.	0	
43	N80	-47.489047	42	-0.	0	
44	N81	-50.369047	42	-0.	0	
45	N84	-47.489047	42	-57.	0	
46	N85	-50.369047	42	-57.	0	
47	N86	88.696429	42	3.626721	0	
48	N87	-41.207381	42	78.626721	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
49	N88	80.465789	42	8.378683	0	
50	N89	80.465789	42	-8.378683	0	
51	N98	-41.207381	42	-78.626721	0	
52	N99	88.696429	42	-3.626721	0	
53	N111	-34.911504	0	-72.469048	0	
54	N112	-45.304284	0	-66.468774	0	
55	N113	-40.108264	0	-18.751825	0	
56	N114	-8.982894	0	-15.55883	0	
57	N115	7.760593	0	-46.388923	0	
58	N116	-44.054654	0	-16.473376	0	
59	N117	-40.107894	0	-69.468911	0	
60	N118	3.814204	0	-44.110474	0	
61	N120	6.510593	0	-48.553987	0	
62	N121	4.778543	0	-49.553987	0	
63	N122	5.653543	0	-51.069531	0	
64	N123	-45.304654	0	-18.638439	0	
65	N124	-45.304654	0	-20.638439	0	
66	N125	-47.054654	0	-20.638439	0	
67	N126	-33.612152	0	-71.718867	0	
68	N127	-32.737152	0	-73.234411	0	
69	N128	-45.304284	0	-64.968411	0	
70	N129	-47.054284	0	-64.968411	0	
71	N133	-45.304049	0	66.468367	0	
72	N134	-34.911269	0	72.468641	0	
73	N135	3.814811	0	44.110281	0	
74	N136	-8.982659	0	15.558422	0	
75	N137	-44.054047	0	16.473183	0	
76	N138	7.761201	0	46.388731	0	
77	N139	-40.107659	0	69.468504	0	
78	N140	-40.107657	0	18.751633	0	
79	N142	-45.304047	0	18.638247	0	
80	N143	-45.304047	0	20.638247	0	
81	N144	-47.054047	0	20.638247	0	
82	N145	6.511201	0	48.553794	0	
83	N146	4.779151	0	49.553794	0	
84	N147	5.654151	0	51.069338	0	
85	N148	-45.304049	0	64.968004	0	
86	N149	-47.054049	0	64.968004	0	
87	N150	-33.611916	0	71.718459	0	
88	N151	-32.736916	0	73.234004	0	
89	N155	-32.976742	42	-73.874759	0	
90	N156	-47.489047	42	-65.496076	0	
91	N157	-47.489047	42	65.496076	0	
92	N158	-32.976742	42	73.874759	0	
93	N160	-18.146844	0	-31.431257	0	
94	N162	-18.146609	0	31.430849	0	
95	N96	72.890472	0	12.25	0	
96	N97	74.547972	0	15.120874	0	
97	N98A	74.547972	69	15.120874	0	
98	N99A	74.547972	-27	15.120874	0	
99	N100	23.527024	0	40.75	0	
100	N101	25.184524	0	43.620874	0	
101	N102	25.184524	69	43.620874	0	
102	N103	25.184524	-27	43.620874	0	
103	N104	-25.836424	0	69.25	0	
104	N105	-24.178924	0	72.120874	0	
105	N106	-24.178924	69	72.120874	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
106	N107	-24.178924	-27	72.120874	0	
107	N108	73.107972	42	12.626721	0	
108	N109	74.547972	42	15.120874	0	
109	N110	23.744524	42	41.126721	0	
110	N111A	25.184524	42	43.620874	0	
111	N112A	-25.618924	42	69.626721	0	
112	N113A	-24.178924	42	72.120874	0	
113	N115A	-25.836424	0	-69.25	0	
114	N116A	-24.178924	0	-72.120874	0	
115	N117A	-24.178924	69	-72.120874	0	
116	N118A	-24.178924	-27	-72.120874	0	
117	N119	23.527024	0	-40.75	0	
118	N120A	25.184524	0	-43.620874	0	
119	N121A	25.184524	69	-43.620874	0	
120	N122A	25.184524	-27	-43.620874	0	
121	N123A	72.890472	0	-12.25	0	
122	N124A	74.547972	0	-15.120874	0	
123	N125A	74.547972	69	-15.120874	0	
124	N126A	74.547972	-27	-15.120874	0	
125	N127A	-25.618924	42	-69.626721	0	
126	N128A	-24.178924	42	-72.120874	0	
127	N129A	23.744524	42	-41.126721	0	
128	N130	25.184524	42	-43.620874	0	
129	N131	73.107972	42	-12.626721	0	
130	N132	74.547972	42	-15.120874	0	

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Shape	Type	Design List	Material	Design R...
1	BRACE-1	N137	N138			HSS4X4X4	Beam	SquareTube	Q235	Typical
2	BRACE-2	N115	N116			HSS4X4X4	Beam	SquareTube	Q235	Typical
3	BRACE-3	N11	N12			HSS4X4X4	Beam	SquareTube	Q235	Typical
4	CONN-PL-60-1	N116	N123			PL_3/8x6	Beam	BAR	Q235	DR1
5	CONN-PL-60-2	N115	N120			PL_3/8x6	Beam	BAR	Q235	DR1
6	CONN-PL-90-1	N142	N143			PL_3/8x6	Beam	BAR	Q235	Typical
7	CONN-PL-90-2	N123	N124			PL_3/8x6	Beam	BAR	Q235	Typical
8	CONN-PL-180-1	N12	N69			PL_3/8x6	Beam	BAR	Q235	DR1
9	CONN-PL-180-2	N11	N66			PL_3/8x6	Beam	BAR	Q235	DR1
10	CONN-PL-210-1	N120	N121			PL_3/8x6	Beam	BAR	Q235	Typical
11	CONN-PL-210-2	N69	N70			PL_3/8x6	Beam	BAR	Q235	Typical
12	CONN-PL-300-1	N138	N145			PL_3/8x6	Beam	BAR	Q235	DR1
13	CONN-PL-300-2	N137	N142			PL_3/8x6	Beam	BAR	Q235	DR1
14	CONN-PL-330-1	N66	N67			PL_3/8x6	Beam	BAR	Q235	Typical
15	CONN-PL-330-2	N145	N146			PL_3/8x6	Beam	BAR	Q235	Typical
16	COR-1	N157	N158		90	L2.5x2.5x4	Beam	Single Angle	Q235	Typical
17	COR-2	N155	N156		90	L2.5x2.5x4	Beam	Single Angle	Q235	Typical
18	COR-3	N88	N89		90	L2.5x2.5x4	Beam	Single Angle	Q235	Typical
19	COR-PL-90-1	N13	N6			PL_1/2x6	Beam	BAR	Q235	Typical
20	COR-PL-90-2	N13	N5			PL_1/2x6	Beam	BAR	Q235	Typical
21	COR-PL-90-3	N133	N148			PL_1/2x6	Beam	BAR	Q235	Typical
22	COR-PL-90-4	N112	N128			PL_1/2x6	Beam	BAR	Q235	Typical
23	COR-PL-210-1	N139	N134			PL_1/2x6	Beam	BAR	Q235	Typical
24	COR-PL-210-2	N139	N133			PL_1/2x6	Beam	BAR	Q235	Typical
25	COR-PL-210-3	N111	N126			PL_1/2x6	Beam	BAR	Q235	Typical
26	COR-PL-210-4	N6	N74			PL_1/2x6	Beam	BAR	Q235	Typical
27	COR-PL-330-1	N117	N112			PL_1/2x6	Beam	BAR	Q235	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Shape	Type	Design List	Material	Design R...
28	COR-PL-330-2	N117	N111			PL_1/2x6	Beam	BAR	Q235	Typical
29	COR-PL-330-3	N5	N72			PL_1/2x6	Beam	BAR	Q235	Typical
30	COR-PL-330-4	N134	N150			PL_1/2x6	Beam	BAR	Q235	Typical
31	FM-0	N1	N2			PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical
32	FM-120	N3	N4			PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical
33	FM-240	N7	N8			PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical
34	GRATE-H-90-1	N139	N140			L2x2x3	Beam	Single Angle	Q235	Typical
35	GRATE-H-90-2	N117	N113		270	L2x2x3	Beam	Single Angle	Q235	Typical
36	GRATE-H-210-1	N117	N118			L2x2x3	Beam	Single Angle	Q235	Typical
37	GRATE-H-210-2	N13	N9		270	L2x2x3	Beam	Single Angle	Q235	Typical
38	GRATE-H-330-1	N13	N14			L2x2x3	Beam	Single Angle	Q235	Typical
39	GRATE-H-330-2	N139	N135		270	L2x2x3	Beam	Single Angle	Q235	Typical
40	HR-0	N76	N77			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
41	HR-120	N98	N99			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
42	HR-240	N86	N87			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
43	MP1	N19	N18			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
44	MP2	N25	N24			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
45	MP3	N33	N32			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
46	RL1	N16	N17			RIGID	None	None	RIGID	Typical
47	RL2	N22	N23			RIGID	None	None	RIGID	Typical
48	RL4	N30	N31			RIGID	None	None	RIGID	Typical
49	RL13	N67	N68			RIGID	None	None	RIGID	Typical
50	RL14	N70	N71			RIGID	None	None	RIGID	Typical
51	RL15	N72	N73			RIGID	None	None	RIGID	Typical
52	RL16	N74	N75			RIGID	None	None	RIGID	Typical
53	RL17	N78	N79			RIGID	None	None	RIGID	Typical
54	RL18	N80	N81			RIGID	None	None	RIGID	Typical
55	RL20	N84	N85			RIGID	None	None	RIGID	Typical
56	RL29	N121	N122			RIGID	None	None	RIGID	Typical
57	RL30	N124	N125			RIGID	None	None	RIGID	Typical
58	RL31	N126	N127			RIGID	None	None	RIGID	Typical
59	RL32	N128	N129			RIGID	None	None	RIGID	Typical
60	RL33	N143	N144			RIGID	None	None	RIGID	Typical
61	RL34	N146	N147			RIGID	None	None	RIGID	Typical
62	RL35	N148	N149			RIGID	None	None	RIGID	Typical
63	RL36	N150	N151			RIGID	None	None	RIGID	Typical
64	SA-1	N139	N136			HSS4X4X4	Beam	SquareTube	Q235	Typical
65	SA-2	N117	N114			HSS4X4X4	Beam	SquareTube	Q235	Typical
66	SA-3	N13	N10			HSS4X4X4	Beam	SquareTube	Q235	Typical
67	MP7	N99A	N98A			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
68	MP8	N103	N102			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
69	MP9	N107	N106			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
70	M70	N96	N97			RIGID	None	None	RIGID	Typical
71	M71	N100	N101			RIGID	None	None	RIGID	Typical
72	M72	N104	N105			RIGID	None	None	RIGID	Typical
73	M73	N108	N109			RIGID	None	None	RIGID	Typical
74	M74	N110	N111A			RIGID	None	None	RIGID	Typical
75	M75	N112A	N113A			RIGID	None	None	RIGID	Typical
76	MP4	N118A	N117A			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
77	MP5	N122A	N121A			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
78	MP6	N126A	N125A			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
79	M79	N115A	N116A			RIGID	None	None	RIGID	Typical
80	M80	N119	N120A			RIGID	None	None	RIGID	Typical
81	M81	N123A	N124A			RIGID	None	None	RIGID	Typical
82	M82	N127A	N128A			RIGID	None	None	RIGID	Typical
83	M83	N129A	N130			RIGID	None	None	RIGID	Typical
84	M84	N131	N132			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio...	Analysis ...	Inactive	Seismic...
1	BRACE-1						Yes				None
2	BRACE-2						Yes				None
3	BRACE-3						Yes				None
4	CONN-PL-60-1			2			Yes				None
5	CONN-PL-60-2			2			Yes				None
6	CONN-PL-90-1						Yes				None
7	CONN-PL-90-2						Yes				None
8	CONN-PL-180-1			2			Yes				None
9	CONN-PL-180-2			2			Yes				None
10	CONN-PL-210-1						Yes				None
11	CONN-PL-210-2						Yes				None
12	CONN-PL-300-1			2			Yes				None
13	CONN-PL-300-2			2			Yes				None
14	CONN-PL-330-1						Yes				None
15	CONN-PL-330-2						Yes				None
16	COR-1	OOOOXO	OOOOXO	1.19	1.19		Yes				None
17	COR-2	OOOOXO	OOOOXO	1.19	1.19		Yes				None
18	COR-3	OOOOXO	OOOOXO	1.19	1.19		Yes				None
19	COR-PL-90-1			2			Yes				None
20	COR-PL-90-2			2			Yes				None
21	COR-PL-90-3						Yes				None
22	COR-PL-90-4						Yes				None
23	COR-PL-210-1			2			Yes				None
24	COR-PL-210-2			2			Yes				None
25	COR-PL-210-3						Yes				None
26	COR-PL-210-4						Yes				None
27	COR-PL-330-1			2			Yes				None
28	COR-PL-330-2			2			Yes				None
29	COR-PL-330-3						Yes				None
30	COR-PL-330-4						Yes				None
31	FM-0						Yes				None
32	FM-120						Yes				None
33	FM-240						Yes				None
34	GRATE-H-90-1						Yes				None
35	GRATE-H-90-2						Yes				None
36	GRATE-H-210-1						Yes				None
37	GRATE-H-210-2						Yes				None
38	GRATE-H-330-1						Yes				None
39	GRATE-H-330-2						Yes				None
40	HR-0						Yes				None
41	HR-120						Yes				None
42	HR-240						Yes				None
43	MP1						Yes	** NA **			None
44	MP2						Yes	** NA **			None
45	MP3						Yes	** NA **			None
46	RL1						Yes	** NA **			None
47	RL2						Yes	** NA **			None
48	RL4						Yes	** NA **			None
49	RL13		OOOXOO				Yes	** NA **			None
50	RL14		OOOXOO				Yes	** NA **			None
51	RL15		OOOXOO				Yes	** NA **			None
52	RL16		OOOXOO				Yes	** NA **			None
53	RL17						Yes	** NA **			None
54	RL18						Yes	** NA **			None
55	RL20						Yes	** NA **			None
56	RL29		OOOXOO				Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio...	Analysis ...	Inactive	Seismic...
57	RL30		OOOXOO				Yes	** NA **			None
58	RL31		OOOXOO				Yes	** NA **			None
59	RL32		OOOXOO				Yes	** NA **			None
60	RL33		OOOXOO				Yes	** NA **			None
61	RL34		OOOXOO				Yes	** NA **			None
62	RL35		OOOXOO				Yes	** NA **			None
63	RL36		OOOXOO				Yes	** NA **			None
64	SA-1						Yes				None
65	SA-2						Yes				None
66	SA-3						Yes				None
67	MP7						Yes	** NA **			None
68	MP8						Yes	** NA **			None
69	MP9						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None
73	M73						Yes	** NA **			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			None
76	MP4						Yes	** NA **			None
77	MP5						Yes	** NA **			None
78	MP6						Yes	** NA **			None
79	M79						Yes	** NA **			None
80	M80						Yes	** NA **			None
81	M81						Yes	** NA **			None
82	M82						Yes	** NA **			None
83	M83						Yes	** NA **			None
84	M84						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Length...	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bo...	L-torq...	Kyy	Kzz	Cb	Funct...
1	BRACE-1	HSS4X4X4	59.831	23.4	25.9							Lateral
2	BRACE-2	HSS4X4X4	59.831	23.4	25.9							Lateral
3	BRACE-3	HSS4X4X4	59.831	23.4	25.9							Lateral
4	CONN-PL-60-1	PL_3/8x6	2.5									Lateral
5	CONN-PL-60-2	PL_3/8x6	2.5									Lateral
6	CONN-PL-90-1	PL_3/8x6	2									Lateral
7	CONN-PL-90-2	PL_3/8x6	2									Lateral
8	CONN-PL-180-1	PL_3/8x6	2.5									Lateral
9	CONN-PL-180-2	PL_3/8x6	2.5									Lateral
10	CONN-PL-210-1	PL_3/8x6	2									Lateral
11	CONN-PL-210-2	PL_3/8x6	2									Lateral
12	CONN-PL-300-1	PL_3/8x6	2.5									Lateral
13	CONN-PL-300-2	PL_3/8x6	2.5									Lateral
14	CONN-PL-330-1	PL_3/8x6	2									Lateral
15	CONN-PL-330-2	PL_3/8x6	2									Lateral
16	COR-1	L2.5x2.5x4	16.757									Lateral
17	COR-2	L2.5x2.5x4	16.757									Lateral
18	COR-3	L2.5x2.5x4	16.757									Lateral
19	COR-PL-90-1	PL_1/2x6	6									Lateral
20	COR-PL-90-2	PL_1/2x6	6									Lateral
21	COR-PL-90-3	PL_1/2x6	1.5									Lateral
22	COR-PL-90-4	PL_1/2x6	1.5									Lateral
23	COR-PL-210-1	PL_1/2x6	6									Lateral
24	COR-PL-210-2	PL_1/2x6	6									Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length...	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bo...	L-torq...	Kyy	Kzz	Cb	Funct...
25	COR-PL-210-3	PL_1/2x6	1.5									Lateral
26	COR-PL-210-4	PL_1/2x6	1.5									Lateral
27	COR-PL-330-1	PL_1/2x6	6									Lateral
28	COR-PL-330-2	PL_1/2x6	6									Lateral
29	COR-PL-330-3	PL_1/2x6	1.5									Lateral
30	COR-PL-330-4	PL_1/2x6	1.5									Lateral
31	FM-0	PIPE_3.0	150	49.4	49.4							Lateral
32	FM-120	PIPE_3.0	150	49.4	49.4							Lateral
33	FM-240	PIPE_3.0	150	49.4	49.4							Lateral
34	GRATE-H-90-1	L2x2x3	50.717									Lateral
35	GRATE-H-90-2	L2x2x3	50.717									Lateral
36	GRATE-H-210-1	L2x2x3	50.717									Lateral
37	GRATE-H-210-2	L2x2x3	50.717									Lateral
38	GRATE-H-330-1	L2x2x3	50.717									Lateral
39	GRATE-H-330-2	L2x2x3	50.717									Lateral
40	HR-0	PIPE_2.0	150		38							Lateral
41	HR-120	PIPE_2.0	150		38							Lateral
42	HR-240	PIPE_2.0	150		38							Lateral
43	MP1	PIPE_2.0	96									Lateral
44	MP2	PIPE_2.0	96									Lateral
45	MP3	PIPE_2.0	96									Lateral
46	SA-1	HSS4X4X4	62.25	41.9	46.75							Lateral
47	SA-2	HSS4X4X4	62.25	41.9	46.75							Lateral
48	SA-3	HSS4X4X4	62.25	41.9	46.75							Lateral
49	MP7	PIPE_2.0	96									Lateral
50	MP8	PIPE_2.0	96									Lateral
51	MP9	PIPE_2.0	96									Lateral
52	MP4	PIPE_2.0	96									Lateral
53	MP5	PIPE_2.0	96									Lateral
54	MP6	PIPE_2.0	96									Lateral

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	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 Point Loads (BLC 1 : Dead Load)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	0	%50
2	MP2	Y	0	%50
3	MP3	Y	0	%50
4	MP4	Y	0	%50
5	MP5	Y	0	%50
6	MP6	Y	0	%50
7	MP7	Y	0	%50
8	MP8	Y	0	%50
9	MP9	Y	0	%50
10	MP2	Y	-75	%50

Member Point Loads (BLC 1 : Dead Load) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
11	MP2	Y	-46	%50
12	MP5	Y	-75	%50
13	MP5	Y	-46	%50
14	MP8	Y	-75	%50
15	MP8	Y	-46	%50

Member Point Loads (BLC 2 : Wind Load (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	19.7	%50
2	MP2	X	0	%50
3	MP3	X	31.4	%50
4	MP4	X	48.1	%50
5	MP5	X	43.2	%50
6	MP6	X	51	%50
7	MP7	X	48.1	%50
8	MP8	X	43.2	%50
9	MP9	X	51	%50
10	MP2	X	39.7	%50
11	MP2	X	24.8	%50
12	MP5	X	47.4	%50
13	MP5	X	48.1	%50
14	MP8	X	47.4	%50
15	MP8	X	48.1	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	0	%50
26	MP2	Z	0	%50
27	MP5	Z	0	%50
28	MP5	Z	0	%50
29	MP8	Z	0	%50
30	MP8	Z	0	%50

Member Point Loads (BLC 3 : Wind Load (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	25.2	%50
2	MP2	X	12.5	%50
3	MP3	X	32.9	%50
4	MP4	X	49.8	%50
5	MP5	X	49.8	%50
6	MP6	X	49.8	%50
7	MP7	X	25.2	%50
8	MP8	X	12.5	%50
9	MP9	X	32.9	%50
10	MP2	X	36.6	%50
11	MP2	X	28.2	%50
12	MP5	X	43.3	%50
13	MP5	X	48.3	%50
14	MP8	X	36.6	%50
15	MP8	X	28.2	%50

Member Point Loads (BLC 3 : Wind Load (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
16	MP1	Z	14.6	%50
17	MP2	Z	7.2	%50
18	MP3	Z	19	%50
19	MP4	Z	28.8	%50
20	MP5	Z	28.8	%50
21	MP6	Z	28.8	%50
22	MP7	Z	14.6	%50
23	MP8	Z	7.2	%50
24	MP9	Z	19	%50
25	MP2	Z	21.2	%50
26	MP2	Z	16.3	%50
27	MP5	Z	25	%50
28	MP5	Z	27.9	%50
29	MP8	Z	21.2	%50
30	MP8	Z	16.3	%50

Member Point Loads (BLC 4 : Wind Load (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	24	%50
2	MP2	X	21.6	%50
3	MP3	X	25.5	%50
4	MP4	X	24	%50
5	MP5	X	21.6	%50
6	MP6	X	25.5	%50
7	MP7	X	9.8	%50
8	MP8	X	0	%50
9	MP9	X	15.7	%50
10	MP2	X	23.7	%50
11	MP2	X	24	%50
12	MP5	X	23.7	%50
13	MP5	X	24	%50
14	MP8	X	19.9	%50
15	MP8	X	12.4	%50
16	MP1	Z	41.6	%50
17	MP2	Z	37.4	%50
18	MP3	Z	44.2	%50
19	MP4	Z	41.6	%50
20	MP5	Z	37.4	%50
21	MP6	Z	44.2	%50
22	MP7	Z	17	%50
23	MP8	Z	0	%50
24	MP9	Z	27.2	%50
25	MP2	Z	41.1	%50
26	MP2	Z	41.6	%50
27	MP5	Z	41.1	%50
28	MP5	Z	41.6	%50
29	MP8	Z	34.4	%50
30	MP8	Z	21.5	%50

Member Point Loads (BLC 5 : Wind Load (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50

Member Point Loads (BLC 5 : Wind Load (90 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	0	%50
11	MP2	X	0	%50
12	MP5	X	0	%50
13	MP5	X	0	%50
14	MP8	X	0	%50
15	MP8	X	0	%50
16	MP1	Z	57.5	%50
17	MP2	Z	57.5	%50
18	MP3	Z	57.5	%50
19	MP4	Z	29.1	%50
20	MP5	Z	14.4	%50
21	MP6	Z	37.9	%50
22	MP7	Z	29.1	%50
23	MP8	Z	14.4	%50
24	MP9	Z	37.9	%50
25	MP2	Z	50	%50
26	MP2	Z	55.8	%50
27	MP5	Z	42.3	%50
28	MP5	Z	32.6	%50
29	MP8	Z	42.3	%50
30	MP8	Z	32.6	%50

Member Point Loads (BLC 6 : Wind Load (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-24	%50
2	MP2	X	-21.6	%50
3	MP3	X	-25.5	%50
4	MP4	X	-9.8	%50
5	MP5	X	0	%50
6	MP6	X	-15.7	%50
7	MP7	X	-24	%50
8	MP8	X	-21.6	%50
9	MP9	X	-25.5	%50
10	MP2	X	-23.7	%50
11	MP2	X	-24	%50
12	MP5	X	-19.9	%50
13	MP5	X	-12.4	%50
14	MP8	X	-23.7	%50
15	MP8	X	-24	%50
16	MP1	Z	41.6	%50
17	MP2	Z	37.4	%50
18	MP3	Z	44.2	%50
19	MP4	Z	17	%50
20	MP5	Z	0	%50
21	MP6	Z	27.2	%50
22	MP7	Z	41.6	%50
23	MP8	Z	37.4	%50
24	MP9	Z	44.2	%50
25	MP2	Z	41.1	%50
26	MP2	Z	41.6	%50
27	MP5	Z	34.4	%50
28	MP5	Z	21.5	%50

Member Point Loads (BLC 6 : Wind Load (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
29	MP8	Z	41.1	%50
30	MP8	Z	41.6	%50

Member Point Loads (BLC 7 : Wind Load (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-25.2	%50
2	MP2	X	-12.5	%50
3	MP3	X	-32.9	%50
4	MP4	X	-25.2	%50
5	MP5	X	-12.5	%50
6	MP6	X	-32.9	%50
7	MP7	X	-49.8	%50
8	MP8	X	-49.8	%50
9	MP9	X	-49.8	%50
10	MP2	X	-36.6	%50
11	MP2	X	-28.2	%50
12	MP5	X	-36.6	%50
13	MP5	X	-28.2	%50
14	MP8	X	-43.3	%50
15	MP8	X	-48.3	%50
16	MP1	Z	14.6	%50
17	MP2	Z	7.2	%50
18	MP3	Z	19	%50
19	MP4	Z	14.6	%50
20	MP5	Z	7.2	%50
21	MP6	Z	19	%50
22	MP7	Z	28.8	%50
23	MP8	Z	28.8	%50
24	MP9	Z	28.8	%50
25	MP2	Z	21.2	%50
26	MP2	Z	16.3	%50
27	MP5	Z	21.2	%50
28	MP5	Z	16.3	%50
29	MP8	Z	25	%50
30	MP8	Z	27.9	%50

Member Point Loads (BLC 8 : Wind Load (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-19.7	%50
2	MP2	X	0	%50
3	MP3	X	-31.4	%50
4	MP4	X	-48.1	%50
5	MP5	X	-43.2	%50
6	MP6	X	-51	%50
7	MP7	X	-48.1	%50
8	MP8	X	-43.2	%50
9	MP9	X	-51	%50
10	MP2	X	-39.7	%50
11	MP2	X	-24.8	%50
12	MP5	X	-47.4	%50
13	MP5	X	-48.1	%50
14	MP8	X	-47.4	%50
15	MP8	X	-48.1	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50

Member Point Loads (BLC 8 : Wind Load (180 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	0	%50
26	MP2	Z	0	%50
27	MP5	Z	0	%50
28	MP5	Z	0	%50
29	MP8	Z	0	%50
30	MP8	Z	0	%50

Member Point Loads (BLC 9 : Wind Load (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-25.2	%50
2	MP2	X	-12.5	%50
3	MP3	X	-32.9	%50
4	MP4	X	-49.8	%50
5	MP5	X	-49.8	%50
6	MP6	X	-49.8	%50
7	MP7	X	-25.2	%50
8	MP8	X	-12.5	%50
9	MP9	X	-32.9	%50
10	MP2	X	-36.6	%50
11	MP2	X	-28.2	%50
12	MP5	X	-43.3	%50
13	MP5	X	-48.3	%50
14	MP8	X	-36.6	%50
15	MP8	X	-28.2	%50
16	MP1	Z	-14.6	%50
17	MP2	Z	-7.2	%50
18	MP3	Z	-19	%50
19	MP4	Z	-28.8	%50
20	MP5	Z	-28.8	%50
21	MP6	Z	-28.8	%50
22	MP7	Z	-14.6	%50
23	MP8	Z	-7.2	%50
24	MP9	Z	-19	%50
25	MP2	Z	-21.2	%50
26	MP2	Z	-16.3	%50
27	MP5	Z	-25	%50
28	MP5	Z	-27.9	%50
29	MP8	Z	-21.2	%50
30	MP8	Z	-16.3	%50

Member Point Loads (BLC 10 : Wind Load (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-24	%50
2	MP2	X	-21.6	%50
3	MP3	X	-25.5	%50
4	MP4	X	-24	%50
5	MP5	X	-21.6	%50
6	MP6	X	-25.5	%50
7	MP7	X	-9.8	%50
8	MP8	X	0	%50

Member Point Loads (BLC 10 : Wind Load (240 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
9	MP9	X	-15.7	%50
10	MP2	X	-23.7	%50
11	MP2	X	-24	%50
12	MP5	X	-23.7	%50
13	MP5	X	-24	%50
14	MP8	X	-19.9	%50
15	MP8	X	-12.4	%50
16	MP1	Z	-41.6	%50
17	MP2	Z	-37.4	%50
18	MP3	Z	-44.2	%50
19	MP4	Z	-41.6	%50
20	MP5	Z	-37.4	%50
21	MP6	Z	-44.2	%50
22	MP7	Z	-17	%50
23	MP8	Z	0	%50
24	MP9	Z	-27.2	%50
25	MP2	Z	-41.1	%50
26	MP2	Z	-41.6	%50
27	MP5	Z	-41.1	%50
28	MP5	Z	-41.6	%50
29	MP8	Z	-34.4	%50
30	MP8	Z	-21.5	%50

Member Point Loads (BLC 11 : Wind Load (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	0	%50
11	MP2	X	0	%50
12	MP5	X	0	%50
13	MP5	X	0	%50
14	MP8	X	0	%50
15	MP8	X	0	%50
16	MP1	Z	-57.5	%50
17	MP2	Z	-57.5	%50
18	MP3	Z	-57.5	%50
19	MP4	Z	-29.1	%50
20	MP5	Z	-14.4	%50
21	MP6	Z	-37.9	%50
22	MP7	Z	-29.1	%50
23	MP8	Z	-14.4	%50
24	MP9	Z	-37.9	%50
25	MP2	Z	-50	%50
26	MP2	Z	-55.8	%50
27	MP5	Z	-42.3	%50
28	MP5	Z	-32.6	%50
29	MP8	Z	-42.3	%50
30	MP8	Z	-32.6	%50

Member Point Loads (BLC 12 : Wind Load (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	24	%50
2	MP2	X	21.6	%50
3	MP3	X	25.5	%50
4	MP4	X	9.8	%50
5	MP5	X	0	%50
6	MP6	X	15.7	%50
7	MP7	X	24	%50
8	MP8	X	21.6	%50
9	MP9	X	25.5	%50
10	MP2	X	23.7	%50
11	MP2	X	24	%50
12	MP5	X	19.9	%50
13	MP5	X	12.4	%50
14	MP8	X	23.7	%50
15	MP8	X	24	%50
16	MP1	Z	-41.6	%50
17	MP2	Z	-37.4	%50
18	MP3	Z	-44.2	%50
19	MP4	Z	-17	%50
20	MP5	Z	0	%50
21	MP6	Z	-27.2	%50
22	MP7	Z	-41.6	%50
23	MP8	Z	-37.4	%50
24	MP9	Z	-44.2	%50
25	MP2	Z	-41.1	%50
26	MP2	Z	-41.6	%50
27	MP5	Z	-34.4	%50
28	MP5	Z	-21.5	%50
29	MP8	Z	-41.1	%50
30	MP8	Z	-41.6	%50

Member Point Loads (BLC 13 : Wind Load (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	25.2	%50
2	MP2	X	12.5	%50
3	MP3	X	32.9	%50
4	MP4	X	25.2	%50
5	MP5	X	12.5	%50
6	MP6	X	32.9	%50
7	MP7	X	49.8	%50
8	MP8	X	49.8	%50
9	MP9	X	49.8	%50
10	MP2	X	36.6	%50
11	MP2	X	28.2	%50
12	MP5	X	36.6	%50
13	MP5	X	28.2	%50
14	MP8	X	43.3	%50
15	MP8	X	48.3	%50
16	MP1	Z	-14.6	%50
17	MP2	Z	-7.2	%50
18	MP3	Z	-19	%50
19	MP4	Z	-14.6	%50
20	MP5	Z	-7.2	%50
21	MP6	Z	-19	%50
22	MP7	Z	-28.8	%50
23	MP8	Z	-28.8	%50

Member Point Loads (BLC 13 : Wind Load (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
24	MP9	Z	-28.8	%50
25	MP2	Z	-21.2	%50
26	MP2	Z	-16.3	%50
27	MP5	Z	-21.2	%50
28	MP5	Z	-16.3	%50
29	MP8	Z	-25	%50
30	MP8	Z	-27.9	%50

Member Point Loads (BLC 14 : Ice Load)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-38	%50
2	MP2	Y	-38	%50
3	MP3	Y	-38	%50
4	MP4	Y	-38	%50
5	MP5	Y	-38	%50
6	MP6	Y	-38	%50
7	MP7	Y	-38	%50
8	MP8	Y	-38	%50
9	MP9	Y	-38	%50
10	MP2	Y	-30.6	%50
11	MP2	Y	-29.5	%50
12	MP5	Y	-30.6	%50
13	MP5	Y	-29.5	%50
14	MP8	Y	-30.6	%50
15	MP8	Y	-29.5	%50

Member Point Loads (BLC 15 : Wind on Ice (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	7.1	%50
2	MP2	X	.4	%50
3	MP3	X	11.1	%50
4	MP4	X	15.9	%50
5	MP5	X	14.2	%50
6	MP6	X	16.9	%50
7	MP7	X	15.9	%50
8	MP8	X	14.2	%50
9	MP9	X	16.9	%50
10	MP2	X	8	%50
11	MP2	X	5.4	%50
12	MP5	X	9.9	%50
13	MP5	X	10.1	%50
14	MP8	X	9.9	%50
15	MP8	X	10.1	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	0	%50
26	MP2	Z	0	%50
27	MP5	Z	0	%50
28	MP5	Z	0	%50

Member Point Loads (BLC 15 : Wind on Ice (0 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
29	MP8	Z	0	%50
30	MP8	Z	0	%50

Member Point Loads (BLC 16 : Wind on Ice (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	8.7	%50
2	MP2	X	4.3	%50
3	MP3	X	11.3	%50
4	MP4	X	16.3	%50
5	MP5	X	16.3	%50
6	MP6	X	16.3	%50
7	MP7	X	8.7	%50
8	MP8	X	4.3	%50
9	MP9	X	11.3	%50
10	MP2	X	7.5	%50
11	MP2	X	6.1	%50
12	MP5	X	9.2	%50
13	MP5	X	10.1	%50
14	MP8	X	7.5	%50
15	MP8	X	6.1	%50
16	MP1	Z	5	%50
17	MP2	Z	2.5	%50
18	MP3	Z	6.5	%50
19	MP4	Z	9.4	%50
20	MP5	Z	9.4	%50
21	MP6	Z	9.4	%50
22	MP7	Z	5	%50
23	MP8	Z	2.5	%50
24	MP9	Z	6.5	%50
25	MP2	Z	4.3	%50
26	MP2	Z	3.5	%50
27	MP5	Z	5.3	%50
28	MP5	Z	5.9	%50
29	MP8	Z	4.3	%50
30	MP8	Z	3.5	%50

Member Point Loads (BLC 17 : Wind on Ice (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	7.9	%50
2	MP2	X	7.1	%50
3	MP3	X	8.4	%50
4	MP4	X	7.9	%50
5	MP5	X	7.1	%50
6	MP6	X	8.4	%50
7	MP7	X	3.6	%50
8	MP8	X	.2	%50
9	MP9	X	5.6	%50
10	MP2	X	5	%50
11	MP2	X	5.1	%50
12	MP5	X	5	%50
13	MP5	X	5.1	%50
14	MP8	X	4	%50
15	MP8	X	2.7	%50
16	MP1	Z	13.7	%50
17	MP2	Z	12.3	%50
18	MP3	Z	14.6	%50

Member Point Loads (BLC 17 : Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
19	MP4	Z	13.7	%50
20	MP5	Z	12.3	%50
21	MP6	Z	14.6	%50
22	MP7	Z	6.2	%50
23	MP8	Z	.3	%50
24	MP9	Z	9.6	%50
25	MP2	Z	8.6	%50
26	MP2	Z	8.8	%50
27	MP5	Z	8.6	%50
28	MP5	Z	8.8	%50
29	MP8	Z	6.9	%50
30	MP8	Z	4.7	%50

Member Point Loads (BLC 18 : Wind on Ice (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	0	%50
11	MP2	X	0	%50
12	MP5	X	0	%50
13	MP5	X	0	%50
14	MP8	X	0	%50
15	MP8	X	0	%50
16	MP1	Z	18.8	%50
17	MP2	Z	18.8	%50
18	MP3	Z	18.8	%50
19	MP4	Z	10	%50
20	MP5	Z	5	%50
21	MP6	Z	13	%50
22	MP7	Z	10	%50
23	MP8	Z	5	%50
24	MP9	Z	13	%50
25	MP2	Z	10.6	%50
26	MP2	Z	11.7	%50
27	MP5	Z	8.7	%50
28	MP5	Z	7	%50
29	MP8	Z	8.7	%50
30	MP8	Z	7	%50

Member Point Loads (BLC 19 : Wind on Ice (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-7.9	%50
2	MP2	X	-7.1	%50
3	MP3	X	-8.4	%50
4	MP4	X	-3.6	%50
5	MP5	X	-.2	%50
6	MP6	X	-5.6	%50
7	MP7	X	-7.9	%50
8	MP8	X	-7.1	%50

Member Point Loads (BLC 19 : Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
9	MP9	X	-8.4	%50
10	MP2	X	-5	%50
11	MP2	X	-5.1	%50
12	MP5	X	-4	%50
13	MP5	X	-2.7	%50
14	MP8	X	-5	%50
15	MP8	X	-5.1	%50
16	MP1	Z	13.7	%50
17	MP2	Z	12.3	%50
18	MP3	Z	14.6	%50
19	MP4	Z	6.2	%50
20	MP5	Z	.3	%50
21	MP6	Z	9.6	%50
22	MP7	Z	13.7	%50
23	MP8	Z	12.3	%50
24	MP9	Z	14.6	%50
25	MP2	Z	8.6	%50
26	MP2	Z	8.8	%50
27	MP5	Z	6.9	%50
28	MP5	Z	4.7	%50
29	MP8	Z	8.6	%50
30	MP8	Z	8.8	%50

Member Point Loads (BLC 20 : Wind on Ice (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-8.7	%50
2	MP2	X	-4.3	%50
3	MP3	X	-11.3	%50
4	MP4	X	-8.7	%50
5	MP5	X	-4.3	%50
6	MP6	X	-11.3	%50
7	MP7	X	-16.3	%50
8	MP8	X	-16.3	%50
9	MP9	X	-16.3	%50
10	MP2	X	-7.5	%50
11	MP2	X	-6.1	%50
12	MP5	X	-7.5	%50
13	MP5	X	-6.1	%50
14	MP8	X	-9.2	%50
15	MP8	X	-10.1	%50
16	MP1	Z	5	%50
17	MP2	Z	2.5	%50
18	MP3	Z	6.5	%50
19	MP4	Z	5	%50
20	MP5	Z	2.5	%50
21	MP6	Z	6.5	%50
22	MP7	Z	9.4	%50
23	MP8	Z	9.4	%50
24	MP9	Z	9.4	%50
25	MP2	Z	4.3	%50
26	MP2	Z	3.5	%50
27	MP5	Z	4.3	%50
28	MP5	Z	3.5	%50
29	MP8	Z	5.3	%50
30	MP8	Z	5.9	%50

Member Point Loads (BLC 21 : Wind on Ice (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-7.1	%50
2	MP2	X	-.4	%50
3	MP3	X	-11.1	%50
4	MP4	X	-15.9	%50
5	MP5	X	-14.2	%50
6	MP6	X	-16.9	%50
7	MP7	X	-15.9	%50
8	MP8	X	-14.2	%50
9	MP9	X	-16.9	%50
10	MP2	X	-8	%50
11	MP2	X	-5.4	%50
12	MP5	X	-9.9	%50
13	MP5	X	-10.1	%50
14	MP8	X	-9.9	%50
15	MP8	X	-10.1	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	0	%50
26	MP2	Z	0	%50
27	MP5	Z	0	%50
28	MP5	Z	0	%50
29	MP8	Z	0	%50
30	MP8	Z	0	%50

Member Point Loads (BLC 22 : Wind on Ice (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-8.7	%50
2	MP2	X	-4.3	%50
3	MP3	X	-11.3	%50
4	MP4	X	-16.3	%50
5	MP5	X	-16.3	%50
6	MP6	X	-16.3	%50
7	MP7	X	-8.7	%50
8	MP8	X	-4.3	%50
9	MP9	X	-11.3	%50
10	MP2	X	-7.5	%50
11	MP2	X	-6.1	%50
12	MP5	X	-9.2	%50
13	MP5	X	-10.1	%50
14	MP8	X	-7.5	%50
15	MP8	X	-6.1	%50
16	MP1	Z	-5	%50
17	MP2	Z	-2.5	%50
18	MP3	Z	-6.5	%50
19	MP4	Z	-9.4	%50
20	MP5	Z	-9.4	%50
21	MP6	Z	-9.4	%50
22	MP7	Z	-5	%50
23	MP8	Z	-2.5	%50

Member Point Loads (BLC 22 : Wind on Ice (210 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
24	MP9	Z	-6.5	%50
25	MP2	Z	-4.3	%50
26	MP2	Z	-3.5	%50
27	MP5	Z	-5.3	%50
28	MP5	Z	-5.9	%50
29	MP8	Z	-4.3	%50
30	MP8	Z	-3.5	%50

Member Point Loads (BLC 23 : Wind on Ice (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-7.9	%50
2	MP2	X	-7.1	%50
3	MP3	X	-8.4	%50
4	MP4	X	-7.9	%50
5	MP5	X	-7.1	%50
6	MP6	X	-8.4	%50
7	MP7	X	-3.6	%50
8	MP8	X	-.2	%50
9	MP9	X	-5.6	%50
10	MP2	X	-5	%50
11	MP2	X	-5.1	%50
12	MP5	X	-5	%50
13	MP5	X	-5.1	%50
14	MP8	X	-4	%50
15	MP8	X	-2.7	%50
16	MP1	Z	-13.7	%50
17	MP2	Z	-12.3	%50
18	MP3	Z	-14.6	%50
19	MP4	Z	-13.7	%50
20	MP5	Z	-12.3	%50
21	MP6	Z	-14.6	%50
22	MP7	Z	-6.2	%50
23	MP8	Z	-.3	%50
24	MP9	Z	-9.6	%50
25	MP2	Z	-8.6	%50
26	MP2	Z	-8.8	%50
27	MP5	Z	-8.6	%50
28	MP5	Z	-8.8	%50
29	MP8	Z	-6.9	%50
30	MP8	Z	-4.7	%50

Member Point Loads (BLC 24 : Wind on Ice (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	0	%50
11	MP2	X	0	%50
12	MP5	X	0	%50
13	MP5	X	0	%50

Member Point Loads (BLC 24 : Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
14	MP8	X	0	%50
15	MP8	X	0	%50
16	MP1	Z	-18.8	%50
17	MP2	Z	-18.8	%50
18	MP3	Z	-18.8	%50
19	MP4	Z	-10	%50
20	MP5	Z	-5	%50
21	MP6	Z	-13	%50
22	MP7	Z	-10	%50
23	MP8	Z	-5	%50
24	MP9	Z	-13	%50
25	MP2	Z	-10.6	%50
26	MP2	Z	-11.7	%50
27	MP5	Z	-8.7	%50
28	MP5	Z	-7	%50
29	MP8	Z	-8.7	%50
30	MP8	Z	-7	%50

Member Point Loads (BLC 25 : Wind on Ice (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	7.9	%50
2	MP2	X	7.1	%50
3	MP3	X	8.4	%50
4	MP4	X	3.6	%50
5	MP5	X	.2	%50
6	MP6	X	5.6	%50
7	MP7	X	7.9	%50
8	MP8	X	7.1	%50
9	MP9	X	8.4	%50
10	MP2	X	5	%50
11	MP2	X	5.1	%50
12	MP5	X	4	%50
13	MP5	X	2.7	%50
14	MP8	X	5	%50
15	MP8	X	5.1	%50
16	MP1	Z	-13.7	%50
17	MP2	Z	-12.3	%50
18	MP3	Z	-14.6	%50
19	MP4	Z	-6.2	%50
20	MP5	Z	-.3	%50
21	MP6	Z	-9.6	%50
22	MP7	Z	-13.7	%50
23	MP8	Z	-12.3	%50
24	MP9	Z	-14.6	%50
25	MP2	Z	-8.6	%50
26	MP2	Z	-8.8	%50
27	MP5	Z	-6.9	%50
28	MP5	Z	-4.7	%50
29	MP8	Z	-8.6	%50
30	MP8	Z	-8.8	%50

Member Point Loads (BLC 26 : Wind on Ice (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	8.7	%50
2	MP2	X	4.3	%50
3	MP3	X	11.3	%50

Member Point Loads (BLC 26 : Wind on Ice (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
4	MP4	X	8.7	%50
5	MP5	X	4.3	%50
6	MP6	X	11.3	%50
7	MP7	X	16.3	%50
8	MP8	X	16.3	%50
9	MP9	X	16.3	%50
10	MP2	X	7.5	%50
11	MP2	X	6.1	%50
12	MP5	X	7.5	%50
13	MP5	X	6.1	%50
14	MP8	X	9.2	%50
15	MP8	X	10.1	%50
16	MP1	Z	-5	%50
17	MP2	Z	-2.5	%50
18	MP3	Z	-6.5	%50
19	MP4	Z	-5	%50
20	MP5	Z	-2.5	%50
21	MP6	Z	-6.5	%50
22	MP7	Z	-9.4	%50
23	MP8	Z	-9.4	%50
24	MP9	Z	-9.4	%50
25	MP2	Z	-4.3	%50
26	MP2	Z	-3.5	%50
27	MP5	Z	-4.3	%50
28	MP5	Z	-3.5	%50
29	MP8	Z	-5.3	%50
30	MP8	Z	-5.9	%50

Member Point Loads (BLC 27 : Horizontal Seismic, Eh (0))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	75	%50
11	MP2	X	46	%50
12	MP5	X	75	%50
13	MP5	X	46	%50
14	MP8	X	75	%50
15	MP8	X	46	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	0	%50
26	MP2	Z	0	%50

Member Point Loads (BLC 27 : Horizontal Seismic, Eh (0)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
27	MP5	Z	0	%50
28	MP5	Z	0	%50
29	MP8	Z	0	%50
30	MP8	Z	0	%50

Member Point Loads (BLC 28 : Horizontal Seismic, Eh (30))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	65	%50
11	MP2	X	39.8	%50
12	MP5	X	65	%50
13	MP5	X	39.8	%50
14	MP8	X	65	%50
15	MP8	X	39.8	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	37.5	%50
26	MP2	Z	23	%50
27	MP5	Z	37.5	%50
28	MP5	Z	23	%50
29	MP8	Z	37.5	%50
30	MP8	Z	23	%50

Member Point Loads (BLC 29 : Horizontal Seismic, Eh (60))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	37.5	%50
11	MP2	X	23	%50
12	MP5	X	37.5	%50
13	MP5	X	23	%50
14	MP8	X	37.5	%50
15	MP8	X	23	%50
16	MP1	Z	0	%50

Member Point Loads (BLC 29 : Horizontal Seismic, Eh (60)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	65	%50
26	MP2	Z	39.8	%50
27	MP5	Z	65	%50
28	MP5	Z	39.8	%50
29	MP8	Z	65	%50
30	MP8	Z	39.8	%50

Member Point Loads (BLC 30 : Horizontal Seismic, Eh (90))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	0	%50
11	MP2	X	0	%50
12	MP5	X	0	%50
13	MP5	X	0	%50
14	MP8	X	0	%50
15	MP8	X	0	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	75	%50
26	MP2	Z	46	%50
27	MP5	Z	75	%50
28	MP5	Z	46	%50
29	MP8	Z	75	%50
30	MP8	Z	46	%50

Member Point Loads (BLC 31 : Horizontal Seismic, Eh (120))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50

Member Point Loads (BLC 31 : Horizontal Seismic, Eh (120)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	-37.5	%50
11	MP2	X	-23	%50
12	MP5	X	-37.5	%50
13	MP5	X	-23	%50
14	MP8	X	-37.5	%50
15	MP8	X	-23	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	65	%50
26	MP2	Z	39.8	%50
27	MP5	Z	65	%50
28	MP5	Z	39.8	%50
29	MP8	Z	65	%50
30	MP8	Z	39.8	%50

Member Point Loads (BLC 32 : Horizontal Seismic, Eh (150))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	-65	%50
11	MP2	X	-39.8	%50
12	MP5	X	-65	%50
13	MP5	X	-39.8	%50
14	MP8	X	-65	%50
15	MP8	X	-39.8	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	37.5	%50
26	MP2	Z	23	%50
27	MP5	Z	37.5	%50
28	MP5	Z	23	%50
29	MP8	Z	37.5	%50

Member Point Loads (BLC 32 : Horizontal Seismic, Eh (150)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
30	MP8	Z	23	%50

Member Point Loads (BLC 33 : Horizontal Seismic, Eh (180))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	-75	%50
11	MP2	X	-46	%50
12	MP5	X	-75	%50
13	MP5	X	-46	%50
14	MP8	X	-75	%50
15	MP8	X	-46	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	0	%50
26	MP2	Z	0	%50
27	MP5	Z	0	%50
28	MP5	Z	0	%50
29	MP8	Z	0	%50
30	MP8	Z	0	%50

Member Point Loads (BLC 34 : Horizontal Seismic, Eh (210))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	-65	%50
11	MP2	X	-39.8	%50
12	MP5	X	-65	%50
13	MP5	X	-39.8	%50
14	MP8	X	-65	%50
15	MP8	X	-39.8	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50

Member Point Loads (BLC 34 : Horizontal Seismic, Eh (210)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	-37.5	%50
26	MP2	Z	-23	%50
27	MP5	Z	-37.5	%50
28	MP5	Z	-23	%50
29	MP8	Z	-37.5	%50
30	MP8	Z	-23	%50

Member Point Loads (BLC 35 : Horizontal Seismic, Eh (240))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	-37.5	%50
11	MP2	X	-23	%50
12	MP5	X	-37.5	%50
13	MP5	X	-23	%50
14	MP8	X	-37.5	%50
15	MP8	X	-23	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	-65	%50
26	MP2	Z	-39.8	%50
27	MP5	Z	-65	%50
28	MP5	Z	-39.8	%50
29	MP8	Z	-65	%50
30	MP8	Z	-39.8	%50

Member Point Loads (BLC 36 : Horizontal Seismic, Eh (270))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50

Member Point Loads (BLC 36 : Horizontal Seismic, Eh (270)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
10	MP2	X	0	%50
11	MP2	X	0	%50
12	MP5	X	0	%50
13	MP5	X	0	%50
14	MP8	X	0	%50
15	MP8	X	0	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	-75	%50
26	MP2	Z	-46	%50
27	MP5	Z	-75	%50
28	MP5	Z	-46	%50
29	MP8	Z	-75	%50
30	MP8	Z	-46	%50

Member Point Loads (BLC 37 : Horizontal Seismic, Eh (300))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	37.5	%50
11	MP2	X	23	%50
12	MP5	X	37.5	%50
13	MP5	X	23	%50
14	MP8	X	37.5	%50
15	MP8	X	23	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	-65	%50
26	MP2	Z	-39.8	%50
27	MP5	Z	-65	%50
28	MP5	Z	-39.8	%50
29	MP8	Z	-65	%50
30	MP8	Z	-39.8	%50

Member Point Loads (BLC 38 : Horizontal Seismic, Eh (330))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP2	X	65	%50
11	MP2	X	39.8	%50
12	MP5	X	65	%50
13	MP5	X	39.8	%50
14	MP8	X	65	%50
15	MP8	X	39.8	%50
16	MP1	Z	0	%50
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%50
20	MP5	Z	0	%50
21	MP6	Z	0	%50
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%50
25	MP2	Z	-37.5	%50
26	MP2	Z	-23	%50
27	MP5	Z	-37.5	%50
28	MP5	Z	-23	%50
29	MP8	Z	-37.5	%50
30	MP8	Z	-23	%50

Member Point Loads (BLC 39 : Maintenance Load, Lm (MP1))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-500	%50

Member Point Loads (BLC 40 : Maintenance Load, Lm (MP2))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	Y	-500	%50

Member Point Loads (BLC 41 : Maintenance Load, Lm (MP3))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP3	Y	-500	%50

Member Point Loads (BLC 42 : Maintenance Load, Lm (MP4))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP4	Y	-500	%50

Member Point Loads (BLC 43 : Maintenance Load, Lm (MP5))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP5	Y	-500	%50

Member Point Loads (BLC 44 : Maintenance Load, Lm (MP6))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP6	Y	-500	%50

Member Point Loads (BLC 45 : Maintenance Load, Lm (MP7))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP7	Y	-500	%50

Member Point Loads (BLC 46 : Maintenance Load, Lm (MP8))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP8	Y	-500	%50

Member Point Loads (BLC 47 : Maintenance Load, Lm (MP9))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP9	Y	-500	%50

Member Point Loads (BLC 75 : Maintenance Load, Lv (Pos. 1))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM-0	Y	-250	0

Member Point Loads (BLC 76 : Maintenance Load, Lv (Pos. 2))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM-0	Y	-250	%50

Member Point Loads (BLC 77 : Maintenance Load, Lv (Pos. 3))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM-0	Y	-250	%100

Member Point Loads (BLC 78 : Maintenance Load, Lv (Pos. 4))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM-120	Y	-250	0

Member Point Loads (BLC 79 : Maintenance Load, Lv (Pos. 5))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM-120	Y	-250	%50

Member Point Loads (BLC 80 : Maintenance Load, Lv (Pos. 6))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM-120	Y	-250	%100

Member Point Loads (BLC 81 : Maintenance Load, Lv (Pos. 7))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM-240	Y	-250	0

Member Point Loads (BLC 82 : Maintenance Load, Lv (Pos. 8))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM-240	Y	-250	%50

Member Point Loads (BLC 83 : Maintenance Load, Lv (Pos. 9))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM-240	Y	-250	%100

Member Point Loads (BLC 84 : Maintenance Load, Lv (Pos. 10))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	GRATE-H-90-1	Y	-250	%50

Member Point Loads (BLC 85 : Maintenance Load, Lv (Pos. 11))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	GRATE-H-90-2	Y	-250	%50

Member Point Loads (BLC 86 : Maintenance Load, Lv (Pos. 12))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	GRATE-H-210-1	Y	-250	%50

Member Point Loads (BLC 87 : Maintenance Load, Lv (Pos. 13))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	GRATE-H-210-2	Y	-250	%50

Member Point Loads (BLC 88 : Maintenance Load, Lv (Pos. 14))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	GRATE-H-330-1	Y	-250	%50

Member Point Loads (BLC 89 : Maintenance Load, Lv (Pos. 15))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	GRATE-H-330-2	Y	-250	%50

Member Point Loads (BLC 90 : Maintenance Load, Lv (Pos. 16))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	HR-0	Y	-250	0

Member Point Loads (BLC 91 : Maintenance Load, Lv (Pos. 17))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	HR-0	Y	-250	%50

Member Point Loads (BLC 92 : Maintenance Load, Lv (Pos. 18))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	HR-0	Y	-250	%100

Member Point Loads (BLC 93 : Maintenance Load, Lv (Pos. 19))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	HR-120	Y	-250	0

Member Point Loads (BLC 94 : Maintenance Load, Lv (Pos. 20))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	HR-120	Y	-250	%50

Member Point Loads (BLC 95 : Maintenance Load, Lv (Pos. 21))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	HR-120	Y	-250	%100

Member Point Loads (BLC 96 : Maintenance Load, Lv (Pos. 22))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	HR-240	Y	-250	0

Member Point Loads (BLC 97 : Maintenance Load, Lv (Pos. 23))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	HR-240	Y	-250	%50

Member Point Loads (BLC 98 : Maintenance Load, Lv (Pos. 24))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	HR-240	Y	-250	%100

Member Point Loads (BLC 175 : Antenna Dead Load)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-66.1	%26.771
2	MP1	Y	-66.1	%73.229
3	MP2	Y	-64	%6.302
4	MP2	Y	-64	%93.698
5	MP3	Y	-52	%39.01
6	MP3	Y	-52	%60.99
7	MP4	Y	-66.1	%26.771
8	MP4	Y	-66.1	%73.229
9	MP5	Y	-64	%6.302
10	MP5	Y	-64	%93.698
11	MP6	Y	-52	%39.01
12	MP6	Y	-52	%60.99
13	MP7	Y	-66.1	%26.771
14	MP7	Y	-66.1	%73.229
15	MP8	Y	-64	%6.302
16	MP8	Y	-64	%93.698
17	MP9	Y	-52	%39.01
18	MP9	Y	-52	%60.99

Member Point Loads (BLC 176 : Antenna Wind Load (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	98.6	%26.771
2	MP1	X	98.6	%73.229
3	MP2	X	306.5	%6.302
4	MP2	X	306.5	%93.698
5	MP3	X	86	%39.01
6	MP3	X	86	%60.99
7	MP4	X	78.2	%26.771
8	MP4	X	78.2	%73.229
9	MP5	X	177.6	%6.302
10	MP5	X	177.6	%93.698
11	MP6	X	49.8	%39.01
12	MP6	X	49.8	%60.99
13	MP7	X	78.2	%26.771
14	MP7	X	78.2	%73.229
15	MP8	X	177.6	%6.302
16	MP8	X	177.6	%93.698
17	MP9	X	49.8	%39.01
18	MP9	X	49.8	%60.99
19	MP1	Z	0	0
20	MP1	Z	0	0
21	MP2	Z	0	0
22	MP2	Z	0	0
23	MP3	Z	0	0
24	MP3	Z	0	0
25	MP4	Z	0	0
26	MP4	Z	0	0
27	MP5	Z	0	0
28	MP5	Z	0	0
29	MP6	Z	0	0
30	MP6	Z	0	0
31	MP7	Z	0	0

Member Point Loads (BLC 176 : Antenna Wind Load (0 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
32	MP7	Z	0	0
33	MP8	Z	0	0
34	MP8	Z	0	0
35	MP9	Z	0	0
36	MP9	Z	0	0

Member Point Loads (BLC 177 : Antenna Wind Load (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	79.5	%26.771
2	MP1	X	79.5	%73.229
3	MP2	X	228.2	%6.302
4	MP2	X	228.2	%93.698
5	MP3	X	64	%39.01
6	MP3	X	64	%60.99
7	MP4	X	61.8	%26.771
8	MP4	X	61.8	%73.229
9	MP5	X	116.6	%6.302
10	MP5	X	116.6	%93.698
11	MP6	X	32.7	%39.01
12	MP6	X	32.7	%60.99
13	MP7	X	79.5	%26.771
14	MP7	X	79.5	%73.229
15	MP8	X	228.2	%6.302
16	MP8	X	228.2	%93.698
17	MP9	X	64	%39.01
18	MP9	X	64	%60.99
19	MP1	Z	45.9	%26.771
20	MP1	Z	45.9	%73.229
21	MP2	Z	131.8	%6.302
22	MP2	Z	131.8	%93.698
23	MP3	Z	37	%39.01
24	MP3	Z	37	%60.99
25	MP4	Z	35.7	%26.771
26	MP4	Z	35.7	%73.229
27	MP5	Z	67.3	%6.302
28	MP5	Z	67.3	%93.698
29	MP6	Z	18.9	%39.01
30	MP6	Z	18.9	%60.99
31	MP7	Z	45.9	%26.771
32	MP7	Z	45.9	%73.229
33	MP8	Z	131.8	%6.302
34	MP8	Z	131.8	%93.698
35	MP9	Z	37	%39.01
36	MP9	Z	37	%60.99

Member Point Loads (BLC 178 : Antenna Wind Load (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	39.1	%26.771
2	MP1	X	39.1	%73.229
3	MP2	X	88.8	%6.302
4	MP2	X	88.8	%93.698
5	MP3	X	24.9	%39.01
6	MP3	X	24.9	%60.99
7	MP4	X	39.1	%26.771
8	MP4	X	39.1	%73.229
9	MP5	X	88.8	%6.302

Member Point Loads (BLC 178 : Antenna Wind Load (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
10	MP5	X	88.8	%93.698
11	MP6	X	24.9	%39.01
12	MP6	X	24.9	%60.99
13	MP7	X	49.3	%26.771
14	MP7	X	49.3	%73.229
15	MP8	X	153.3	%6.302
16	MP8	X	153.3	%93.698
17	MP9	X	43	%39.01
18	MP9	X	43	%60.99
19	MP1	Z	67.7	%26.771
20	MP1	Z	67.7	%73.229
21	MP2	Z	153.8	%6.302
22	MP2	Z	153.8	%93.698
23	MP3	Z	43.1	%39.01
24	MP3	Z	43.1	%60.99
25	MP4	Z	67.7	%26.771
26	MP4	Z	67.7	%73.229
27	MP5	Z	153.8	%6.302
28	MP5	Z	153.8	%93.698
29	MP6	Z	43.1	%39.01
30	MP6	Z	43.1	%60.99
31	MP7	Z	85.4	%26.771
32	MP7	Z	85.4	%73.229
33	MP8	Z	265.4	%6.302
34	MP8	Z	265.4	%93.698
35	MP9	Z	74.5	%39.01
36	MP9	Z	74.5	%60.99

Member Point Loads (BLC 179 : Antenna Wind Load (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP1	Z	71.4	%26.771
20	MP1	Z	71.4	%73.229
21	MP2	Z	134.6	%6.302
22	MP2	Z	134.6	%93.698
23	MP3	Z	37.7	%39.01
24	MP3	Z	37.7	%60.99
25	MP4	Z	91.8	%26.771
26	MP4	Z	91.8	%73.229

Member Point Loads (BLC 179 : Antenna Wind Load (90 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
27	MP5	Z	263.5	%6.302
28	MP5	Z	263.5	%93.698
29	MP6	Z	74	%39.01
30	MP6	Z	74	%60.99
31	MP7	Z	91.8	%26.771
32	MP7	Z	91.8	%73.229
33	MP8	Z	263.5	%6.302
34	MP8	Z	263.5	%93.698
35	MP9	Z	74	%39.01
36	MP9	Z	74	%60.99

Member Point Loads (BLC 180 : Antenna Wind Load (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-39.1	%26.771
2	MP1	X	-39.1	%73.229
3	MP2	X	-88.8	%6.302
4	MP2	X	-88.8	%93.698
5	MP3	X	-24.9	%39.01
6	MP3	X	-24.9	%60.99
7	MP4	X	-49.3	%26.771
8	MP4	X	-49.3	%73.229
9	MP5	X	-153.3	%6.302
10	MP5	X	-153.3	%93.698
11	MP6	X	-43	%39.01
12	MP6	X	-43	%60.99
13	MP7	X	-39.1	%26.771
14	MP7	X	-39.1	%73.229
15	MP8	X	-88.8	%6.302
16	MP8	X	-88.8	%93.698
17	MP9	X	-24.9	%39.01
18	MP9	X	-24.9	%60.99
19	MP1	Z	67.7	%26.771
20	MP1	Z	67.7	%73.229
21	MP2	Z	153.8	%6.302
22	MP2	Z	153.8	%93.698
23	MP3	Z	43.1	%39.01
24	MP3	Z	43.1	%60.99
25	MP4	Z	85.4	%26.771
26	MP4	Z	85.4	%73.229
27	MP5	Z	265.4	%6.302
28	MP5	Z	265.4	%93.698
29	MP6	Z	74.5	%39.01
30	MP6	Z	74.5	%60.99
31	MP7	Z	67.7	%26.771
32	MP7	Z	67.7	%73.229
33	MP8	Z	153.8	%6.302
34	MP8	Z	153.8	%93.698
35	MP9	Z	43.1	%39.01
36	MP9	Z	43.1	%60.99

Member Point Loads (BLC 181 : Antenna Wind Load (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-79.5	%26.771
2	MP1	X	-79.5	%73.229
3	MP2	X	-228.2	%6.302
4	MP2	X	-228.2	%93.698

Member Point Loads (BLC 181 : Antenna Wind Load (150 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
5	MP3	X	-64	%39.01
6	MP3	X	-64	%60.99
7	MP4	X	-79.5	%26.771
8	MP4	X	-79.5	%73.229
9	MP5	X	-228.2	%6.302
10	MP5	X	-228.2	%93.698
11	MP6	X	-64	%39.01
12	MP6	X	-64	%60.99
13	MP7	X	-61.8	%26.771
14	MP7	X	-61.8	%73.229
15	MP8	X	-116.6	%6.302
16	MP8	X	-116.6	%93.698
17	MP9	X	-32.7	%39.01
18	MP9	X	-32.7	%60.99
19	MP1	Z	45.9	%26.771
20	MP1	Z	45.9	%73.229
21	MP2	Z	131.8	%6.302
22	MP2	Z	131.8	%93.698
23	MP3	Z	37	%39.01
24	MP3	Z	37	%60.99
25	MP4	Z	45.9	%26.771
26	MP4	Z	45.9	%73.229
27	MP5	Z	131.8	%6.302
28	MP5	Z	131.8	%93.698
29	MP6	Z	37	%39.01
30	MP6	Z	37	%60.99
31	MP7	Z	35.7	%26.771
32	MP7	Z	35.7	%73.229
33	MP8	Z	67.3	%6.302
34	MP8	Z	67.3	%93.698
35	MP9	Z	18.9	%39.01
36	MP9	Z	18.9	%60.99

Member Point Loads (BLC 182 : Antenna Wind Load (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-98.6	%26.771
2	MP1	X	-98.6	%73.229
3	MP2	X	-306.5	%6.302
4	MP2	X	-306.5	%93.698
5	MP3	X	-86	%39.01
6	MP3	X	-86	%60.99
7	MP4	X	-78.2	%26.771
8	MP4	X	-78.2	%73.229
9	MP5	X	-177.6	%6.302
10	MP5	X	-177.6	%93.698
11	MP6	X	-49.8	%39.01
12	MP6	X	-49.8	%60.99
13	MP7	X	-78.2	%26.771
14	MP7	X	-78.2	%73.229
15	MP8	X	-177.6	%6.302
16	MP8	X	-177.6	%93.698
17	MP9	X	-49.8	%39.01
18	MP9	X	-49.8	%60.99
19	MP1	Z	0	0
20	MP1	Z	0	0
21	MP2	Z	0	0

Member Point Loads (BLC 182 : Antenna Wind Load (180 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
22	MP2	Z	0	0
23	MP3	Z	0	0
24	MP3	Z	0	0
25	MP4	Z	0	0
26	MP4	Z	0	0
27	MP5	Z	0	0
28	MP5	Z	0	0
29	MP6	Z	0	0
30	MP6	Z	0	0
31	MP7	Z	0	0
32	MP7	Z	0	0
33	MP8	Z	0	0
34	MP8	Z	0	0
35	MP9	Z	0	0
36	MP9	Z	0	0

Member Point Loads (BLC 183 : Antenna Wind Load (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-79.5	%26.771
2	MP1	X	-79.5	%73.229
3	MP2	X	-228.2	%6.302
4	MP2	X	-228.2	%93.698
5	MP3	X	-64	%39.01
6	MP3	X	-64	%60.99
7	MP4	X	-61.8	%26.771
8	MP4	X	-61.8	%73.229
9	MP5	X	-116.6	%6.302
10	MP5	X	-116.6	%93.698
11	MP6	X	-32.7	%39.01
12	MP6	X	-32.7	%60.99
13	MP7	X	-79.5	%26.771
14	MP7	X	-79.5	%73.229
15	MP8	X	-228.2	%6.302
16	MP8	X	-228.2	%93.698
17	MP9	X	-64	%39.01
18	MP9	X	-64	%60.99
19	MP1	Z	-45.9	%26.771
20	MP1	Z	-45.9	%73.229
21	MP2	Z	-131.8	%6.302
22	MP2	Z	-131.8	%93.698
23	MP3	Z	-37	%39.01
24	MP3	Z	-37	%60.99
25	MP4	Z	-35.7	%26.771
26	MP4	Z	-35.7	%73.229
27	MP5	Z	-67.3	%6.302
28	MP5	Z	-67.3	%93.698
29	MP6	Z	-18.9	%39.01
30	MP6	Z	-18.9	%60.99
31	MP7	Z	-45.9	%26.771
32	MP7	Z	-45.9	%73.229
33	MP8	Z	-131.8	%6.302
34	MP8	Z	-131.8	%93.698
35	MP9	Z	-37	%39.01
36	MP9	Z	-37	%60.99

Member Point Loads (BLC 184 : Antenna Wind Load (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-39.1	%26.771
2	MP1	X	-39.1	%73.229
3	MP2	X	-88.8	%6.302
4	MP2	X	-88.8	%93.698
5	MP3	X	-24.9	%39.01
6	MP3	X	-24.9	%60.99
7	MP4	X	-39.1	%26.771
8	MP4	X	-39.1	%73.229
9	MP5	X	-88.8	%6.302
10	MP5	X	-88.8	%93.698
11	MP6	X	-24.9	%39.01
12	MP6	X	-24.9	%60.99
13	MP7	X	-49.3	%26.771
14	MP7	X	-49.3	%73.229
15	MP8	X	-153.3	%6.302
16	MP8	X	-153.3	%93.698
17	MP9	X	-43	%39.01
18	MP9	X	-43	%60.99
19	MP1	Z	-67.7	%26.771
20	MP1	Z	-67.7	%73.229
21	MP2	Z	-153.8	%6.302
22	MP2	Z	-153.8	%93.698
23	MP3	Z	-43.1	%39.01
24	MP3	Z	-43.1	%60.99
25	MP4	Z	-67.7	%26.771
26	MP4	Z	-67.7	%73.229
27	MP5	Z	-153.8	%6.302
28	MP5	Z	-153.8	%93.698
29	MP6	Z	-43.1	%39.01
30	MP6	Z	-43.1	%60.99
31	MP7	Z	-85.4	%26.771
32	MP7	Z	-85.4	%73.229
33	MP8	Z	-265.4	%6.302
34	MP8	Z	-265.4	%93.698
35	MP9	Z	-74.5	%39.01
36	MP9	Z	-74.5	%60.99

Member Point Loads (BLC 185 : Antenna Wind Load (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0

Member Point Loads (BLC 185 : Antenna Wind Load (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
18	MP9	X	0	0
19	MP1	Z	-71.4	%26.771
20	MP1	Z	-71.4	%73.229
21	MP2	Z	-134.6	%6.302
22	MP2	Z	-134.6	%93.698
23	MP3	Z	-37.7	%39.01
24	MP3	Z	-37.7	%60.99
25	MP4	Z	-91.8	%26.771
26	MP4	Z	-91.8	%73.229
27	MP5	Z	-263.5	%6.302
28	MP5	Z	-263.5	%93.698
29	MP6	Z	-74	%39.01
30	MP6	Z	-74	%60.99
31	MP7	Z	-91.8	%26.771
32	MP7	Z	-91.8	%73.229
33	MP8	Z	-263.5	%6.302
34	MP8	Z	-263.5	%93.698
35	MP9	Z	-74	%39.01
36	MP9	Z	-74	%60.99

Member Point Loads (BLC 186 : Antenna Wind Load (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	39.1	%26.771
2	MP1	X	39.1	%73.229
3	MP2	X	88.8	%6.302
4	MP2	X	88.8	%93.698
5	MP3	X	24.9	%39.01
6	MP3	X	24.9	%60.99
7	MP4	X	49.3	%26.771
8	MP4	X	49.3	%73.229
9	MP5	X	153.3	%6.302
10	MP5	X	153.3	%93.698
11	MP6	X	43	%39.01
12	MP6	X	43	%60.99
13	MP7	X	39.1	%26.771
14	MP7	X	39.1	%73.229
15	MP8	X	88.8	%6.302
16	MP8	X	88.8	%93.698
17	MP9	X	24.9	%39.01
18	MP9	X	24.9	%60.99
19	MP1	Z	-67.7	%26.771
20	MP1	Z	-67.7	%73.229
21	MP2	Z	-153.8	%6.302
22	MP2	Z	-153.8	%93.698
23	MP3	Z	-43.1	%39.01
24	MP3	Z	-43.1	%60.99
25	MP4	Z	-85.4	%26.771
26	MP4	Z	-85.4	%73.229
27	MP5	Z	-265.4	%6.302
28	MP5	Z	-265.4	%93.698
29	MP6	Z	-74.5	%39.01
30	MP6	Z	-74.5	%60.99
31	MP7	Z	-67.7	%26.771
32	MP7	Z	-67.7	%73.229
33	MP8	Z	-153.8	%6.302
34	MP8	Z	-153.8	%93.698

Member Point Loads (BLC 186 : Antenna Wind Load (300 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
35	MP9	Z	-43.1	%39.01
36	MP9	Z	-43.1	%60.99

Member Point Loads (BLC 187 : Antenna Wind Load (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	79.5	%26.771
2	MP1	X	79.5	%73.229
3	MP2	X	228.2	%6.302
4	MP2	X	228.2	%93.698
5	MP3	X	64	%39.01
6	MP3	X	64	%60.99
7	MP4	X	79.5	%26.771
8	MP4	X	79.5	%73.229
9	MP5	X	228.2	%6.302
10	MP5	X	228.2	%93.698
11	MP6	X	64	%39.01
12	MP6	X	64	%60.99
13	MP7	X	61.8	%26.771
14	MP7	X	61.8	%73.229
15	MP8	X	116.6	%6.302
16	MP8	X	116.6	%93.698
17	MP9	X	32.7	%39.01
18	MP9	X	32.7	%60.99
19	MP1	Z	-45.9	%26.771
20	MP1	Z	-45.9	%73.229
21	MP2	Z	-131.8	%6.302
22	MP2	Z	-131.8	%93.698
23	MP3	Z	-37	%39.01
24	MP3	Z	-37	%60.99
25	MP4	Z	-45.9	%26.771
26	MP4	Z	-45.9	%73.229
27	MP5	Z	-131.8	%6.302
28	MP5	Z	-131.8	%93.698
29	MP6	Z	-37	%39.01
30	MP6	Z	-37	%60.99
31	MP7	Z	-35.7	%26.771
32	MP7	Z	-35.7	%73.229
33	MP8	Z	-67.3	%6.302
34	MP8	Z	-67.3	%93.698
35	MP9	Z	-18.9	%39.01
36	MP9	Z	-18.9	%60.99

Member Point Loads (BLC 188 : Antenna Ice Load)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-53.5	%26.771
2	MP1	Y	-53.5	%73.229
3	MP2	Y	-144.9	%6.302
4	MP2	Y	-144.9	%93.698
5	MP3	Y	-44	%39.01
6	MP3	Y	-44	%60.99
7	MP4	Y	-53.5	%26.771
8	MP4	Y	-53.5	%73.229
9	MP5	Y	-144.9	%6.302
10	MP5	Y	-144.9	%93.698
11	MP6	Y	-44	%39.01
12	MP6	Y	-44	%60.99

Member Point Loads (BLC 188 : Antenna Ice Load) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
13	MP7	Y	-53.5	%26.771
14	MP7	Y	-53.5	%73.229
15	MP8	Y	-144.9	%6.302
16	MP8	Y	-144.9	%93.698
17	MP9	Y	-44	%39.01
18	MP9	Y	-44	%60.99

Member Point Loads (BLC 189 : Antenna Wind on Ice (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	18.9	%26.771
2	MP1	X	18.9	%73.229
3	MP2	X	56.6	%6.302
4	MP2	X	56.6	%93.698
5	MP3	X	16.2	%39.01
6	MP3	X	16.2	%60.99
7	MP4	X	15.4	%26.771
8	MP4	X	15.4	%73.229
9	MP5	X	34	%6.302
10	MP5	X	34	%93.698
11	MP6	X	9.9	%39.01
12	MP6	X	9.9	%60.99
13	MP7	X	15.4	%26.771
14	MP7	X	15.4	%73.229
15	MP8	X	34	%6.302
16	MP8	X	34	%93.698
17	MP9	X	9.9	%39.01
18	MP9	X	9.9	%60.99
19	MP1	Z	0	0
20	MP1	Z	0	0
21	MP2	Z	0	0
22	MP2	Z	0	0
23	MP3	Z	0	0
24	MP3	Z	0	0
25	MP4	Z	0	0
26	MP4	Z	0	0
27	MP5	Z	0	0
28	MP5	Z	0	0
29	MP6	Z	0	0
30	MP6	Z	0	0
31	MP7	Z	0	0
32	MP7	Z	0	0
33	MP8	Z	0	0
34	MP8	Z	0	0
35	MP9	Z	0	0
36	MP9	Z	0	0

Member Point Loads (BLC 190 : Antenna Wind on Ice (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	15.4	%26.771
2	MP1	X	15.4	%73.229
3	MP2	X	42.5	%6.302
4	MP2	X	42.5	%93.698
5	MP3	X	12.2	%39.01
6	MP3	X	12.2	%60.99
7	MP4	X	12.4	%26.771
8	MP4	X	12.4	%73.229

Member Point Loads (BLC 190 : Antenna Wind on Ice (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
9	MP5	X	22.9	%6.302
10	MP5	X	22.9	%93.698
11	MP6	X	6.8	%39.01
12	MP6	X	6.8	%60.99
13	MP7	X	15.4	%26.771
14	MP7	X	15.4	%73.229
15	MP8	X	42.5	%6.302
16	MP8	X	42.5	%93.698
17	MP9	X	12.2	%39.01
18	MP9	X	12.2	%60.99
19	MP1	Z	8.9	%26.771
20	MP1	Z	8.9	%73.229
21	MP2	Z	24.5	%6.302
22	MP2	Z	24.5	%93.698
23	MP3	Z	7.1	%39.01
24	MP3	Z	7.1	%60.99
25	MP4	Z	7.1	%26.771
26	MP4	Z	7.1	%73.229
27	MP5	Z	13.2	%6.302
28	MP5	Z	13.2	%93.698
29	MP6	Z	3.9	%39.01
30	MP6	Z	3.9	%60.99
31	MP7	Z	8.9	%26.771
32	MP7	Z	8.9	%73.229
33	MP8	Z	24.5	%6.302
34	MP8	Z	24.5	%93.698
35	MP9	Z	7.1	%39.01
36	MP9	Z	7.1	%60.99

Member Point Loads (BLC 191 : Antenna Wind on Ice (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	7.7	%26.771
2	MP1	X	7.7	%73.229
3	MP2	X	17	%6.302
4	MP2	X	17	%93.698
5	MP3	X	5	%39.01
6	MP3	X	5	%60.99
7	MP4	X	7.7	%26.771
8	MP4	X	7.7	%73.229
9	MP5	X	17	%6.302
10	MP5	X	17	%93.698
11	MP6	X	5	%39.01
12	MP6	X	5	%60.99
13	MP7	X	9.4	%26.771
14	MP7	X	9.4	%73.229
15	MP8	X	28.3	%6.302
16	MP8	X	28.3	%93.698
17	MP9	X	8.1	%39.01
18	MP9	X	8.1	%60.99
19	MP1	Z	13.4	%26.771
20	MP1	Z	13.4	%73.229
21	MP2	Z	29.4	%6.302
22	MP2	Z	29.4	%93.698
23	MP3	Z	8.6	%39.01
24	MP3	Z	8.6	%60.99
25	MP4	Z	13.4	%26.771

Member Point Loads (BLC 191 : Antenna Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
26	MP4	Z	13.4	%73.229
27	MP5	Z	29.4	%6.302
28	MP5	Z	29.4	%93.698
29	MP6	Z	8.6	%39.01
30	MP6	Z	8.6	%60.99
31	MP7	Z	16.3	%26.771
32	MP7	Z	16.3	%73.229
33	MP8	Z	49	%6.302
34	MP8	Z	49	%93.698
35	MP9	Z	14	%39.01
36	MP9	Z	14	%60.99

Member Point Loads (BLC 192 : Antenna Wind on Ice (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP1	Z	14.3	%26.771
20	MP1	Z	14.3	%73.229
21	MP2	Z	26.4	%6.302
22	MP2	Z	26.4	%93.698
23	MP3	Z	7.8	%39.01
24	MP3	Z	7.8	%60.99
25	MP4	Z	17.7	%26.771
26	MP4	Z	17.7	%73.229
27	MP5	Z	49	%6.302
28	MP5	Z	49	%93.698
29	MP6	Z	14.1	%39.01
30	MP6	Z	14.1	%60.99
31	MP7	Z	17.7	%26.771
32	MP7	Z	17.7	%73.229
33	MP8	Z	49	%6.302
34	MP8	Z	49	%93.698
35	MP9	Z	14.1	%39.01
36	MP9	Z	14.1	%60.99

Member Point Loads (BLC 193 : Antenna Wind on Ice (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-7.7	%26.771
2	MP1	X	-7.7	%73.229
3	MP2	X	-17	%6.302

Member Point Loads (BLC 193 : Antenna Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
4	MP2	X	-17	%93.698
5	MP3	X	-5	%39.01
6	MP3	X	-5	%60.99
7	MP4	X	-9.4	%26.771
8	MP4	X	-9.4	%73.229
9	MP5	X	-28.3	%6.302
10	MP5	X	-28.3	%93.698
11	MP6	X	-8.1	%39.01
12	MP6	X	-8.1	%60.99
13	MP7	X	-7.7	%26.771
14	MP7	X	-7.7	%73.229
15	MP8	X	-17	%6.302
16	MP8	X	-17	%93.698
17	MP9	X	-5	%39.01
18	MP9	X	-5	%60.99
19	MP1	Z	13.4	%26.771
20	MP1	Z	13.4	%73.229
21	MP2	Z	29.4	%6.302
22	MP2	Z	29.4	%93.698
23	MP3	Z	8.6	%39.01
24	MP3	Z	8.6	%60.99
25	MP4	Z	16.3	%26.771
26	MP4	Z	16.3	%73.229
27	MP5	Z	49	%6.302
28	MP5	Z	49	%93.698
29	MP6	Z	14	%39.01
30	MP6	Z	14	%60.99
31	MP7	Z	13.4	%26.771
32	MP7	Z	13.4	%73.229
33	MP8	Z	29.4	%6.302
34	MP8	Z	29.4	%93.698
35	MP9	Z	8.6	%39.01
36	MP9	Z	8.6	%60.99

Member Point Loads (BLC 194 : Antenna Wind on Ice (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-15.4	%26.771
2	MP1	X	-15.4	%73.229
3	MP2	X	-42.5	%6.302
4	MP2	X	-42.5	%93.698
5	MP3	X	-12.2	%39.01
6	MP3	X	-12.2	%60.99
7	MP4	X	-15.4	%26.771
8	MP4	X	-15.4	%73.229
9	MP5	X	-42.5	%6.302
10	MP5	X	-42.5	%93.698
11	MP6	X	-12.2	%39.01
12	MP6	X	-12.2	%60.99
13	MP7	X	-12.4	%26.771
14	MP7	X	-12.4	%73.229
15	MP8	X	-22.9	%6.302
16	MP8	X	-22.9	%93.698
17	MP9	X	-6.8	%39.01
18	MP9	X	-6.8	%60.99
19	MP1	Z	8.9	%26.771
20	MP1	Z	8.9	%73.229

Member Point Loads (BLC 194 : Antenna Wind on Ice (150 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
21	MP2	Z	24.5	%6.302
22	MP2	Z	24.5	%93.698
23	MP3	Z	7.1	%39.01
24	MP3	Z	7.1	%60.99
25	MP4	Z	8.9	%26.771
26	MP4	Z	8.9	%73.229
27	MP5	Z	24.5	%6.302
28	MP5	Z	24.5	%93.698
29	MP6	Z	7.1	%39.01
30	MP6	Z	7.1	%60.99
31	MP7	Z	7.1	%26.771
32	MP7	Z	7.1	%73.229
33	MP8	Z	13.2	%6.302
34	MP8	Z	13.2	%93.698
35	MP9	Z	3.9	%39.01
36	MP9	Z	3.9	%60.99

Member Point Loads (BLC 195 : Antenna Wind on Ice (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-18.9	%26.771
2	MP1	X	-18.9	%73.229
3	MP2	X	-56.6	%6.302
4	MP2	X	-56.6	%93.698
5	MP3	X	-16.2	%39.01
6	MP3	X	-16.2	%60.99
7	MP4	X	-15.4	%26.771
8	MP4	X	-15.4	%73.229
9	MP5	X	-34	%6.302
10	MP5	X	-34	%93.698
11	MP6	X	-9.9	%39.01
12	MP6	X	-9.9	%60.99
13	MP7	X	-15.4	%26.771
14	MP7	X	-15.4	%73.229
15	MP8	X	-34	%6.302
16	MP8	X	-34	%93.698
17	MP9	X	-9.9	%39.01
18	MP9	X	-9.9	%60.99
19	MP1	Z	0	0
20	MP1	Z	0	0
21	MP2	Z	0	0
22	MP2	Z	0	0
23	MP3	Z	0	0
24	MP3	Z	0	0
25	MP4	Z	0	0
26	MP4	Z	0	0
27	MP5	Z	0	0
28	MP5	Z	0	0
29	MP6	Z	0	0
30	MP6	Z	0	0
31	MP7	Z	0	0
32	MP7	Z	0	0
33	MP8	Z	0	0
34	MP8	Z	0	0
35	MP9	Z	0	0
36	MP9	Z	0	0

Member Point Loads (BLC 196 : Antenna Wind on Ice (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-15.4	%26.771
2	MP1	X	-15.4	%73.229
3	MP2	X	-42.5	%6.302
4	MP2	X	-42.5	%93.698
5	MP3	X	-12.2	%39.01
6	MP3	X	-12.2	%60.99
7	MP4	X	-12.4	%26.771
8	MP4	X	-12.4	%73.229
9	MP5	X	-22.9	%6.302
10	MP5	X	-22.9	%93.698
11	MP6	X	-6.8	%39.01
12	MP6	X	-6.8	%60.99
13	MP7	X	-15.4	%26.771
14	MP7	X	-15.4	%73.229
15	MP8	X	-42.5	%6.302
16	MP8	X	-42.5	%93.698
17	MP9	X	-12.2	%39.01
18	MP9	X	-12.2	%60.99
19	MP1	Z	-8.9	%26.771
20	MP1	Z	-8.9	%73.229
21	MP2	Z	-24.5	%6.302
22	MP2	Z	-24.5	%93.698
23	MP3	Z	-7.1	%39.01
24	MP3	Z	-7.1	%60.99
25	MP4	Z	-7.1	%26.771
26	MP4	Z	-7.1	%73.229
27	MP5	Z	-13.2	%6.302
28	MP5	Z	-13.2	%93.698
29	MP6	Z	-3.9	%39.01
30	MP6	Z	-3.9	%60.99
31	MP7	Z	-8.9	%26.771
32	MP7	Z	-8.9	%73.229
33	MP8	Z	-24.5	%6.302
34	MP8	Z	-24.5	%93.698
35	MP9	Z	-7.1	%39.01
36	MP9	Z	-7.1	%60.99

Member Point Loads (BLC 197 : Antenna Wind on Ice (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-7.7	%26.771
2	MP1	X	-7.7	%73.229
3	MP2	X	-17	%6.302
4	MP2	X	-17	%93.698
5	MP3	X	-5	%39.01
6	MP3	X	-5	%60.99
7	MP4	X	-7.7	%26.771
8	MP4	X	-7.7	%73.229
9	MP5	X	-17	%6.302
10	MP5	X	-17	%93.698
11	MP6	X	-5	%39.01
12	MP6	X	-5	%60.99
13	MP7	X	-9.4	%26.771
14	MP7	X	-9.4	%73.229
15	MP8	X	-28.3	%6.302
16	MP8	X	-28.3	%93.698
17	MP9	X	-8.1	%39.01

Member Point Loads (BLC 197 : Antenna Wind on Ice (240 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
18	MP9	X	-8.1	%60.99
19	MP1	Z	-13.4	%26.771
20	MP1	Z	-13.4	%73.229
21	MP2	Z	-29.4	%6.302
22	MP2	Z	-29.4	%93.698
23	MP3	Z	-8.6	%39.01
24	MP3	Z	-8.6	%60.99
25	MP4	Z	-13.4	%26.771
26	MP4	Z	-13.4	%73.229
27	MP5	Z	-29.4	%6.302
28	MP5	Z	-29.4	%93.698
29	MP6	Z	-8.6	%39.01
30	MP6	Z	-8.6	%60.99
31	MP7	Z	-16.3	%26.771
32	MP7	Z	-16.3	%73.229
33	MP8	Z	-49	%6.302
34	MP8	Z	-49	%93.698
35	MP9	Z	-14	%39.01
36	MP9	Z	-14	%60.99

Member Point Loads (BLC 198 : Antenna Wind on Ice (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP1	Z	-14.3	%26.771
20	MP1	Z	-14.3	%73.229
21	MP2	Z	-26.4	%6.302
22	MP2	Z	-26.4	%93.698
23	MP3	Z	-7.8	%39.01
24	MP3	Z	-7.8	%60.99
25	MP4	Z	-17.7	%26.771
26	MP4	Z	-17.7	%73.229
27	MP5	Z	-49	%6.302
28	MP5	Z	-49	%93.698
29	MP6	Z	-14.1	%39.01
30	MP6	Z	-14.1	%60.99
31	MP7	Z	-17.7	%26.771
32	MP7	Z	-17.7	%73.229
33	MP8	Z	-49	%6.302
34	MP8	Z	-49	%93.698

Member Point Loads (BLC 198 : Antenna Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
35	MP9	Z	-14.1	%39.01
36	MP9	Z	-14.1	%60.99

Member Point Loads (BLC 199 : Antenna Wind on Ice (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	7.7	%26.771
2	MP1	X	7.7	%73.229
3	MP2	X	17	%6.302
4	MP2	X	17	%93.698
5	MP3	X	5	%39.01
6	MP3	X	5	%60.99
7	MP4	X	9.4	%26.771
8	MP4	X	9.4	%73.229
9	MP5	X	28.3	%6.302
10	MP5	X	28.3	%93.698
11	MP6	X	8.1	%39.01
12	MP6	X	8.1	%60.99
13	MP7	X	7.7	%26.771
14	MP7	X	7.7	%73.229
15	MP8	X	17	%6.302
16	MP8	X	17	%93.698
17	MP9	X	5	%39.01
18	MP9	X	5	%60.99
19	MP1	Z	-13.4	%26.771
20	MP1	Z	-13.4	%73.229
21	MP2	Z	-29.4	%6.302
22	MP2	Z	-29.4	%93.698
23	MP3	Z	-8.6	%39.01
24	MP3	Z	-8.6	%60.99
25	MP4	Z	-16.3	%26.771
26	MP4	Z	-16.3	%73.229
27	MP5	Z	-49	%6.302
28	MP5	Z	-49	%93.698
29	MP6	Z	-14	%39.01
30	MP6	Z	-14	%60.99
31	MP7	Z	-13.4	%26.771
32	MP7	Z	-13.4	%73.229
33	MP8	Z	-29.4	%6.302
34	MP8	Z	-29.4	%93.698
35	MP9	Z	-8.6	%39.01
36	MP9	Z	-8.6	%60.99

Member Point Loads (BLC 200 : Antenna Wind on Ice (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	15.4	%26.771
2	MP1	X	15.4	%73.229
3	MP2	X	42.5	%6.302
4	MP2	X	42.5	%93.698
5	MP3	X	12.2	%39.01
6	MP3	X	12.2	%60.99
7	MP4	X	15.4	%26.771
8	MP4	X	15.4	%73.229
9	MP5	X	42.5	%6.302
10	MP5	X	42.5	%93.698
11	MP6	X	12.2	%39.01
12	MP6	X	12.2	%60.99

Member Point Loads (BLC 200 : Antenna Wind on Ice (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
13	MP7	X	12.4	%26.771
14	MP7	X	12.4	%73.229
15	MP8	X	22.9	%6.302
16	MP8	X	22.9	%93.698
17	MP9	X	6.8	%39.01
18	MP9	X	6.8	%60.99
19	MP1	Z	-8.9	%26.771
20	MP1	Z	-8.9	%73.229
21	MP2	Z	-24.5	%6.302
22	MP2	Z	-24.5	%93.698
23	MP3	Z	-7.1	%39.01
24	MP3	Z	-7.1	%60.99
25	MP4	Z	-8.9	%26.771
26	MP4	Z	-8.9	%73.229
27	MP5	Z	-24.5	%6.302
28	MP5	Z	-24.5	%93.698
29	MP6	Z	-7.1	%39.01
30	MP6	Z	-7.1	%60.99
31	MP7	Z	-7.1	%26.771
32	MP7	Z	-7.1	%73.229
33	MP8	Z	-13.2	%6.302
34	MP8	Z	-13.2	%93.698
35	MP9	Z	-3.9	%39.01
36	MP9	Z	-3.9	%60.99

Member Point Loads (BLC 201 : Ant. Horiz. Seismic, Eh (0))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	66.1	%26.771
2	MP1	X	66.1	%73.229
3	MP2	X	64	%6.302
4	MP2	X	64	%93.698
5	MP3	X	52	%39.01
6	MP3	X	52	%60.99
7	MP4	X	66.1	%26.771
8	MP4	X	66.1	%73.229
9	MP5	X	64	%6.302
10	MP5	X	64	%93.698
11	MP6	X	52	%39.01
12	MP6	X	52	%60.99
13	MP7	X	66.1	%26.771
14	MP7	X	66.1	%73.229
15	MP8	X	64	%6.302
16	MP8	X	64	%93.698
17	MP9	X	52	%39.01
18	MP9	X	52	%60.99
19	MP1	Z	0	0
20	MP1	Z	0	0
21	MP2	Z	0	0
22	MP2	Z	0	0
23	MP3	Z	0	0
24	MP3	Z	0	0
25	MP4	Z	0	0
26	MP4	Z	0	0
27	MP5	Z	0	0
28	MP5	Z	0	0
29	MP6	Z	0	0

Member Point Loads (BLC 201 : Ant. Horiz. Seismic, Eh (0)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
30	MP6	Z	0	0
31	MP7	Z	0	0
32	MP7	Z	0	0
33	MP8	Z	0	0
34	MP8	Z	0	0
35	MP9	Z	0	0
36	MP9	Z	0	0

Member Point Loads (BLC 202 : Ant. Horiz. Seismic, Eh (30))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	57.2	%26.771
2	MP1	X	57.2	%73.229
3	MP2	X	55.4	%6.302
4	MP2	X	55.4	%93.698
5	MP3	X	45	%39.01
6	MP3	X	45	%60.99
7	MP4	X	57.2	%26.771
8	MP4	X	57.2	%73.229
9	MP5	X	55.4	%6.302
10	MP5	X	55.4	%93.698
11	MP6	X	45	%39.01
12	MP6	X	45	%60.99
13	MP7	X	57.2	%26.771
14	MP7	X	57.2	%73.229
15	MP8	X	55.4	%6.302
16	MP8	X	55.4	%93.698
17	MP9	X	45	%39.01
18	MP9	X	45	%60.99
19	MP1	Z	33	%26.771
20	MP1	Z	33	%73.229
21	MP2	Z	32	%6.302
22	MP2	Z	32	%93.698
23	MP3	Z	26	%39.01
24	MP3	Z	26	%60.99
25	MP4	Z	33	%26.771
26	MP4	Z	33	%73.229
27	MP5	Z	32	%6.302
28	MP5	Z	32	%93.698
29	MP6	Z	26	%39.01
30	MP6	Z	26	%60.99
31	MP7	Z	33	%26.771
32	MP7	Z	33	%73.229
33	MP8	Z	32	%6.302
34	MP8	Z	32	%93.698
35	MP9	Z	26	%39.01
36	MP9	Z	26	%60.99

Member Point Loads (BLC 203 : Ant. Horiz. Seismic, Eh (60))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	33.1	%26.771
2	MP1	X	33.1	%73.229
3	MP2	X	32	%6.302
4	MP2	X	32	%93.698
5	MP3	X	26	%39.01
6	MP3	X	26	%60.99
7	MP4	X	33.1	%26.771

Member Point Loads (BLC 203 : Ant. Horiz. Seismic, Eh (60)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
8	MP4	X	33.1	%73.229
9	MP5	X	32	%6.302
10	MP5	X	32	%93.698
11	MP6	X	26	%39.01
12	MP6	X	26	%60.99
13	MP7	X	33.1	%26.771
14	MP7	X	33.1	%73.229
15	MP8	X	32	%6.302
16	MP8	X	32	%93.698
17	MP9	X	26	%39.01
18	MP9	X	26	%60.99
19	MP1	Z	57.2	%26.771
20	MP1	Z	57.2	%73.229
21	MP2	Z	55.4	%6.302
22	MP2	Z	55.4	%93.698
23	MP3	Z	45	%39.01
24	MP3	Z	45	%60.99
25	MP4	Z	57.2	%26.771
26	MP4	Z	57.2	%73.229
27	MP5	Z	55.4	%6.302
28	MP5	Z	55.4	%93.698
29	MP6	Z	45	%39.01
30	MP6	Z	45	%60.99
31	MP7	Z	57.2	%26.771
32	MP7	Z	57.2	%73.229
33	MP8	Z	55.4	%6.302
34	MP8	Z	55.4	%93.698
35	MP9	Z	45	%39.01
36	MP9	Z	45	%60.99

Member Point Loads (BLC 204 : Ant. Horiz. Seismic, Eh (90))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP1	Z	66.1	%26.771
20	MP1	Z	66.1	%73.229
21	MP2	Z	64	%6.302
22	MP2	Z	64	%93.698
23	MP3	Z	52	%39.01
24	MP3	Z	52	%60.99

Member Point Loads (BLC 204 : Ant. Horiz. Seismic, Eh (90)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
25	MP4	Z	66.1	%26.771
26	MP4	Z	66.1	%73.229
27	MP5	Z	64	%6.302
28	MP5	Z	64	%93.698
29	MP6	Z	52	%39.01
30	MP6	Z	52	%60.99
31	MP7	Z	66.1	%26.771
32	MP7	Z	66.1	%73.229
33	MP8	Z	64	%6.302
34	MP8	Z	64	%93.698
35	MP9	Z	52	%39.01
36	MP9	Z	52	%60.99

Member Point Loads (BLC 205 : Ant. Horiz. Seismic, Eh (120))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-33	%26.771
2	MP1	X	-33	%73.229
3	MP2	X	-32	%6.302
4	MP2	X	-32	%93.698
5	MP3	X	-26	%39.01
6	MP3	X	-26	%60.99
7	MP4	X	-33	%26.771
8	MP4	X	-33	%73.229
9	MP5	X	-32	%6.302
10	MP5	X	-32	%93.698
11	MP6	X	-26	%39.01
12	MP6	X	-26	%60.99
13	MP7	X	-33	%26.771
14	MP7	X	-33	%73.229
15	MP8	X	-32	%6.302
16	MP8	X	-32	%93.698
17	MP9	X	-26	%39.01
18	MP9	X	-26	%60.99
19	MP1	Z	57.2	%26.771
20	MP1	Z	57.2	%73.229
21	MP2	Z	55.4	%6.302
22	MP2	Z	55.4	%93.698
23	MP3	Z	45	%39.01
24	MP3	Z	45	%60.99
25	MP4	Z	57.2	%26.771
26	MP4	Z	57.2	%73.229
27	MP5	Z	55.4	%6.302
28	MP5	Z	55.4	%93.698
29	MP6	Z	45	%39.01
30	MP6	Z	45	%60.99
31	MP7	Z	57.2	%26.771
32	MP7	Z	57.2	%73.229
33	MP8	Z	55.4	%6.302
34	MP8	Z	55.4	%93.698
35	MP9	Z	45	%39.01
36	MP9	Z	45	%60.99

Member Point Loads (BLC 206 : Ant. Horiz. Seismic, Eh (150))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-57.2	%26.771
2	MP1	X	-57.2	%73.229

Member Point Loads (BLC 206 : Ant. Horiz. Seismic, Eh (150)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
3	MP2	X	-55.4	%6.302
4	MP2	X	-55.4	%93.698
5	MP3	X	-45	%39.01
6	MP3	X	-45	%60.99
7	MP4	X	-57.2	%26.771
8	MP4	X	-57.2	%73.229
9	MP5	X	-55.4	%6.302
10	MP5	X	-55.4	%93.698
11	MP6	X	-45	%39.01
12	MP6	X	-45	%60.99
13	MP7	X	-57.2	%26.771
14	MP7	X	-57.2	%73.229
15	MP8	X	-55.4	%6.302
16	MP8	X	-55.4	%93.698
17	MP9	X	-45	%39.01
18	MP9	X	-45	%60.99
19	MP1	Z	33	%26.771
20	MP1	Z	33	%73.229
21	MP2	Z	32	%6.302
22	MP2	Z	32	%93.698
23	MP3	Z	26	%39.01
24	MP3	Z	26	%60.99
25	MP4	Z	33	%26.771
26	MP4	Z	33	%73.229
27	MP5	Z	32	%6.302
28	MP5	Z	32	%93.698
29	MP6	Z	26	%39.01
30	MP6	Z	26	%60.99
31	MP7	Z	33	%26.771
32	MP7	Z	33	%73.229
33	MP8	Z	32	%6.302
34	MP8	Z	32	%93.698
35	MP9	Z	26	%39.01
36	MP9	Z	26	%60.99

Member Point Loads (BLC 207 : Ant. Horiz. Seismic, Eh (180))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-66.1	%26.771
2	MP1	X	-66.1	%73.229
3	MP2	X	-64	%6.302
4	MP2	X	-64	%93.698
5	MP3	X	-52	%39.01
6	MP3	X	-52	%60.99
7	MP4	X	-66.1	%26.771
8	MP4	X	-66.1	%73.229
9	MP5	X	-64	%6.302
10	MP5	X	-64	%93.698
11	MP6	X	-52	%39.01
12	MP6	X	-52	%60.99
13	MP7	X	-66.1	%26.771
14	MP7	X	-66.1	%73.229
15	MP8	X	-64	%6.302
16	MP8	X	-64	%93.698
17	MP9	X	-52	%39.01
18	MP9	X	-52	%60.99
19	MP1	Z	0	0

Member Point Loads (BLC 207 : Ant. Horiz. Seismic, Eh (180)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
20	MP1	Z	0	0
21	MP2	Z	0	0
22	MP2	Z	0	0
23	MP3	Z	0	0
24	MP3	Z	0	0
25	MP4	Z	0	0
26	MP4	Z	0	0
27	MP5	Z	0	0
28	MP5	Z	0	0
29	MP6	Z	0	0
30	MP6	Z	0	0
31	MP7	Z	0	0
32	MP7	Z	0	0
33	MP8	Z	0	0
34	MP8	Z	0	0
35	MP9	Z	0	0
36	MP9	Z	0	0

Member Point Loads (BLC 208 : Ant. Horiz. Seismic, Eh (210))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-57.2	%26.771
2	MP1	X	-57.2	%73.229
3	MP2	X	-55.4	%6.302
4	MP2	X	-55.4	%93.698
5	MP3	X	-45	%39.01
6	MP3	X	-45	%60.99
7	MP4	X	-57.2	%26.771
8	MP4	X	-57.2	%73.229
9	MP5	X	-55.4	%6.302
10	MP5	X	-55.4	%93.698
11	MP6	X	-45	%39.01
12	MP6	X	-45	%60.99
13	MP7	X	-57.2	%26.771
14	MP7	X	-57.2	%73.229
15	MP8	X	-55.4	%6.302
16	MP8	X	-55.4	%93.698
17	MP9	X	-45	%39.01
18	MP9	X	-45	%60.99
19	MP1	Z	-33.1	%26.771
20	MP1	Z	-33.1	%73.229
21	MP2	Z	-32	%6.302
22	MP2	Z	-32	%93.698
23	MP3	Z	-26	%39.01
24	MP3	Z	-26	%60.99
25	MP4	Z	-33.1	%26.771
26	MP4	Z	-33.1	%73.229
27	MP5	Z	-32	%6.302
28	MP5	Z	-32	%93.698
29	MP6	Z	-26	%39.01
30	MP6	Z	-26	%60.99
31	MP7	Z	-33.1	%26.771
32	MP7	Z	-33.1	%73.229
33	MP8	Z	-32	%6.302
34	MP8	Z	-32	%93.698
35	MP9	Z	-26	%39.01
36	MP9	Z	-26	%60.99

Member Point Loads (BLC 209 : Ant. Horiz. Seismic, Eh (240))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-33.1	%26.771
2	MP1	X	-33.1	%73.229
3	MP2	X	-32	%6.302
4	MP2	X	-32	%93.698
5	MP3	X	-26	%39.01
6	MP3	X	-26	%60.99
7	MP4	X	-33.1	%26.771
8	MP4	X	-33.1	%73.229
9	MP5	X	-32	%6.302
10	MP5	X	-32	%93.698
11	MP6	X	-26	%39.01
12	MP6	X	-26	%60.99
13	MP7	X	-33.1	%26.771
14	MP7	X	-33.1	%73.229
15	MP8	X	-32	%6.302
16	MP8	X	-32	%93.698
17	MP9	X	-26	%39.01
18	MP9	X	-26	%60.99
19	MP1	Z	-57.2	%26.771
20	MP1	Z	-57.2	%73.229
21	MP2	Z	-55.4	%6.302
22	MP2	Z	-55.4	%93.698
23	MP3	Z	-45	%39.01
24	MP3	Z	-45	%60.99
25	MP4	Z	-57.2	%26.771
26	MP4	Z	-57.2	%73.229
27	MP5	Z	-55.4	%6.302
28	MP5	Z	-55.4	%93.698
29	MP6	Z	-45	%39.01
30	MP6	Z	-45	%60.99
31	MP7	Z	-57.2	%26.771
32	MP7	Z	-57.2	%73.229
33	MP8	Z	-55.4	%6.302
34	MP8	Z	-55.4	%93.698
35	MP9	Z	-45	%39.01
36	MP9	Z	-45	%60.99

Member Point Loads (BLC 210 : Ant. Horiz. Seismic, Eh (270))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0

Member Point Loads (BLC 210 : Ant. Horiz. Seismic, Eh (270)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
18	MP9	X	0	0
19	MP1	Z	-66.1	%26.771
20	MP1	Z	-66.1	%73.229
21	MP2	Z	-64	%6.302
22	MP2	Z	-64	%93.698
23	MP3	Z	-52	%39.01
24	MP3	Z	-52	%60.99
25	MP4	Z	-66.1	%26.771
26	MP4	Z	-66.1	%73.229
27	MP5	Z	-64	%6.302
28	MP5	Z	-64	%93.698
29	MP6	Z	-52	%39.01
30	MP6	Z	-52	%60.99
31	MP7	Z	-66.1	%26.771
32	MP7	Z	-66.1	%73.229
33	MP8	Z	-64	%6.302
34	MP8	Z	-64	%93.698
35	MP9	Z	-52	%39.01
36	MP9	Z	-52	%60.99

Member Point Loads (BLC 211 : Ant. Horiz. Seismic, Eh (300))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	33.1	%26.771
2	MP1	X	33.1	%73.229
3	MP2	X	32	%6.302
4	MP2	X	32	%93.698
5	MP3	X	26	%39.01
6	MP3	X	26	%60.99
7	MP4	X	33.1	%26.771
8	MP4	X	33.1	%73.229
9	MP5	X	32	%6.302
10	MP5	X	32	%93.698
11	MP6	X	26	%39.01
12	MP6	X	26	%60.99
13	MP7	X	33.1	%26.771
14	MP7	X	33.1	%73.229
15	MP8	X	32	%6.302
16	MP8	X	32	%93.698
17	MP9	X	26	%39.01
18	MP9	X	26	%60.99
19	MP1	Z	-57.2	%26.771
20	MP1	Z	-57.2	%73.229
21	MP2	Z	-55.4	%6.302
22	MP2	Z	-55.4	%93.698
23	MP3	Z	-45	%39.01
24	MP3	Z	-45	%60.99
25	MP4	Z	-57.2	%26.771
26	MP4	Z	-57.2	%73.229
27	MP5	Z	-55.4	%6.302
28	MP5	Z	-55.4	%93.698
29	MP6	Z	-45	%39.01
30	MP6	Z	-45	%60.99
31	MP7	Z	-57.2	%26.771
32	MP7	Z	-57.2	%73.229
33	MP8	Z	-55.4	%6.302
34	MP8	Z	-55.4	%93.698

Member Point Loads (BLC 211 : Ant. Horiz. Seismic, Eh (300)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
35	MP9	Z	-45	%39.01
36	MP9	Z	-45	%60.99

Member Point Loads (BLC 212 : Ant. Horiz. Seismic, Eh (330))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	57.2	%26.771
2	MP1	X	57.2	%73.229
3	MP2	X	55.4	%6.302
4	MP2	X	55.4	%93.698
5	MP3	X	45	%39.01
6	MP3	X	45	%60.99
7	MP4	X	57.2	%26.771
8	MP4	X	57.2	%73.229
9	MP5	X	55.4	%6.302
10	MP5	X	55.4	%93.698
11	MP6	X	45	%39.01
12	MP6	X	45	%60.99
13	MP7	X	57.2	%26.771
14	MP7	X	57.2	%73.229
15	MP8	X	55.4	%6.302
16	MP8	X	55.4	%93.698
17	MP9	X	45	%39.01
18	MP9	X	45	%60.99
19	MP1	Z	-33.1	%26.771
20	MP1	Z	-33.1	%73.229
21	MP2	Z	-32	%6.302
22	MP2	Z	-32	%93.698
23	MP3	Z	-26	%39.01
24	MP3	Z	-26	%60.99
25	MP4	Z	-33.1	%26.771
26	MP4	Z	-33.1	%73.229
27	MP5	Z	-32	%6.302
28	MP5	Z	-32	%93.698
29	MP6	Z	-26	%39.01
30	MP6	Z	-26	%60.99
31	MP7	Z	-33.1	%26.771
32	MP7	Z	-33.1	%73.229
33	MP8	Z	-32	%6.302
34	MP8	Z	-32	%93.698
35	MP9	Z	-26	%39.01
36	MP9	Z	-26	%60.99

Member Distributed Loads (BLC 2 : Wind Load (0 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	5.3	5.3	0	0
2	BRACE-2	X	5.3	5.3	0	0
3	BRACE-3	X	10.6	10.6	0	0
4	CONN-PL-60-1	X	15.7	15.7	0	0
5	CONN-PL-60-2	X	15.7	15.7	0	0
6	CONN-PL-90-1	X	18.2	18.2	0	0
7	CONN-PL-90-2	X	18.2	18.2	0	0
8	CONN-PL-180-1	X	0	0	0	0
9	CONN-PL-180-2	X	0	0	0	0
10	CONN-PL-210-1	X	9.1	9.1	0	0
11	CONN-PL-210-2	X	9.1	9.1	0	0

Member Distributed Loads (BLC 2 : Wind Load (0 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
12	CONN-PL-300-1	X	15.7	15.7	0	0
13	CONN-PL-300-2	X	15.7	15.7	0	0
14	CONN-PL-330-1	X	9.1	9.1	0	0
15	CONN-PL-330-2	X	9.1	9.1	0	0
16	COR-1	X	4.2	4.2	0	0
17	COR-2	X	4.2	4.2	0	0
18	COR-3	X	8.3	8.3	0	0
19	COR-PL-90-1	X	18.2	18.2	0	0
20	COR-PL-90-2	X	18.2	18.2	0	0
21	COR-PL-90-3	X	18.2	18.2	0	0
22	COR-PL-90-4	X	18.2	18.2	0	0
23	COR-PL-210-1	X	9.1	9.1	0	0
24	COR-PL-210-2	X	9.1	9.1	0	0
25	COR-PL-210-3	X	9.1	9.1	0	0
26	COR-PL-210-4	X	9.1	9.1	0	0
27	COR-PL-330-1	X	9.1	9.1	0	0
28	COR-PL-330-2	X	9.1	9.1	0	0
29	COR-PL-330-3	X	9.1	9.1	0	0
30	COR-PL-330-4	X	9.1	9.1	0	0
31	FM-0	X	10.6	10.6	0	0
32	FM-120	X	5.3	5.3	0	0
33	FM-240	X	5.3	5.3	0	0
34	GRATE-H-90-1	X	10.1	10.1	0	0
35	GRATE-H-90-2	X	10.1	10.1	0	0
36	GRATE-H-210-1	X	5	5	0	0
37	GRATE-H-210-2	X	5	5	0	0
38	GRATE-H-330-1	X	5	5	0	0
39	GRATE-H-330-2	X	5	5	0	0
40	HR-0	X	7.2	7.2	0	0
41	HR-120	X	3.6	3.6	0	0
42	HR-240	X	3.6	3.6	0	0
43	SA-1	X	9.3	9.3	0	0
44	SA-2	X	9.3	9.3	0	0
45	SA-3	X	0	0	0	0
46	BRACE-1	Z	0	0	0	0
47	BRACE-2	Z	0	0	0	0
48	BRACE-3	Z	0	0	0	0
49	CONN-PL-60-1	Z	0	0	0	0
50	CONN-PL-60-2	Z	0	0	0	0
51	CONN-PL-90-1	Z	0	0	0	0
52	CONN-PL-90-2	Z	0	0	0	0
53	CONN-PL-180-1	Z	0	0	0	0
54	CONN-PL-180-2	Z	0	0	0	0
55	CONN-PL-210-1	Z	0	0	0	0
56	CONN-PL-210-2	Z	0	0	0	0
57	CONN-PL-300-1	Z	0	0	0	0
58	CONN-PL-300-2	Z	0	0	0	0
59	CONN-PL-330-1	Z	0	0	0	0
60	CONN-PL-330-2	Z	0	0	0	0
61	COR-1	Z	0	0	0	0
62	COR-2	Z	0	0	0	0
63	COR-3	Z	0	0	0	0
64	COR-PL-90-1	Z	0	0	0	0
65	COR-PL-90-2	Z	0	0	0	0
66	COR-PL-90-3	Z	0	0	0	0
67	COR-PL-90-4	Z	0	0	0	0
68	COR-PL-210-1	Z	0	0	0	0

Member Distributed Loads (BLC 2 : Wind Load (0 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
69	COR-PL-210-2	Z	0	0	0	0
70	COR-PL-210-3	Z	0	0	0	0
71	COR-PL-210-4	Z	0	0	0	0
72	COR-PL-330-1	Z	0	0	0	0
73	COR-PL-330-2	Z	0	0	0	0
74	COR-PL-330-3	Z	0	0	0	0
75	COR-PL-330-4	Z	0	0	0	0
76	FM-0	Z	0	0	0	0
77	FM-120	Z	0	0	0	0
78	FM-240	Z	0	0	0	0
79	GRATE-H-90-1	Z	0	0	0	0
80	GRATE-H-90-2	Z	0	0	0	0
81	GRATE-H-210-1	Z	0	0	0	0
82	GRATE-H-210-2	Z	0	0	0	0
83	GRATE-H-330-1	Z	0	0	0	0
84	GRATE-H-330-2	Z	0	0	0	0
85	HR-0	Z	0	0	0	0
86	HR-120	Z	0	0	0	0
87	HR-240	Z	0	0	0	0
88	SA-1	Z	0	0	0	0
89	SA-2	Z	0	0	0	0
90	SA-3	Z	0	0	0	0

Member Distributed Loads (BLC 3 : Wind Load (30 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	8	8	0	0
3	BRACE-3	X	8	8	0	0
4	CONN-PL-60-1	X	7.9	7.9	0	0
5	CONN-PL-60-2	X	7.9	7.9	0	0
6	CONN-PL-90-1	X	13.6	13.6	0	0
7	CONN-PL-90-2	X	13.6	13.6	0	0
8	CONN-PL-180-1	X	7.9	7.9	0	0
9	CONN-PL-180-2	X	7.9	7.9	0	0
10	CONN-PL-210-1	X	0	0	0	0
11	CONN-PL-210-2	X	0	0	0	0
12	CONN-PL-300-1	X	15.7	15.7	0	0
13	CONN-PL-300-2	X	15.7	15.7	0	0
14	CONN-PL-330-1	X	13.6	13.6	0	0
15	CONN-PL-330-2	X	13.6	13.6	0	0
16	COR-1	X	0	0	0	0
17	COR-2	X	6.2	6.2	0	0
18	COR-3	X	6.2	6.2	0	0
19	COR-PL-90-1	X	13.6	13.6	0	0
20	COR-PL-90-2	X	13.6	13.6	0	0
21	COR-PL-90-3	X	13.6	13.6	0	0
22	COR-PL-90-4	X	13.6	13.6	0	0
23	COR-PL-210-1	X	0	0	0	0
24	COR-PL-210-2	X	0	0	0	0
25	COR-PL-210-3	X	0	0	0	0
26	COR-PL-210-4	X	0	0	0	0
27	COR-PL-330-1	X	13.6	13.6	0	0
28	COR-PL-330-2	X	13.6	13.6	0	0
29	COR-PL-330-3	X	13.6	13.6	0	0
30	COR-PL-330-4	X	13.6	13.6	0	0
31	FM-0	X	7.9	7.9	0	0

Member Distributed Loads (BLC 3 : Wind Load (30 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
32	FM-120	X	0	0	0	0
33	FM-240	X	7.9	7.9	0	0
34	GRATE-H-90-1	X	7.6	7.6	0	0
35	GRATE-H-90-2	X	7.6	7.6	0	0
36	GRATE-H-210-1	X	0	0	0	0
37	GRATE-H-210-2	X	0	0	0	0
38	GRATE-H-330-1	X	7.6	7.6	0	0
39	GRATE-H-330-2	X	7.6	7.6	0	0
40	HR-0	X	5.4	5.4	0	0
41	HR-120	X	0	0	0	0
42	HR-240	X	5.4	5.4	0	0
43	SA-1	X	9.3	9.3	0	0
44	SA-2	X	4.7	4.7	0	0
45	SA-3	X	4.7	4.7	0	0
46	BRACE-1	Z	0	0	0	0
47	BRACE-2	Z	4.6	4.6	0	0
48	BRACE-3	Z	4.6	4.6	0	0
49	CONN-PL-60-1	Z	4.5	4.5	0	0
50	CONN-PL-60-2	Z	4.5	4.5	0	0
51	CONN-PL-90-1	Z	7.9	7.9	0	0
52	CONN-PL-90-2	Z	7.9	7.9	0	0
53	CONN-PL-180-1	Z	4.5	4.5	0	0
54	CONN-PL-180-2	Z	4.5	4.5	0	0
55	CONN-PL-210-1	Z	0	0	0	0
56	CONN-PL-210-2	Z	0	0	0	0
57	CONN-PL-300-1	Z	9.1	9.1	0	0
58	CONN-PL-300-2	Z	9.1	9.1	0	0
59	CONN-PL-330-1	Z	7.9	7.9	0	0
60	CONN-PL-330-2	Z	7.9	7.9	0	0
61	COR-1	Z	0	0	0	0
62	COR-2	Z	3.6	3.6	0	0
63	COR-3	Z	3.6	3.6	0	0
64	COR-PL-90-1	Z	7.9	7.9	0	0
65	COR-PL-90-2	Z	7.9	7.9	0	0
66	COR-PL-90-3	Z	7.9	7.9	0	0
67	COR-PL-90-4	Z	7.9	7.9	0	0
68	COR-PL-210-1	Z	0	0	0	0
69	COR-PL-210-2	Z	0	0	0	0
70	COR-PL-210-3	Z	0	0	0	0
71	COR-PL-210-4	Z	0	0	0	0
72	COR-PL-330-1	Z	7.9	7.9	0	0
73	COR-PL-330-2	Z	7.9	7.9	0	0
74	COR-PL-330-3	Z	7.9	7.9	0	0
75	COR-PL-330-4	Z	7.9	7.9	0	0
76	FM-0	Z	4.6	4.6	0	0
77	FM-120	Z	0	0	0	0
78	FM-240	Z	4.6	4.6	0	0
79	GRATE-H-90-1	Z	4.4	4.4	0	0
80	GRATE-H-90-2	Z	4.4	4.4	0	0
81	GRATE-H-210-1	Z	0	0	0	0
82	GRATE-H-210-2	Z	0	0	0	0
83	GRATE-H-330-1	Z	4.4	4.4	0	0
84	GRATE-H-330-2	Z	4.4	4.4	0	0
85	HR-0	Z	3.1	3.1	0	0
86	HR-120	Z	0	0	0	0
87	HR-240	Z	3.1	3.1	0	0
88	SA-1	Z	5.4	5.4	0	0

Member Distributed Loads (BLC 3 : Wind Load (30 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
89	SA-2	Z	2.7	2.7	0	0
90	SA-3	Z	2.7	2.7	0	0

Member Distributed Loads (BLC 4 : Wind Load (60 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	2.7	2.7	0	0
2	BRACE-2	X	5.3	5.3	0	0
3	BRACE-3	X	2.7	2.7	0	0
4	CONN-PL-60-1	X	0	0	0	0
5	CONN-PL-60-2	X	0	0	0	0
6	CONN-PL-90-1	X	4.5	4.5	0	0
7	CONN-PL-90-2	X	4.5	4.5	0	0
8	CONN-PL-180-1	X	7.9	7.9	0	0
9	CONN-PL-180-2	X	7.9	7.9	0	0
10	CONN-PL-210-1	X	4.5	4.5	0	0
11	CONN-PL-210-2	X	4.5	4.5	0	0
12	CONN-PL-300-1	X	7.9	7.9	0	0
13	CONN-PL-300-2	X	7.9	7.9	0	0
14	CONN-PL-330-1	X	9.1	9.1	0	0
15	CONN-PL-330-2	X	9.1	9.1	0	0
16	COR-1	X	2.1	2.1	0	0
17	COR-2	X	4.2	4.2	0	0
18	COR-3	X	2.1	2.1	0	0
19	COR-PL-90-1	X	4.5	4.5	0	0
20	COR-PL-90-2	X	4.5	4.5	0	0
21	COR-PL-90-3	X	4.5	4.5	0	0
22	COR-PL-90-4	X	4.5	4.5	0	0
23	COR-PL-210-1	X	4.5	4.5	0	0
24	COR-PL-210-2	X	4.5	4.5	0	0
25	COR-PL-210-3	X	4.5	4.5	0	0
26	COR-PL-210-4	X	4.5	4.5	0	0
27	COR-PL-330-1	X	9.1	9.1	0	0
28	COR-PL-330-2	X	9.1	9.1	0	0
29	COR-PL-330-3	X	9.1	9.1	0	0
30	COR-PL-330-4	X	9.1	9.1	0	0
31	FM-0	X	2.6	2.6	0	0
32	FM-120	X	2.6	2.6	0	0
33	FM-240	X	5.3	5.3	0	0
34	GRATE-H-90-1	X	2.5	2.5	0	0
35	GRATE-H-90-2	X	2.5	2.5	0	0
36	GRATE-H-210-1	X	2.5	2.5	0	0
37	GRATE-H-210-2	X	2.5	2.5	0	0
38	GRATE-H-330-1	X	5	5	0	0
39	GRATE-H-330-2	X	5	5	0	0
40	HR-0	X	1.8	1.8	0	0
41	HR-120	X	1.8	1.8	0	0
42	HR-240	X	3.6	3.6	0	0
43	SA-1	X	4.7	4.7	0	0
44	SA-2	X	0	0	0	0
45	SA-3	X	4.7	4.7	0	0
46	BRACE-1	Z	4.6	4.6	0	0
47	BRACE-2	Z	9.2	9.2	0	0
48	BRACE-3	Z	4.6	4.6	0	0
49	CONN-PL-60-1	Z	0	0	0	0
50	CONN-PL-60-2	Z	0	0	0	0
51	CONN-PL-90-1	Z	7.9	7.9	0	0

Member Distributed Loads (BLC 4 : Wind Load (60 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
52	CONN-PL-90-2	Z	7.9	7.9	0	0
53	CONN-PL-180-1	Z	13.6	13.6	0	0
54	CONN-PL-180-2	Z	13.6	13.6	0	0
55	CONN-PL-210-1	Z	7.9	7.9	0	0
56	CONN-PL-210-2	Z	7.9	7.9	0	0
57	CONN-PL-300-1	Z	13.6	13.6	0	0
58	CONN-PL-300-2	Z	13.6	13.6	0	0
59	CONN-PL-330-1	Z	15.7	15.7	0	0
60	CONN-PL-330-2	Z	15.7	15.7	0	0
61	COR-1	Z	3.6	3.6	0	0
62	COR-2	Z	7.2	7.2	0	0
63	COR-3	Z	3.6	3.6	0	0
64	COR-PL-90-1	Z	7.9	7.9	0	0
65	COR-PL-90-2	Z	7.9	7.9	0	0
66	COR-PL-90-3	Z	7.9	7.9	0	0
67	COR-PL-90-4	Z	7.9	7.9	0	0
68	COR-PL-210-1	Z	7.9	7.9	0	0
69	COR-PL-210-2	Z	7.9	7.9	0	0
70	COR-PL-210-3	Z	7.9	7.9	0	0
71	COR-PL-210-4	Z	7.9	7.9	0	0
72	COR-PL-330-1	Z	15.7	15.7	0	0
73	COR-PL-330-2	Z	15.7	15.7	0	0
74	COR-PL-330-3	Z	15.7	15.7	0	0
75	COR-PL-330-4	Z	15.7	15.7	0	0
76	FM-0	Z	4.6	4.6	0	0
77	FM-120	Z	4.6	4.6	0	0
78	FM-240	Z	9.2	9.2	0	0
79	GRATE-H-90-1	Z	4.4	4.4	0	0
80	GRATE-H-90-2	Z	4.4	4.4	0	0
81	GRATE-H-210-1	Z	4.4	4.4	0	0
82	GRATE-H-210-2	Z	4.4	4.4	0	0
83	GRATE-H-330-1	Z	8.7	8.7	0	0
84	GRATE-H-330-2	Z	8.7	8.7	0	0
85	HR-0	Z	3.1	3.1	0	0
86	HR-120	Z	3.1	3.1	0	0
87	HR-240	Z	6.2	6.2	0	0
88	SA-1	Z	8.1	8.1	0	0
89	SA-2	Z	0	0	0	0
90	SA-3	Z	8.1	8.1	0	0

Member Distributed Loads (BLC 5 : Wind Load (90 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	0	0	0	0
4	CONN-PL-60-1	X	0	0	0	0
5	CONN-PL-60-2	X	0	0	0	0
6	CONN-PL-90-1	X	0	0	0	0
7	CONN-PL-90-2	X	0	0	0	0
8	CONN-PL-180-1	X	0	0	0	0
9	CONN-PL-180-2	X	0	0	0	0
10	CONN-PL-210-1	X	0	0	0	0
11	CONN-PL-210-2	X	0	0	0	0
12	CONN-PL-300-1	X	0	0	0	0
13	CONN-PL-300-2	X	0	0	0	0
14	CONN-PL-330-1	X	0	0	0	0

Member Distributed Loads (BLC 5 : Wind Load (90 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
15	CONN-PL-330-2	X	0	0	0	0
16	COR-1	X	0	0	0	0
17	COR-2	X	0	0	0	0
18	COR-3	X	0	0	0	0
19	COR-PL-90-1	X	0	0	0	0
20	COR-PL-90-2	X	0	0	0	0
21	COR-PL-90-3	X	0	0	0	0
22	COR-PL-90-4	X	0	0	0	0
23	COR-PL-210-1	X	0	0	0	0
24	COR-PL-210-2	X	0	0	0	0
25	COR-PL-210-3	X	0	0	0	0
26	COR-PL-210-4	X	0	0	0	0
27	COR-PL-330-1	X	0	0	0	0
28	COR-PL-330-2	X	0	0	0	0
29	COR-PL-330-3	X	0	0	0	0
30	COR-PL-330-4	X	0	0	0	0
31	FM-0	X	0	0	0	0
32	FM-120	X	0	0	0	0
33	FM-240	X	0	0	0	0
34	GRATE-H-90-1	X	0	0	0	0
35	GRATE-H-90-2	X	0	0	0	0
36	GRATE-H-210-1	X	0	0	0	0
37	GRATE-H-210-2	X	0	0	0	0
38	GRATE-H-330-1	X	0	0	0	0
39	GRATE-H-330-2	X	0	0	0	0
40	HR-0	X	0	0	0	0
41	HR-120	X	0	0	0	0
42	HR-240	X	0	0	0	0
43	SA-1	X	0	0	0	0
44	SA-2	X	0	0	0	0
45	SA-3	X	0	0	0	0
46	BRACE-1	Z	9.2	9.2	0	0
47	BRACE-2	Z	9.2	9.2	0	0
48	BRACE-3	Z	0	0	0	0
49	CONN-PL-60-1	Z	9.1	9.1	0	0
50	CONN-PL-60-2	Z	9.1	9.1	0	0
51	CONN-PL-90-1	Z	0	0	0	0
52	CONN-PL-90-2	Z	0	0	0	0
53	CONN-PL-180-1	Z	18.2	18.2	0	0
54	CONN-PL-180-2	Z	18.2	18.2	0	0
55	CONN-PL-210-1	Z	15.7	15.7	0	0
56	CONN-PL-210-2	Z	15.7	15.7	0	0
57	CONN-PL-300-1	Z	9.1	9.1	0	0
58	CONN-PL-300-2	Z	9.1	9.1	0	0
59	CONN-PL-330-1	Z	15.7	15.7	0	0
60	CONN-PL-330-2	Z	15.7	15.7	0	0
61	COR-1	Z	7.2	7.2	0	0
62	COR-2	Z	7.2	7.2	0	0
63	COR-3	Z	0	0	0	0
64	COR-PL-90-1	Z	0	0	0	0
65	COR-PL-90-2	Z	0	0	0	0
66	COR-PL-90-3	Z	0	0	0	0
67	COR-PL-90-4	Z	0	0	0	0
68	COR-PL-210-1	Z	15.7	15.7	0	0
69	COR-PL-210-2	Z	15.7	15.7	0	0
70	COR-PL-210-3	Z	15.7	15.7	0	0
71	COR-PL-210-4	Z	15.7	15.7	0	0

Member Distributed Loads (BLC 5 : Wind Load (90 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
72	COR-PL-330-1	Z	15.7	15.7	0	0
73	COR-PL-330-2	Z	15.7	15.7	0	0
74	COR-PL-330-3	Z	15.7	15.7	0	0
75	COR-PL-330-4	Z	15.7	15.7	0	0
76	FM-0	Z	0	0	0	0
77	FM-120	Z	9.2	9.2	0	0
78	FM-240	Z	9.2	9.2	0	0
79	GRATE-H-90-1	Z	0	0	0	0
80	GRATE-H-90-2	Z	0	0	0	0
81	GRATE-H-210-1	Z	8.7	8.7	0	0
82	GRATE-H-210-2	Z	8.7	8.7	0	0
83	GRATE-H-330-1	Z	8.7	8.7	0	0
84	GRATE-H-330-2	Z	8.7	8.7	0	0
85	HR-0	Z	0	0	0	0
86	HR-120	Z	6.2	6.2	0	0
87	HR-240	Z	6.2	6.2	0	0
88	SA-1	Z	5.4	5.4	0	0
89	SA-2	Z	5.4	5.4	0	0
90	SA-3	Z	10.8	10.8	0	0

Member Distributed Loads (BLC 6 : Wind Load (120 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-5.3	-5.3	0	0
2	BRACE-2	X	-2.7	-2.7	0	0
3	BRACE-3	X	-2.7	-2.7	0	0
4	CONN-PL-60-1	X	-7.9	-7.9	0	0
5	CONN-PL-60-2	X	-7.9	-7.9	0	0
6	CONN-PL-90-1	X	-4.5	-4.5	0	0
7	CONN-PL-90-2	X	-4.5	-4.5	0	0
8	CONN-PL-180-1	X	-7.9	-7.9	0	0
9	CONN-PL-180-2	X	-7.9	-7.9	0	0
10	CONN-PL-210-1	X	-9.1	-9.1	0	0
11	CONN-PL-210-2	X	-9.1	-9.1	0	0
12	CONN-PL-300-1	X	0	0	0	0
13	CONN-PL-300-2	X	0	0	0	0
14	CONN-PL-330-1	X	-4.5	-4.5	0	0
15	CONN-PL-330-2	X	-4.5	-4.5	0	0
16	COR-1	X	-4.2	-4.2	0	0
17	COR-2	X	-2.1	-2.1	0	0
18	COR-3	X	-2.1	-2.1	0	0
19	COR-PL-90-1	X	-4.5	-4.5	0	0
20	COR-PL-90-2	X	-4.5	-4.5	0	0
21	COR-PL-90-3	X	-4.5	-4.5	0	0
22	COR-PL-90-4	X	-4.5	-4.5	0	0
23	COR-PL-210-1	X	-9.1	-9.1	0	0
24	COR-PL-210-2	X	-9.1	-9.1	0	0
25	COR-PL-210-3	X	-9.1	-9.1	0	0
26	COR-PL-210-4	X	-9.1	-9.1	0	0
27	COR-PL-330-1	X	-4.5	-4.5	0	0
28	COR-PL-330-2	X	-4.5	-4.5	0	0
29	COR-PL-330-3	X	-4.5	-4.5	0	0
30	COR-PL-330-4	X	-4.5	-4.5	0	0
31	FM-0	X	-2.6	-2.6	0	0
32	FM-120	X	-5.3	-5.3	0	0
33	FM-240	X	-2.6	-2.6	0	0
34	GRATE-H-90-1	X	-2.5	-2.5	0	0

Member Distributed Loads (BLC 6 : Wind Load (120 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
35	GRATE-H-90-2	X	-2.5	-2.5	0	0
36	GRATE-H-210-1	X	-5	-5	0	0
37	GRATE-H-210-2	X	-5	-5	0	0
38	GRATE-H-330-1	X	-2.5	-2.5	0	0
39	GRATE-H-330-2	X	-2.5	-2.5	0	0
40	HR-0	X	-1.8	-1.8	0	0
41	HR-120	X	-3.6	-3.6	0	0
42	HR-240	X	-1.8	-1.8	0	0
43	SA-1	X	0	0	0	0
44	SA-2	X	-4.7	-4.7	0	0
45	SA-3	X	-4.7	-4.7	0	0
46	BRACE-1	Z	9.2	9.2	0	0
47	BRACE-2	Z	4.6	4.6	0	0
48	BRACE-3	Z	4.6	4.6	0	0
49	CONN-PL-60-1	Z	13.6	13.6	0	0
50	CONN-PL-60-2	Z	13.6	13.6	0	0
51	CONN-PL-90-1	Z	7.9	7.9	0	0
52	CONN-PL-90-2	Z	7.9	7.9	0	0
53	CONN-PL-180-1	Z	13.6	13.6	0	0
54	CONN-PL-180-2	Z	13.6	13.6	0	0
55	CONN-PL-210-1	Z	15.7	15.7	0	0
56	CONN-PL-210-2	Z	15.7	15.7	0	0
57	CONN-PL-300-1	Z	0	0	0	0
58	CONN-PL-300-2	Z	0	0	0	0
59	CONN-PL-330-1	Z	7.9	7.9	0	0
60	CONN-PL-330-2	Z	7.9	7.9	0	0
61	COR-1	Z	7.2	7.2	0	0
62	COR-2	Z	3.6	3.6	0	0
63	COR-3	Z	3.6	3.6	0	0
64	COR-PL-90-1	Z	7.9	7.9	0	0
65	COR-PL-90-2	Z	7.9	7.9	0	0
66	COR-PL-90-3	Z	7.9	7.9	0	0
67	COR-PL-90-4	Z	7.9	7.9	0	0
68	COR-PL-210-1	Z	15.7	15.7	0	0
69	COR-PL-210-2	Z	15.7	15.7	0	0
70	COR-PL-210-3	Z	15.7	15.7	0	0
71	COR-PL-210-4	Z	15.7	15.7	0	0
72	COR-PL-330-1	Z	7.9	7.9	0	0
73	COR-PL-330-2	Z	7.9	7.9	0	0
74	COR-PL-330-3	Z	7.9	7.9	0	0
75	COR-PL-330-4	Z	7.9	7.9	0	0
76	FM-0	Z	4.6	4.6	0	0
77	FM-120	Z	9.2	9.2	0	0
78	FM-240	Z	4.6	4.6	0	0
79	GRATE-H-90-1	Z	4.4	4.4	0	0
80	GRATE-H-90-2	Z	4.4	4.4	0	0
81	GRATE-H-210-1	Z	8.7	8.7	0	0
82	GRATE-H-210-2	Z	8.7	8.7	0	0
83	GRATE-H-330-1	Z	4.4	4.4	0	0
84	GRATE-H-330-2	Z	4.4	4.4	0	0
85	HR-0	Z	3.1	3.1	0	0
86	HR-120	Z	6.2	6.2	0	0
87	HR-240	Z	3.1	3.1	0	0
88	SA-1	Z	0	0	0	0
89	SA-2	Z	8.1	8.1	0	0
90	SA-3	Z	8.1	8.1	0	0

Member Distributed Loads (BLC 7 : Wind Load (150 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-8	-8	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	-8	-8	0	0
4	CONN-PL-60-1	X	-15.7	-15.7	0	0
5	CONN-PL-60-2	X	-15.7	-15.7	0	0
6	CONN-PL-90-1	X	-13.6	-13.6	0	0
7	CONN-PL-90-2	X	-13.6	-13.6	0	0
8	CONN-PL-180-1	X	-7.9	-7.9	0	0
9	CONN-PL-180-2	X	-7.9	-7.9	0	0
10	CONN-PL-210-1	X	-13.6	-13.6	0	0
11	CONN-PL-210-2	X	-13.6	-13.6	0	0
12	CONN-PL-300-1	X	-7.9	-7.9	0	0
13	CONN-PL-300-2	X	-7.9	-7.9	0	0
14	CONN-PL-330-1	X	0	0	0	0
15	CONN-PL-330-2	X	0	0	0	0
16	COR-1	X	-6.2	-6.2	0	0
17	COR-2	X	0	0	0	0
18	COR-3	X	-6.2	-6.2	0	0
19	COR-PL-90-1	X	-13.6	-13.6	0	0
20	COR-PL-90-2	X	-13.6	-13.6	0	0
21	COR-PL-90-3	X	-13.6	-13.6	0	0
22	COR-PL-90-4	X	-13.6	-13.6	0	0
23	COR-PL-210-1	X	-13.6	-13.6	0	0
24	COR-PL-210-2	X	-13.6	-13.6	0	0
25	COR-PL-210-3	X	-13.6	-13.6	0	0
26	COR-PL-210-4	X	-13.6	-13.6	0	0
27	COR-PL-330-1	X	0	0	0	0
28	COR-PL-330-2	X	0	0	0	0
29	COR-PL-330-3	X	0	0	0	0
30	COR-PL-330-4	X	0	0	0	0
31	FM-0	X	-7.9	-7.9	0	0
32	FM-120	X	-7.9	-7.9	0	0
33	FM-240	X	0	0	0	0
34	GRATE-H-90-1	X	-7.6	-7.6	0	0
35	GRATE-H-90-2	X	-7.6	-7.6	0	0
36	GRATE-H-210-1	X	-7.6	-7.6	0	0
37	GRATE-H-210-2	X	-7.6	-7.6	0	0
38	GRATE-H-330-1	X	0	0	0	0
39	GRATE-H-330-2	X	0	0	0	0
40	HR-0	X	-5.4	-5.4	0	0
41	HR-120	X	-5.4	-5.4	0	0
42	HR-240	X	0	0	0	0
43	SA-1	X	-4.7	-4.7	0	0
44	SA-2	X	-9.3	-9.3	0	0
45	SA-3	X	-4.7	-4.7	0	0
46	BRACE-1	Z	4.6	4.6	0	0
47	BRACE-2	Z	0	0	0	0
48	BRACE-3	Z	4.6	4.6	0	0
49	CONN-PL-60-1	Z	9.1	9.1	0	0
50	CONN-PL-60-2	Z	9.1	9.1	0	0
51	CONN-PL-90-1	Z	7.9	7.9	0	0
52	CONN-PL-90-2	Z	7.9	7.9	0	0
53	CONN-PL-180-1	Z	4.5	4.5	0	0
54	CONN-PL-180-2	Z	4.5	4.5	0	0
55	CONN-PL-210-1	Z	7.9	7.9	0	0
56	CONN-PL-210-2	Z	7.9	7.9	0	0
57	CONN-PL-300-1	Z	4.5	4.5	0	0

Member Distributed Loads (BLC 7 : Wind Load (150 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
58	CONN-PL-300-2	Z	4.5	4.5	0	0
59	CONN-PL-330-1	Z	0	0	0	0
60	CONN-PL-330-2	Z	0	0	0	0
61	COR-1	Z	3.6	3.6	0	0
62	COR-2	Z	0	0	0	0
63	COR-3	Z	3.6	3.6	0	0
64	COR-PL-90-1	Z	7.9	7.9	0	0
65	COR-PL-90-2	Z	7.9	7.9	0	0
66	COR-PL-90-3	Z	7.9	7.9	0	0
67	COR-PL-90-4	Z	7.9	7.9	0	0
68	COR-PL-210-1	Z	7.9	7.9	0	0
69	COR-PL-210-2	Z	7.9	7.9	0	0
70	COR-PL-210-3	Z	7.9	7.9	0	0
71	COR-PL-210-4	Z	7.9	7.9	0	0
72	COR-PL-330-1	Z	0	0	0	0
73	COR-PL-330-2	Z	0	0	0	0
74	COR-PL-330-3	Z	0	0	0	0
75	COR-PL-330-4	Z	0	0	0	0
76	FM-0	Z	4.6	4.6	0	0
77	FM-120	Z	4.6	4.6	0	0
78	FM-240	Z	0	0	0	0
79	GRATE-H-90-1	Z	4.4	4.4	0	0
80	GRATE-H-90-2	Z	4.4	4.4	0	0
81	GRATE-H-210-1	Z	4.4	4.4	0	0
82	GRATE-H-210-2	Z	4.4	4.4	0	0
83	GRATE-H-330-1	Z	0	0	0	0
84	GRATE-H-330-2	Z	0	0	0	0
85	HR-0	Z	3.1	3.1	0	0
86	HR-120	Z	3.1	3.1	0	0
87	HR-240	Z	0	0	0	0
88	SA-1	Z	2.7	2.7	0	0
89	SA-2	Z	5.4	5.4	0	0
90	SA-3	Z	2.7	2.7	0	0

Member Distributed Loads (BLC 8 : Wind Load (180 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-5.3	-5.3	0	0
2	BRACE-2	X	-5.3	-5.3	0	0
3	BRACE-3	X	-10.6	-10.6	0	0
4	CONN-PL-60-1	X	-15.7	-15.7	0	0
5	CONN-PL-60-2	X	-15.7	-15.7	0	0
6	CONN-PL-90-1	X	-18.2	-18.2	0	0
7	CONN-PL-90-2	X	-18.2	-18.2	0	0
8	CONN-PL-180-1	X	0	0	0	0
9	CONN-PL-180-2	X	0	0	0	0
10	CONN-PL-210-1	X	-9.1	-9.1	0	0
11	CONN-PL-210-2	X	-9.1	-9.1	0	0
12	CONN-PL-300-1	X	-15.7	-15.7	0	0
13	CONN-PL-300-2	X	-15.7	-15.7	0	0
14	CONN-PL-330-1	X	-9.1	-9.1	0	0
15	CONN-PL-330-2	X	-9.1	-9.1	0	0
16	COR-1	X	-4.2	-4.2	0	0
17	COR-2	X	-4.2	-4.2	0	0
18	COR-3	X	-8.3	-8.3	0	0
19	COR-PL-90-1	X	-18.2	-18.2	0	0
20	COR-PL-90-2	X	-18.2	-18.2	0	0

Member Distributed Loads (BLC 8 : Wind Load (180 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
21	COR-PL-90-3	X	-18.2	-18.2	0	0
22	COR-PL-90-4	X	-18.2	-18.2	0	0
23	COR-PL-210-1	X	-9.1	-9.1	0	0
24	COR-PL-210-2	X	-9.1	-9.1	0	0
25	COR-PL-210-3	X	-9.1	-9.1	0	0
26	COR-PL-210-4	X	-9.1	-9.1	0	0
27	COR-PL-330-1	X	-9.1	-9.1	0	0
28	COR-PL-330-2	X	-9.1	-9.1	0	0
29	COR-PL-330-3	X	-9.1	-9.1	0	0
30	COR-PL-330-4	X	-9.1	-9.1	0	0
31	FM-0	X	-10.6	-10.6	0	0
32	FM-120	X	-5.3	-5.3	0	0
33	FM-240	X	-5.3	-5.3	0	0
34	GRATE-H-90-1	X	-10.1	-10.1	0	0
35	GRATE-H-90-2	X	-10.1	-10.1	0	0
36	GRATE-H-210-1	X	-5	-5	0	0
37	GRATE-H-210-2	X	-5	-5	0	0
38	GRATE-H-330-1	X	-5	-5	0	0
39	GRATE-H-330-2	X	-5	-5	0	0
40	HR-0	X	-7.2	-7.2	0	0
41	HR-120	X	-3.6	-3.6	0	0
42	HR-240	X	-3.6	-3.6	0	0
43	SA-1	X	-9.3	-9.3	0	0
44	SA-2	X	-9.3	-9.3	0	0
45	SA-3	X	0	0	0	0
46	BRACE-1	Z	0	0	0	0
47	BRACE-2	Z	0	0	0	0
48	BRACE-3	Z	0	0	0	0
49	CONN-PL-60-1	Z	0	0	0	0
50	CONN-PL-60-2	Z	0	0	0	0
51	CONN-PL-90-1	Z	0	0	0	0
52	CONN-PL-90-2	Z	0	0	0	0
53	CONN-PL-180-1	Z	0	0	0	0
54	CONN-PL-180-2	Z	0	0	0	0
55	CONN-PL-210-1	Z	0	0	0	0
56	CONN-PL-210-2	Z	0	0	0	0
57	CONN-PL-300-1	Z	0	0	0	0
58	CONN-PL-300-2	Z	0	0	0	0
59	CONN-PL-330-1	Z	0	0	0	0
60	CONN-PL-330-2	Z	0	0	0	0
61	COR-1	Z	0	0	0	0
62	COR-2	Z	0	0	0	0
63	COR-3	Z	0	0	0	0
64	COR-PL-90-1	Z	0	0	0	0
65	COR-PL-90-2	Z	0	0	0	0
66	COR-PL-90-3	Z	0	0	0	0
67	COR-PL-90-4	Z	0	0	0	0
68	COR-PL-210-1	Z	0	0	0	0
69	COR-PL-210-2	Z	0	0	0	0
70	COR-PL-210-3	Z	0	0	0	0
71	COR-PL-210-4	Z	0	0	0	0
72	COR-PL-330-1	Z	0	0	0	0
73	COR-PL-330-2	Z	0	0	0	0
74	COR-PL-330-3	Z	0	0	0	0
75	COR-PL-330-4	Z	0	0	0	0
76	FM-0	Z	0	0	0	0
77	FM-120	Z	0	0	0	0

Member Distributed Loads (BLC 8 : Wind Load (180 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
78	FM-240	Z	0	0	0	0
79	GRATE-H-90-1	Z	0	0	0	0
80	GRATE-H-90-2	Z	0	0	0	0
81	GRATE-H-210-1	Z	0	0	0	0
82	GRATE-H-210-2	Z	0	0	0	0
83	GRATE-H-330-1	Z	0	0	0	0
84	GRATE-H-330-2	Z	0	0	0	0
85	HR-0	Z	0	0	0	0
86	HR-120	Z	0	0	0	0
87	HR-240	Z	0	0	0	0
88	SA-1	Z	0	0	0	0
89	SA-2	Z	0	0	0	0
90	SA-3	Z	0	0	0	0

Member Distributed Loads (BLC 9 : Wind Load (210 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	-8	-8	0	0
3	BRACE-3	X	-8	-8	0	0
4	CONN-PL-60-1	X	-7.9	-7.9	0	0
5	CONN-PL-60-2	X	-7.9	-7.9	0	0
6	CONN-PL-90-1	X	-13.6	-13.6	0	0
7	CONN-PL-90-2	X	-13.6	-13.6	0	0
8	CONN-PL-180-1	X	-7.9	-7.9	0	0
9	CONN-PL-180-2	X	-7.9	-7.9	0	0
10	CONN-PL-210-1	X	0	0	0	0
11	CONN-PL-210-2	X	0	0	0	0
12	CONN-PL-300-1	X	-15.7	-15.7	0	0
13	CONN-PL-300-2	X	-15.7	-15.7	0	0
14	CONN-PL-330-1	X	-13.6	-13.6	0	0
15	CONN-PL-330-2	X	-13.6	-13.6	0	0
16	COR-1	X	0	0	0	0
17	COR-2	X	-6.2	-6.2	0	0
18	COR-3	X	-6.2	-6.2	0	0
19	COR-PL-90-1	X	-13.6	-13.6	0	0
20	COR-PL-90-2	X	-13.6	-13.6	0	0
21	COR-PL-90-3	X	-13.6	-13.6	0	0
22	COR-PL-90-4	X	-13.6	-13.6	0	0
23	COR-PL-210-1	X	0	0	0	0
24	COR-PL-210-2	X	0	0	0	0
25	COR-PL-210-3	X	0	0	0	0
26	COR-PL-210-4	X	0	0	0	0
27	COR-PL-330-1	X	-13.6	-13.6	0	0
28	COR-PL-330-2	X	-13.6	-13.6	0	0
29	COR-PL-330-3	X	-13.6	-13.6	0	0
30	COR-PL-330-4	X	-13.6	-13.6	0	0
31	FM-0	X	-7.9	-7.9	0	0
32	FM-120	X	0	0	0	0
33	FM-240	X	-7.9	-7.9	0	0
34	GRATE-H-90-1	X	-7.6	-7.6	0	0
35	GRATE-H-90-2	X	-7.6	-7.6	0	0
36	GRATE-H-210-1	X	0	0	0	0
37	GRATE-H-210-2	X	0	0	0	0
38	GRATE-H-330-1	X	-7.6	-7.6	0	0
39	GRATE-H-330-2	X	-7.6	-7.6	0	0
40	HR-0	X	-5.4	-5.4	0	0

Member Distributed Loads (BLC 9 : Wind Load (210 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
41	HR-120	X	0	0	0	0
42	HR-240	X	-5.4	-5.4	0	0
43	SA-1	X	-9.3	-9.3	0	0
44	SA-2	X	-4.7	-4.7	0	0
45	SA-3	X	-4.7	-4.7	0	0
46	BRACE-1	Z	0	0	0	0
47	BRACE-2	Z	-4.6	-4.6	0	0
48	BRACE-3	Z	-4.6	-4.6	0	0
49	CONN-PL-60-1	Z	-4.5	-4.5	0	0
50	CONN-PL-60-2	Z	-4.5	-4.5	0	0
51	CONN-PL-90-1	Z	-7.9	-7.9	0	0
52	CONN-PL-90-2	Z	-7.9	-7.9	0	0
53	CONN-PL-180-1	Z	-4.5	-4.5	0	0
54	CONN-PL-180-2	Z	-4.5	-4.5	0	0
55	CONN-PL-210-1	Z	0	0	0	0
56	CONN-PL-210-2	Z	0	0	0	0
57	CONN-PL-300-1	Z	-9.1	-9.1	0	0
58	CONN-PL-300-2	Z	-9.1	-9.1	0	0
59	CONN-PL-330-1	Z	-7.9	-7.9	0	0
60	CONN-PL-330-2	Z	-7.9	-7.9	0	0
61	COR-1	Z	0	0	0	0
62	COR-2	Z	-3.6	-3.6	0	0
63	COR-3	Z	-3.6	-3.6	0	0
64	COR-PL-90-1	Z	-7.9	-7.9	0	0
65	COR-PL-90-2	Z	-7.9	-7.9	0	0
66	COR-PL-90-3	Z	-7.9	-7.9	0	0
67	COR-PL-90-4	Z	-7.9	-7.9	0	0
68	COR-PL-210-1	Z	0	0	0	0
69	COR-PL-210-2	Z	0	0	0	0
70	COR-PL-210-3	Z	0	0	0	0
71	COR-PL-210-4	Z	0	0	0	0
72	COR-PL-330-1	Z	-7.9	-7.9	0	0
73	COR-PL-330-2	Z	-7.9	-7.9	0	0
74	COR-PL-330-3	Z	-7.9	-7.9	0	0
75	COR-PL-330-4	Z	-7.9	-7.9	0	0
76	FM-0	Z	-4.6	-4.6	0	0
77	FM-120	Z	0	0	0	0
78	FM-240	Z	-4.6	-4.6	0	0
79	GRATE-H-90-1	Z	-4.4	-4.4	0	0
80	GRATE-H-90-2	Z	-4.4	-4.4	0	0
81	GRATE-H-210-1	Z	0	0	0	0
82	GRATE-H-210-2	Z	0	0	0	0
83	GRATE-H-330-1	Z	-4.4	-4.4	0	0
84	GRATE-H-330-2	Z	-4.4	-4.4	0	0
85	HR-0	Z	-3.1	-3.1	0	0
86	HR-120	Z	0	0	0	0
87	HR-240	Z	-3.1	-3.1	0	0
88	SA-1	Z	-5.4	-5.4	0	0
89	SA-2	Z	-2.7	-2.7	0	0
90	SA-3	Z	-2.7	-2.7	0	0

Member Distributed Loads (BLC 10 : Wind Load (240 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-2.7	-2.7	0	0
2	BRACE-2	X	-5.3	-5.3	0	0
3	BRACE-3	X	-2.7	-2.7	0	0

Member Distributed Loads (BLC 10 : Wind Load (240 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
4	CONN-PL-60-1	X	0	0	0	0
5	CONN-PL-60-2	X	0	0	0	0
6	CONN-PL-90-1	X	-4.5	-4.5	0	0
7	CONN-PL-90-2	X	-4.5	-4.5	0	0
8	CONN-PL-180-1	X	-7.9	-7.9	0	0
9	CONN-PL-180-2	X	-7.9	-7.9	0	0
10	CONN-PL-210-1	X	-4.5	-4.5	0	0
11	CONN-PL-210-2	X	-4.5	-4.5	0	0
12	CONN-PL-300-1	X	-7.9	-7.9	0	0
13	CONN-PL-300-2	X	-7.9	-7.9	0	0
14	CONN-PL-330-1	X	-9.1	-9.1	0	0
15	CONN-PL-330-2	X	-9.1	-9.1	0	0
16	COR-1	X	-2.1	-2.1	0	0
17	COR-2	X	-4.2	-4.2	0	0
18	COR-3	X	-2.1	-2.1	0	0
19	COR-PL-90-1	X	-4.5	-4.5	0	0
20	COR-PL-90-2	X	-4.5	-4.5	0	0
21	COR-PL-90-3	X	-4.5	-4.5	0	0
22	COR-PL-90-4	X	-4.5	-4.5	0	0
23	COR-PL-210-1	X	-4.5	-4.5	0	0
24	COR-PL-210-2	X	-4.5	-4.5	0	0
25	COR-PL-210-3	X	-4.5	-4.5	0	0
26	COR-PL-210-4	X	-4.5	-4.5	0	0
27	COR-PL-330-1	X	-9.1	-9.1	0	0
28	COR-PL-330-2	X	-9.1	-9.1	0	0
29	COR-PL-330-3	X	-9.1	-9.1	0	0
30	COR-PL-330-4	X	-9.1	-9.1	0	0
31	FM-0	X	-2.6	-2.6	0	0
32	FM-120	X	-2.6	-2.6	0	0
33	FM-240	X	-5.3	-5.3	0	0
34	GRATE-H-90-1	X	-2.5	-2.5	0	0
35	GRATE-H-90-2	X	-2.5	-2.5	0	0
36	GRATE-H-210-1	X	-2.5	-2.5	0	0
37	GRATE-H-210-2	X	-2.5	-2.5	0	0
38	GRATE-H-330-1	X	-5	-5	0	0
39	GRATE-H-330-2	X	-5	-5	0	0
40	HR-0	X	-1.8	-1.8	0	0
41	HR-120	X	-1.8	-1.8	0	0
42	HR-240	X	-3.6	-3.6	0	0
43	SA-1	X	-4.7	-4.7	0	0
44	SA-2	X	0	0	0	0
45	SA-3	X	-4.7	-4.7	0	0
46	BRACE-1	Z	-4.6	-4.6	0	0
47	BRACE-2	Z	-9.2	-9.2	0	0
48	BRACE-3	Z	-4.6	-4.6	0	0
49	CONN-PL-60-1	Z	0	0	0	0
50	CONN-PL-60-2	Z	0	0	0	0
51	CONN-PL-90-1	Z	-7.9	-7.9	0	0
52	CONN-PL-90-2	Z	-7.9	-7.9	0	0
53	CONN-PL-180-1	Z	-13.6	-13.6	0	0
54	CONN-PL-180-2	Z	-13.6	-13.6	0	0
55	CONN-PL-210-1	Z	-7.9	-7.9	0	0
56	CONN-PL-210-2	Z	-7.9	-7.9	0	0
57	CONN-PL-300-1	Z	-13.6	-13.6	0	0
58	CONN-PL-300-2	Z	-13.6	-13.6	0	0
59	CONN-PL-330-1	Z	-15.7	-15.7	0	0
60	CONN-PL-330-2	Z	-15.7	-15.7	0	0

Member Distributed Loads (BLC 10 : Wind Load (240 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
61	COR-1	Z	-3.6	-3.6	0	0
62	COR-2	Z	-7.2	-7.2	0	0
63	COR-3	Z	-3.6	-3.6	0	0
64	COR-PL-90-1	Z	-7.9	-7.9	0	0
65	COR-PL-90-2	Z	-7.9	-7.9	0	0
66	COR-PL-90-3	Z	-7.9	-7.9	0	0
67	COR-PL-90-4	Z	-7.9	-7.9	0	0
68	COR-PL-210-1	Z	-7.9	-7.9	0	0
69	COR-PL-210-2	Z	-7.9	-7.9	0	0
70	COR-PL-210-3	Z	-7.9	-7.9	0	0
71	COR-PL-210-4	Z	-7.9	-7.9	0	0
72	COR-PL-330-1	Z	-15.7	-15.7	0	0
73	COR-PL-330-2	Z	-15.7	-15.7	0	0
74	COR-PL-330-3	Z	-15.7	-15.7	0	0
75	COR-PL-330-4	Z	-15.7	-15.7	0	0
76	FM-0	Z	-4.6	-4.6	0	0
77	FM-120	Z	-4.6	-4.6	0	0
78	FM-240	Z	-9.2	-9.2	0	0
79	GRATE-H-90-1	Z	-4.4	-4.4	0	0
80	GRATE-H-90-2	Z	-4.4	-4.4	0	0
81	GRATE-H-210-1	Z	-4.4	-4.4	0	0
82	GRATE-H-210-2	Z	-4.4	-4.4	0	0
83	GRATE-H-330-1	Z	-8.7	-8.7	0	0
84	GRATE-H-330-2	Z	-8.7	-8.7	0	0
85	HR-0	Z	-3.1	-3.1	0	0
86	HR-120	Z	-3.1	-3.1	0	0
87	HR-240	Z	-6.2	-6.2	0	0
88	SA-1	Z	-8.1	-8.1	0	0
89	SA-2	Z	0	0	0	0
90	SA-3	Z	-8.1	-8.1	0	0

Member Distributed Loads (BLC 11 : Wind Load (270 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	0	0	0	0
4	CONN-PL-60-1	X	0	0	0	0
5	CONN-PL-60-2	X	0	0	0	0
6	CONN-PL-90-1	X	0	0	0	0
7	CONN-PL-90-2	X	0	0	0	0
8	CONN-PL-180-1	X	0	0	0	0
9	CONN-PL-180-2	X	0	0	0	0
10	CONN-PL-210-1	X	0	0	0	0
11	CONN-PL-210-2	X	0	0	0	0
12	CONN-PL-300-1	X	0	0	0	0
13	CONN-PL-300-2	X	0	0	0	0
14	CONN-PL-330-1	X	0	0	0	0
15	CONN-PL-330-2	X	0	0	0	0
16	COR-1	X	0	0	0	0
17	COR-2	X	0	0	0	0
18	COR-3	X	0	0	0	0
19	COR-PL-90-1	X	0	0	0	0
20	COR-PL-90-2	X	0	0	0	0
21	COR-PL-90-3	X	0	0	0	0
22	COR-PL-90-4	X	0	0	0	0
23	COR-PL-210-1	X	0	0	0	0

Member Distributed Loads (BLC 11 : Wind Load (270 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
24	COR-PL-210-2	X	0	0	0	0
25	COR-PL-210-3	X	0	0	0	0
26	COR-PL-210-4	X	0	0	0	0
27	COR-PL-330-1	X	0	0	0	0
28	COR-PL-330-2	X	0	0	0	0
29	COR-PL-330-3	X	0	0	0	0
30	COR-PL-330-4	X	0	0	0	0
31	FM-0	X	0	0	0	0
32	FM-120	X	0	0	0	0
33	FM-240	X	0	0	0	0
34	GRATE-H-90-1	X	0	0	0	0
35	GRATE-H-90-2	X	0	0	0	0
36	GRATE-H-210-1	X	0	0	0	0
37	GRATE-H-210-2	X	0	0	0	0
38	GRATE-H-330-1	X	0	0	0	0
39	GRATE-H-330-2	X	0	0	0	0
40	HR-0	X	0	0	0	0
41	HR-120	X	0	0	0	0
42	HR-240	X	0	0	0	0
43	SA-1	X	0	0	0	0
44	SA-2	X	0	0	0	0
45	SA-3	X	0	0	0	0
46	BRACE-1	Z	-9.2	-9.2	0	0
47	BRACE-2	Z	-9.2	-9.2	0	0
48	BRACE-3	Z	0	0	0	0
49	CONN-PL-60-1	Z	-9.1	-9.1	0	0
50	CONN-PL-60-2	Z	-9.1	-9.1	0	0
51	CONN-PL-90-1	Z	0	0	0	0
52	CONN-PL-90-2	Z	0	0	0	0
53	CONN-PL-180-1	Z	-18.2	-18.2	0	0
54	CONN-PL-180-2	Z	-18.2	-18.2	0	0
55	CONN-PL-210-1	Z	-15.7	-15.7	0	0
56	CONN-PL-210-2	Z	-15.7	-15.7	0	0
57	CONN-PL-300-1	Z	-9.1	-9.1	0	0
58	CONN-PL-300-2	Z	-9.1	-9.1	0	0
59	CONN-PL-330-1	Z	-15.7	-15.7	0	0
60	CONN-PL-330-2	Z	-15.7	-15.7	0	0
61	COR-1	Z	-7.2	-7.2	0	0
62	COR-2	Z	-7.2	-7.2	0	0
63	COR-3	Z	0	0	0	0
64	COR-PL-90-1	Z	0	0	0	0
65	COR-PL-90-2	Z	0	0	0	0
66	COR-PL-90-3	Z	0	0	0	0
67	COR-PL-90-4	Z	0	0	0	0
68	COR-PL-210-1	Z	-15.7	-15.7	0	0
69	COR-PL-210-2	Z	-15.7	-15.7	0	0
70	COR-PL-210-3	Z	-15.7	-15.7	0	0
71	COR-PL-210-4	Z	-15.7	-15.7	0	0
72	COR-PL-330-1	Z	-15.7	-15.7	0	0
73	COR-PL-330-2	Z	-15.7	-15.7	0	0
74	COR-PL-330-3	Z	-15.7	-15.7	0	0
75	COR-PL-330-4	Z	-15.7	-15.7	0	0
76	FM-0	Z	0	0	0	0
77	FM-120	Z	-9.2	-9.2	0	0
78	FM-240	Z	-9.2	-9.2	0	0
79	GRATE-H-90-1	Z	0	0	0	0
80	GRATE-H-90-2	Z	0	0	0	0

Member Distributed Loads (BLC 11 : Wind Load (270 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
81	GRATE-H-210-1	Z	-8.7	-8.7	0	0
82	GRATE-H-210-2	Z	-8.7	-8.7	0	0
83	GRATE-H-330-1	Z	-8.7	-8.7	0	0
84	GRATE-H-330-2	Z	-8.7	-8.7	0	0
85	HR-0	Z	0	0	0	0
86	HR-120	Z	-6.2	-6.2	0	0
87	HR-240	Z	-6.2	-6.2	0	0
88	SA-1	Z	-5.4	-5.4	0	0
89	SA-2	Z	-5.4	-5.4	0	0
90	SA-3	Z	-10.8	-10.8	0	0

Member Distributed Loads (BLC 12 : Wind Load (300 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	5.3	5.3	0	0
2	BRACE-2	X	2.7	2.7	0	0
3	BRACE-3	X	2.7	2.7	0	0
4	CONN-PL-60-1	X	7.9	7.9	0	0
5	CONN-PL-60-2	X	7.9	7.9	0	0
6	CONN-PL-90-1	X	4.5	4.5	0	0
7	CONN-PL-90-2	X	4.5	4.5	0	0
8	CONN-PL-180-1	X	7.9	7.9	0	0
9	CONN-PL-180-2	X	7.9	7.9	0	0
10	CONN-PL-210-1	X	9.1	9.1	0	0
11	CONN-PL-210-2	X	9.1	9.1	0	0
12	CONN-PL-300-1	X	0	0	0	0
13	CONN-PL-300-2	X	0	0	0	0
14	CONN-PL-330-1	X	4.5	4.5	0	0
15	CONN-PL-330-2	X	4.5	4.5	0	0
16	COR-1	X	4.2	4.2	0	0
17	COR-2	X	2.1	2.1	0	0
18	COR-3	X	2.1	2.1	0	0
19	COR-PL-90-1	X	4.5	4.5	0	0
20	COR-PL-90-2	X	4.5	4.5	0	0
21	COR-PL-90-3	X	4.5	4.5	0	0
22	COR-PL-90-4	X	4.5	4.5	0	0
23	COR-PL-210-1	X	9.1	9.1	0	0
24	COR-PL-210-2	X	9.1	9.1	0	0
25	COR-PL-210-3	X	9.1	9.1	0	0
26	COR-PL-210-4	X	9.1	9.1	0	0
27	COR-PL-330-1	X	4.5	4.5	0	0
28	COR-PL-330-2	X	4.5	4.5	0	0
29	COR-PL-330-3	X	4.5	4.5	0	0
30	COR-PL-330-4	X	4.5	4.5	0	0
31	FM-0	X	2.6	2.6	0	0
32	FM-120	X	5.3	5.3	0	0
33	FM-240	X	2.6	2.6	0	0
34	GRATE-H-90-1	X	2.5	2.5	0	0
35	GRATE-H-90-2	X	2.5	2.5	0	0
36	GRATE-H-210-1	X	5	5	0	0
37	GRATE-H-210-2	X	5	5	0	0
38	GRATE-H-330-1	X	2.5	2.5	0	0
39	GRATE-H-330-2	X	2.5	2.5	0	0
40	HR-0	X	1.8	1.8	0	0
41	HR-120	X	3.6	3.6	0	0
42	HR-240	X	1.8	1.8	0	0
43	SA-1	X	0	0	0	0

Member Distributed Loads (BLC 12 : Wind Load (300 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
44	SA-2	X	4.7	4.7	0	0
45	SA-3	X	4.7	4.7	0	0
46	BRACE-1	Z	-9.2	-9.2	0	0
47	BRACE-2	Z	-4.6	-4.6	0	0
48	BRACE-3	Z	-4.6	-4.6	0	0
49	CONN-PL-60-1	Z	-13.6	-13.6	0	0
50	CONN-PL-60-2	Z	-13.6	-13.6	0	0
51	CONN-PL-90-1	Z	-7.9	-7.9	0	0
52	CONN-PL-90-2	Z	-7.9	-7.9	0	0
53	CONN-PL-180-1	Z	-13.6	-13.6	0	0
54	CONN-PL-180-2	Z	-13.6	-13.6	0	0
55	CONN-PL-210-1	Z	-15.7	-15.7	0	0
56	CONN-PL-210-2	Z	-15.7	-15.7	0	0
57	CONN-PL-300-1	Z	0	0	0	0
58	CONN-PL-300-2	Z	0	0	0	0
59	CONN-PL-330-1	Z	-7.9	-7.9	0	0
60	CONN-PL-330-2	Z	-7.9	-7.9	0	0
61	COR-1	Z	-7.2	-7.2	0	0
62	COR-2	Z	-3.6	-3.6	0	0
63	COR-3	Z	-3.6	-3.6	0	0
64	COR-PL-90-1	Z	-7.9	-7.9	0	0
65	COR-PL-90-2	Z	-7.9	-7.9	0	0
66	COR-PL-90-3	Z	-7.9	-7.9	0	0
67	COR-PL-90-4	Z	-7.9	-7.9	0	0
68	COR-PL-210-1	Z	-15.7	-15.7	0	0
69	COR-PL-210-2	Z	-15.7	-15.7	0	0
70	COR-PL-210-3	Z	-15.7	-15.7	0	0
71	COR-PL-210-4	Z	-15.7	-15.7	0	0
72	COR-PL-330-1	Z	-7.9	-7.9	0	0
73	COR-PL-330-2	Z	-7.9	-7.9	0	0
74	COR-PL-330-3	Z	-7.9	-7.9	0	0
75	COR-PL-330-4	Z	-7.9	-7.9	0	0
76	FM-0	Z	-4.6	-4.6	0	0
77	FM-120	Z	-9.2	-9.2	0	0
78	FM-240	Z	-4.6	-4.6	0	0
79	GRATE-H-90-1	Z	-4.4	-4.4	0	0
80	GRATE-H-90-2	Z	-4.4	-4.4	0	0
81	GRATE-H-210-1	Z	-8.7	-8.7	0	0
82	GRATE-H-210-2	Z	-8.7	-8.7	0	0
83	GRATE-H-330-1	Z	-4.4	-4.4	0	0
84	GRATE-H-330-2	Z	-4.4	-4.4	0	0
85	HR-0	Z	-3.1	-3.1	0	0
86	HR-120	Z	-6.2	-6.2	0	0
87	HR-240	Z	-3.1	-3.1	0	0
88	SA-1	Z	0	0	0	0
89	SA-2	Z	-8.1	-8.1	0	0
90	SA-3	Z	-8.1	-8.1	0	0

Member Distributed Loads (BLC 13 : Wind Load (330 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	8	8	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	8	8	0	0
4	CONN-PL-60-1	X	15.7	15.7	0	0
5	CONN-PL-60-2	X	15.7	15.7	0	0
6	CONN-PL-90-1	X	13.6	13.6	0	0

Member Distributed Loads (BLC 13 : Wind Load (330 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
7	CONN-PL-90-2	X	13.6	13.6	0	0
8	CONN-PL-180-1	X	7.9	7.9	0	0
9	CONN-PL-180-2	X	7.9	7.9	0	0
10	CONN-PL-210-1	X	13.6	13.6	0	0
11	CONN-PL-210-2	X	13.6	13.6	0	0
12	CONN-PL-300-1	X	7.9	7.9	0	0
13	CONN-PL-300-2	X	7.9	7.9	0	0
14	CONN-PL-330-1	X	0	0	0	0
15	CONN-PL-330-2	X	0	0	0	0
16	COR-1	X	6.2	6.2	0	0
17	COR-2	X	0	0	0	0
18	COR-3	X	6.2	6.2	0	0
19	COR-PL-90-1	X	13.6	13.6	0	0
20	COR-PL-90-2	X	13.6	13.6	0	0
21	COR-PL-90-3	X	13.6	13.6	0	0
22	COR-PL-90-4	X	13.6	13.6	0	0
23	COR-PL-210-1	X	13.6	13.6	0	0
24	COR-PL-210-2	X	13.6	13.6	0	0
25	COR-PL-210-3	X	13.6	13.6	0	0
26	COR-PL-210-4	X	13.6	13.6	0	0
27	COR-PL-330-1	X	0	0	0	0
28	COR-PL-330-2	X	0	0	0	0
29	COR-PL-330-3	X	0	0	0	0
30	COR-PL-330-4	X	0	0	0	0
31	FM-0	X	7.9	7.9	0	0
32	FM-120	X	7.9	7.9	0	0
33	FM-240	X	0	0	0	0
34	GRATE-H-90-1	X	7.6	7.6	0	0
35	GRATE-H-90-2	X	7.6	7.6	0	0
36	GRATE-H-210-1	X	7.6	7.6	0	0
37	GRATE-H-210-2	X	7.6	7.6	0	0
38	GRATE-H-330-1	X	0	0	0	0
39	GRATE-H-330-2	X	0	0	0	0
40	HR-0	X	5.4	5.4	0	0
41	HR-120	X	5.4	5.4	0	0
42	HR-240	X	0	0	0	0
43	SA-1	X	4.7	4.7	0	0
44	SA-2	X	9.3	9.3	0	0
45	SA-3	X	4.7	4.7	0	0
46	BRACE-1	Z	-4.6	-4.6	0	0
47	BRACE-2	Z	0	0	0	0
48	BRACE-3	Z	-4.6	-4.6	0	0
49	CONN-PL-60-1	Z	-9.1	-9.1	0	0
50	CONN-PL-60-2	Z	-9.1	-9.1	0	0
51	CONN-PL-90-1	Z	-7.9	-7.9	0	0
52	CONN-PL-90-2	Z	-7.9	-7.9	0	0
53	CONN-PL-180-1	Z	-4.5	-4.5	0	0
54	CONN-PL-180-2	Z	-4.5	-4.5	0	0
55	CONN-PL-210-1	Z	-7.9	-7.9	0	0
56	CONN-PL-210-2	Z	-7.9	-7.9	0	0
57	CONN-PL-300-1	Z	-4.5	-4.5	0	0
58	CONN-PL-300-2	Z	-4.5	-4.5	0	0
59	CONN-PL-330-1	Z	0	0	0	0
60	CONN-PL-330-2	Z	0	0	0	0
61	COR-1	Z	-3.6	-3.6	0	0
62	COR-2	Z	0	0	0	0
63	COR-3	Z	-3.6	-3.6	0	0

Member Distributed Loads (BLC 13 : Wind Load (330 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
64	COR-PL-90-1	Z	-7.9	-7.9	0	0
65	COR-PL-90-2	Z	-7.9	-7.9	0	0
66	COR-PL-90-3	Z	-7.9	-7.9	0	0
67	COR-PL-90-4	Z	-7.9	-7.9	0	0
68	COR-PL-210-1	Z	-7.9	-7.9	0	0
69	COR-PL-210-2	Z	-7.9	-7.9	0	0
70	COR-PL-210-3	Z	-7.9	-7.9	0	0
71	COR-PL-210-4	Z	-7.9	-7.9	0	0
72	COR-PL-330-1	Z	0	0	0	0
73	COR-PL-330-2	Z	0	0	0	0
74	COR-PL-330-3	Z	0	0	0	0
75	COR-PL-330-4	Z	0	0	0	0
76	FM-0	Z	-4.6	-4.6	0	0
77	FM-120	Z	-4.6	-4.6	0	0
78	FM-240	Z	0	0	0	0
79	GRATE-H-90-1	Z	-4.4	-4.4	0	0
80	GRATE-H-90-2	Z	-4.4	-4.4	0	0
81	GRATE-H-210-1	Z	-4.4	-4.4	0	0
82	GRATE-H-210-2	Z	-4.4	-4.4	0	0
83	GRATE-H-330-1	Z	0	0	0	0
84	GRATE-H-330-2	Z	0	0	0	0
85	HR-0	Z	-3.1	-3.1	0	0
86	HR-120	Z	-3.1	-3.1	0	0
87	HR-240	Z	0	0	0	0
88	SA-1	Z	-2.7	-2.7	0	0
89	SA-2	Z	-5.4	-5.4	0	0
90	SA-3	Z	-2.7	-2.7	0	0

Member Distributed Loads (BLC 14 : Ice Load)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	Y	-9.2	-9.2	0	0
2	BRACE-2	Y	-9.2	-9.2	0	0
3	BRACE-3	Y	-9.2	-9.2	0	0
4	CONN-PL-60-1	Y	-9.7	-9.7	0	0
5	CONN-PL-60-2	Y	-9.7	-9.7	0	0
6	CONN-PL-90-1	Y	-9.7	-9.7	0	0
7	CONN-PL-90-2	Y	-9.7	-9.7	0	0
8	CONN-PL-180-1	Y	-9.7	-9.7	0	0
9	CONN-PL-180-2	Y	-9.7	-9.7	0	0
10	CONN-PL-210-1	Y	-9.7	-9.7	0	0
11	CONN-PL-210-2	Y	-9.7	-9.7	0	0
12	CONN-PL-300-1	Y	-9.7	-9.7	0	0
13	CONN-PL-300-2	Y	-9.7	-9.7	0	0
14	CONN-PL-330-1	Y	-9.7	-9.7	0	0
15	CONN-PL-330-2	Y	-9.7	-9.7	0	0
16	COR-1	Y	-6.3	-6.3	0	0
17	COR-2	Y	-6.3	-6.3	0	0
18	COR-3	Y	-6.3	-6.3	0	0
19	COR-PL-90-1	Y	-9.7	-9.7	0	0
20	COR-PL-90-2	Y	-9.7	-9.7	0	0
21	COR-PL-90-3	Y	-9.7	-9.7	0	0
22	COR-PL-90-4	Y	-9.7	-9.7	0	0
23	COR-PL-210-1	Y	-9.7	-9.7	0	0
24	COR-PL-210-2	Y	-9.7	-9.7	0	0
25	COR-PL-210-3	Y	-9.7	-9.7	0	0
26	COR-PL-210-4	Y	-9.7	-9.7	0	0

Member Distributed Loads (BLC 14 : Ice Load) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
27	COR-PL-330-1	Y	-9.7	-9.7	0	0
28	COR-PL-330-2	Y	-9.7	-9.7	0	0
29	COR-PL-330-3	Y	-9.7	-9.7	0	0
30	COR-PL-330-4	Y	-9.7	-9.7	0	0
31	FM-0	Y	-6.3	-6.3	0	0
32	FM-120	Y	-6.3	-6.3	0	0
33	FM-240	Y	-6.3	-6.3	0	0
34	GRATE-H-90-1	Y	-5.4	-5.4	0	0
35	GRATE-H-90-2	Y	-5.4	-5.4	0	0
36	GRATE-H-210-1	Y	-5.4	-5.4	0	0
37	GRATE-H-210-2	Y	-5.4	-5.4	0	0
38	GRATE-H-330-1	Y	-5.4	-5.4	0	0
39	GRATE-H-330-2	Y	-5.4	-5.4	0	0
40	HR-0	Y	-4.8	-4.8	0	0
41	HR-120	Y	-4.8	-4.8	0	0
42	HR-240	Y	-4.8	-4.8	0	0
43	SA-1	Y	-9.2	-9.2	0	0
44	SA-2	Y	-9.2	-9.2	0	0
45	SA-3	Y	-9.2	-9.2	0	0

Member Distributed Loads (BLC 15 : Wind on Ice (0 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	1.4	1.4	0	0
2	BRACE-2	X	1.4	1.4	0	0
3	BRACE-3	X	2.7	2.7	0	0
4	CONN-PL-60-1	X	3.4	3.4	0	0
5	CONN-PL-60-2	X	3.4	3.4	0	0
6	CONN-PL-90-1	X	3.9	3.9	0	0
7	CONN-PL-90-2	X	3.9	3.9	0	0
8	CONN-PL-180-1	X	0	0	0	0
9	CONN-PL-180-2	X	0	0	0	0
10	CONN-PL-210-1	X	2	2	0	0
11	CONN-PL-210-2	X	2	2	0	0
12	CONN-PL-300-1	X	3.4	3.4	0	0
13	CONN-PL-300-2	X	3.4	3.4	0	0
14	CONN-PL-330-1	X	2	2	0	0
15	CONN-PL-330-2	X	2	2	0	0
16	COR-1	X	1.1	1.1	0	0
17	COR-2	X	1.1	1.1	0	0
18	COR-3	X	2.2	2.2	0	0
19	COR-PL-90-1	X	3.9	3.9	0	0
20	COR-PL-90-2	X	3.9	3.9	0	0
21	COR-PL-90-3	X	3.9	3.9	0	0
22	COR-PL-90-4	X	3.9	3.9	0	0
23	COR-PL-210-1	X	2	2	0	0
24	COR-PL-210-2	X	2	2	0	0
25	COR-PL-210-3	X	2	2	0	0
26	COR-PL-210-4	X	2	2	0	0
27	COR-PL-330-1	X	2	2	0	0
28	COR-PL-330-2	X	2	2	0	0
29	COR-PL-330-3	X	2	2	0	0
30	COR-PL-330-4	X	2	2	0	0
31	FM-0	X	3.1	3.1	0	0
32	FM-120	X	1.5	1.5	0	0
33	FM-240	X	1.5	1.5	0	0
34	GRATE-H-90-1	X	2.7	2.7	0	0

Member Distributed Loads (BLC 15 : Wind on Ice (0 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
35	GRATE-H-90-2	X	2.7	2.7	0	0
36	GRATE-H-210-1	X	1.3	1.3	0	0
37	GRATE-H-210-2	X	1.3	1.3	0	0
38	GRATE-H-330-1	X	1.3	1.3	0	0
39	GRATE-H-330-2	X	1.3	1.3	0	0
40	HR-0	X	2.5	2.5	0	0
41	HR-120	X	1.2	1.2	0	0
42	HR-240	X	1.2	1.2	0	0
43	SA-1	X	2.4	2.4	0	0
44	SA-2	X	2.4	2.4	0	0
45	SA-3	X	0	0	0	0
46	BRACE-1	Z	0	0	0	0
47	BRACE-2	Z	0	0	0	0
48	BRACE-3	Z	0	0	0	0
49	CONN-PL-60-1	Z	0	0	0	0
50	CONN-PL-60-2	Z	0	0	0	0
51	CONN-PL-90-1	Z	0	0	0	0
52	CONN-PL-90-2	Z	0	0	0	0
53	CONN-PL-180-1	Z	0	0	0	0
54	CONN-PL-180-2	Z	0	0	0	0
55	CONN-PL-210-1	Z	0	0	0	0
56	CONN-PL-210-2	Z	0	0	0	0
57	CONN-PL-300-1	Z	0	0	0	0
58	CONN-PL-300-2	Z	0	0	0	0
59	CONN-PL-330-1	Z	0	0	0	0
60	CONN-PL-330-2	Z	0	0	0	0
61	COR-1	Z	0	0	0	0
62	COR-2	Z	0	0	0	0
63	COR-3	Z	0	0	0	0
64	COR-PL-90-1	Z	0	0	0	0
65	COR-PL-90-2	Z	0	0	0	0
66	COR-PL-90-3	Z	0	0	0	0
67	COR-PL-90-4	Z	0	0	0	0
68	COR-PL-210-1	Z	0	0	0	0
69	COR-PL-210-2	Z	0	0	0	0
70	COR-PL-210-3	Z	0	0	0	0
71	COR-PL-210-4	Z	0	0	0	0
72	COR-PL-330-1	Z	0	0	0	0
73	COR-PL-330-2	Z	0	0	0	0
74	COR-PL-330-3	Z	0	0	0	0
75	COR-PL-330-4	Z	0	0	0	0
76	FM-0	Z	0	0	0	0
77	FM-120	Z	0	0	0	0
78	FM-240	Z	0	0	0	0
79	GRATE-H-90-1	Z	0	0	0	0
80	GRATE-H-90-2	Z	0	0	0	0
81	GRATE-H-210-1	Z	0	0	0	0
82	GRATE-H-210-2	Z	0	0	0	0
83	GRATE-H-330-1	Z	0	0	0	0
84	GRATE-H-330-2	Z	0	0	0	0
85	HR-0	Z	0	0	0	0
86	HR-120	Z	0	0	0	0
87	HR-240	Z	0	0	0	0
88	SA-1	Z	0	0	0	0
89	SA-2	Z	0	0	0	0
90	SA-3	Z	0	0	0	0

Member Distributed Loads (BLC 16 : Wind on Ice (30 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	2.1	2.1	0	0
3	BRACE-3	X	2.1	2.1	0	0
4	CONN-PL-60-1	X	1.7	1.7	0	0
5	CONN-PL-60-2	X	1.7	1.7	0	0
6	CONN-PL-90-1	X	2.9	2.9	0	0
7	CONN-PL-90-2	X	2.9	2.9	0	0
8	CONN-PL-180-1	X	1.7	1.7	0	0
9	CONN-PL-180-2	X	1.7	1.7	0	0
10	CONN-PL-210-1	X	0	0	0	0
11	CONN-PL-210-2	X	0	0	0	0
12	CONN-PL-300-1	X	3.4	3.4	0	0
13	CONN-PL-300-2	X	3.4	3.4	0	0
14	CONN-PL-330-1	X	2.9	2.9	0	0
15	CONN-PL-330-2	X	2.9	2.9	0	0
16	COR-1	X	0	0	0	0
17	COR-2	X	1.6	1.6	0	0
18	COR-3	X	1.6	1.6	0	0
19	COR-PL-90-1	X	2.9	2.9	0	0
20	COR-PL-90-2	X	2.9	2.9	0	0
21	COR-PL-90-3	X	2.9	2.9	0	0
22	COR-PL-90-4	X	2.9	2.9	0	0
23	COR-PL-210-1	X	0	0	0	0
24	COR-PL-210-2	X	0	0	0	0
25	COR-PL-210-3	X	0	0	0	0
26	COR-PL-210-4	X	0	0	0	0
27	COR-PL-330-1	X	2.9	2.9	0	0
28	COR-PL-330-2	X	2.9	2.9	0	0
29	COR-PL-330-3	X	2.9	2.9	0	0
30	COR-PL-330-4	X	2.9	2.9	0	0
31	FM-0	X	2.3	2.3	0	0
32	FM-120	X	0	0	0	0
33	FM-240	X	2.3	2.3	0	0
34	GRATE-H-90-1	X	2	2	0	0
35	GRATE-H-90-2	X	2	2	0	0
36	GRATE-H-210-1	X	0	0	0	0
37	GRATE-H-210-2	X	0	0	0	0
38	GRATE-H-330-1	X	2	2	0	0
39	GRATE-H-330-2	X	2	2	0	0
40	HR-0	X	1.8	1.8	0	0
41	HR-120	X	0	0	0	0
42	HR-240	X	1.8	1.8	0	0
43	SA-1	X	2.4	2.4	0	0
44	SA-2	X	1.2	1.2	0	0
45	SA-3	X	1.2	1.2	0	0
46	BRACE-1	Z	0	0	0	0
47	BRACE-2	Z	1.2	1.2	0	0
48	BRACE-3	Z	1.2	1.2	0	0
49	CONN-PL-60-1	Z	1	1	0	0
50	CONN-PL-60-2	Z	1	1	0	0
51	CONN-PL-90-1	Z	1.7	1.7	0	0
52	CONN-PL-90-2	Z	1.7	1.7	0	0
53	CONN-PL-180-1	Z	1	1	0	0
54	CONN-PL-180-2	Z	1	1	0	0
55	CONN-PL-210-1	Z	0	0	0	0
56	CONN-PL-210-2	Z	0	0	0	0
57	CONN-PL-300-1	Z	2	2	0	0

Member Distributed Loads (BLC 16 : Wind on Ice (30 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
58	CONN-PL-300-2	Z	2	2	0	0
59	CONN-PL-330-1	Z	1.7	1.7	0	0
60	CONN-PL-330-2	Z	1.7	1.7	0	0
61	COR-1	Z	0	0	0	0
62	COR-2	Z	.9	.9	0	0
63	COR-3	Z	.9	.9	0	0
64	COR-PL-90-1	Z	1.7	1.7	0	0
65	COR-PL-90-2	Z	1.7	1.7	0	0
66	COR-PL-90-3	Z	1.7	1.7	0	0
67	COR-PL-90-4	Z	1.7	1.7	0	0
68	COR-PL-210-1	Z	0	0	0	0
69	COR-PL-210-2	Z	0	0	0	0
70	COR-PL-210-3	Z	0	0	0	0
71	COR-PL-210-4	Z	0	0	0	0
72	COR-PL-330-1	Z	1.7	1.7	0	0
73	COR-PL-330-2	Z	1.7	1.7	0	0
74	COR-PL-330-3	Z	1.7	1.7	0	0
75	COR-PL-330-4	Z	1.7	1.7	0	0
76	FM-0	Z	1.3	1.3	0	0
77	FM-120	Z	0	0	0	0
78	FM-240	Z	1.3	1.3	0	0
79	GRATE-H-90-1	Z	1.2	1.2	0	0
80	GRATE-H-90-2	Z	1.2	1.2	0	0
81	GRATE-H-210-1	Z	0	0	0	0
82	GRATE-H-210-2	Z	0	0	0	0
83	GRATE-H-330-1	Z	1.2	1.2	0	0
84	GRATE-H-330-2	Z	1.2	1.2	0	0
85	HR-0	Z	1.1	1.1	0	0
86	HR-120	Z	0	0	0	0
87	HR-240	Z	1.1	1.1	0	0
88	SA-1	Z	1.4	1.4	0	0
89	SA-2	Z	.7	.7	0	0
90	SA-3	Z	.7	.7	0	0

Member Distributed Loads (BLC 17 : Wind on Ice (60 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	.7	.7	0	0
2	BRACE-2	X	1.4	1.4	0	0
3	BRACE-3	X	.7	.7	0	0
4	CONN-PL-60-1	X	0	0	0	0
5	CONN-PL-60-2	X	0	0	0	0
6	CONN-PL-90-1	X	1	1	0	0
7	CONN-PL-90-2	X	1	1	0	0
8	CONN-PL-180-1	X	1.7	1.7	0	0
9	CONN-PL-180-2	X	1.7	1.7	0	0
10	CONN-PL-210-1	X	1	1	0	0
11	CONN-PL-210-2	X	1	1	0	0
12	CONN-PL-300-1	X	1.7	1.7	0	0
13	CONN-PL-300-2	X	1.7	1.7	0	0
14	CONN-PL-330-1	X	2	2	0	0
15	CONN-PL-330-2	X	2	2	0	0
16	COR-1	X	.5	.5	0	0
17	COR-2	X	1.1	1.1	0	0
18	COR-3	X	.5	.5	0	0
19	COR-PL-90-1	X	1	1	0	0
20	COR-PL-90-2	X	1	1	0	0

Member Distributed Loads (BLC 17 : Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
21	COR-PL-90-3	X	1	1	0	0
22	COR-PL-90-4	X	1	1	0	0
23	COR-PL-210-1	X	1	1	0	0
24	COR-PL-210-2	X	1	1	0	0
25	COR-PL-210-3	X	1	1	0	0
26	COR-PL-210-4	X	1	1	0	0
27	COR-PL-330-1	X	2	2	0	0
28	COR-PL-330-2	X	2	2	0	0
29	COR-PL-330-3	X	2	2	0	0
30	COR-PL-330-4	X	2	2	0	0
31	FM-0	X	.8	.8	0	0
32	FM-120	X	.8	.8	0	0
33	FM-240	X	1.5	1.5	0	0
34	GRATE-H-90-1	X	.7	.7	0	0
35	GRATE-H-90-2	X	.7	.7	0	0
36	GRATE-H-210-1	X	.7	.7	0	0
37	GRATE-H-210-2	X	.7	.7	0	0
38	GRATE-H-330-1	X	1.3	1.3	0	0
39	GRATE-H-330-2	X	1.3	1.3	0	0
40	HR-0	X	.6	.6	0	0
41	HR-120	X	.6	.6	0	0
42	HR-240	X	1.2	1.2	0	0
43	SA-1	X	1.2	1.2	0	0
44	SA-2	X	0	0	0	0
45	SA-3	X	1.2	1.2	0	0
46	BRACE-1	Z	1.2	1.2	0	0
47	BRACE-2	Z	2.4	2.4	0	0
48	BRACE-3	Z	1.2	1.2	0	0
49	CONN-PL-60-1	Z	0	0	0	0
50	CONN-PL-60-2	Z	0	0	0	0
51	CONN-PL-90-1	Z	1.7	1.7	0	0
52	CONN-PL-90-2	Z	1.7	1.7	0	0
53	CONN-PL-180-1	Z	2.9	2.9	0	0
54	CONN-PL-180-2	Z	2.9	2.9	0	0
55	CONN-PL-210-1	Z	1.7	1.7	0	0
56	CONN-PL-210-2	Z	1.7	1.7	0	0
57	CONN-PL-300-1	Z	2.9	2.9	0	0
58	CONN-PL-300-2	Z	2.9	2.9	0	0
59	CONN-PL-330-1	Z	3.4	3.4	0	0
60	CONN-PL-330-2	Z	3.4	3.4	0	0
61	COR-1	Z	.9	.9	0	0
62	COR-2	Z	1.9	1.9	0	0
63	COR-3	Z	.9	.9	0	0
64	COR-PL-90-1	Z	1.7	1.7	0	0
65	COR-PL-90-2	Z	1.7	1.7	0	0
66	COR-PL-90-3	Z	1.7	1.7	0	0
67	COR-PL-90-4	Z	1.7	1.7	0	0
68	COR-PL-210-1	Z	1.7	1.7	0	0
69	COR-PL-210-2	Z	1.7	1.7	0	0
70	COR-PL-210-3	Z	1.7	1.7	0	0
71	COR-PL-210-4	Z	1.7	1.7	0	0
72	COR-PL-330-1	Z	3.4	3.4	0	0
73	COR-PL-330-2	Z	3.4	3.4	0	0
74	COR-PL-330-3	Z	3.4	3.4	0	0
75	COR-PL-330-4	Z	3.4	3.4	0	0
76	FM-0	Z	1.3	1.3	0	0
77	FM-120	Z	1.3	1.3	0	0

Member Distributed Loads (BLC 17 : Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
78	FM-240	Z	2.7	2.7	0	0
79	GRATE-H-90-1	Z	1.2	1.2	0	0
80	GRATE-H-90-2	Z	1.2	1.2	0	0
81	GRATE-H-210-1	Z	1.2	1.2	0	0
82	GRATE-H-210-2	Z	1.2	1.2	0	0
83	GRATE-H-330-1	Z	2.3	2.3	0	0
84	GRATE-H-330-2	Z	2.3	2.3	0	0
85	HR-0	Z	1.1	1.1	0	0
86	HR-120	Z	1.1	1.1	0	0
87	HR-240	Z	2.1	2.1	0	0
88	SA-1	Z	2.1	2.1	0	0
89	SA-2	Z	0	0	0	0
90	SA-3	Z	2.1	2.1	0	0

Member Distributed Loads (BLC 18 : Wind on Ice (90 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	0	0	0	0
4	CONN-PL-60-1	X	0	0	0	0
5	CONN-PL-60-2	X	0	0	0	0
6	CONN-PL-90-1	X	0	0	0	0
7	CONN-PL-90-2	X	0	0	0	0
8	CONN-PL-180-1	X	0	0	0	0
9	CONN-PL-180-2	X	0	0	0	0
10	CONN-PL-210-1	X	0	0	0	0
11	CONN-PL-210-2	X	0	0	0	0
12	CONN-PL-300-1	X	0	0	0	0
13	CONN-PL-300-2	X	0	0	0	0
14	CONN-PL-330-1	X	0	0	0	0
15	CONN-PL-330-2	X	0	0	0	0
16	COR-1	X	0	0	0	0
17	COR-2	X	0	0	0	0
18	COR-3	X	0	0	0	0
19	COR-PL-90-1	X	0	0	0	0
20	COR-PL-90-2	X	0	0	0	0
21	COR-PL-90-3	X	0	0	0	0
22	COR-PL-90-4	X	0	0	0	0
23	COR-PL-210-1	X	0	0	0	0
24	COR-PL-210-2	X	0	0	0	0
25	COR-PL-210-3	X	0	0	0	0
26	COR-PL-210-4	X	0	0	0	0
27	COR-PL-330-1	X	0	0	0	0
28	COR-PL-330-2	X	0	0	0	0
29	COR-PL-330-3	X	0	0	0	0
30	COR-PL-330-4	X	0	0	0	0
31	FM-0	X	0	0	0	0
32	FM-120	X	0	0	0	0
33	FM-240	X	0	0	0	0
34	GRATE-H-90-1	X	0	0	0	0
35	GRATE-H-90-2	X	0	0	0	0
36	GRATE-H-210-1	X	0	0	0	0
37	GRATE-H-210-2	X	0	0	0	0
38	GRATE-H-330-1	X	0	0	0	0
39	GRATE-H-330-2	X	0	0	0	0
40	HR-0	X	0	0	0	0

Member Distributed Loads (BLC 18 : Wind on Ice (90 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
41	HR-120	X	0	0	0	0
42	HR-240	X	0	0	0	0
43	SA-1	X	0	0	0	0
44	SA-2	X	0	0	0	0
45	SA-3	X	0	0	0	0
46	BRACE-1	Z	2.4	2.4	0	0
47	BRACE-2	Z	2.4	2.4	0	0
48	BRACE-3	Z	0	0	0	0
49	CONN-PL-60-1	Z	2	2	0	0
50	CONN-PL-60-2	Z	2	2	0	0
51	CONN-PL-90-1	Z	0	0	0	0
52	CONN-PL-90-2	Z	0	0	0	0
53	CONN-PL-180-1	Z	3.9	3.9	0	0
54	CONN-PL-180-2	Z	3.9	3.9	0	0
55	CONN-PL-210-1	Z	3.4	3.4	0	0
56	CONN-PL-210-2	Z	3.4	3.4	0	0
57	CONN-PL-300-1	Z	2	2	0	0
58	CONN-PL-300-2	Z	2	2	0	0
59	CONN-PL-330-1	Z	3.4	3.4	0	0
60	CONN-PL-330-2	Z	3.4	3.4	0	0
61	COR-1	Z	1.9	1.9	0	0
62	COR-2	Z	1.9	1.9	0	0
63	COR-3	Z	0	0	0	0
64	COR-PL-90-1	Z	0	0	0	0
65	COR-PL-90-2	Z	0	0	0	0
66	COR-PL-90-3	Z	0	0	0	0
67	COR-PL-90-4	Z	0	0	0	0
68	COR-PL-210-1	Z	3.4	3.4	0	0
69	COR-PL-210-2	Z	3.4	3.4	0	0
70	COR-PL-210-3	Z	3.4	3.4	0	0
71	COR-PL-210-4	Z	3.4	3.4	0	0
72	COR-PL-330-1	Z	3.4	3.4	0	0
73	COR-PL-330-2	Z	3.4	3.4	0	0
74	COR-PL-330-3	Z	3.4	3.4	0	0
75	COR-PL-330-4	Z	3.4	3.4	0	0
76	FM-0	Z	0	0	0	0
77	FM-120	Z	2.7	2.7	0	0
78	FM-240	Z	2.7	2.7	0	0
79	GRATE-H-90-1	Z	0	0	0	0
80	GRATE-H-90-2	Z	0	0	0	0
81	GRATE-H-210-1	Z	2.3	2.3	0	0
82	GRATE-H-210-2	Z	2.3	2.3	0	0
83	GRATE-H-330-1	Z	2.3	2.3	0	0
84	GRATE-H-330-2	Z	2.3	2.3	0	0
85	HR-0	Z	0	0	0	0
86	HR-120	Z	2.1	2.1	0	0
87	HR-240	Z	2.1	2.1	0	0
88	SA-1	Z	1.4	1.4	0	0
89	SA-2	Z	1.4	1.4	0	0
90	SA-3	Z	2.8	2.8	0	0

Member Distributed Loads (BLC 19 : Wind on Ice (120 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-1.4	-1.4	0	0
2	BRACE-2	X	-.7	-.7	0	0
3	BRACE-3	X	-.7	-.7	0	0

Member Distributed Loads (BLC 19 : Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
4	CONN-PL-60-1	X	-1.7	-1.7	0	0
5	CONN-PL-60-2	X	-1.7	-1.7	0	0
6	CONN-PL-90-1	X	-1	-1	0	0
7	CONN-PL-90-2	X	-1	-1	0	0
8	CONN-PL-180-1	X	-1.7	-1.7	0	0
9	CONN-PL-180-2	X	-1.7	-1.7	0	0
10	CONN-PL-210-1	X	-2	-2	0	0
11	CONN-PL-210-2	X	-2	-2	0	0
12	CONN-PL-300-1	X	0	0	0	0
13	CONN-PL-300-2	X	0	0	0	0
14	CONN-PL-330-1	X	-1	-1	0	0
15	CONN-PL-330-2	X	-1	-1	0	0
16	COR-1	X	-1.1	-1.1	0	0
17	COR-2	X	-.5	-.5	0	0
18	COR-3	X	-.5	-.5	0	0
19	COR-PL-90-1	X	-1	-1	0	0
20	COR-PL-90-2	X	-1	-1	0	0
21	COR-PL-90-3	X	-1	-1	0	0
22	COR-PL-90-4	X	-1	-1	0	0
23	COR-PL-210-1	X	-2	-2	0	0
24	COR-PL-210-2	X	-2	-2	0	0
25	COR-PL-210-3	X	-2	-2	0	0
26	COR-PL-210-4	X	-2	-2	0	0
27	COR-PL-330-1	X	-1	-1	0	0
28	COR-PL-330-2	X	-1	-1	0	0
29	COR-PL-330-3	X	-1	-1	0	0
30	COR-PL-330-4	X	-1	-1	0	0
31	FM-0	X	-.8	-.8	0	0
32	FM-120	X	-1.5	-1.5	0	0
33	FM-240	X	-.8	-.8	0	0
34	GRATE-H-90-1	X	-.7	-.7	0	0
35	GRATE-H-90-2	X	-.7	-.7	0	0
36	GRATE-H-210-1	X	-1.3	-1.3	0	0
37	GRATE-H-210-2	X	-1.3	-1.3	0	0
38	GRATE-H-330-1	X	-.7	-.7	0	0
39	GRATE-H-330-2	X	-.7	-.7	0	0
40	HR-0	X	-.6	-.6	0	0
41	HR-120	X	-1.2	-1.2	0	0
42	HR-240	X	-.6	-.6	0	0
43	SA-1	X	0	0	0	0
44	SA-2	X	-1.2	-1.2	0	0
45	SA-3	X	-1.2	-1.2	0	0
46	BRACE-1	Z	2.4	2.4	0	0
47	BRACE-2	Z	1.2	1.2	0	0
48	BRACE-3	Z	1.2	1.2	0	0
49	CONN-PL-60-1	Z	2.9	2.9	0	0
50	CONN-PL-60-2	Z	2.9	2.9	0	0
51	CONN-PL-90-1	Z	1.7	1.7	0	0
52	CONN-PL-90-2	Z	1.7	1.7	0	0
53	CONN-PL-180-1	Z	2.9	2.9	0	0
54	CONN-PL-180-2	Z	2.9	2.9	0	0
55	CONN-PL-210-1	Z	3.4	3.4	0	0
56	CONN-PL-210-2	Z	3.4	3.4	0	0
57	CONN-PL-300-1	Z	0	0	0	0
58	CONN-PL-300-2	Z	0	0	0	0
59	CONN-PL-330-1	Z	1.7	1.7	0	0
60	CONN-PL-330-2	Z	1.7	1.7	0	0

Member Distributed Loads (BLC 19 : Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
61	COR-1	Z	1.9	1.9	0	0
62	COR-2	Z	.9	.9	0	0
63	COR-3	Z	.9	.9	0	0
64	COR-PL-90-1	Z	1.7	1.7	0	0
65	COR-PL-90-2	Z	1.7	1.7	0	0
66	COR-PL-90-3	Z	1.7	1.7	0	0
67	COR-PL-90-4	Z	1.7	1.7	0	0
68	COR-PL-210-1	Z	3.4	3.4	0	0
69	COR-PL-210-2	Z	3.4	3.4	0	0
70	COR-PL-210-3	Z	3.4	3.4	0	0
71	COR-PL-210-4	Z	3.4	3.4	0	0
72	COR-PL-330-1	Z	1.7	1.7	0	0
73	COR-PL-330-2	Z	1.7	1.7	0	0
74	COR-PL-330-3	Z	1.7	1.7	0	0
75	COR-PL-330-4	Z	1.7	1.7	0	0
76	FM-0	Z	1.3	1.3	0	0
77	FM-120	Z	2.7	2.7	0	0
78	FM-240	Z	1.3	1.3	0	0
79	GRATE-H-90-1	Z	1.2	1.2	0	0
80	GRATE-H-90-2	Z	1.2	1.2	0	0
81	GRATE-H-210-1	Z	2.3	2.3	0	0
82	GRATE-H-210-2	Z	2.3	2.3	0	0
83	GRATE-H-330-1	Z	1.2	1.2	0	0
84	GRATE-H-330-2	Z	1.2	1.2	0	0
85	HR-0	Z	1.1	1.1	0	0
86	HR-120	Z	2.1	2.1	0	0
87	HR-240	Z	1.1	1.1	0	0
88	SA-1	Z	0	0	0	0
89	SA-2	Z	2.1	2.1	0	0
90	SA-3	Z	2.1	2.1	0	0

Member Distributed Loads (BLC 20 : Wind on Ice (150 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-2.1	-2.1	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	-2.1	-2.1	0	0
4	CONN-PL-60-1	X	-3.4	-3.4	0	0
5	CONN-PL-60-2	X	-3.4	-3.4	0	0
6	CONN-PL-90-1	X	-2.9	-2.9	0	0
7	CONN-PL-90-2	X	-2.9	-2.9	0	0
8	CONN-PL-180-1	X	-1.7	-1.7	0	0
9	CONN-PL-180-2	X	-1.7	-1.7	0	0
10	CONN-PL-210-1	X	-2.9	-2.9	0	0
11	CONN-PL-210-2	X	-2.9	-2.9	0	0
12	CONN-PL-300-1	X	-1.7	-1.7	0	0
13	CONN-PL-300-2	X	-1.7	-1.7	0	0
14	CONN-PL-330-1	X	0	0	0	0
15	CONN-PL-330-2	X	0	0	0	0
16	COR-1	X	-1.6	-1.6	0	0
17	COR-2	X	0	0	0	0
18	COR-3	X	-1.6	-1.6	0	0
19	COR-PL-90-1	X	-2.9	-2.9	0	0
20	COR-PL-90-2	X	-2.9	-2.9	0	0
21	COR-PL-90-3	X	-2.9	-2.9	0	0
22	COR-PL-90-4	X	-2.9	-2.9	0	0
23	COR-PL-210-1	X	-2.9	-2.9	0	0

Member Distributed Loads (BLC 20 : Wind on Ice (150 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
24	COR-PL-210-2	X	-2.9	-2.9	0	0
25	COR-PL-210-3	X	-2.9	-2.9	0	0
26	COR-PL-210-4	X	-2.9	-2.9	0	0
27	COR-PL-330-1	X	0	0	0	0
28	COR-PL-330-2	X	0	0	0	0
29	COR-PL-330-3	X	0	0	0	0
30	COR-PL-330-4	X	0	0	0	0
31	FM-0	X	-2.3	-2.3	0	0
32	FM-120	X	-2.3	-2.3	0	0
33	FM-240	X	0	0	0	0
34	GRATE-H-90-1	X	-2	-2	0	0
35	GRATE-H-90-2	X	-2	-2	0	0
36	GRATE-H-210-1	X	-2	-2	0	0
37	GRATE-H-210-2	X	-2	-2	0	0
38	GRATE-H-330-1	X	0	0	0	0
39	GRATE-H-330-2	X	0	0	0	0
40	HR-0	X	-1.8	-1.8	0	0
41	HR-120	X	-1.8	-1.8	0	0
42	HR-240	X	0	0	0	0
43	SA-1	X	-1.2	-1.2	0	0
44	SA-2	X	-2.4	-2.4	0	0
45	SA-3	X	-1.2	-1.2	0	0
46	BRACE-1	Z	1.2	1.2	0	0
47	BRACE-2	Z	0	0	0	0
48	BRACE-3	Z	1.2	1.2	0	0
49	CONN-PL-60-1	Z	2	2	0	0
50	CONN-PL-60-2	Z	2	2	0	0
51	CONN-PL-90-1	Z	1.7	1.7	0	0
52	CONN-PL-90-2	Z	1.7	1.7	0	0
53	CONN-PL-180-1	Z	1	1	0	0
54	CONN-PL-180-2	Z	1	1	0	0
55	CONN-PL-210-1	Z	1.7	1.7	0	0
56	CONN-PL-210-2	Z	1.7	1.7	0	0
57	CONN-PL-300-1	Z	1	1	0	0
58	CONN-PL-300-2	Z	1	1	0	0
59	CONN-PL-330-1	Z	0	0	0	0
60	CONN-PL-330-2	Z	0	0	0	0
61	COR-1	Z	.9	.9	0	0
62	COR-2	Z	0	0	0	0
63	COR-3	Z	.9	.9	0	0
64	COR-PL-90-1	Z	1.7	1.7	0	0
65	COR-PL-90-2	Z	1.7	1.7	0	0
66	COR-PL-90-3	Z	1.7	1.7	0	0
67	COR-PL-90-4	Z	1.7	1.7	0	0
68	COR-PL-210-1	Z	1.7	1.7	0	0
69	COR-PL-210-2	Z	1.7	1.7	0	0
70	COR-PL-210-3	Z	1.7	1.7	0	0
71	COR-PL-210-4	Z	1.7	1.7	0	0
72	COR-PL-330-1	Z	0	0	0	0
73	COR-PL-330-2	Z	0	0	0	0
74	COR-PL-330-3	Z	0	0	0	0
75	COR-PL-330-4	Z	0	0	0	0
76	FM-0	Z	1.3	1.3	0	0
77	FM-120	Z	1.3	1.3	0	0
78	FM-240	Z	0	0	0	0
79	GRATE-H-90-1	Z	1.2	1.2	0	0
80	GRATE-H-90-2	Z	1.2	1.2	0	0

Member Distributed Loads (BLC 20 : Wind on Ice (150 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
81	GRATE-H-210-1	Z	1.2	1.2	0	0
82	GRATE-H-210-2	Z	1.2	1.2	0	0
83	GRATE-H-330-1	Z	0	0	0	0
84	GRATE-H-330-2	Z	0	0	0	0
85	HR-0	Z	1.1	1.1	0	0
86	HR-120	Z	1.1	1.1	0	0
87	HR-240	Z	0	0	0	0
88	SA-1	Z	.7	.7	0	0
89	SA-2	Z	1.4	1.4	0	0
90	SA-3	Z	.7	.7	0	0

Member Distributed Loads (BLC 21 : Wind on Ice (180 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-1.4	-1.4	0	0
2	BRACE-2	X	-1.4	-1.4	0	0
3	BRACE-3	X	-2.7	-2.7	0	0
4	CONN-PL-60-1	X	-3.4	-3.4	0	0
5	CONN-PL-60-2	X	-3.4	-3.4	0	0
6	CONN-PL-90-1	X	-3.9	-3.9	0	0
7	CONN-PL-90-2	X	-3.9	-3.9	0	0
8	CONN-PL-180-1	X	0	0	0	0
9	CONN-PL-180-2	X	0	0	0	0
10	CONN-PL-210-1	X	-2	-2	0	0
11	CONN-PL-210-2	X	-2	-2	0	0
12	CONN-PL-300-1	X	-3.4	-3.4	0	0
13	CONN-PL-300-2	X	-3.4	-3.4	0	0
14	CONN-PL-330-1	X	-2	-2	0	0
15	CONN-PL-330-2	X	-2	-2	0	0
16	COR-1	X	-1.1	-1.1	0	0
17	COR-2	X	-1.1	-1.1	0	0
18	COR-3	X	-2.2	-2.2	0	0
19	COR-PL-90-1	X	-3.9	-3.9	0	0
20	COR-PL-90-2	X	-3.9	-3.9	0	0
21	COR-PL-90-3	X	-3.9	-3.9	0	0
22	COR-PL-90-4	X	-3.9	-3.9	0	0
23	COR-PL-210-1	X	-2	-2	0	0
24	COR-PL-210-2	X	-2	-2	0	0
25	COR-PL-210-3	X	-2	-2	0	0
26	COR-PL-210-4	X	-2	-2	0	0
27	COR-PL-330-1	X	-2	-2	0	0
28	COR-PL-330-2	X	-2	-2	0	0
29	COR-PL-330-3	X	-2	-2	0	0
30	COR-PL-330-4	X	-2	-2	0	0
31	FM-0	X	-3.1	-3.1	0	0
32	FM-120	X	-1.5	-1.5	0	0
33	FM-240	X	-1.5	-1.5	0	0
34	GRATE-H-90-1	X	-2.7	-2.7	0	0
35	GRATE-H-90-2	X	-2.7	-2.7	0	0
36	GRATE-H-210-1	X	-1.3	-1.3	0	0
37	GRATE-H-210-2	X	-1.3	-1.3	0	0
38	GRATE-H-330-1	X	-1.3	-1.3	0	0
39	GRATE-H-330-2	X	-1.3	-1.3	0	0
40	HR-0	X	-2.5	-2.5	0	0
41	HR-120	X	-1.2	-1.2	0	0
42	HR-240	X	-1.2	-1.2	0	0
43	SA-1	X	-2.4	-2.4	0	0

Member Distributed Loads (BLC 21 : Wind on Ice (180 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
44	SA-2	X	-2.4	-2.4	0	0
45	SA-3	X	0	0	0	0
46	BRACE-1	Z	0	0	0	0
47	BRACE-2	Z	0	0	0	0
48	BRACE-3	Z	0	0	0	0
49	CONN-PL-60-1	Z	0	0	0	0
50	CONN-PL-60-2	Z	0	0	0	0
51	CONN-PL-90-1	Z	0	0	0	0
52	CONN-PL-90-2	Z	0	0	0	0
53	CONN-PL-180-1	Z	0	0	0	0
54	CONN-PL-180-2	Z	0	0	0	0
55	CONN-PL-210-1	Z	0	0	0	0
56	CONN-PL-210-2	Z	0	0	0	0
57	CONN-PL-300-1	Z	0	0	0	0
58	CONN-PL-300-2	Z	0	0	0	0
59	CONN-PL-330-1	Z	0	0	0	0
60	CONN-PL-330-2	Z	0	0	0	0
61	COR-1	Z	0	0	0	0
62	COR-2	Z	0	0	0	0
63	COR-3	Z	0	0	0	0
64	COR-PL-90-1	Z	0	0	0	0
65	COR-PL-90-2	Z	0	0	0	0
66	COR-PL-90-3	Z	0	0	0	0
67	COR-PL-90-4	Z	0	0	0	0
68	COR-PL-210-1	Z	0	0	0	0
69	COR-PL-210-2	Z	0	0	0	0
70	COR-PL-210-3	Z	0	0	0	0
71	COR-PL-210-4	Z	0	0	0	0
72	COR-PL-330-1	Z	0	0	0	0
73	COR-PL-330-2	Z	0	0	0	0
74	COR-PL-330-3	Z	0	0	0	0
75	COR-PL-330-4	Z	0	0	0	0
76	FM-0	Z	0	0	0	0
77	FM-120	Z	0	0	0	0
78	FM-240	Z	0	0	0	0
79	GRATE-H-90-1	Z	0	0	0	0
80	GRATE-H-90-2	Z	0	0	0	0
81	GRATE-H-210-1	Z	0	0	0	0
82	GRATE-H-210-2	Z	0	0	0	0
83	GRATE-H-330-1	Z	0	0	0	0
84	GRATE-H-330-2	Z	0	0	0	0
85	HR-0	Z	0	0	0	0
86	HR-120	Z	0	0	0	0
87	HR-240	Z	0	0	0	0
88	SA-1	Z	0	0	0	0
89	SA-2	Z	0	0	0	0
90	SA-3	Z	0	0	0	0

Member Distributed Loads (BLC 22 : Wind on Ice (210 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	-2.1	-2.1	0	0
3	BRACE-3	X	-2.1	-2.1	0	0
4	CONN-PL-60-1	X	-1.7	-1.7	0	0
5	CONN-PL-60-2	X	-1.7	-1.7	0	0
6	CONN-PL-90-1	X	-2.9	-2.9	0	0

Member Distributed Loads (BLC 22 : Wind on Ice (210 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
7	CONN-PL-90-2	X	-2.9	-2.9	0	0
8	CONN-PL-180-1	X	-1.7	-1.7	0	0
9	CONN-PL-180-2	X	-1.7	-1.7	0	0
10	CONN-PL-210-1	X	0	0	0	0
11	CONN-PL-210-2	X	0	0	0	0
12	CONN-PL-300-1	X	-3.4	-3.4	0	0
13	CONN-PL-300-2	X	-3.4	-3.4	0	0
14	CONN-PL-330-1	X	-2.9	-2.9	0	0
15	CONN-PL-330-2	X	-2.9	-2.9	0	0
16	COR-1	X	0	0	0	0
17	COR-2	X	-1.6	-1.6	0	0
18	COR-3	X	-1.6	-1.6	0	0
19	COR-PL-90-1	X	-2.9	-2.9	0	0
20	COR-PL-90-2	X	-2.9	-2.9	0	0
21	COR-PL-90-3	X	-2.9	-2.9	0	0
22	COR-PL-90-4	X	-2.9	-2.9	0	0
23	COR-PL-210-1	X	0	0	0	0
24	COR-PL-210-2	X	0	0	0	0
25	COR-PL-210-3	X	0	0	0	0
26	COR-PL-210-4	X	0	0	0	0
27	COR-PL-330-1	X	-2.9	-2.9	0	0
28	COR-PL-330-2	X	-2.9	-2.9	0	0
29	COR-PL-330-3	X	-2.9	-2.9	0	0
30	COR-PL-330-4	X	-2.9	-2.9	0	0
31	FM-0	X	-2.3	-2.3	0	0
32	FM-120	X	0	0	0	0
33	FM-240	X	-2.3	-2.3	0	0
34	GRATE-H-90-1	X	-2	-2	0	0
35	GRATE-H-90-2	X	-2	-2	0	0
36	GRATE-H-210-1	X	0	0	0	0
37	GRATE-H-210-2	X	0	0	0	0
38	GRATE-H-330-1	X	-2	-2	0	0
39	GRATE-H-330-2	X	-2	-2	0	0
40	HR-0	X	-1.8	-1.8	0	0
41	HR-120	X	0	0	0	0
42	HR-240	X	-1.8	-1.8	0	0
43	SA-1	X	-2.4	-2.4	0	0
44	SA-2	X	-1.2	-1.2	0	0
45	SA-3	X	-1.2	-1.2	0	0
46	BRACE-1	Z	0	0	0	0
47	BRACE-2	Z	-1.2	-1.2	0	0
48	BRACE-3	Z	-1.2	-1.2	0	0
49	CONN-PL-60-1	Z	-1	-1	0	0
50	CONN-PL-60-2	Z	-1	-1	0	0
51	CONN-PL-90-1	Z	-1.7	-1.7	0	0
52	CONN-PL-90-2	Z	-1.7	-1.7	0	0
53	CONN-PL-180-1	Z	-1	-1	0	0
54	CONN-PL-180-2	Z	-1	-1	0	0
55	CONN-PL-210-1	Z	0	0	0	0
56	CONN-PL-210-2	Z	0	0	0	0
57	CONN-PL-300-1	Z	-2	-2	0	0
58	CONN-PL-300-2	Z	-2	-2	0	0
59	CONN-PL-330-1	Z	-1.7	-1.7	0	0
60	CONN-PL-330-2	Z	-1.7	-1.7	0	0
61	COR-1	Z	0	0	0	0
62	COR-2	Z	-.9	-.9	0	0
63	COR-3	Z	-.9	-.9	0	0

Member Distributed Loads (BLC 22 : Wind on Ice (210 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
64	COR-PL-90-1	Z	-1.7	-1.7	0	0
65	COR-PL-90-2	Z	-1.7	-1.7	0	0
66	COR-PL-90-3	Z	-1.7	-1.7	0	0
67	COR-PL-90-4	Z	-1.7	-1.7	0	0
68	COR-PL-210-1	Z	0	0	0	0
69	COR-PL-210-2	Z	0	0	0	0
70	COR-PL-210-3	Z	0	0	0	0
71	COR-PL-210-4	Z	0	0	0	0
72	COR-PL-330-1	Z	-1.7	-1.7	0	0
73	COR-PL-330-2	Z	-1.7	-1.7	0	0
74	COR-PL-330-3	Z	-1.7	-1.7	0	0
75	COR-PL-330-4	Z	-1.7	-1.7	0	0
76	FM-0	Z	-1.3	-1.3	0	0
77	FM-120	Z	0	0	0	0
78	FM-240	Z	-1.3	-1.3	0	0
79	GRATE-H-90-1	Z	-1.2	-1.2	0	0
80	GRATE-H-90-2	Z	-1.2	-1.2	0	0
81	GRATE-H-210-1	Z	0	0	0	0
82	GRATE-H-210-2	Z	0	0	0	0
83	GRATE-H-330-1	Z	-1.2	-1.2	0	0
84	GRATE-H-330-2	Z	-1.2	-1.2	0	0
85	HR-0	Z	-1.1	-1.1	0	0
86	HR-120	Z	0	0	0	0
87	HR-240	Z	-1.1	-1.1	0	0
88	SA-1	Z	-1.4	-1.4	0	0
89	SA-2	Z	-.7	-.7	0	0
90	SA-3	Z	-.7	-.7	0	0

Member Distributed Loads (BLC 23 : Wind on Ice (240 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-.7	-.7	0	0
2	BRACE-2	X	-1.4	-1.4	0	0
3	BRACE-3	X	-.7	-.7	0	0
4	CONN-PL-60-1	X	0	0	0	0
5	CONN-PL-60-2	X	0	0	0	0
6	CONN-PL-90-1	X	-1	-1	0	0
7	CONN-PL-90-2	X	-1	-1	0	0
8	CONN-PL-180-1	X	-1.7	-1.7	0	0
9	CONN-PL-180-2	X	-1.7	-1.7	0	0
10	CONN-PL-210-1	X	-1	-1	0	0
11	CONN-PL-210-2	X	-1	-1	0	0
12	CONN-PL-300-1	X	-1.7	-1.7	0	0
13	CONN-PL-300-2	X	-1.7	-1.7	0	0
14	CONN-PL-330-1	X	-2	-2	0	0
15	CONN-PL-330-2	X	-2	-2	0	0
16	COR-1	X	-.5	-.5	0	0
17	COR-2	X	-1.1	-1.1	0	0
18	COR-3	X	-.5	-.5	0	0
19	COR-PL-90-1	X	-1	-1	0	0
20	COR-PL-90-2	X	-1	-1	0	0
21	COR-PL-90-3	X	-1	-1	0	0
22	COR-PL-90-4	X	-1	-1	0	0
23	COR-PL-210-1	X	-1	-1	0	0
24	COR-PL-210-2	X	-1	-1	0	0
25	COR-PL-210-3	X	-1	-1	0	0
26	COR-PL-210-4	X	-1	-1	0	0

Member Distributed Loads (BLC 23 : Wind on Ice (240 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
27	COR-PL-330-1	X	-2	-2	0	0
28	COR-PL-330-2	X	-2	-2	0	0
29	COR-PL-330-3	X	-2	-2	0	0
30	COR-PL-330-4	X	-2	-2	0	0
31	FM-0	X	-.8	-.8	0	0
32	FM-120	X	-.8	-.8	0	0
33	FM-240	X	-1.5	-1.5	0	0
34	GRATE-H-90-1	X	-.7	-.7	0	0
35	GRATE-H-90-2	X	-.7	-.7	0	0
36	GRATE-H-210-1	X	-.7	-.7	0	0
37	GRATE-H-210-2	X	-.7	-.7	0	0
38	GRATE-H-330-1	X	-1.3	-1.3	0	0
39	GRATE-H-330-2	X	-1.3	-1.3	0	0
40	HR-0	X	-.6	-.6	0	0
41	HR-120	X	-.6	-.6	0	0
42	HR-240	X	-1.2	-1.2	0	0
43	SA-1	X	-1.2	-1.2	0	0
44	SA-2	X	0	0	0	0
45	SA-3	X	-1.2	-1.2	0	0
46	BRACE-1	Z	-1.2	-1.2	0	0
47	BRACE-2	Z	-2.4	-2.4	0	0
48	BRACE-3	Z	-1.2	-1.2	0	0
49	CONN-PL-60-1	Z	0	0	0	0
50	CONN-PL-60-2	Z	0	0	0	0
51	CONN-PL-90-1	Z	-1.7	-1.7	0	0
52	CONN-PL-90-2	Z	-1.7	-1.7	0	0
53	CONN-PL-180-1	Z	-2.9	-2.9	0	0
54	CONN-PL-180-2	Z	-2.9	-2.9	0	0
55	CONN-PL-210-1	Z	-1.7	-1.7	0	0
56	CONN-PL-210-2	Z	-1.7	-1.7	0	0
57	CONN-PL-300-1	Z	-2.9	-2.9	0	0
58	CONN-PL-300-2	Z	-2.9	-2.9	0	0
59	CONN-PL-330-1	Z	-3.4	-3.4	0	0
60	CONN-PL-330-2	Z	-3.4	-3.4	0	0
61	COR-1	Z	-.9	-.9	0	0
62	COR-2	Z	-1.9	-1.9	0	0
63	COR-3	Z	-.9	-.9	0	0
64	COR-PL-90-1	Z	-1.7	-1.7	0	0
65	COR-PL-90-2	Z	-1.7	-1.7	0	0
66	COR-PL-90-3	Z	-1.7	-1.7	0	0
67	COR-PL-90-4	Z	-1.7	-1.7	0	0
68	COR-PL-210-1	Z	-1.7	-1.7	0	0
69	COR-PL-210-2	Z	-1.7	-1.7	0	0
70	COR-PL-210-3	Z	-1.7	-1.7	0	0
71	COR-PL-210-4	Z	-1.7	-1.7	0	0
72	COR-PL-330-1	Z	-3.4	-3.4	0	0
73	COR-PL-330-2	Z	-3.4	-3.4	0	0
74	COR-PL-330-3	Z	-3.4	-3.4	0	0
75	COR-PL-330-4	Z	-3.4	-3.4	0	0
76	FM-0	Z	-1.3	-1.3	0	0
77	FM-120	Z	-1.3	-1.3	0	0
78	FM-240	Z	-2.7	-2.7	0	0
79	GRATE-H-90-1	Z	-1.2	-1.2	0	0
80	GRATE-H-90-2	Z	-1.2	-1.2	0	0
81	GRATE-H-210-1	Z	-1.2	-1.2	0	0
82	GRATE-H-210-2	Z	-1.2	-1.2	0	0
83	GRATE-H-330-1	Z	-2.3	-2.3	0	0

Member Distributed Loads (BLC 23 : Wind on Ice (240 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
84	GRATE-H-330-2	Z	-2.3	-2.3	0	0
85	HR-0	Z	-1.1	-1.1	0	0
86	HR-120	Z	-1.1	-1.1	0	0
87	HR-240	Z	-2.1	-2.1	0	0
88	SA-1	Z	-2.1	-2.1	0	0
89	SA-2	Z	0	0	0	0
90	SA-3	Z	-2.1	-2.1	0	0

Member Distributed Loads (BLC 24 : Wind on Ice (270 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	0	0	0	0
4	CONN-PL-60-1	X	0	0	0	0
5	CONN-PL-60-2	X	0	0	0	0
6	CONN-PL-90-1	X	0	0	0	0
7	CONN-PL-90-2	X	0	0	0	0
8	CONN-PL-180-1	X	0	0	0	0
9	CONN-PL-180-2	X	0	0	0	0
10	CONN-PL-210-1	X	0	0	0	0
11	CONN-PL-210-2	X	0	0	0	0
12	CONN-PL-300-1	X	0	0	0	0
13	CONN-PL-300-2	X	0	0	0	0
14	CONN-PL-330-1	X	0	0	0	0
15	CONN-PL-330-2	X	0	0	0	0
16	COR-1	X	0	0	0	0
17	COR-2	X	0	0	0	0
18	COR-3	X	0	0	0	0
19	COR-PL-90-1	X	0	0	0	0
20	COR-PL-90-2	X	0	0	0	0
21	COR-PL-90-3	X	0	0	0	0
22	COR-PL-90-4	X	0	0	0	0
23	COR-PL-210-1	X	0	0	0	0
24	COR-PL-210-2	X	0	0	0	0
25	COR-PL-210-3	X	0	0	0	0
26	COR-PL-210-4	X	0	0	0	0
27	COR-PL-330-1	X	0	0	0	0
28	COR-PL-330-2	X	0	0	0	0
29	COR-PL-330-3	X	0	0	0	0
30	COR-PL-330-4	X	0	0	0	0
31	FM-0	X	0	0	0	0
32	FM-120	X	0	0	0	0
33	FM-240	X	0	0	0	0
34	GRATE-H-90-1	X	0	0	0	0
35	GRATE-H-90-2	X	0	0	0	0
36	GRATE-H-210-1	X	0	0	0	0
37	GRATE-H-210-2	X	0	0	0	0
38	GRATE-H-330-1	X	0	0	0	0
39	GRATE-H-330-2	X	0	0	0	0
40	HR-0	X	0	0	0	0
41	HR-120	X	0	0	0	0
42	HR-240	X	0	0	0	0
43	SA-1	X	0	0	0	0
44	SA-2	X	0	0	0	0
45	SA-3	X	0	0	0	0
46	BRACE-1	Z	-2.4	-2.4	0	0

Member Distributed Loads (BLC 24 : Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
47	BRACE-2	Z	-2.4	-2.4	0	0
48	BRACE-3	Z	0	0	0	0
49	CONN-PL-60-1	Z	-2	-2	0	0
50	CONN-PL-60-2	Z	-2	-2	0	0
51	CONN-PL-90-1	Z	0	0	0	0
52	CONN-PL-90-2	Z	0	0	0	0
53	CONN-PL-180-1	Z	-3.9	-3.9	0	0
54	CONN-PL-180-2	Z	-3.9	-3.9	0	0
55	CONN-PL-210-1	Z	-3.4	-3.4	0	0
56	CONN-PL-210-2	Z	-3.4	-3.4	0	0
57	CONN-PL-300-1	Z	-2	-2	0	0
58	CONN-PL-300-2	Z	-2	-2	0	0
59	CONN-PL-330-1	Z	-3.4	-3.4	0	0
60	CONN-PL-330-2	Z	-3.4	-3.4	0	0
61	COR-1	Z	-1.9	-1.9	0	0
62	COR-2	Z	-1.9	-1.9	0	0
63	COR-3	Z	0	0	0	0
64	COR-PL-90-1	Z	0	0	0	0
65	COR-PL-90-2	Z	0	0	0	0
66	COR-PL-90-3	Z	0	0	0	0
67	COR-PL-90-4	Z	0	0	0	0
68	COR-PL-210-1	Z	-3.4	-3.4	0	0
69	COR-PL-210-2	Z	-3.4	-3.4	0	0
70	COR-PL-210-3	Z	-3.4	-3.4	0	0
71	COR-PL-210-4	Z	-3.4	-3.4	0	0
72	COR-PL-330-1	Z	-3.4	-3.4	0	0
73	COR-PL-330-2	Z	-3.4	-3.4	0	0
74	COR-PL-330-3	Z	-3.4	-3.4	0	0
75	COR-PL-330-4	Z	-3.4	-3.4	0	0
76	FM-0	Z	0	0	0	0
77	FM-120	Z	-2.7	-2.7	0	0
78	FM-240	Z	-2.7	-2.7	0	0
79	GRATE-H-90-1	Z	0	0	0	0
80	GRATE-H-90-2	Z	0	0	0	0
81	GRATE-H-210-1	Z	-2.3	-2.3	0	0
82	GRATE-H-210-2	Z	-2.3	-2.3	0	0
83	GRATE-H-330-1	Z	-2.3	-2.3	0	0
84	GRATE-H-330-2	Z	-2.3	-2.3	0	0
85	HR-0	Z	0	0	0	0
86	HR-120	Z	-2.1	-2.1	0	0
87	HR-240	Z	-2.1	-2.1	0	0
88	SA-1	Z	-1.4	-1.4	0	0
89	SA-2	Z	-1.4	-1.4	0	0
90	SA-3	Z	-2.8	-2.8	0	0

Member Distributed Loads (BLC 25 : Wind on Ice (300 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	1.4	1.4	0	0
2	BRACE-2	X	.7	.7	0	0
3	BRACE-3	X	.7	.7	0	0
4	CONN-PL-60-1	X	1.7	1.7	0	0
5	CONN-PL-60-2	X	1.7	1.7	0	0
6	CONN-PL-90-1	X	1	1	0	0
7	CONN-PL-90-2	X	1	1	0	0
8	CONN-PL-180-1	X	1.7	1.7	0	0
9	CONN-PL-180-2	X	1.7	1.7	0	0

Member Distributed Loads (BLC 25 : Wind on Ice (300 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
10	CONN-PL-210-1	X	2	2	0	0
11	CONN-PL-210-2	X	2	2	0	0
12	CONN-PL-300-1	X	0	0	0	0
13	CONN-PL-300-2	X	0	0	0	0
14	CONN-PL-330-1	X	1	1	0	0
15	CONN-PL-330-2	X	1	1	0	0
16	COR-1	X	1.1	1.1	0	0
17	COR-2	X	.5	.5	0	0
18	COR-3	X	.5	.5	0	0
19	COR-PL-90-1	X	1	1	0	0
20	COR-PL-90-2	X	1	1	0	0
21	COR-PL-90-3	X	1	1	0	0
22	COR-PL-90-4	X	1	1	0	0
23	COR-PL-210-1	X	2	2	0	0
24	COR-PL-210-2	X	2	2	0	0
25	COR-PL-210-3	X	2	2	0	0
26	COR-PL-210-4	X	2	2	0	0
27	COR-PL-330-1	X	1	1	0	0
28	COR-PL-330-2	X	1	1	0	0
29	COR-PL-330-3	X	1	1	0	0
30	COR-PL-330-4	X	1	1	0	0
31	FM-0	X	.8	.8	0	0
32	FM-120	X	1.5	1.5	0	0
33	FM-240	X	.8	.8	0	0
34	GRATE-H-90-1	X	.7	.7	0	0
35	GRATE-H-90-2	X	.7	.7	0	0
36	GRATE-H-210-1	X	1.3	1.3	0	0
37	GRATE-H-210-2	X	1.3	1.3	0	0
38	GRATE-H-330-1	X	.7	.7	0	0
39	GRATE-H-330-2	X	.7	.7	0	0
40	HR-0	X	.6	.6	0	0
41	HR-120	X	1.2	1.2	0	0
42	HR-240	X	.6	.6	0	0
43	SA-1	X	0	0	0	0
44	SA-2	X	1.2	1.2	0	0
45	SA-3	X	1.2	1.2	0	0
46	BRACE-1	Z	-2.4	-2.4	0	0
47	BRACE-2	Z	-1.2	-1.2	0	0
48	BRACE-3	Z	-1.2	-1.2	0	0
49	CONN-PL-60-1	Z	-2.9	-2.9	0	0
50	CONN-PL-60-2	Z	-2.9	-2.9	0	0
51	CONN-PL-90-1	Z	-1.7	-1.7	0	0
52	CONN-PL-90-2	Z	-1.7	-1.7	0	0
53	CONN-PL-180-1	Z	-2.9	-2.9	0	0
54	CONN-PL-180-2	Z	-2.9	-2.9	0	0
55	CONN-PL-210-1	Z	-3.4	-3.4	0	0
56	CONN-PL-210-2	Z	-3.4	-3.4	0	0
57	CONN-PL-300-1	Z	0	0	0	0
58	CONN-PL-300-2	Z	0	0	0	0
59	CONN-PL-330-1	Z	-1.7	-1.7	0	0
60	CONN-PL-330-2	Z	-1.7	-1.7	0	0
61	COR-1	Z	-1.9	-1.9	0	0
62	COR-2	Z	-.9	-.9	0	0
63	COR-3	Z	-.9	-.9	0	0
64	COR-PL-90-1	Z	-1.7	-1.7	0	0
65	COR-PL-90-2	Z	-1.7	-1.7	0	0
66	COR-PL-90-3	Z	-1.7	-1.7	0	0

Member Distributed Loads (BLC 25 : Wind on Ice (300 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
67	COR-PL-90-4	Z	-1.7	-1.7	0	0
68	COR-PL-210-1	Z	-3.4	-3.4	0	0
69	COR-PL-210-2	Z	-3.4	-3.4	0	0
70	COR-PL-210-3	Z	-3.4	-3.4	0	0
71	COR-PL-210-4	Z	-3.4	-3.4	0	0
72	COR-PL-330-1	Z	-1.7	-1.7	0	0
73	COR-PL-330-2	Z	-1.7	-1.7	0	0
74	COR-PL-330-3	Z	-1.7	-1.7	0	0
75	COR-PL-330-4	Z	-1.7	-1.7	0	0
76	FM-0	Z	-1.3	-1.3	0	0
77	FM-120	Z	-2.7	-2.7	0	0
78	FM-240	Z	-1.3	-1.3	0	0
79	GRATE-H-90-1	Z	-1.2	-1.2	0	0
80	GRATE-H-90-2	Z	-1.2	-1.2	0	0
81	GRATE-H-210-1	Z	-2.3	-2.3	0	0
82	GRATE-H-210-2	Z	-2.3	-2.3	0	0
83	GRATE-H-330-1	Z	-1.2	-1.2	0	0
84	GRATE-H-330-2	Z	-1.2	-1.2	0	0
85	HR-0	Z	-1.1	-1.1	0	0
86	HR-120	Z	-2.1	-2.1	0	0
87	HR-240	Z	-1.1	-1.1	0	0
88	SA-1	Z	0	0	0	0
89	SA-2	Z	-2.1	-2.1	0	0
90	SA-3	Z	-2.1	-2.1	0	0

Member Distributed Loads (BLC 26 : Wind on Ice (330 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	2.1	2.1	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	2.1	2.1	0	0
4	CONN-PL-60-1	X	3.4	3.4	0	0
5	CONN-PL-60-2	X	3.4	3.4	0	0
6	CONN-PL-90-1	X	2.9	2.9	0	0
7	CONN-PL-90-2	X	2.9	2.9	0	0
8	CONN-PL-180-1	X	1.7	1.7	0	0
9	CONN-PL-180-2	X	1.7	1.7	0	0
10	CONN-PL-210-1	X	2.9	2.9	0	0
11	CONN-PL-210-2	X	2.9	2.9	0	0
12	CONN-PL-300-1	X	1.7	1.7	0	0
13	CONN-PL-300-2	X	1.7	1.7	0	0
14	CONN-PL-330-1	X	0	0	0	0
15	CONN-PL-330-2	X	0	0	0	0
16	COR-1	X	1.6	1.6	0	0
17	COR-2	X	0	0	0	0
18	COR-3	X	1.6	1.6	0	0
19	COR-PL-90-1	X	2.9	2.9	0	0
20	COR-PL-90-2	X	2.9	2.9	0	0
21	COR-PL-90-3	X	2.9	2.9	0	0
22	COR-PL-90-4	X	2.9	2.9	0	0
23	COR-PL-210-1	X	2.9	2.9	0	0
24	COR-PL-210-2	X	2.9	2.9	0	0
25	COR-PL-210-3	X	2.9	2.9	0	0
26	COR-PL-210-4	X	2.9	2.9	0	0
27	COR-PL-330-1	X	0	0	0	0
28	COR-PL-330-2	X	0	0	0	0
29	COR-PL-330-3	X	0	0	0	0

Member Distributed Loads (BLC 26 : Wind on Ice (330 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
30	COR-PL-330-4	X	0	0	0	0
31	FM-0	X	2.3	2.3	0	0
32	FM-120	X	2.3	2.3	0	0
33	FM-240	X	0	0	0	0
34	GRATE-H-90-1	X	2	2	0	0
35	GRATE-H-90-2	X	2	2	0	0
36	GRATE-H-210-1	X	2	2	0	0
37	GRATE-H-210-2	X	2	2	0	0
38	GRATE-H-330-1	X	0	0	0	0
39	GRATE-H-330-2	X	0	0	0	0
40	HR-0	X	1.8	1.8	0	0
41	HR-120	X	1.8	1.8	0	0
42	HR-240	X	0	0	0	0
43	SA-1	X	1.2	1.2	0	0
44	SA-2	X	2.4	2.4	0	0
45	SA-3	X	1.2	1.2	0	0
46	BRACE-1	Z	-1.2	-1.2	0	0
47	BRACE-2	Z	0	0	0	0
48	BRACE-3	Z	-1.2	-1.2	0	0
49	CONN-PL-60-1	Z	-2	-2	0	0
50	CONN-PL-60-2	Z	-2	-2	0	0
51	CONN-PL-90-1	Z	-1.7	-1.7	0	0
52	CONN-PL-90-2	Z	-1.7	-1.7	0	0
53	CONN-PL-180-1	Z	-1	-1	0	0
54	CONN-PL-180-2	Z	-1	-1	0	0
55	CONN-PL-210-1	Z	-1.7	-1.7	0	0
56	CONN-PL-210-2	Z	-1.7	-1.7	0	0
57	CONN-PL-300-1	Z	-1	-1	0	0
58	CONN-PL-300-2	Z	-1	-1	0	0
59	CONN-PL-330-1	Z	0	0	0	0
60	CONN-PL-330-2	Z	0	0	0	0
61	COR-1	Z	-.9	-.9	0	0
62	COR-2	Z	0	0	0	0
63	COR-3	Z	-.9	-.9	0	0
64	COR-PL-90-1	Z	-1.7	-1.7	0	0
65	COR-PL-90-2	Z	-1.7	-1.7	0	0
66	COR-PL-90-3	Z	-1.7	-1.7	0	0
67	COR-PL-90-4	Z	-1.7	-1.7	0	0
68	COR-PL-210-1	Z	-1.7	-1.7	0	0
69	COR-PL-210-2	Z	-1.7	-1.7	0	0
70	COR-PL-210-3	Z	-1.7	-1.7	0	0
71	COR-PL-210-4	Z	-1.7	-1.7	0	0
72	COR-PL-330-1	Z	0	0	0	0
73	COR-PL-330-2	Z	0	0	0	0
74	COR-PL-330-3	Z	0	0	0	0
75	COR-PL-330-4	Z	0	0	0	0
76	FM-0	Z	-1.3	-1.3	0	0
77	FM-120	Z	-1.3	-1.3	0	0
78	FM-240	Z	0	0	0	0
79	GRATE-H-90-1	Z	-1.2	-1.2	0	0
80	GRATE-H-90-2	Z	-1.2	-1.2	0	0
81	GRATE-H-210-1	Z	-1.2	-1.2	0	0
82	GRATE-H-210-2	Z	-1.2	-1.2	0	0
83	GRATE-H-330-1	Z	0	0	0	0
84	GRATE-H-330-2	Z	0	0	0	0
85	HR-0	Z	-1.1	-1.1	0	0
86	HR-120	Z	-1.1	-1.1	0	0

Member Distributed Loads (BLC 26 : Wind on Ice (330 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
87	HR-240	Z	0	0	0	0
88	SA-1	Z	-.7	-.7	0	0
89	SA-2	Z	-1.4	-1.4	0	0
90	SA-3	Z	-.7	-.7	0	0

Member Distributed Loads (BLC 213 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-2	Y	-.002	-.106	0	4.142
2	BRACE-2	Y	-.106	-.369	4.142	8.284
3	BRACE-2	Y	-.369	-.708	8.284	12.426
4	BRACE-2	Y	-.708	-1.112	12.426	16.569
5	BRACE-2	Y	-1.112	-1.214	16.569	20.711
6	BRACE-2	Y	-1.214	-.648	20.711	24.853
7	BRACE-2	Y	-.648	-.207	24.853	28.995
8	BRACE-2	Y	-.207	-.448	28.995	33.137
9	BRACE-2	Y	-.448	-1.087	33.137	37.279
10	BRACE-2	Y	-1.087	-1.21	37.279	41.422
11	BRACE-2	Y	-1.21	-.689	41.422	45.564
12	BRACE-2	Y	-.689	-.401	45.564	49.706
13	BRACE-2	Y	-.401	-.307	49.706	53.848
14	GRATE-H-90-2	Y	-.009	-.143	0	4.226
15	GRATE-H-90-2	Y	-.143	-.369	4.226	8.453
16	GRATE-H-90-2	Y	-.369	-.498	8.453	12.679
17	GRATE-H-90-2	Y	-.498	-.599	12.679	16.906
18	GRATE-H-90-2	Y	-.599	-.738	16.906	21.132
19	GRATE-H-90-2	Y	-.738	-.925	21.132	25.359
20	GRATE-H-90-2	Y	-.925	-1.122	25.359	29.585
21	GRATE-H-90-2	Y	-1.122	-1.224	29.585	33.811
22	GRATE-H-90-2	Y	-1.224	-1.208	33.811	38.038
23	GRATE-H-90-2	Y	-1.208	-.813	38.038	42.264
24	GRATE-H-90-2	Y	-.813	-.342	42.264	46.491
25	GRATE-H-90-2	Y	-.342	-.025	46.491	50.717
26	GRATE-H-210-1	Y	-.006	-.14	0	4.226
27	GRATE-H-210-1	Y	-.14	-.369	4.226	8.453
28	GRATE-H-210-1	Y	-.369	-.499	8.453	12.679
29	GRATE-H-210-1	Y	-.499	-.61	12.679	16.906
30	GRATE-H-210-1	Y	-.61	-.775	16.906	21.132
31	GRATE-H-210-1	Y	-.775	-.922	21.132	25.358
32	GRATE-H-210-1	Y	-.922	-1.166	25.358	29.585
33	GRATE-H-210-1	Y	-1.166	-1.288	29.585	33.811
34	GRATE-H-210-1	Y	-1.288	-1.042	33.811	38.038
35	GRATE-H-210-1	Y	-1.042	-.638	38.038	42.264
36	GRATE-H-210-1	Y	-.638	-.284	42.264	46.49
37	GRATE-H-210-1	Y	-.284	-.006	46.49	50.717
38	SA-2	Y	-.058	-.325	0	4.15
39	SA-2	Y	-.325	-.631	4.15	8.3
40	SA-2	Y	-.631	-1.1	8.3	12.45
41	SA-2	Y	-1.1	-1.422	12.45	16.6
42	SA-2	Y	-1.422	-1.646	16.6	20.75
43	SA-2	Y	-1.646	-1.99	20.75	24.9
44	SA-2	Y	-1.99	-2.294	24.9	29.05
45	SA-2	Y	-2.294	-2.483	29.05	33.2
46	SA-2	Y	-2.483	-1.893	33.2	37.35
47	SA-2	Y	-1.893	-.798	37.35	41.5
48	SA-2	Y	-.798	-.163	41.5	45.65
49	SA-2	Y	-.163	-.006	45.65	49.8

Member Distributed Loads (BLC 213 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
50	BRACE-3	Y	-.002	-.106	0	4.142
51	BRACE-3	Y	-.106	-.369	4.142	8.284
52	BRACE-3	Y	-.369	-.708	8.284	12.426
53	BRACE-3	Y	-.708	-1.112	12.426	16.569
54	BRACE-3	Y	-1.112	-1.214	16.569	20.711
55	BRACE-3	Y	-1.214	-.648	20.711	24.853
56	BRACE-3	Y	-.648	-.207	24.853	28.995
57	BRACE-3	Y	-.207	-.448	28.995	33.137
58	BRACE-3	Y	-.448	-1.087	33.137	37.279
59	BRACE-3	Y	-1.087	-1.21	37.279	41.422
60	BRACE-3	Y	-1.21	-.689	41.422	45.564
61	BRACE-3	Y	-.689	-.401	45.564	49.706
62	BRACE-3	Y	-.401	-.307	49.706	53.848
63	GRATE-H-210-2	Y	-.009	-.143	0	4.226
64	GRATE-H-210-2	Y	-.143	-.369	4.226	8.453
65	GRATE-H-210-2	Y	-.369	-.498	8.453	12.679
66	GRATE-H-210-2	Y	-.498	-.599	12.679	16.906
67	GRATE-H-210-2	Y	-.599	-.738	16.906	21.132
68	GRATE-H-210-2	Y	-.738	-.925	21.132	25.359
69	GRATE-H-210-2	Y	-.925	-1.122	25.359	29.585
70	GRATE-H-210-2	Y	-1.122	-1.224	29.585	33.811
71	GRATE-H-210-2	Y	-1.224	-1.208	33.811	38.038
72	GRATE-H-210-2	Y	-1.208	-.813	38.038	42.264
73	GRATE-H-210-2	Y	-.813	-.342	42.264	46.491
74	GRATE-H-210-2	Y	-.342	-.025	46.491	50.717
75	GRATE-H-330-1	Y	-.006	-.14	0	4.226
76	GRATE-H-330-1	Y	-.14	-.369	4.226	8.453
77	GRATE-H-330-1	Y	-.369	-.499	8.453	12.679
78	GRATE-H-330-1	Y	-.499	-.61	12.679	16.906
79	GRATE-H-330-1	Y	-.61	-.775	16.906	21.132
80	GRATE-H-330-1	Y	-.775	-.922	21.132	25.358
81	GRATE-H-330-1	Y	-.922	-1.166	25.358	29.585
82	GRATE-H-330-1	Y	-1.166	-1.288	29.585	33.811
83	GRATE-H-330-1	Y	-1.288	-1.042	33.811	38.038
84	GRATE-H-330-1	Y	-1.042	-.638	38.038	42.264
85	GRATE-H-330-1	Y	-.638	-.284	42.264	46.49
86	GRATE-H-330-1	Y	-.284	-.006	46.49	50.717
87	SA-3	Y	-.058	-.325	0	4.15
88	SA-3	Y	-.325	-.631	4.15	8.3
89	SA-3	Y	-.631	-1.1	8.3	12.45
90	SA-3	Y	-1.1	-1.422	12.45	16.6
91	SA-3	Y	-1.422	-1.646	16.6	20.75
92	SA-3	Y	-1.646	-1.99	20.75	24.9
93	SA-3	Y	-1.99	-2.294	24.9	29.05
94	SA-3	Y	-2.294	-2.483	29.05	33.2
95	SA-3	Y	-2.483	-1.893	33.2	37.35
96	SA-3	Y	-1.893	-.798	37.35	41.5
97	SA-3	Y	-.798	-.163	41.5	45.65
98	SA-3	Y	-.163	-.006	45.65	49.8
99	BRACE-1	Y	-.002	-.106	0	4.142
100	BRACE-1	Y	-.106	-.369	4.142	8.284
101	BRACE-1	Y	-.369	-.708	8.284	12.426
102	BRACE-1	Y	-.708	-1.112	12.426	16.569
103	BRACE-1	Y	-1.112	-1.214	16.569	20.711
104	BRACE-1	Y	-1.214	-.648	20.711	24.853
105	BRACE-1	Y	-.648	-.207	24.853	28.995
106	BRACE-1	Y	-.207	-.448	28.995	33.137

Member Distributed Loads (BLC 213 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
107	BRACE-1	Y	-.448	-1.087	33.137	37.279
108	BRACE-1	Y	-1.087	-1.21	37.279	41.422
109	BRACE-1	Y	-1.21	-.689	41.422	45.564
110	BRACE-1	Y	-.689	-.401	45.564	49.706
111	BRACE-1	Y	-.401	-.307	49.706	53.848
112	GRATE-H-90-1	Y	-.006	-.14	0	4.226
113	GRATE-H-90-1	Y	-.14	-.369	4.226	8.453
114	GRATE-H-90-1	Y	-.369	-.499	8.453	12.679
115	GRATE-H-90-1	Y	-.499	-.61	12.679	16.906
116	GRATE-H-90-1	Y	-.61	-.775	16.906	21.132
117	GRATE-H-90-1	Y	-.775	-.922	21.132	25.358
118	GRATE-H-90-1	Y	-.922	-1.166	25.358	29.585
119	GRATE-H-90-1	Y	-1.166	-1.288	29.585	33.811
120	GRATE-H-90-1	Y	-1.288	-1.042	33.811	38.038
121	GRATE-H-90-1	Y	-1.042	-.638	38.038	42.264
122	GRATE-H-90-1	Y	-.638	-.284	42.264	46.49
123	GRATE-H-90-1	Y	-.284	-.006	46.49	50.717
124	GRATE-H-330-2	Y	-.009	-.143	0	4.226
125	GRATE-H-330-2	Y	-.143	-.369	4.226	8.453
126	GRATE-H-330-2	Y	-.369	-.498	8.453	12.679
127	GRATE-H-330-2	Y	-.498	-.6	12.679	16.906
128	GRATE-H-330-2	Y	-.6	-.737	16.906	21.132
129	GRATE-H-330-2	Y	-.737	-.924	21.132	25.359
130	GRATE-H-330-2	Y	-.924	-1.123	25.359	29.585
131	GRATE-H-330-2	Y	-1.123	-1.225	29.585	33.811
132	GRATE-H-330-2	Y	-1.225	-1.209	33.811	38.038
133	GRATE-H-330-2	Y	-1.209	-.813	38.038	42.264
134	GRATE-H-330-2	Y	-.813	-.342	42.264	46.491
135	GRATE-H-330-2	Y	-.342	-.025	46.491	50.717
136	SA-1	Y	-.058	-.325	0	4.15
137	SA-1	Y	-.325	-.631	4.15	8.3
138	SA-1	Y	-.631	-1.1	8.3	12.45
139	SA-1	Y	-1.1	-1.423	12.45	16.6
140	SA-1	Y	-1.423	-1.646	16.6	20.75
141	SA-1	Y	-1.646	-1.988	20.75	24.9
142	SA-1	Y	-1.988	-2.293	24.9	29.05
143	SA-1	Y	-2.293	-2.484	29.05	33.2
144	SA-1	Y	-2.484	-1.894	33.2	37.35
145	SA-1	Y	-1.894	-.798	37.35	41.5
146	SA-1	Y	-.798	-.163	41.5	45.65
147	SA-1	Y	-.163	-.006	45.65	49.8

Member Distributed Loads (BLC 214 : BLC 14 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-2	Y	-.011	-.629	0	4.142
2	BRACE-2	Y	-.629	-2.193	4.142	8.284
3	BRACE-2	Y	-2.193	-4.206	8.284	12.426
4	BRACE-2	Y	-4.206	-6.606	12.426	16.569
5	BRACE-2	Y	-6.606	-7.214	16.569	20.711
6	BRACE-2	Y	-7.214	-3.85	20.711	24.853
7	BRACE-2	Y	-3.85	-1.231	24.853	28.995
8	BRACE-2	Y	-1.231	-2.66	28.995	33.137
9	BRACE-2	Y	-2.66	-6.46	33.137	37.279
10	BRACE-2	Y	-6.46	-7.192	37.279	41.422
11	BRACE-2	Y	-7.192	-4.095	41.422	45.564
12	BRACE-2	Y	-4.095	-2.381	45.564	49.706

Member Distributed Loads (BLC 214 : BLC 14 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
13	BRACE-2	Y	-2.381	-1.826	49.706	53.848
14	GRATE-H-90-2	Y	-.051	-.847	0	4.226
15	GRATE-H-90-2	Y	-.847	-2.194	4.226	8.453
16	GRATE-H-90-2	Y	-2.194	-2.957	8.453	12.679
17	GRATE-H-90-2	Y	-2.957	-3.562	12.679	16.906
18	GRATE-H-90-2	Y	-3.562	-4.385	16.906	21.132
19	GRATE-H-90-2	Y	-4.385	-5.495	21.132	25.359
20	GRATE-H-90-2	Y	-5.495	-6.667	25.359	29.585
21	GRATE-H-90-2	Y	-6.667	-7.276	29.585	33.811
22	GRATE-H-90-2	Y	-7.276	-7.182	33.811	38.038
23	GRATE-H-90-2	Y	-7.182	-4.832	38.038	42.264
24	GRATE-H-90-2	Y	-4.832	-2.03	42.264	46.491
25	GRATE-H-90-2	Y	-2.03	-.147	46.491	50.717
26	GRATE-H-210-1	Y	-.035	-.832	0	4.226
27	GRATE-H-210-1	Y	-.832	-2.191	4.226	8.453
28	GRATE-H-210-1	Y	-2.191	-2.967	8.453	12.679
29	GRATE-H-210-1	Y	-2.967	-3.628	12.679	16.906
30	GRATE-H-210-1	Y	-3.628	-4.603	16.906	21.132
31	GRATE-H-210-1	Y	-4.603	-5.481	21.132	25.358
32	GRATE-H-210-1	Y	-5.481	-6.928	25.358	29.585
33	GRATE-H-210-1	Y	-6.928	-7.657	29.585	33.811
34	GRATE-H-210-1	Y	-7.657	-6.194	33.811	38.038
35	GRATE-H-210-1	Y	-6.194	-3.793	38.038	42.264
36	GRATE-H-210-1	Y	-3.793	-1.686	42.264	46.49
37	GRATE-H-210-1	Y	-1.686	-.035	46.49	50.717
38	SA-2	Y	-.345	-1.933	0	4.15
39	SA-2	Y	-1.933	-3.748	4.15	8.3
40	SA-2	Y	-3.748	-6.539	8.3	12.45
41	SA-2	Y	-6.539	-8.45	12.45	16.6
42	SA-2	Y	-8.45	-9.784	16.6	20.75
43	SA-2	Y	-9.784	-11.825	20.75	24.9
44	SA-2	Y	-11.825	-13.63	24.9	29.05
45	SA-2	Y	-13.63	-14.758	29.05	33.2
46	SA-2	Y	-14.758	-11.253	33.2	37.35
47	SA-2	Y	-11.253	-4.74	37.35	41.5
48	SA-2	Y	-4.74	-.968	41.5	45.65
49	SA-2	Y	-.968	-.033	45.65	49.8
50	BRACE-3	Y	-.011	-.629	0	4.142
51	BRACE-3	Y	-.629	-2.193	4.142	8.284
52	BRACE-3	Y	-2.193	-4.206	8.284	12.426
53	BRACE-3	Y	-4.206	-6.606	12.426	16.569
54	BRACE-3	Y	-6.606	-7.214	16.569	20.711
55	BRACE-3	Y	-7.214	-3.85	20.711	24.853
56	BRACE-3	Y	-3.85	-1.231	24.853	28.995
57	BRACE-3	Y	-1.231	-2.66	28.995	33.137
58	BRACE-3	Y	-2.66	-6.46	33.137	37.279
59	BRACE-3	Y	-6.46	-7.192	37.279	41.422
60	BRACE-3	Y	-7.192	-4.095	41.422	45.564
61	BRACE-3	Y	-4.095	-2.381	45.564	49.706
62	BRACE-3	Y	-2.381	-1.826	49.706	53.848
63	GRATE-H-210-2	Y	-.051	-.847	0	4.226
64	GRATE-H-210-2	Y	-.847	-2.194	4.226	8.453
65	GRATE-H-210-2	Y	-2.194	-2.957	8.453	12.679
66	GRATE-H-210-2	Y	-2.957	-3.562	12.679	16.906
67	GRATE-H-210-2	Y	-3.562	-4.385	16.906	21.132
68	GRATE-H-210-2	Y	-4.385	-5.495	21.132	25.359
69	GRATE-H-210-2	Y	-5.495	-6.667	25.359	29.585

Member Distributed Loads (BLC 214 : BLC 14 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
70	GRATE-H-210-2	Y	-6.667	-7.276	29.585	33.811
71	GRATE-H-210-2	Y	-7.276	-7.182	33.811	38.038
72	GRATE-H-210-2	Y	-7.182	-4.832	38.038	42.264
73	GRATE-H-210-2	Y	-4.832	-2.03	42.264	46.491
74	GRATE-H-210-2	Y	-2.03	-.147	46.491	50.717
75	GRATE-H-330-1	Y	-.035	-.832	0	4.226
76	GRATE-H-330-1	Y	-.832	-2.191	4.226	8.453
77	GRATE-H-330-1	Y	-2.191	-2.967	8.453	12.679
78	GRATE-H-330-1	Y	-2.967	-3.628	12.679	16.906
79	GRATE-H-330-1	Y	-3.628	-4.603	16.906	21.132
80	GRATE-H-330-1	Y	-4.603	-5.481	21.132	25.358
81	GRATE-H-330-1	Y	-5.481	-6.928	25.358	29.585
82	GRATE-H-330-1	Y	-6.928	-7.657	29.585	33.811
83	GRATE-H-330-1	Y	-7.657	-6.194	33.811	38.038
84	GRATE-H-330-1	Y	-6.194	-3.793	38.038	42.264
85	GRATE-H-330-1	Y	-3.793	-1.686	42.264	46.49
86	GRATE-H-330-1	Y	-1.686	-.035	46.49	50.717
87	SA-3	Y	-.345	-1.933	0	4.15
88	SA-3	Y	-1.933	-3.748	4.15	8.3
89	SA-3	Y	-3.748	-6.539	8.3	12.45
90	SA-3	Y	-6.539	-8.45	12.45	16.6
91	SA-3	Y	-8.45	-9.784	16.6	20.75
92	SA-3	Y	-9.784	-11.825	20.75	24.9
93	SA-3	Y	-11.825	-13.63	24.9	29.05
94	SA-3	Y	-13.63	-14.758	29.05	33.2
95	SA-3	Y	-14.758	-11.253	33.2	37.35
96	SA-3	Y	-11.253	-4.74	37.35	41.5
97	SA-3	Y	-4.74	-.968	41.5	45.65
98	SA-3	Y	-.968	-.033	45.65	49.8
99	BRACE-1	Y	-.011	-.629	0	4.142
100	BRACE-1	Y	-.629	-2.193	4.142	8.284
101	BRACE-1	Y	-2.193	-4.206	8.284	12.426
102	BRACE-1	Y	-4.206	-6.606	12.426	16.569
103	BRACE-1	Y	-6.606	-7.214	16.569	20.711
104	BRACE-1	Y	-7.214	-3.85	20.711	24.853
105	BRACE-1	Y	-3.85	-1.231	24.853	28.995
106	BRACE-1	Y	-1.231	-2.66	28.995	33.137
107	BRACE-1	Y	-2.66	-6.461	33.137	37.279
108	BRACE-1	Y	-6.461	-7.193	37.279	41.422
109	BRACE-1	Y	-7.193	-4.095	41.422	45.564
110	BRACE-1	Y	-4.095	-2.381	45.564	49.706
111	BRACE-1	Y	-2.381	-1.826	49.706	53.848
112	GRATE-H-90-1	Y	-.035	-.832	0	4.226
113	GRATE-H-90-1	Y	-.832	-2.191	4.226	8.453
114	GRATE-H-90-1	Y	-2.191	-2.967	8.453	12.679
115	GRATE-H-90-1	Y	-2.967	-3.628	12.679	16.906
116	GRATE-H-90-1	Y	-3.628	-4.603	16.906	21.132
117	GRATE-H-90-1	Y	-4.603	-5.481	21.132	25.358
118	GRATE-H-90-1	Y	-5.481	-6.928	25.358	29.585
119	GRATE-H-90-1	Y	-6.928	-7.657	29.585	33.811
120	GRATE-H-90-1	Y	-7.657	-6.194	33.811	38.038
121	GRATE-H-90-1	Y	-6.194	-3.793	38.038	42.264
122	GRATE-H-90-1	Y	-3.793	-1.686	42.264	46.49
123	GRATE-H-90-1	Y	-1.686	-.035	46.49	50.717
124	GRATE-H-330-2	Y	-.051	-.847	0	4.226
125	GRATE-H-330-2	Y	-.847	-2.194	4.226	8.453
126	GRATE-H-330-2	Y	-2.194	-2.957	8.453	12.679

Member Distributed Loads (BLC 214 : BLC 14 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
127	GRATE-H-330-2	Y	-2.957	-3.563	12.679	16.906
128	GRATE-H-330-2	Y	-3.563	-4.381	16.906	21.132
129	GRATE-H-330-2	Y	-4.381	-5.493	21.132	25.359
130	GRATE-H-330-2	Y	-5.493	-6.673	25.359	29.585
131	GRATE-H-330-2	Y	-6.673	-7.281	29.585	33.811
132	GRATE-H-330-2	Y	-7.281	-7.183	33.811	38.038
133	GRATE-H-330-2	Y	-7.183	-4.833	38.038	42.264
134	GRATE-H-330-2	Y	-4.833	-2.03	42.264	46.491
135	GRATE-H-330-2	Y	-2.03	-.147	46.491	50.717
136	SA-1	Y	-.345	-1.933	0	4.15
137	SA-1	Y	-1.933	-3.748	4.15	8.3
138	SA-1	Y	-3.748	-6.54	8.3	12.45
139	SA-1	Y	-6.54	-8.454	12.45	16.6
140	SA-1	Y	-8.454	-9.781	16.6	20.75
141	SA-1	Y	-9.781	-11.816	20.75	24.9
142	SA-1	Y	-11.816	-13.628	24.9	29.05
143	SA-1	Y	-13.628	-14.759	29.05	33.2
144	SA-1	Y	-14.759	-11.253	33.2	37.35
145	SA-1	Y	-11.253	-4.739	37.35	41.5
146	SA-1	Y	-4.739	-.968	41.5	45.65
147	SA-1	Y	-.968	-.033	45.65	49.8

Member Area Loads (BLC 1 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N117	N118	N113		Y	Two Way	-1.75
2	N9	N13	N14		Y	Two Way	-1.75
3	N140	N135	N139		Y	Two Way	-1.75

Member Area Loads (BLC 14 : Ice Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N117	N118	N113		Y	Two Way	-10.4
2	N9	N13	N14		Y	Two Way	-10.4
3	N140	N135	N139		Y	Two Way	-10.4

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Mem...	Surface(Plate...
1	Dead Load	None		-1			15		3	
2	Wind Load (0 deg)	None					30	90		
3	Wind Load (30 deg)	None					30	90		
4	Wind Load (60 deg)	None					30	90		
5	Wind Load (90 deg)	None					30	90		
6	Wind Load (120 deg)	None					30	90		
7	Wind Load (150 deg)	None					30	90		
8	Wind Load (180 deg)	None					30	90		
9	Wind Load (210 deg)	None					30	90		
10	Wind Load (240 deg)	None					30	90		
11	Wind Load (270 deg)	None					30	90		
12	Wind Load (300 deg)	None					30	90		
13	Wind Load (330 deg)	None					30	90		
14	Ice Load	None					15	45	3	
15	Wind on Ice (0 deg)	None					30	90		
16	Wind on Ice (30 deg)	None					30	90		
17	Wind on Ice (60 deg)	None					30	90		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Mem...	Surface(Plate...
18	Wind on Ice (90 deg)	None					30	90		
19	Wind on Ice (120 deg)	None					30	90		
20	Wind on Ice (150 deg)	None					30	90		
21	Wind on Ice (180 deg)	None					30	90		
22	Wind on Ice (210 deg)	None					30	90		
23	Wind on Ice (240 deg)	None					30	90		
24	Wind on Ice (270 deg)	None					30	90		
25	Wind on Ice (300 deg)	None					30	90		
26	Wind on Ice (330 deg)	None					30	90		
27	Horizontal Seismic, Eh (0)	None	1				30			
28	Horizontal Seismic, Eh (30)	None	.866		.5		30			
29	Horizontal Seismic, Eh (60)	None	.5		.866		30			
30	Horizontal Seismic, Eh (90)	None			1		30			
31	Horizontal Seismic, Eh (120)	None	-.5		.866		30			
32	Horizontal Seismic, Eh (150)	None	-.866		.5		30			
33	Horizontal Seismic, Eh (180)	None	-1				30			
34	Horizontal Seismic, Eh (210)	None	-.866		-.5		30			
35	Horizontal Seismic, Eh (240)	None	-.5		-.866		30			
36	Horizontal Seismic, Eh (270)	None			-1		30			
37	Horizontal Seismic, Eh (300)	None	.5		-.866		30			
38	Horizontal Seismic, Eh (330)	None	.866		-.5		30			
39	Maintenance Load, Lm (MP1)	None					1			
40	Maintenance Load, Lm (MP2)	None					1			
41	Maintenance Load, Lm (MP3)	None					1			
42	Maintenance Load, Lm (MP4)	None					1			
43	Maintenance Load, Lm (MP5)	None					1			
44	Maintenance Load, Lm (MP6)	None					1			
45	Maintenance Load, Lm (MP7)	None					1			
46	Maintenance Load, Lm (MP8)	None					1			
47	Maintenance Load, Lm (MP9)	None					1			
48	Maintenance Load, Lm (MP...	None								
49	Maintenance Load, Lm (MP...	None								
50	Maintenance Load, Lm (MP...	None								
51	Maintenance Load, Lm (MP...	None								
52	Maintenance Load, Lm (MP...	None								
53	Maintenance Load, Lm (MP...	None								
54	Maintenance Load, Lm (MP...	None								
55	Maintenance Load, Lm (MP...	None								
56	Maintenance Load, Lm (MP...	None								
57	Maintenance Load, Lm (MP...	None								
58	Maintenance Load, Lm (MP...	None								
59	Maintenance Load, Lm (MP...	None								
60	Maintenance Load, Lm (MP...	None								
61	Maintenance Load, Lm (MP...	None								
62	Maintenance Load, Lm (MP...	None								
63	Maintenance Load, Lm (MP...	None								
64	Maintenance Load, Lm (MP...	None								
65	Maintenance Load, Lm (MP...	None								
66	Maintenance Load, Lm (MP...	None								
67	Maintenance Load, Lm (MP...	None								
68	Maintenance Load, Lm (MP...	None								
69	Maintenance Load, Lm (MP...	None								
70	Maintenance Load, Lm (MP...	None								
71	Maintenance Load, Lm (MP...	None								
72	Maintenance Load, Lm (MP...	None								
73	Maintenance Load, Lm (MP...	None								
74	Maintenance Load, Lm (MP...	None								

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Mem...	Surface(Plate...
75	Maintenance Load, Lv (Pos....	None					1			
76	Maintenance Load, Lv (Pos....	None					1			
77	Maintenance Load, Lv (Pos....	None					1			
78	Maintenance Load, Lv (Pos....	None					1			
79	Maintenance Load, Lv (Pos....	None					1			
80	Maintenance Load, Lv (Pos....	None					1			
81	Maintenance Load, Lv (Pos....	None					1			
82	Maintenance Load, Lv (Pos....	None					1			
83	Maintenance Load, Lv (Pos....	None					1			
84	Maintenance Load, Lv (Pos....	None					1			
85	Maintenance Load, Lv (Pos....	None					1			
86	Maintenance Load, Lv (Pos....	None					1			
87	Maintenance Load, Lv (Pos....	None					1			
88	Maintenance Load, Lv (Pos....	None					1			
89	Maintenance Load, Lv (Pos....	None					1			
90	Maintenance Load, Lv (Pos....	None					1			
91	Maintenance Load, Lv (Pos....	None					1			
92	Maintenance Load, Lv (Pos....	None					1			
93	Maintenance Load, Lv (Pos....	None					1			
94	Maintenance Load, Lv (Pos....	None					1			
95	Maintenance Load, Lv (Pos....	None					1			
96	Maintenance Load, Lv (Pos....	None					1			
97	Maintenance Load, Lv (Pos....	None					1			
98	Maintenance Load, Lv (Pos....	None					1			
99	Maintenance Load, Lv (Pos....	None								
100	Maintenance Load, Lv (Pos....	None								
101	Maintenance Load, Lv (Pos....	None								
102	Maintenance Load, Lv (Pos....	None								
103	Maintenance Load, Lv (Pos....	None								
104	Maintenance Load, Lv (Pos....	None								
105	Maintenance Load, Lv (Pos....	None								
106	Maintenance Load, Lv (Pos....	None								
107	Maintenance Load, Lv (Pos....	None								
108	Maintenance Load, Lv (Pos....	None								
109	Maintenance Load, Lv (Pos....	None								
110	Maintenance Load, Lv (Pos....	None								
111	Maintenance Load, Lv (Pos....	None								
112	Maintenance Load, Lv (Pos....	None								
113	Maintenance Load, Lv (Pos....	None								
114	Maintenance Load, Lv (Pos....	None								
115	Maintenance Load, Lv (Pos....	None								
116	Maintenance Load, Lv (Pos....	None								
117	Maintenance Load, Lv (Pos....	None								
118	Maintenance Load, Lv (Pos....	None								
119	Maintenance Load, Lv (Pos....	None								
120	Maintenance Load, Lv (Pos....	None								
121	Maintenance Load, Lv (Pos....	None								
122	Maintenance Load, Lv (Pos....	None								
123	Maintenance Load, Lv (Pos....	None								
124	Maintenance Load, Lv (Pos....	None								
125	Maintenance Load, Lv (Pos....	None								
126	Maintenance Load, Lv (Pos....	None								
127	Maintenance Load, Lv (Pos....	None								
128	Maintenance Load, Lv (Pos....	None								
129	Maintenance Load, Lv (Pos....	None								
130	Maintenance Load, Lv (Pos....	None								
131	Maintenance Load, Lv (Pos....	None								

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Mem...	Surface(Plate...
132	Maintenance Load, Lv (Pos....	None								
133	Maintenance Load, Lv (Pos....	None								
134	Maintenance Load, Lv (Pos....	None								
135	Maintenance Load, Lv (Pos....	None								
136	Maintenance Load, Lv (Pos....	None								
137	Maintenance Load, Lv (Pos....	None								
138	Maintenance Load, Lv (Pos....	None								
139	Maintenance Load, Lv (Pos....	None								
140	Maintenance Load, Lv (Pos....	None								
141	Maintenance Load, Lv (Pos....	None								
142	Maintenance Load, Lv (Pos....	None								
143	Maintenance Load, Lv (Pos....	None								
144	Maintenance Load, Lv (Pos....	None								
145	Maintenance Load, Lv (Pos....	None								
146	Maintenance Load, Lv (Pos....	None								
147	Maintenance Load, Lv (Pos....	None								
148	Maintenance Load, Lv (Pos....	None								
149	Maintenance Load, Lv (Pos....	None								
150	Maintenance Load, Lv (Pos....	None								
151	Maintenance Load, Lv (Pos....	None								
152	Maintenance Load, Lv (Pos....	None								
153	Maintenance Load, Lv (Pos....	None								
154	Maintenance Load, Lv (Pos....	None								
155	Maintenance Load, Lv (Pos....	None								
156	Maintenance Load, Lv (Pos....	None								
157	Maintenance Load, Lv (Pos....	None								
158	Maintenance Load, Lv (Pos....	None								
159	Maintenance Load, Lv (Pos....	None								
160	Maintenance Load, Lv (Pos....	None								
161	Maintenance Load, Lv (Pos....	None								
162	Maintenance Load, Lv (Pos....	None								
163	Maintenance Load, Lv (Pos....	None								
164	Maintenance Load, Lv (Pos....	None								
165	Maintenance Load, Lv (Pos....	None								
166	Maintenance Load, Lv (Pos....	None								
167	Maintenance Load, Lv (Pos....	None								
168	Maintenance Load, Lv (Pos....	None								
169	Maintenance Load, Lv (Pos....	None								
170	Maintenance Load, Lv (Pos....	None								
171	Maintenance Load, Lv (Pos....	None								
172	Maintenance Load, Lv (Pos....	None								
173	Maintenance Load, Lv (Pos....	None								
174	Maintenance Load, Lv (Pos....	None								
175	Antenna Dead Load	None					18			
176	Antenna Wind Load (0 deg)	None					36			
177	Antenna Wind Load (30 deg)	None					36			
178	Antenna Wind Load (60 deg)	None					36			
179	Antenna Wind Load (90 deg)	None					36			
180	Antenna Wind Load (120 deg)	None					36			
181	Antenna Wind Load (150 deg)	None					36			
182	Antenna Wind Load (180 deg)	None					36			
183	Antenna Wind Load (210 deg)	None					36			
184	Antenna Wind Load (240 deg)	None					36			
185	Antenna Wind Load (270 deg)	None					36			
186	Antenna Wind Load (300 deg)	None					36			
187	Antenna Wind Load (330 deg)	None					36			
188	Antenna Ice Load	None					18			

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Mem...	Surface(Plate...
189	Antenna Wind on Ice (0 deg)	None					36			
190	Antenna Wind on Ice (30 deg)	None					36			
191	Antenna Wind on Ice (60 deg)	None					36			
192	Antenna Wind on Ice (90 deg)	None					36			
193	Antenna Wind on Ice (120 d...	None					36			
194	Antenna Wind on Ice (150 d...	None					36			
195	Antenna Wind on Ice (180 d...	None					36			
196	Antenna Wind on Ice (210 d...	None					36			
197	Antenna Wind on Ice (240 d...	None					36			
198	Antenna Wind on Ice (270 d...	None					36			
199	Antenna Wind on Ice (300 d...	None					36			
200	Antenna Wind on Ice (330 d...	None					36			
201	Ant. Horiz. Seismic, Eh (0)	None					36			
202	Ant. Horiz. Seismic, Eh (30)	None					36			
203	Ant. Horiz. Seismic, Eh (60)	None					36			
204	Ant. Horiz. Seismic, Eh (90)	None					36			
205	Ant. Horiz. Seismic, Eh (120)	None					36			
206	Ant. Horiz. Seismic, Eh (150)	None					36			
207	Ant. Horiz. Seismic, Eh (180)	None					36			
208	Ant. Horiz. Seismic, Eh (210)	None					36			
209	Ant. Horiz. Seismic, Eh (240)	None					36			
210	Ant. Horiz. Seismic, Eh (270)	None					36			
211	Ant. Horiz. Seismic, Eh (300)	None					36			
212	Ant. Horiz. Seismic, Eh (330)	None					36			
213	BLC 1 Transient Area Loads	None						147		
214	BLC 14 Transient Area Loads	None						147		

Load Combinations

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.4D	Yes	Y		1	1.4	1...	1.4																		
2	1.2D + 1.0W (0 deg)	Yes	Y		1	1.2	2	1	1...	1.2	1...	1														
3	1.2D + 1.0W (30 deg)	Yes	Y		1	1.2	3	1	1...	1.2	1...	1														
4	1.2D + 1.0W (60 deg)	Yes	Y		1	1.2	4	1	1...	1.2	1...	1														
5	1.2D + 1.0W (90 deg)	Yes	Y		1	1.2	5	1	1...	1.2	1...	1														
6	1.2D + 1.0W (120 deg)	Yes	Y		1	1.2	6	1	1...	1.2	1...	1														
7	1.2D + 1.0W (150 deg)	Yes	Y		1	1.2	7	1	1...	1.2	1...	1														
8	1.2D + 1.0W (180 deg)	Yes	Y		1	1.2	8	1	1...	1.2	1...	1														
9	1.2D + 1.0W (210 deg)	Yes	Y		1	1.2	9	1	1...	1.2	1...	1														
10	1.2D + 1.0W (240 deg)	Yes	Y		1	1.2	10	1	1...	1.2	1...	1														
11	1.2D + 1.0W (270 deg)	Yes	Y		1	1.2	11	1	1...	1.2	1...	1														
12	1.2D + 1.0W (300 deg)	Yes	Y		1	1.2	12	1	1...	1.2	1...	1														
13	1.2D + 1.0W (330 deg)	Yes	Y		1	1.2	13	1	1...	1.2	1...	1														
14	1.2D + Di + Wi (0 deg)	Yes	Y		1	1.2	14	1	15	1	1...	1.2	1...	1	1...	1										
15	1.2D + Di + Wi (30 deg)	Yes	Y		1	1.2	14	1	16	1	1...	1.2	1...	1	1...	1										
16	1.2D + Di + Wi (60 deg)	Yes	Y		1	1.2	14	1	17	1	1...	1.2	1...	1	1...	1										
17	1.2D + Di + Wi (90 deg)	Yes	Y		1	1.2	14	1	18	1	1...	1.2	1...	1	1...	1										
18	1.2D + Di + Wi (120 deg)	Yes	Y		1	1.2	14	1	19	1	1...	1.2	1...	1	1...	1										
19	1.2D + Di + Wi (150 deg)	Yes	Y		1	1.2	14	1	20	1	1...	1.2	1...	1	1...	1										
20	1.2D + Di + Wi (180 deg)	Yes	Y		1	1.2	14	1	21	1	1...	1.2	1...	1	1...	1										
21	1.2D + Di + Wi (210 deg)	Yes	Y		1	1.2	14	1	22	1	1...	1.2	1...	1	1...	1										
22	1.2D + Di + Wi (240 deg)	Yes	Y		1	1.2	14	1	23	1	1...	1.2	1...	1	1...	1										
23	1.2D + Di + Wi (270 deg)	Yes	Y		1	1.2	14	1	24	1	1...	1.2	1...	1	1...	1										
24	1.2D + Di + Wi (300 deg)	Yes	Y		1	1.2	14	1	25	1	1...	1.2	1...	1	1...	1										
25	1.2D + Di + Wi (330 deg)	Yes	Y		1	1.2	14	1	26	1	1...	1.2	1...	1	2...	1										
26	1.2D + 1.0 Ev + 1.0Eh (0 d...	Yes	Y		1	1.2	1	.044	27	.11	1...	1.2	1...	.064	2...	.159										

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
27	1.2D + 1.0 Ev + 1.0Eh (30 ...	Yes	Y		1	1.2	1	.044	28	.11	1...	1.2	1...	.064	2...	.159								
28	1.2D + 1.0 Ev + 1.0Eh (60 ...	Yes	Y		1	1.2	1	.044	29	.11	1...	1.2	1...	.064	2...	.159								
29	1.2D + 1.0 Ev + 1.0Eh (90 ...	Yes	Y		1	1.2	1	.044	30	.11	1...	1.2	1...	.064	2...	.159								
30	1.2D + 1.0 Ev + 1.0Eh (120...	Yes	Y		1	1.2	1	.044	31	.11	1...	1.2	1...	.064	2...	.159								
31	1.2D + 1.0 Ev + 1.0Eh (150...	Yes	Y		1	1.2	1	.044	32	.11	1...	1.2	1...	.064	2...	.159								
32	1.2D + 1.0 Ev + 1.0Eh (180...	Yes	Y		1	1.2	1	.044	33	.11	1...	1.2	1...	.064	2...	.159								
33	1.2D + 1.0 Ev + 1.0Eh (210...	Yes	Y		1	1.2	1	.044	34	.11	1...	1.2	1...	.064	2...	.159								
34	1.2D + 1.0 Ev + 1.0Eh (240...	Yes	Y		1	1.2	1	.044	35	.11	1...	1.2	1...	.064	2...	.159								
35	1.2D + 1.0 Ev + 1.0Eh (270...	Yes	Y		1	1.2	1	.044	36	.11	1...	1.2	1...	.064	2...	.159								
36	1.2D + 1.0 Ev + 1.0Eh (300...	Yes	Y		1	1.2	1	.044	37	.11	1...	1.2	1...	.064	2...	.159								
37	1.2D + 1.0 Ev + 1.0Eh (330...	Yes	Y		1	1.2	1	.044	38	.11	1...	1.2	1...	.064	2...	.159								
38	1.2D + 1.5Lm1 + 1.0Wm (0...	Yes	Y		1	1.2	39	1.5	2	.064	1...	1.2	1...	.064										
39	1.2D + 1.5Lm1 + 1.0Wm (3...	Yes	Y		1	1.2	39	1.5	3	.064	1...	1.2	1...	.064										
40	1.2D + 1.5Lm1 + 1.0Wm (6...	Yes	Y		1	1.2	39	1.5	4	.064	1...	1.2	1...	.064										
41	1.2D + 1.5Lm1 + 1.0Wm (9...	Yes	Y		1	1.2	39	1.5	5	.064	1...	1.2	1...	.064										
42	1.2D + 1.5Lm1 + 1.0Wm (1...	Yes	Y		1	1.2	39	1.5	6	.064	1...	1.2	1...	.064										
43	1.2D + 1.5Lm1 + 1.0Wm (1...	Yes	Y		1	1.2	39	1.5	7	.064	1...	1.2	1...	.064										
44	1.2D + 1.5Lm1 + 1.0Wm (1...	Yes	Y		1	1.2	39	1.5	8	.064	1...	1.2	1...	.064										
45	1.2D + 1.5Lm1 + 1.0Wm (2...	Yes	Y		1	1.2	39	1.5	9	.064	1...	1.2	1...	.064										
46	1.2D + 1.5Lm1 + 1.0Wm (2...	Yes	Y		1	1.2	39	1.5	10	.064	1...	1.2	1...	.064										
47	1.2D + 1.5Lm1 + 1.0Wm (2...	Yes	Y		1	1.2	39	1.5	11	.064	1...	1.2	1...	.064										
48	1.2D + 1.5Lm1 + 1.0Wm (3...	Yes	Y		1	1.2	39	1.5	12	.064	1...	1.2	1...	.064										
49	1.2D + 1.5Lm1 + 1.0Wm (3...	Yes	Y		1	1.2	39	1.5	13	.064	1...	1.2	1...	.064										
50	1.2D + 1.5Lm2 + 1.0Wm (0...	Yes	Y		1	1.2	40	1.5	2	.064	1...	1.2	1...	.064										
51	1.2D + 1.5Lm2 + 1.0Wm (3...	Yes	Y		1	1.2	40	1.5	3	.064	1...	1.2	1...	.064										
52	1.2D + 1.5Lm2 + 1.0Wm (6...	Yes	Y		1	1.2	40	1.5	4	.064	1...	1.2	1...	.064										
53	1.2D + 1.5Lm2 + 1.0Wm (9...	Yes	Y		1	1.2	40	1.5	5	.064	1...	1.2	1...	.064										
54	1.2D + 1.5Lm2 + 1.0Wm (1...	Yes	Y		1	1.2	40	1.5	6	.064	1...	1.2	1...	.064										
55	1.2D + 1.5Lm2 + 1.0Wm (1...	Yes	Y		1	1.2	40	1.5	7	.064	1...	1.2	1...	.064										
56	1.2D + 1.5Lm2 + 1.0Wm (1...	Yes	Y		1	1.2	40	1.5	8	.064	1...	1.2	1...	.064										
57	1.2D + 1.5Lm2 + 1.0Wm (2...	Yes	Y		1	1.2	40	1.5	9	.064	1...	1.2	1...	.064										
58	1.2D + 1.5Lm2 + 1.0Wm (2...	Yes	Y		1	1.2	40	1.5	10	.064	1...	1.2	1...	.064										
59	1.2D + 1.5Lm2 + 1.0Wm (2...	Yes	Y		1	1.2	40	1.5	11	.064	1...	1.2	1...	.064										
60	1.2D + 1.5Lm2 + 1.0Wm (3...	Yes	Y		1	1.2	40	1.5	12	.064	1...	1.2	1...	.064										
61	1.2D + 1.5Lm2 + 1.0Wm (3...	Yes	Y		1	1.2	40	1.5	13	.064	1...	1.2	1...	.064										
62	1.2D + 1.5Lm3 + 1.0Wm (0...	Yes	Y		1	1.2	41	1.5	2	.064	1...	1.2	1...	.064										
63	1.2D + 1.5Lm3 + 1.0Wm (3...	Yes	Y		1	1.2	41	1.5	3	.064	1...	1.2	1...	.064										
64	1.2D + 1.5Lm3 + 1.0Wm (6...	Yes	Y		1	1.2	41	1.5	4	.064	1...	1.2	1...	.064										
65	1.2D + 1.5Lm3 + 1.0Wm (9...	Yes	Y		1	1.2	41	1.5	5	.064	1...	1.2	1...	.064										
66	1.2D + 1.5Lm3 + 1.0Wm (1...	Yes	Y		1	1.2	41	1.5	6	.064	1...	1.2	1...	.064										
67	1.2D + 1.5Lm3 + 1.0Wm (1...	Yes	Y		1	1.2	41	1.5	7	.064	1...	1.2	1...	.064										
68	1.2D + 1.5Lm3 + 1.0Wm (1...	Yes	Y		1	1.2	41	1.5	8	.064	1...	1.2	1...	.064										
69	1.2D + 1.5Lm3 + 1.0Wm (2...	Yes	Y		1	1.2	41	1.5	9	.064	1...	1.2	1...	.064										
70	1.2D + 1.5Lm3 + 1.0Wm (2...	Yes	Y		1	1.2	41	1.5	10	.064	1...	1.2	1...	.064										
71	1.2D + 1.5Lm3 + 1.0Wm (2...	Yes	Y		1	1.2	41	1.5	11	.064	1...	1.2	1...	.064										
72	1.2D + 1.5Lm3 + 1.0Wm (3...	Yes	Y		1	1.2	41	1.5	12	.064	1...	1.2	1...	.064										
73	1.2D + 1.5Lm3 + 1.0Wm (3...	Yes	Y		1	1.2	41	1.5	13	.064	1...	1.2	1...	.064										
74	1.2D + 1.5Lm4 + 1.0Wm (0...	Yes	Y		1	1.2	42	1.5	2	.064	1...	1.2	1...	.064										
75	1.2D + 1.5Lm4 + 1.0Wm (3...	Yes	Y		1	1.2	42	1.5	3	.064	1...	1.2	1...	.064										
76	1.2D + 1.5Lm4 + 1.0Wm (6...	Yes	Y		1	1.2	42	1.5	4	.064	1...	1.2	1...	.064										
77	1.2D + 1.5Lm4 + 1.0Wm (9...	Yes	Y		1	1.2	42	1.5	5	.064	1...	1.2	1...	.064										
78	1.2D + 1.5Lm4 + 1.0Wm (1...	Yes	Y		1	1.2	42	1.5	6	.064	1...	1.2	1...	.064										
79	1.2D + 1.5Lm4 + 1.0Wm (1...	Yes	Y		1	1.2	42	1.5	7	.064	1...	1.2	1...	.064										
80	1.2D + 1.5Lm4 + 1.0Wm (1...	Yes	Y		1	1.2	42	1.5	8	.064	1...	1.2	1...	.064										
81	1.2D + 1.5Lm4 + 1.0Wm (2...	Yes	Y		1	1.2	42	1.5	9	.064	1...	1.2	1...	.064										
82	1.2D + 1.5Lm4 + 1.0Wm (2...	Yes	Y		1	1.2	42	1.5	10	.064	1...	1.2	1...	.064										
83	1.2D + 1.5Lm4 + 1.0Wm (2...	Yes	Y		1	1.2	42	1.5	11	.064	1...	1.2	1...	.064										

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
84	1.2D + 1.5Lm4 + 1.0Wm (3...	Yes	Y		1	1.2	42	1.5	12	.064	1...	1.2	1....	.064										
85	1.2D + 1.5Lm4 + 1.0Wm (3...	Yes	Y		1	1.2	42	1.5	13	.064	1...	1.2	1....	.064										
86	1.2D + 1.5Lm5 + 1.0Wm (0...	Yes	Y		1	1.2	43	1.5	2	.064	1...	1.2	1....	.064										
87	1.2D + 1.5Lm5 + 1.0Wm (3...	Yes	Y		1	1.2	43	1.5	3	.064	1...	1.2	1....	.064										
88	1.2D + 1.5Lm5 + 1.0Wm (6...	Yes	Y		1	1.2	43	1.5	4	.064	1...	1.2	1....	.064										
89	1.2D + 1.5Lm5 + 1.0Wm (9...	Yes	Y		1	1.2	43	1.5	5	.064	1...	1.2	1....	.064										
90	1.2D + 1.5Lm5 + 1.0Wm (1...	Yes	Y		1	1.2	43	1.5	6	.064	1...	1.2	1....	.064										
91	1.2D + 1.5Lm5 + 1.0Wm (1...	Yes	Y		1	1.2	43	1.5	7	.064	1...	1.2	1....	.064										
92	1.2D + 1.5Lm5 + 1.0Wm (1...	Yes	Y		1	1.2	43	1.5	8	.064	1...	1.2	1....	.064										
93	1.2D + 1.5Lm5 + 1.0Wm (2...	Yes	Y		1	1.2	43	1.5	9	.064	1...	1.2	1....	.064										
94	1.2D + 1.5Lm5 + 1.0Wm (2...	Yes	Y		1	1.2	43	1.5	10	.064	1...	1.2	1....	.064										
95	1.2D + 1.5Lm5 + 1.0Wm (2...	Yes	Y		1	1.2	43	1.5	11	.064	1...	1.2	1....	.064										
96	1.2D + 1.5Lm5 + 1.0Wm (3...	Yes	Y		1	1.2	43	1.5	12	.064	1...	1.2	1....	.064										
97	1.2D + 1.5Lm5 + 1.0Wm (3...	Yes	Y		1	1.2	43	1.5	13	.064	1...	1.2	1....	.064										
98	1.2D + 1.5Lm6 + 1.0Wm (0...	Yes	Y		1	1.2	44	1.5	2	.064	1...	1.2	1....	.064										
99	1.2D + 1.5Lm6 + 1.0Wm (3...	Yes	Y		1	1.2	44	1.5	3	.064	1...	1.2	1....	.064										
100	1.2D + 1.5Lm6 + 1.0Wm (6...	Yes	Y		1	1.2	44	1.5	4	.064	1...	1.2	1....	.064										
101	1.2D + 1.5Lm6 + 1.0Wm (9...	Yes	Y		1	1.2	44	1.5	5	.064	1...	1.2	1....	.064										
102	1.2D + 1.5Lm6 + 1.0Wm (1...	Yes	Y		1	1.2	44	1.5	6	.064	1...	1.2	1....	.064										
103	1.2D + 1.5Lm6 + 1.0Wm (1...	Yes	Y		1	1.2	44	1.5	7	.064	1...	1.2	1....	.064										
104	1.2D + 1.5Lm6 + 1.0Wm (1...	Yes	Y		1	1.2	44	1.5	8	.064	1...	1.2	1....	.064										
105	1.2D + 1.5Lm6 + 1.0Wm (2...	Yes	Y		1	1.2	44	1.5	9	.064	1...	1.2	1....	.064										
106	1.2D + 1.5Lm6 + 1.0Wm (2...	Yes	Y		1	1.2	44	1.5	10	.064	1...	1.2	1....	.064										
107	1.2D + 1.5Lm6 + 1.0Wm (2...	Yes	Y		1	1.2	44	1.5	11	.064	1...	1.2	1....	.064										
108	1.2D + 1.5Lm6 + 1.0Wm (3...	Yes	Y		1	1.2	44	1.5	12	.064	1...	1.2	1....	.064										
109	1.2D + 1.5Lm6 + 1.0Wm (3...	Yes	Y		1	1.2	44	1.5	13	.064	1...	1.2	1....	.064										
110	1.2D + 1.5Lm7 + 1.0Wm (0...	Yes	Y		1	1.2	45	1.5	2	.064	1...	1.2	1....	.064										
111	1.2D + 1.5Lm7 + 1.0Wm (3...	Yes	Y		1	1.2	45	1.5	3	.064	1...	1.2	1....	.064										
112	1.2D + 1.5Lm7 + 1.0Wm (6...	Yes	Y		1	1.2	45	1.5	4	.064	1...	1.2	1....	.064										
113	1.2D + 1.5Lm7 + 1.0Wm (9...	Yes	Y		1	1.2	45	1.5	5	.064	1...	1.2	1....	.064										
114	1.2D + 1.5Lm7 + 1.0Wm (1...	Yes	Y		1	1.2	45	1.5	6	.064	1...	1.2	1....	.064										
115	1.2D + 1.5Lm7 + 1.0Wm (1...	Yes	Y		1	1.2	45	1.5	7	.064	1...	1.2	1....	.064										
116	1.2D + 1.5Lm7 + 1.0Wm (1...	Yes	Y		1	1.2	45	1.5	8	.064	1...	1.2	1....	.064										
117	1.2D + 1.5Lm7 + 1.0Wm (2...	Yes	Y		1	1.2	45	1.5	9	.064	1...	1.2	1....	.064										
118	1.2D + 1.5Lm7 + 1.0Wm (2...	Yes	Y		1	1.2	45	1.5	10	.064	1...	1.2	1....	.064										
119	1.2D + 1.5Lm7 + 1.0Wm (2...	Yes	Y		1	1.2	45	1.5	11	.064	1...	1.2	1....	.064										
120	1.2D + 1.5Lm7 + 1.0Wm (3...	Yes	Y		1	1.2	45	1.5	12	.064	1...	1.2	1....	.064										
121	1.2D + 1.5Lm7 + 1.0Wm (3...	Yes	Y		1	1.2	45	1.5	13	.064	1...	1.2	1....	.064										
122	1.2D + 1.5Lm8 + 1.0Wm (0...	Yes	Y		1	1.2	46	1.5	2	.064	1...	1.2	1....	.064										
123	1.2D + 1.5Lm8 + 1.0Wm (3...	Yes	Y		1	1.2	46	1.5	3	.064	1...	1.2	1....	.064										
124	1.2D + 1.5Lm8 + 1.0Wm (6...	Yes	Y		1	1.2	46	1.5	4	.064	1...	1.2	1....	.064										
125	1.2D + 1.5Lm8 + 1.0Wm (9...	Yes	Y		1	1.2	46	1.5	5	.064	1...	1.2	1....	.064										
126	1.2D + 1.5Lm8 + 1.0Wm (1...	Yes	Y		1	1.2	46	1.5	6	.064	1...	1.2	1....	.064										
127	1.2D + 1.5Lm8 + 1.0Wm (1...	Yes	Y		1	1.2	46	1.5	7	.064	1...	1.2	1....	.064										
128	1.2D + 1.5Lm8 + 1.0Wm (1...	Yes	Y		1	1.2	46	1.5	8	.064	1...	1.2	1....	.064										
129	1.2D + 1.5Lm8 + 1.0Wm (2...	Yes	Y		1	1.2	46	1.5	9	.064	1...	1.2	1....	.064										
130	1.2D + 1.5Lm8 + 1.0Wm (2...	Yes	Y		1	1.2	46	1.5	10	.064	1...	1.2	1....	.064										
131	1.2D + 1.5Lm8 + 1.0Wm (2...	Yes	Y		1	1.2	46	1.5	11	.064	1...	1.2	1....	.064										
132	1.2D + 1.5Lm8 + 1.0Wm (3...	Yes	Y		1	1.2	46	1.5	12	.064	1...	1.2	1....	.064										
133	1.2D + 1.5Lm8 + 1.0Wm (3...	Yes	Y		1	1.2	46	1.5	13	.064	1...	1.2	1....	.064										
134	1.2D + 1.5Lm9 + 1.0Wm (0...	Yes	Y		1	1.2	47	1.5	2	.064	1...	1.2	1....	.064										
135	1.2D + 1.5Lm9 + 1.0Wm (3...	Yes	Y		1	1.2	47	1.5	3	.064	1...	1.2	1....	.064										
136	1.2D + 1.5Lm9 + 1.0Wm (6...	Yes	Y		1	1.2	47	1.5	4	.064	1...	1.2	1....	.064										
137	1.2D + 1.5Lm9 + 1.0Wm (9...	Yes	Y		1	1.2	47	1.5	5	.064	1...	1.2	1....	.064										
138	1.2D + 1.5Lm9 + 1.0Wm (1...	Yes	Y		1	1.2	47	1.5	6	.064	1...	1.2	1....	.064										
139	1.2D + 1.5Lm9 + 1.0Wm (1...	Yes	Y		1	1.2	47	1.5	7	.064	1...	1.2	1....	.064										
140	1.2D + 1.5Lm9 + 1.0Wm (1...	Yes	Y		1	1.2	47	1.5	8	.064	1...	1.2	1....	.064										

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
141	1.2D + 1.5Lm9 + 1.0Wm (2...	Yes	Y		1	1.2	47	1.5	9	.064	1...	1.2	1....	.064										
142	1.2D + 1.5Lm9 + 1.0Wm (2...	Yes	Y		1	1.2	47	1.5	10	.064	1...	1.2	1....	.064										
143	1.2D + 1.5Lm9 + 1.0Wm (2...	Yes	Y		1	1.2	47	1.5	11	.064	1...	1.2	1....	.064										
144	1.2D + 1.5Lm9 + 1.0Wm (3...	Yes	Y		1	1.2	47	1.5	12	.064	1...	1.2	1....	.064										
145	1.2D + 1.5Lm9 + 1.0Wm (3...	Yes	Y		1	1.2	47	1.5	13	.064	1...	1.2	1....	.064										
146	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	2	.064	1...	1.2	1....	.064										
147	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	3	.064	1...	1.2	1....	.064										
148	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	4	.064	1...	1.2	1....	.064										
149	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	5	.064	1...	1.2	1....	.064										
150	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	6	.064	1...	1.2	1....	.064										
151	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	7	.064	1...	1.2	1....	.064										
152	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	8	.064	1...	1.2	1....	.064										
153	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	9	.064	1...	1.2	1....	.064										
154	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	10	.064	1...	1.2	1....	.064										
155	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	11	.064	1...	1.2	1....	.064										
156	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	12	.064	1...	1.2	1....	.064										
157	1.2D + 1.5Lm10 + 1.0Wm (...		Y		1	1.2	48	1.5	13	.064	1...	1.2	1....	.064										
158	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	2	.064	1...	1.2	1....	.064										
159	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	3	.064	1...	1.2	1....	.064										
160	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	4	.064	1...	1.2	1....	.064										
161	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	5	.064	1...	1.2	1....	.064										
162	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	6	.064	1...	1.2	1....	.064										
163	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	7	.064	1...	1.2	1....	.064										
164	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	8	.064	1...	1.2	1....	.064										
165	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	9	.064	1...	1.2	1....	.064										
166	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	10	.064	1...	1.2	1....	.064										
167	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	11	.064	1...	1.2	1....	.064										
168	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	12	.064	1...	1.2	1....	.064										
169	1.2D + 1.5Lm11 + 1.0Wm (...		Y		1	1.2	49	1.5	13	.064	1...	1.2	1....	.064										
170	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	2	.064	1...	1.2	1....	.064										
171	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	3	.064	1...	1.2	1....	.064										
172	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	4	.064	1...	1.2	1....	.064										
173	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	5	.064	1...	1.2	1....	.064										
174	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	6	.064	1...	1.2	1....	.064										
175	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	7	.064	1...	1.2	1....	.064										
176	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	8	.064	1...	1.2	1....	.064										
177	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	9	.064	1...	1.2	1....	.064										
178	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	10	.064	1...	1.2	1....	.064										
179	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	11	.064	1...	1.2	1....	.064										
180	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	12	.064	1...	1.2	1....	.064										
181	1.2D + 1.5Lm12 + 1.0Wm (...		Y		1	1.2	50	1.5	13	.064	1...	1.2	1....	.064										
182	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	2	.064	1...	1.2	1....	.064										
183	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	3	.064	1...	1.2	1....	.064										
184	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	4	.064	1...	1.2	1....	.064										
185	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	5	.064	1...	1.2	1....	.064										
186	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	6	.064	1...	1.2	1....	.064										
187	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	7	.064	1...	1.2	1....	.064										
188	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	8	.064	1...	1.2	1....	.064										
189	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	9	.064	1...	1.2	1....	.064										
190	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	10	.064	1...	1.2	1....	.064										
191	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	11	.064	1...	1.2	1....	.064										
192	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	12	.064	1...	1.2	1....	.064										
193	1.2D + 1.5Lm13 + 1.0Wm (...		Y		1	1.2	51	1.5	13	.064	1...	1.2	1....	.064										
194	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	2	.064	1...	1.2	1....	.064										
195	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	3	.064	1...	1.2	1....	.064										
196	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	4	.064	1...	1.2	1....	.064										
197	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	5	.064	1...	1.2	1....	.064										

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
198	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	6	.064	1...	1.2	1....	.064										
199	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	7	.064	1...	1.2	1....	.064										
200	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	8	.064	1...	1.2	1....	.064										
201	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	9	.064	1...	1.2	1....	.064										
202	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	10	.064	1...	1.2	1....	.064										
203	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	11	.064	1...	1.2	1....	.064										
204	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	12	.064	1...	1.2	1....	.064										
205	1.2D + 1.5Lm14 + 1.0Wm (...		Y		1	1.2	52	1.5	13	.064	1...	1.2	1....	.064										
206	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	2	.064	1...	1.2	1....	.064										
207	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	3	.064	1...	1.2	1....	.064										
208	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	4	.064	1...	1.2	1....	.064										
209	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	5	.064	1...	1.2	1....	.064										
210	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	6	.064	1...	1.2	1....	.064										
211	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	7	.064	1...	1.2	1....	.064										
212	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	8	.064	1...	1.2	1....	.064										
213	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	9	.064	1...	1.2	1....	.064										
214	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	10	.064	1...	1.2	1....	.064										
215	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	11	.064	1...	1.2	1....	.064										
216	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	12	.064	1...	1.2	1....	.064										
217	1.2D + 1.5Lm15 + 1.0Wm (...		Y		1	1.2	53	1.5	13	.064	1...	1.2	1....	.064										
218	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	2	.064	1...	1.2	1....	.064										
219	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	3	.064	1...	1.2	1....	.064										
220	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	4	.064	1...	1.2	1....	.064										
221	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	5	.064	1...	1.2	1....	.064										
222	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	6	.064	1...	1.2	1....	.064										
223	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	7	.064	1...	1.2	1....	.064										
224	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	8	.064	1...	1.2	1....	.064										
225	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	9	.064	1...	1.2	1....	.064										
226	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	10	.064	1...	1.2	1....	.064										
227	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	11	.064	1...	1.2	1....	.064										
228	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	12	.064	1...	1.2	1....	.064										
229	1.2D + 1.5Lm16 + 1.0Wm (...		Y		1	1.2	54	1.5	13	.064	1...	1.2	1....	.064										
230	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	2	.064	1...	1.2	1....	.064										
231	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	3	.064	1...	1.2	1....	.064										
232	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	4	.064	1...	1.2	1....	.064										
233	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	5	.064	1...	1.2	1....	.064										
234	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	6	.064	1...	1.2	1....	.064										
235	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	7	.064	1...	1.2	1....	.064										
236	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	8	.064	1...	1.2	1....	.064										
237	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	9	.064	1...	1.2	1....	.064										
238	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	10	.064	1...	1.2	1....	.064										
239	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	11	.064	1...	1.2	1....	.064										
240	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	12	.064	1...	1.2	1....	.064										
241	1.2D + 1.5Lm17 + 1.0Wm (...		Y		1	1.2	55	1.5	13	.064	1...	1.2	1....	.064										
242	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	2	.064	1...	1.2	1....	.064										
243	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	3	.064	1...	1.2	1....	.064										
244	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	4	.064	1...	1.2	1....	.064										
245	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	5	.064	1...	1.2	1....	.064										
246	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	6	.064	1...	1.2	1....	.064										
247	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	7	.064	1...	1.2	1....	.064										
248	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	8	.064	1...	1.2	1....	.064										
249	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	9	.064	1...	1.2	1....	.064										
250	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	10	.064	1...	1.2	1....	.064										
251	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	11	.064	1...	1.2	1....	.064										
252	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	12	.064	1...	1.2	1....	.064										
253	1.2D + 1.5Lm18 + 1.0Wm (...		Y		1	1.2	56	1.5	13	.064	1...	1.2	1....	.064										
254	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	2	.064	1...	1.2	1....	.064										

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
255	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	3	.064	1...	1.2	1....	.064										
256	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	4	.064	1...	1.2	1....	.064										
257	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	5	.064	1...	1.2	1....	.064										
258	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	6	.064	1...	1.2	1....	.064										
259	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	7	.064	1...	1.2	1....	.064										
260	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	8	.064	1...	1.2	1....	.064										
261	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	9	.064	1...	1.2	1....	.064										
262	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	10	.064	1...	1.2	1....	.064										
263	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	11	.064	1...	1.2	1....	.064										
264	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	12	.064	1...	1.2	1....	.064										
265	1.2D + 1.5Lm19 + 1.0Wm (...		Y		1	1.2	57	1.5	13	.064	1...	1.2	1....	.064										
266	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	2	.064	1...	1.2	1....	.064										
267	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	3	.064	1...	1.2	1....	.064										
268	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	4	.064	1...	1.2	1....	.064										
269	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	5	.064	1...	1.2	1....	.064										
270	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	6	.064	1...	1.2	1....	.064										
271	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	7	.064	1...	1.2	1....	.064										
272	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	8	.064	1...	1.2	1....	.064										
273	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	9	.064	1...	1.2	1....	.064										
274	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	10	.064	1...	1.2	1....	.064										
275	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	11	.064	1...	1.2	1....	.064										
276	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	12	.064	1...	1.2	1....	.064										
277	1.2D + 1.5Lm20 + 1.0Wm (...		Y		1	1.2	58	1.5	13	.064	1...	1.2	1....	.064										
278	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	2	.064	1...	1.2	1....	.064										
279	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	3	.064	1...	1.2	1....	.064										
280	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	4	.064	1...	1.2	1....	.064										
281	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	5	.064	1...	1.2	1....	.064										
282	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	6	.064	1...	1.2	1....	.064										
283	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	7	.064	1...	1.2	1....	.064										
284	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	8	.064	1...	1.2	1....	.064										
285	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	9	.064	1...	1.2	1....	.064										
286	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	10	.064	1...	1.2	1....	.064										
287	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	11	.064	1...	1.2	1....	.064										
288	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	12	.064	1...	1.2	1....	.064										
289	1.2D + 1.5Lm21 + 1.0Wm (...		Y		1	1.2	59	1.5	13	.064	1...	1.2	1....	.064										
290	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	2	.064	1...	1.2	1....	.064										
291	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	3	.064	1...	1.2	1....	.064										
292	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	4	.064	1...	1.2	1....	.064										
293	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	5	.064	1...	1.2	1....	.064										
294	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	6	.064	1...	1.2	1....	.064										
295	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	7	.064	1...	1.2	1....	.064										
296	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	8	.064	1...	1.2	1....	.064										
297	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	9	.064	1...	1.2	1....	.064										
298	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	10	.064	1...	1.2	1....	.064										
299	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	11	.064	1...	1.2	1....	.064										
300	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	12	.064	1...	1.2	1....	.064										
301	1.2D + 1.5Lm22 + 1.0Wm (...		Y		1	1.2	60	1.5	13	.064	1...	1.2	1....	.064										
302	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	2	.064	1...	1.2	1....	.064										
303	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	3	.064	1...	1.2	1....	.064										
304	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	4	.064	1...	1.2	1....	.064										
305	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	5	.064	1...	1.2	1....	.064										
306	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	6	.064	1...	1.2	1....	.064										
307	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	7	.064	1...	1.2	1....	.064										
308	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	8	.064	1...	1.2	1....	.064										
309	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	9	.064	1...	1.2	1....	.064										
310	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	10	.064	1...	1.2	1....	.064										
311	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	11	.064	1...	1.2	1....	.064										

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
312	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	12	.064	1...	1.2	1....	.064										
313	1.2D + 1.5Lm23 + 1.0Wm (...		Y		1	1.2	61	1.5	13	.064	1...	1.2	1....	.064										
314	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	2	.064	1...	1.2	1....	.064										
315	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	3	.064	1...	1.2	1....	.064										
316	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	4	.064	1...	1.2	1....	.064										
317	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	5	.064	1...	1.2	1....	.064										
318	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	6	.064	1...	1.2	1....	.064										
319	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	7	.064	1...	1.2	1....	.064										
320	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	8	.064	1...	1.2	1....	.064										
321	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	9	.064	1...	1.2	1....	.064										
322	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	10	.064	1...	1.2	1....	.064										
323	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	11	.064	1...	1.2	1....	.064										
324	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	12	.064	1...	1.2	1....	.064										
325	1.2D + 1.5Lm24 + 1.0Wm (...		Y		1	1.2	62	1.5	13	.064	1...	1.2	1....	.064										
326	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	2	.064	1...	1.2	1....	.064										
327	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	3	.064	1...	1.2	1....	.064										
328	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	4	.064	1...	1.2	1....	.064										
329	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	5	.064	1...	1.2	1....	.064										
330	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	6	.064	1...	1.2	1....	.064										
331	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	7	.064	1...	1.2	1....	.064										
332	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	8	.064	1...	1.2	1....	.064										
333	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	9	.064	1...	1.2	1....	.064										
334	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	10	.064	1...	1.2	1....	.064										
335	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	11	.064	1...	1.2	1....	.064										
336	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	12	.064	1...	1.2	1....	.064										
337	1.2D + 1.5Lm25 + 1.0Wm (...		Y		1	1.2	63	1.5	13	.064	1...	1.2	1....	.064										
338	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	2	.064	1...	1.2	1....	.064										
339	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	3	.064	1...	1.2	1....	.064										
340	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	4	.064	1...	1.2	1....	.064										
341	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	5	.064	1...	1.2	1....	.064										
342	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	6	.064	1...	1.2	1....	.064										
343	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	7	.064	1...	1.2	1....	.064										
344	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	8	.064	1...	1.2	1....	.064										
345	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	9	.064	1...	1.2	1....	.064										
346	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	10	.064	1...	1.2	1....	.064										
347	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	11	.064	1...	1.2	1....	.064										
348	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	12	.064	1...	1.2	1....	.064										
349	1.2D + 1.5Lm26 + 1.0Wm (...		Y		1	1.2	64	1.5	13	.064	1...	1.2	1....	.064										
350	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	2	.064	1...	1.2	1....	.064										
351	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	3	.064	1...	1.2	1....	.064										
352	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	4	.064	1...	1.2	1....	.064										
353	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	5	.064	1...	1.2	1....	.064										
354	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	6	.064	1...	1.2	1....	.064										
355	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	7	.064	1...	1.2	1....	.064										
356	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	8	.064	1...	1.2	1....	.064										
357	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	9	.064	1...	1.2	1....	.064										
358	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	10	.064	1...	1.2	1....	.064										
359	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	11	.064	1...	1.2	1....	.064										
360	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	12	.064	1...	1.2	1....	.064										
361	1.2D + 1.5Lm27 + 1.0Wm (...		Y		1	1.2	65	1.5	13	.064	1...	1.2	1....	.064										
362	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	2	.064	1...	1.2	1....	.064										
363	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	3	.064	1...	1.2	1....	.064										
364	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	4	.064	1...	1.2	1....	.064										
365	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	5	.064	1...	1.2	1....	.064										
366	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	6	.064	1...	1.2	1....	.064										
367	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	7	.064	1...	1.2	1....	.064										
368	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	8	.064	1...	1.2	1....	.064										

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
369	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	9	.064	1...	1.2	1....	.064										
370	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	10	.064	1...	1.2	1....	.064										
371	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	11	.064	1...	1.2	1....	.064										
372	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	12	.064	1...	1.2	1....	.064										
373	1.2D + 1.5Lm28 + 1.0Wm (...		Y		1	1.2	66	1.5	13	.064	1...	1.2	1....	.064										
374	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	2	.064	1...	1.2	1....	.064										
375	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	3	.064	1...	1.2	1....	.064										
376	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	4	.064	1...	1.2	1....	.064										
377	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	5	.064	1...	1.2	1....	.064										
378	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	6	.064	1...	1.2	1....	.064										
379	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	7	.064	1...	1.2	1....	.064										
380	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	8	.064	1...	1.2	1....	.064										
381	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	9	.064	1...	1.2	1....	.064										
382	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	10	.064	1...	1.2	1....	.064										
383	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	11	.064	1...	1.2	1....	.064										
384	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	12	.064	1...	1.2	1....	.064										
385	1.2D + 1.5Lm29 + 1.0Wm (...		Y		1	1.2	67	1.5	13	.064	1...	1.2	1....	.064										
386	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	2	.064	1...	1.2	1....	.064										
387	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	3	.064	1...	1.2	1....	.064										
388	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	4	.064	1...	1.2	1....	.064										
389	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	5	.064	1...	1.2	1....	.064										
390	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	6	.064	1...	1.2	1....	.064										
391	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	7	.064	1...	1.2	1....	.064										
392	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	8	.064	1...	1.2	1....	.064										
393	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	9	.064	1...	1.2	1....	.064										
394	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	10	.064	1...	1.2	1....	.064										
395	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	11	.064	1...	1.2	1....	.064										
396	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	12	.064	1...	1.2	1....	.064										
397	1.2D + 1.5Lm30 + 1.0Wm (...		Y		1	1.2	68	1.5	13	.064	1...	1.2	1....	.064										
398	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	2	.064	1...	1.2	1....	.064										
399	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	3	.064	1...	1.2	1....	.064										
400	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	4	.064	1...	1.2	1....	.064										
401	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	5	.064	1...	1.2	1....	.064										
402	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	6	.064	1...	1.2	1....	.064										
403	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	7	.064	1...	1.2	1....	.064										
404	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	8	.064	1...	1.2	1....	.064										
405	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	9	.064	1...	1.2	1....	.064										
406	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	10	.064	1...	1.2	1....	.064										
407	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	11	.064	1...	1.2	1....	.064										
408	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	12	.064	1...	1.2	1....	.064										
409	1.2D + 1.5Lm31 + 1.0Wm (...		Y		1	1.2	69	1.5	13	.064	1...	1.2	1....	.064										
410	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	2	.064	1...	1.2	1....	.064										
411	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	3	.064	1...	1.2	1....	.064										
412	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	4	.064	1...	1.2	1....	.064										
413	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	5	.064	1...	1.2	1....	.064										
414	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	6	.064	1...	1.2	1....	.064										
415	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	7	.064	1...	1.2	1....	.064										
416	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	8	.064	1...	1.2	1....	.064										
417	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	9	.064	1...	1.2	1....	.064										
418	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	10	.064	1...	1.2	1....	.064										
419	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	11	.064	1...	1.2	1....	.064										
420	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	12	.064	1...	1.2	1....	.064										
421	1.2D + 1.5Lm32 + 1.0Wm (...		Y		1	1.2	70	1.5	13	.064	1...	1.2	1....	.064										
422	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	2	.064	1...	1.2	1....	.064										
423	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	3	.064	1...	1.2	1....	.064										
424	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	4	.064	1...	1.2	1....	.064										
425	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	5	.064	1...	1.2	1....	.064										

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
426	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	6	.064	1...	1.2	1....	.064												
427	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	7	.064	1...	1.2	1....	.064												
428	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	8	.064	1...	1.2	1....	.064												
429	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	9	.064	1...	1.2	1....	.064												
430	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	10	.064	1...	1.2	1....	.064												
431	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	11	.064	1...	1.2	1....	.064												
432	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	12	.064	1...	1.2	1....	.064												
433	1.2D + 1.5Lm33 + 1.0Wm (...		Y		1	1.2	71	1.5	13	.064	1...	1.2	1....	.064												
434	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	2	.064	1...	1.2	1....	.064												
435	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	3	.064	1...	1.2	1....	.064												
436	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	4	.064	1...	1.2	1....	.064												
437	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	5	.064	1...	1.2	1....	.064												
438	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	6	.064	1...	1.2	1....	.064												
439	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	7	.064	1...	1.2	1....	.064												
440	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	8	.064	1...	1.2	1....	.064												
441	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	9	.064	1...	1.2	1....	.064												
442	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	10	.064	1...	1.2	1....	.064												
443	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	11	.064	1...	1.2	1....	.064												
444	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	12	.064	1...	1.2	1....	.064												
445	1.2D + 1.5Lm34 + 1.0Wm (...		Y		1	1.2	72	1.5	13	.064	1...	1.2	1....	.064												
446	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	2	.064	1...	1.2	1....	.064												
447	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	3	.064	1...	1.2	1....	.064												
448	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	4	.064	1...	1.2	1....	.064												
449	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	5	.064	1...	1.2	1....	.064												
450	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	6	.064	1...	1.2	1....	.064												
451	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	7	.064	1...	1.2	1....	.064												
452	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	8	.064	1...	1.2	1....	.064												
453	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	9	.064	1...	1.2	1....	.064												
454	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	10	.064	1...	1.2	1....	.064												
455	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	11	.064	1...	1.2	1....	.064												
456	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	12	.064	1...	1.2	1....	.064												
457	1.2D + 1.5Lm35 + 1.0Wm (...		Y		1	1.2	73	1.5	13	.064	1...	1.2	1....	.064												
458	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	2	.064	1...	1.2	1....	.064												
459	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	3	.064	1...	1.2	1....	.064												
460	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	4	.064	1...	1.2	1....	.064												
461	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	5	.064	1...	1.2	1....	.064												
462	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	6	.064	1...	1.2	1....	.064												
463	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	7	.064	1...	1.2	1....	.064												
464	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	8	.064	1...	1.2	1....	.064												
465	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	9	.064	1...	1.2	1....	.064												
466	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	10	.064	1...	1.2	1....	.064												
467	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	11	.064	1...	1.2	1....	.064												
468	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	12	.064	1...	1.2	1....	.064												
469	1.2D + 1.5Lm36 + 1.0Wm (...		Y		1	1.2	74	1.5	13	.064	1...	1.2	1....	.064												
470	1.2D + 1.5Lv (Position 1)	Yes	Y		1	1.2	75	1.5	1...	1.2																
471	1.2D + 1.5Lv (Position 2)	Yes	Y		1	1.2	76	1.5	1...	1.2																
472	1.2D + 1.5Lv (Position 3)	Yes	Y		1	1.2	77	1.5	1...	1.2																
473	1.2D + 1.5Lv (Position 4)	Yes	Y		1	1.2	78	1.5	1...	1.2																
474	1.2D + 1.5Lv (Position 5)	Yes	Y		1	1.2	79	1.5	1...	1.2																
475	1.2D + 1.5Lv (Position 6)	Yes	Y		1	1.2	80	1.5	1...	1.2																
476	1.2D + 1.5Lv (Position 7)	Yes	Y		1	1.2	81	1.5	1...	1.2																
477	1.2D + 1.5Lv (Position 8)	Yes	Y		1	1.2	82	1.5	1...	1.2																
478	1.2D + 1.5Lv (Position 9)	Yes	Y		1	1.2	83	1.5	1...	1.2																
479	1.2D + 1.5Lv (Position 10)	Yes	Y		1	1.2	84	1.5	1...	1.2																
480	1.2D + 1.5Lv (Position 11)	Yes	Y		1	1.2	85	1.5	1...	1.2																
481	1.2D + 1.5Lv (Position 12)	Yes	Y		1	1.2	86	1.5	1...	1.2																
482	1.2D + 1.5Lv (Position 13)	Yes	Y		1	1.2	87	1.5	1...	1.2																

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
483	1.2D + 1.5Lv (Position 14)	Yes	Y		1	1.2	88	1.5	1...	1.2																
484	1.2D + 1.5Lv (Position 15)	Yes	Y		1	1.2	89	1.5	1...	1.2																
485	1.2D + 1.5Lv (Position 16)	Yes	Y		1	1.2	90	1.5	1...	1.2																
486	1.2D + 1.5Lv (Position 17)	Yes	Y		1	1.2	91	1.5	1...	1.2																
487	1.2D + 1.5Lv (Position 18)	Yes	Y		1	1.2	92	1.5	1...	1.2																
488	1.2D + 1.5Lv (Position 19)	Yes	Y		1	1.2	93	1.5	1...	1.2																
489	1.2D + 1.5Lv (Position 20)	Yes	Y		1	1.2	94	1.5	1...	1.2																
490	1.2D + 1.5Lv (Position 21)	Yes	Y		1	1.2	95	1.5	1...	1.2																
491	1.2D + 1.5Lv (Position 22)	Yes	Y		1	1.2	96	1.5	1...	1.2																
492	1.2D + 1.5Lv (Position 23)	Yes	Y		1	1.2	97	1.5	1...	1.2																
493	1.2D + 1.5Lv (Position 24)	Yes	Y		1	1.2	98	1.5	1...	1.2																
494	1.2D + 1.5Lv (Position 25)		Y		1	1.2	99	1.5	1...	1.2																
495	1.2D + 1.5Lv (Position 26)		Y		1	1.2	1...	1.5	1...	1.2																
496	1.2D + 1.5Lv (Position 27)		Y		1	1.2	1...	1.5	1...	1.2																
497	1.2D + 1.5Lv (Position 28)		Y		1	1.2	1...	1.5	1...	1.2																
498	1.2D + 1.5Lv (Position 29)		Y		1	1.2	1...	1.5	1...	1.2																
499	1.2D + 1.5Lv (Position 30)		Y		1	1.2	1...	1.5	1...	1.2																
500	1.2D + 1.5Lv (Position 31)		Y		1	1.2	1...	1.5	1...	1.2																
501	1.2D + 1.5Lv (Position 32)		Y		1	1.2	1...	1.5	1...	1.2																
502	1.2D + 1.5Lv (Position 33)		Y		1	1.2	1...	1.5	1...	1.2																
503	1.2D + 1.5Lv (Position 34)		Y		1	1.2	1...	1.5	1...	1.2																
504	1.2D + 1.5Lv (Position 35)		Y		1	1.2	1...	1.5	1...	1.2																
505	1.2D + 1.5Lv (Position 36)		Y		1	1.2	1...	1.5	1...	1.2																
506	1.2D + 1.5Lv (Position 37)		Y		1	1.2	1...	1.5	1...	1.2																
507	1.2D + 1.5Lv (Position 38)		Y		1	1.2	1...	1.5	1...	1.2																
508	1.2D + 1.5Lv (Position 39)		Y		1	1.2	1...	1.5	1...	1.2																
509	1.2D + 1.5Lv (Position 40)		Y		1	1.2	1...	1.5	1...	1.2																
510	1.2D + 1.5Lv (Position 41)		Y		1	1.2	1...	1.5	1...	1.2																
511	1.2D + 1.5Lv (Position 42)		Y		1	1.2	1...	1.5	1...	1.2																
512	1.2D + 1.5Lv (Position 43)		Y		1	1.2	1...	1.5	1...	1.2																
513	1.2D + 1.5Lv (Position 44)		Y		1	1.2	1...	1.5	1...	1.2																
514	1.2D + 1.5Lv (Position 45)		Y		1	1.2	1...	1.5	1...	1.2																
515	1.2D + 1.5Lv (Position 46)		Y		1	1.2	1...	1.5	1...	1.2																
516	1.2D + 1.5Lv (Position 47)		Y		1	1.2	1...	1.5	1...	1.2																
517	1.2D + 1.5Lv (Position 48)		Y		1	1.2	1...	1.5	1...	1.2																
518	1.2D + 1.5Lv (Position 49)		Y		1	1.2	1...	1.5	1...	1.2																
519	1.2D + 1.5Lv (Position 50)		Y		1	1.2	1...	1.5	1...	1.2																
520	1.2D + 1.5Lv (Position 51)		Y		1	1.2	1...	1.5	1...	1.2																
521	1.2D + 1.5Lv (Position 52)		Y		1	1.2	1...	1.5	1...	1.2																
522	1.2D + 1.5Lv (Position 53)		Y		1	1.2	1...	1.5	1...	1.2																
523	1.2D + 1.5Lv (Position 54)		Y		1	1.2	1...	1.5	1...	1.2																
524	1.2D + 1.5Lv (Position 55)		Y		1	1.2	1...	1.5	1...	1.2																
525	1.2D + 1.5Lv (Position 56)		Y		1	1.2	1...	1.5	1...	1.2																
526	1.2D + 1.5Lv (Position 57)		Y		1	1.2	1...	1.5	1...	1.2																
527	1.2D + 1.5Lv (Position 58)		Y		1	1.2	1...	1.5	1...	1.2																
528	1.2D + 1.5Lv (Position 59)		Y		1	1.2	1...	1.5	1...	1.2																
529	1.2D + 1.5Lv (Position 60)		Y		1	1.2	1...	1.5	1...	1.2																
530	1.2D + 1.5Lv (Position 61)		Y		1	1.2	1...	1.5	1...	1.2																
531	1.2D + 1.5Lv (Position 62)		Y		1	1.2	1...	1.5	1...	1.2																
532	1.2D + 1.5Lv (Position 63)		Y		1	1.2	1...	1.5	1...	1.2																
533	1.2D + 1.5Lv (Position 64)		Y		1	1.2	1...	1.5	1...	1.2																
534	1.2D + 1.5Lv (Position 65)		Y		1	1.2	1...	1.5	1...	1.2																
535	1.2D + 1.5Lv (Position 66)		Y		1	1.2	1...	1.5	1...	1.2																
536	1.2D + 1.5Lv (Position 67)		Y		1	1.2	1...	1.5	1...	1.2																
537	1.2D + 1.5Lv (Position 68)		Y		1	1.2	1...	1.5	1...	1.2																
538	1.2D + 1.5Lv (Position 69)		Y		1	1.2	1...	1.5	1...	1.2																
539	1.2D + 1.5Lv (Position 70)		Y		1	1.2	1...	1.5	1...	1.2																

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
540	1.2D + 1.5Lv (Position 71)		Y		1	1.2	1...	1.5	1...	1.2														
541	1.2D + 1.5Lv (Position 72)		Y		1	1.2	1...	1.5	1...	1.2														
542	1.2D + 1.5Lv (Position 73)		Y		1	1.2	1...	1.5	1...	1.2														
543	1.2D + 1.5Lv (Position 74)		Y		1	1.2	1...	1.5	1...	1.2														
544	1.2D + 1.5Lv (Position 75)		Y		1	1.2	1...	1.5	1...	1.2														
545	1.2D + 1.5Lv (Position 76)		Y		1	1.2	1...	1.5	1...	1.2														
546	1.2D + 1.5Lv (Position 77)		Y		1	1.2	1...	1.5	1...	1.2														
547	1.2D + 1.5Lv (Position 78)		Y		1	1.2	1...	1.5	1...	1.2														
548	1.2D + 1.5Lv (Position 79)		Y		1	1.2	1...	1.5	1...	1.2														
549	1.2D + 1.5Lv (Position 80)		Y		1	1.2	1...	1.5	1...	1.2														
550	1.2D + 1.5Lv (Position 81)		Y		1	1.2	1...	1.5	1...	1.2														
551	1.2D + 1.5Lv (Position 82)		Y		1	1.2	1...	1.5	1...	1.2														
552	1.2D + 1.5Lv (Position 83)		Y		1	1.2	1...	1.5	1...	1.2														
553	1.2D + 1.5Lv (Position 84)		Y		1	1.2	1...	1.5	1...	1.2														
554	1.2D + 1.5Lv (Position 85)		Y		1	1.2	1...	1.5	1...	1.2														
555	1.2D + 1.5Lv (Position 86)		Y		1	1.2	1...	1.5	1...	1.2														
556	1.2D + 1.5Lv (Position 87)		Y		1	1.2	1...	1.5	1...	1.2														
557	1.2D + 1.5Lv (Position 88)		Y		1	1.2	1...	1.5	1...	1.2														
558	1.2D + 1.5Lv (Position 89)		Y		1	1.2	1...	1.5	1...	1.2														
559	1.2D + 1.5Lv (Position 90)		Y		1	1.2	1...	1.5	1...	1.2														
560	1.2D + 1.5Lv (Position 91)		Y		1	1.2	1...	1.5	1...	1.2														
561	1.2D + 1.5Lv (Position 92)		Y		1	1.2	1...	1.5	1...	1.2														
562	1.2D + 1.5Lv (Position 93)		Y		1	1.2	1...	1.5	1...	1.2														
563	1.2D + 1.5Lv (Position 94)		Y		1	1.2	1...	1.5	1...	1.2														
564	1.2D + 1.5Lv (Position 95)		Y		1	1.2	1...	1.5	1...	1.2														
565	1.2D + 1.5Lv (Position 96)		Y		1	1.2	1...	1.5	1...	1.2														
566	1.2D + 1.5Lv (Position 97)		Y		1	1.2	1...	1.5	1...	1.2														
567	1.2D + 1.5Lv (Position 98)		Y		1	1.2	1...	1.5	1...	1.2														
568	1.2D + 1.5Lv (Position 99)		Y		1	1.2	1...	1.5	1...	1.2														
569	1.2D + 1.5Lv (Position 100)		Y		1	1.2	1...	1.5	1...	1.2														

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	N10	max	1619.442	8	2233.918	14	997.352	11	644.583	95	1093.658	5	5144.231	110
2		min	-1603.069	2	370.053	8	-997.391	5	-673.94	125	-1093.373	11	-83.625	8
3	N114	max	1042.891	8	2234.024	22	1401.744	10	4706.855	82	1093.616	13	42.93	3
4		min	-1051.147	2	370.536	4	-1415.888	4	-72.347	4	-1093.327	7	-2981.358	69
5	N136	max	1018.591	8	2234.038	18	1389.856	12	69.64	12	1093.695	9	46.55	13
6		min	-1026.705	2	370.519	12	-1375.639	6	-4690.879	138	-1093.403	3	-3008.863	43
7	Totals:	max	3680.924	8	6239.276	15	3590.665	11						
8		min	-3680.921	2	3125.838	9	-3590.654	5						

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

	Member	Shape	Code C...	Lo...	LC	Shear ...	Loc[in]	...	LC	phi*P...	phi*Pn...	phi*Mn y-y [lb-ft]	phi*Mn z-...	Cb	Eqn
1	MP8	PIPE_2.0	.423	27	7	.073	27		7	14916...	32130	1871.625	1871.625	2.94	H1-1b
2	MP5	PIPE_2.0	.423	27	3	.073	27		3	14916...	32130	1871.625	1871.625	2.9...	H1-1b
3	MP2	PIPE_2.0	.423	27	11	.073	27		11	14916...	32130	1871.625	1871.625	2.3...	H1-1b
4	SA-3	HSS4X4...	.418	62...	110	.118	62.25	y	112	10114...	106155	12311.25	12311.25	2.4...	H1-1b
5	SA-2	HSS4X4...	.418	62...	82	.118	62.25	y	84	10114...	106155	12311.25	12311.25	2.4...	H1-1b
6	SA-1	HSS4X4...	.418	62...	42	.118	62.25	y	44	10114...	106155	12311.25	12311.25	2.4...	H1-1b
7	MP9	PIPE_2.0	.409	27	2	.219	59		4	14916...	32130	1871.625	1871.625	4.14	H1-1b
8	MP6	PIPE_2.0	.409	27	10	.219	59		12	14916...	32130	1871.625	1871.625	4.4...	H1-1b
9	MP3	PIPE_2.0	.409	27	6	.219	59		8	14916...	32130	1871.625	1871.625	2.0...	H1-1b
10	GRATE-H-90-2	L2x2x3	.407	0	480	.030	0	z	480	9528....	22743	542.224	1168.849	1.9...	H2-1

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

	Member	Shape	Code C...	Lo...	LC	Shear ...	Loc[in]	...	LC	phi*P...	phi*Pn...	phi*Mn y-y [lb-ft]	phi*Mn z-...	Cb	Eqn
11	GRATE-H-33...	L2x2x3	.407	0	484	.030	0	z	484	9528....	22743	542.224	1168.85	1.9...	H2-1
12	GRATE-H-21...	L2x2x3	.407	0	482	.030	0	z	482	9528....	22743	542.224	1168.85	1.9...	H2-1
13	GRATE-H-33...	L2x2x3	.403	0	483	.029	0	y	483	9528....	22743	542.224	1167.243	1.9...	H2-1
14	GRATE-H-21...	L2x2x3	.403	0	481	.029	0	y	481	9528....	22743	542.224	1167.242	1.9...	H2-1
15	GRATE-H-90-1	L2x2x3	.403	0	479	.029	0	y	479	9528....	22743	542.224	1167.242	1.9...	H2-1
16	MP4	PIPE_2.0	.391	27	2	.215	48		12	14916...	32130	1871.625	1871.625	4.3...	H1-1b
17	MP7	PIPE_2.0	.391	27	6	.215	48		4	14916...	32130	1871.625	1871.625	4.3...	H1-1b
18	MP1	PIPE_2.0	.391	27	10	.215	48		8	14916...	32130	1871.625	1871.625	2.3...	H1-1b
19	HR-120	PIPE_2.0	.302	75	13	.195	10.937		8	6295....	32130	1871.625	1871.625	1.7...	H1-1b
20	HR-0	PIPE_2.0	.302	75	9	.195	10.937		4	6295....	32130	1871.625	1871.625	1.7...	H1-1b
21	HR-240	PIPE_2.0	.302	75	5	.195	10.937		12	6295....	32130	1871.625	1871.625	1.7...	H1-1b
22	BRACE-2	HSS4X4...	.190	29...	21	.068	29.916	y	22	10459...	106155	12311.25	12311.25	1.3...	H1-1b
23	BRACE-3	HSS4X4...	.190	29...	25	.068	29.916	y	14	10459...	106155	12311.25	12311.25	1.3...	H1-1b
24	BRACE-1	HSS4X4...	.190	29...	17	.068	29.916	y	18	10459...	106155	12311.25	12311.25	1.3...	H1-1b
25	COR-2	L2.5x2.5...	.168	0	8	.130	0	z	13	35816...	37485	1082.622	2466.905	1.8...	H2-1
26	COR-3	L2.5x2.5...	.168	0	12	.130	0	z	5	35816...	37485	1082.622	2466.905	1.8...	H2-1
27	COR-1	L2.5x2.5...	.168	0	4	.130	0	z	9	35816...	37485	1082.622	2466.905	1.8...	H2-1
28	FM-120	PIPE_3.0	.131	54...	121	.065	54.687		2	59550...	65205	5748.75	5748.75	2.4...	H1-1b
29	FM-240	PIPE_3.0	.131	95...	41	.064	95.312		6	59550...	65205	5748.75	5748.75	2.4...	H1-1b
30	FM-0	PIPE_3.0	.131	95...	81	.064	95.312		10	59550...	65205	5748.75	5748.75	2.4...	H1-1b
31	CONN-PL-21...	PL_3/8x6	.100	2	7	.321	0	y	22	69647...	70875	553.712	8859.375	1.6...	H1-1b
32	CONN-PL-33...	PL_3/8x6	.100	2	11	.321	0	y	14	69647...	70875	553.712	8859.375	1.6...	H1-1b
33	CONN-PL-90-1	PL_3/8x6	.100	2	3	.321	0	y	18	69647...	70875	553.712	8859.375	1.6...	H1-1b
34	CONN-PL-21...	PL_3/8x6	.099	2	5	.322	0	y	14	69647...	70875	553.712	8859.375	1.6...	H1-1b
35	CONN-PL-33...	PL_3/8x6	.099	2	9	.322	0	y	18	69647...	70875	553.712	8859.375	1.6...	H1-1b
36	CONN-PL-90-2	PL_3/8x6	.099	2	13	.322	0	y	22	69647...	70875	553.712	8859.375	1.6...	H1-1b
37	CONN-PL-30...	PL_3/8x6	.093	0	4	.116	0	y	18	70797...	70875	553.712	8859.375	1.0...	H1-1b
38	CONN-PL-60-1	PL_3/8x6	.093	0	8	.116	0	y	22	70797...	70875	553.712	8859.375	1.0...	H1-1b
39	CONN-PL-18...	PL_3/8x6	.093	0	12	.116	0	y	14	70797...	70875	553.712	8859.375	1.0...	H1-1b
40	CONN-PL-60-2	PL_3/8x6	.092	0	12	.115	0	y	22	70797...	70875	553.712	8859.375	1.0...	H1-1b
41	CONN-PL-30...	PL_3/8x6	.092	0	8	.115	0	y	18	70797...	70875	553.712	8859.375	1.0...	H1-1b
42	CONN-PL-18...	PL_3/8x6	.092	0	4	.115	0	y	14	70797...	70875	553.712	8859.375	1.0...	H1-1b
43	COR-PL-90-2	PL_1/2x6	.090	0	2	.040	0	y	111	90856...	94500	984.375	11812.5	1.3...	H1-1b
44	COR-PL-330-2	PL_1/2x6	.090	0	10	.040	0	y	83	90856...	94500	984.375	11812.5	1.3...	H1-1b
45	COR-PL-210-2	PL_1/2x6	.090	0	6	.040	0	y	43	90856...	94500	984.375	11812.5	1.3...	H1-1b
46	COR-PL-90-1	PL_1/2x6	.088	0	2	.038	0	y	109	90856...	94500	984.375	11812.5	1.3...	H1-1b
47	COR-PL-210-1	PL_1/2x6	.088	0	6	.038	0	y	137	90856...	94500	984.375	11812.5	1.3...	H1-1b
48	COR-PL-330-1	PL_1/2x6	.088	0	10	.038	0	y	69	90856...	94500	984.375	11812.5	1.3...	H1-1b
49	COR-PL-210-3	PL_1/2x6	.047	0	10	.120	0	y	83	93978...	94500	984.375	11812.5	1.6...	H1-1b
50	COR-PL-330-3	PL_1/2x6	.047	0	2	.120	0	y	111	93978...	94500	984.375	11812.5	1.6...	H1-1b
51	COR-PL-90-3	PL_1/2x6	.047	0	6	.120	0	y	43	93978...	94500	984.375	11812.5	1.6...	H1-1b
52	COR-PL-330-4	PL_1/2x6	.046	0	6	.113	0	y	137	93978...	94500	984.375	11812.5	1.6...	H1-1b
53	COR-PL-210-4	PL_1/2x6	.046	0	2	.113	0	y	109	93978...	94500	984.375	11812.5	1.6...	H1-1b
54	COR-PL-90-4	PL_1/2x6	.046	0	10	.113	0	y	69	93978...	94500	984.375	11812.5	1.6...	H1-1b

TIA-222-H 4-Bolt Connection Check

Connection Details	
Bolt Diameter =	0.625 in
Bolt Quantity =	4
Bolt Threads/Inch, n =	11
Vertical Bolt Spacing =	6.000 in
Horizontal Bolt Spacing =	6.000 in
Bolt Grade =	A325
Plate Height =	8.250 in
Plate Width =	8.250 in
Plate Thickness =	0.75
Plate Grade =	Other
Standoff Member Type=	HSS
Member Height =	4.000 in
Member Width =	4.000 in
Member Thickness =	0.250 in
Use TIA-222-H Section 15.5?	No
Weld Size =	3/16 in

ENGINEERED TOWER SOLUTIONS, PLLC

Connection Check (Bolts)			
Ø =	0.75		Strength Reduction Factor
A_n =	0.226	in^2	Net Bolt Area (AISC Table 7-17)
A_b =	0.307	in^2	Gross Bolt Area
Fu_{bolt} =	120	ksi	Bolt Ultimate Stress Capacity
$ØR_{nt}$ =	20.34	kip	Bolt Nominal Tensile Capacity (TIA-H 4.9.6.1)
$ØR_{nv}$ =	13.81	kip	Bolt Nominal Shear Capacity (TIA-H 4.9.6.3)
Vu_{bolt} =	1.204	kip	Shear Force Per Bolt
Tu_{bolt} =	5.159	kip	Tension Force Per Bolt
CSR =	25.4%	OK	(TIA 4.9.6.4)

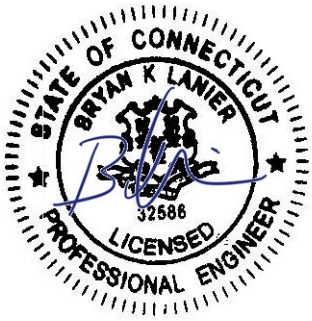
Connection Check (Plate)			
Ø =	0.9		Strength Reduction Factor
F_y =	35	ksi	Plate Yield Capacity
YL_H =	7.48	in	Horizontal plate yield line
YL_V =	7.48	in	Vertical plate yield line
YL_D =	6.01	in	Diagonal plate yield line
M_{max} =	7.3	kip-in	Plate Bending Moment
F_b =	31.5	ksi	Nominal Plate Yield Capacity
f_b =	8.6	ksi	Plate Bending Stress Demand
CSR =	27.4%	OK	

Connection Check (Welds)			
Ø =	0.75		Strength Reduction Factor
F_{EXX} =	70	ksi	Filler Metal Strength (70 ksi assumed)
Fu_{bm} =	58	ksi	Base Metal Strength
$ØR_n$ =	66.8	k/in	Nominal Weld Capacity
R_u =	2.9	k/in	Weld Shear Demand
CSR =	4.4%	OK	

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**119 ft Monopole**
ATC Site Name	:	**STONEYBROOK RD CT, CT**
ATC Asset Number	:	**283420**
Engineering Number	:	**13337496_C3_04**
Proposed Carrier	:	**T-MOBILE**
Carrier Site Name	:	**23 Stonybrook Rd**
Carrier Site Number	:	**CTFF310D**
Site Location	:	**23 Stonybrook Road** **Stratford, CT 06614-3715** **41.203300,-73.148600**
County	:	**Fairfield**
Date	:	**March 29, 2021**
Max Usage	:	**63%**
Result	:	**Pass**



Prepared By:
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29 Mar 2021 09:39:58 cosign

COA: PEC.0001553

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Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 119 ft monopole to reflect the change in loading by T-MOBILE.

Supporting Documents

Tower Drawings	Valmont Order #20380-10, dated July 30, 2010
Foundation Drawing	Valmont Order #20380-60, dated June 11, 2010
Geotechnical Report	Terracon Project #J2105132, dated April 2, 2010
Modifications	TES Job #13142, dated November 12, 2014
Mount Analysis	ETS Project #13337496_C8_03, dated March 23, 2021

Analysis

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

Basic Wind Speed:	119 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	Ss = 0.21, S_1 = 0.05
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
117.0	6	CCI TPX-070821	T-Arm	(1) 0.39" (10mm) Fiber Trunk (12) 1 5/8" Coax (2) 3" conduit (3) 3/8" (0.38"-9.5mm) RET Control Cable (4) 7/8" (0.88"-22.2mm) Fiber	AT&T MOBILITY
	1	Commscope WCS-IMFQ-AMT			
	3	Kathrein Scala 80010965			
	3	CCI OPA-65R-LCUU-H6			
	3	Amphenol Antel BXA-171063-12CF			
	3	Ericsson RRUS-32 B30 (77 lbs)			
	3	Ericsson RRUS 32 B2			
	3	Ericsson RRUS 4449 B5, B12			
	2	Raycap DC6-48-60-18-8F(32.8 lbs)			
97.0	3	RFS APXVAARR24_43-U-NA20	-	(1) 1 1/4" (1.25"-31.8mm) Fiber (1) 1 5/8" Hybriflex	T-MOBILE
77.0	6	Amphenol Antel BXA-70063-6CF-6	T-Arm	(12) 1 5/8" Coax	VERIZON WIRELESS
	6	Amphenol Antel BXA-171063-12CF			
	3	Alcatel-Lucent 9442 RRH 2x40 700U			
	3	Alcatel-Lucent 9442 RRH2x40-AWS			

Equipment to be Removed

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
97.0	3	Ericsson KRY 112 114/2	Stand Off	(1) 1 1/4" (1.25"-31.8mm) Fiber	T-MOBILE
	3	Ericsson Radio 449 B12, B71			
87.0	3	Ericsson AIR32 B66Aa/B2a	Stand Off	(12) 1 5/8" Coax	
	3	Ericsson RRUS 01 B2 w/ Solar Shield			

Proposed Equipment

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
97.0	3	Ericsson RRUS 4415 B25	Platform with Handrails	(1) 1 5/8" Hybriflex	T-MOBILE
	3	Ericsson AIR32 B66Aa/B2a			
	3	Ericsson Air6449 B41			
	3	Ericsson Radio 4449 B71 B85A			

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

Install proposed coax inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	42%	Pass
Shaft	60%	Pass
Base Plate	26%	Pass
Reinforcement	63%	Pass
Flanges	45%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	1,146.4	32%
Axial (Kips)	34.1	5%
Shear (Kips)	13.5	17%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
97.0	Ericsson RRUS 4415 B25	T-MOBILE	0.763	0.919
	Ericsson Air6449 B41			
	Ericsson AIR32 B66Aa/B2a			

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

Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

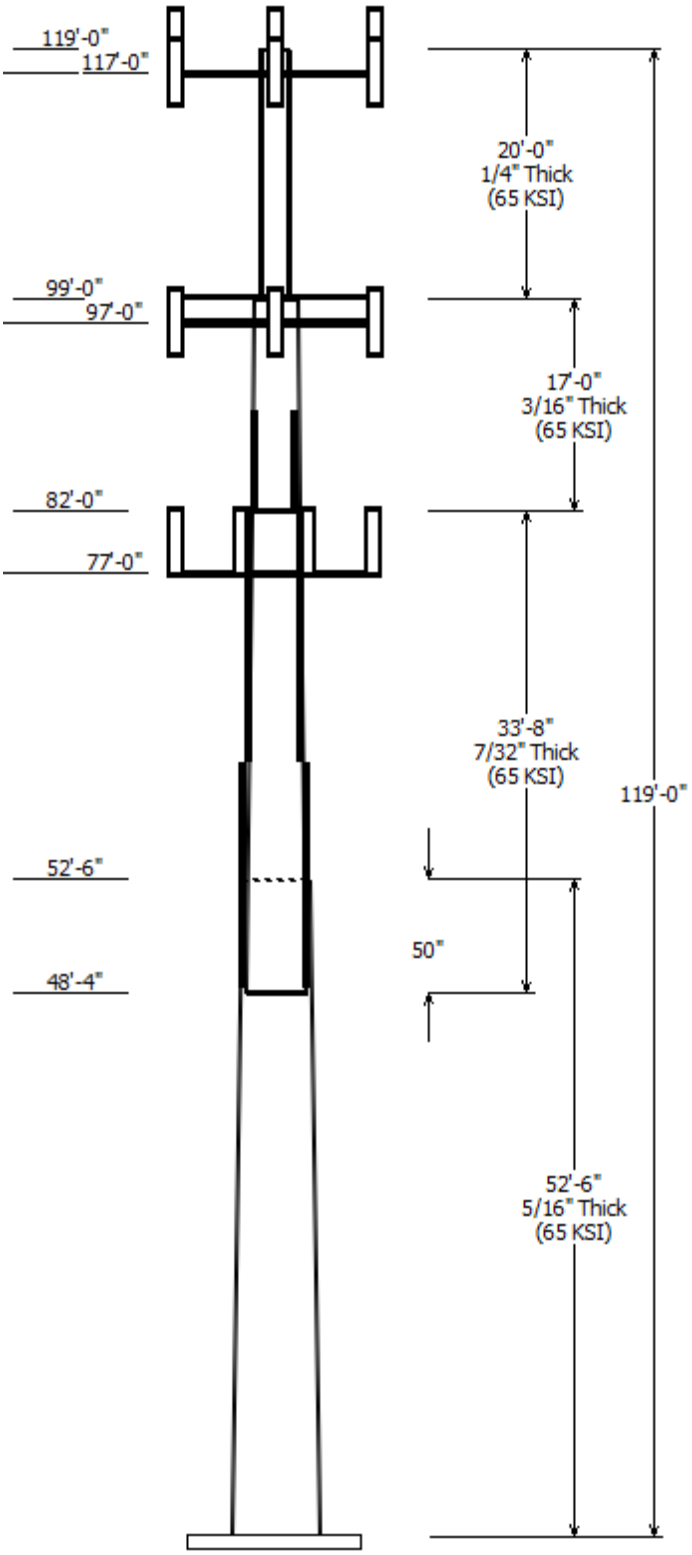
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

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

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



Job Information

Client :	T-MOBILE		
Pole :	283420	Code:	ANSI/TIA-222-H
Location :	STONEYBROOK RD CT, CT		
Description :	119' Valmont Monopole	Risk Category :	II
Shape :	18 Sides	Exposure :	B
Height :	119.00 (ft)	Topo Method :	Method 1
Base Elev (ft):	0.00	Topographic Category :	1
Taper:	0.300000 (in/ft)		

Sections Properties

Shaft Section	Length (ft)	Diameter (in) Across Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Shape	Steel Grade (ksi)
1	52.500	26.25	42.00	0.313		0.000	18 Sides	65
2	33.667	17.83	27.93	0.219	Slip Joint	50.000	18 Sides	65
3	17.000	12.73	17.83	0.188	Butt Joint	0.000	18 Sides	65
4	20.000	12.56	12.56	0.250	Butt Joint	0.000	18 Sides	65

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
117.000	117.000	3	Generic Round T-Arm
117.000	117.000	3	Kathrein Scala 80010965
117.000	118.000	3	CCI OPA-65R-LCUU-H6
117.000	117.000	3	Amphenol Antel BXA-171063-
117.000	117.000	3	Ericsson RRUS-32 B30 (77 lbs)
117.000	118.000	3	Ericsson RRUS 32 B2
117.000	117.000	3	Ericsson RRUS 4449 B5, B12
117.000	118.000	2	Raycap DC6-48-60-18-8F(32.8 lb
117.000	117.000	1	Commscope WCS-IMFQ-AMT
117.000	117.000	6	CCI TPX-070821
97.000	97.000	1	Generic Round Platform with
97.000	97.000	3	RFS APXVAARR24_43-U-NA20
97.000	97.000	3	Ericsson Radio 4449 B71 B85A
97.000	97.000	3	Ericsson Air6449 B41
97.000	97.000	3	Ericsson AIR32 B66Aa/B2a
97.000	97.000	3	Ericsson RRUS 4415 B25
77.000	77.000	3	Generic Round T-Arm
77.000	78.000	6	Amphenol Antel BXA-70063-
77.000	78.000	6	Amphenol Antel BXA-171063-
77.000	77.000	3	Alcatel-Lucent 9442 RRH 2x40 7
77.000	77.000	3	Alcatel-Lucent 9442 RRH2x40-

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
42.000	92.000	Flat Bar	Yes
42.000	92.000	Flat Bar	Yes
42.000	92.000	Flat Bar	Yes
0.000	97.000	1 1/4" (1.25"-	No
0.000	97.000	1 5/8" Hybriflex	No
0.000	97.000	1 5/8" Hybriflex	No
0.000	117.0	0.39" (10mm)	No
0.000	117.0	1 5/8" Coax	No
0.000	117.0	3" conduit	No
0.000	117.0	3/8" (0.38"-	No
0.000	117.0	7/8" (0.88"-	No
0.000	77.000	1 5/8" Coax	No

Load Cases

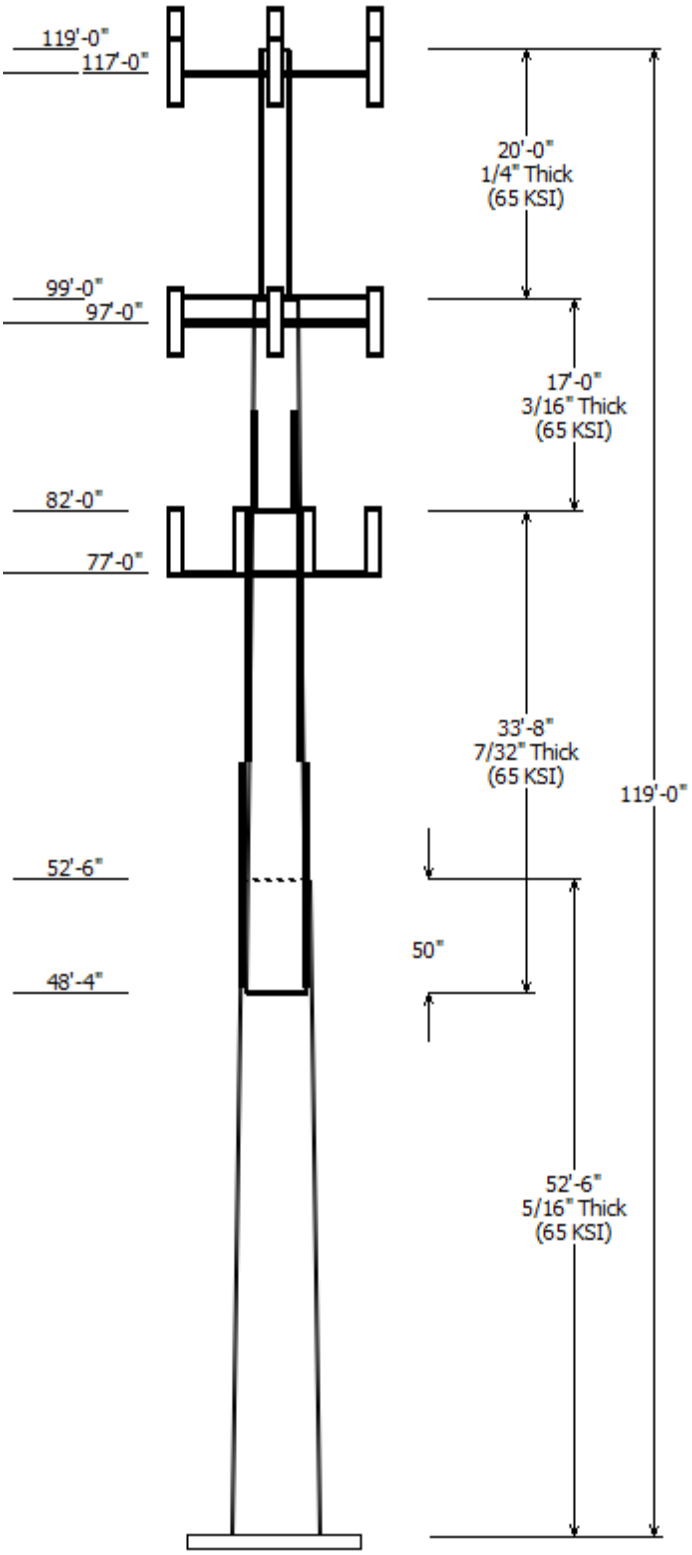
1.2D + 1.0W	119 mph with No Ice
0.9D + 1.0W	119 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

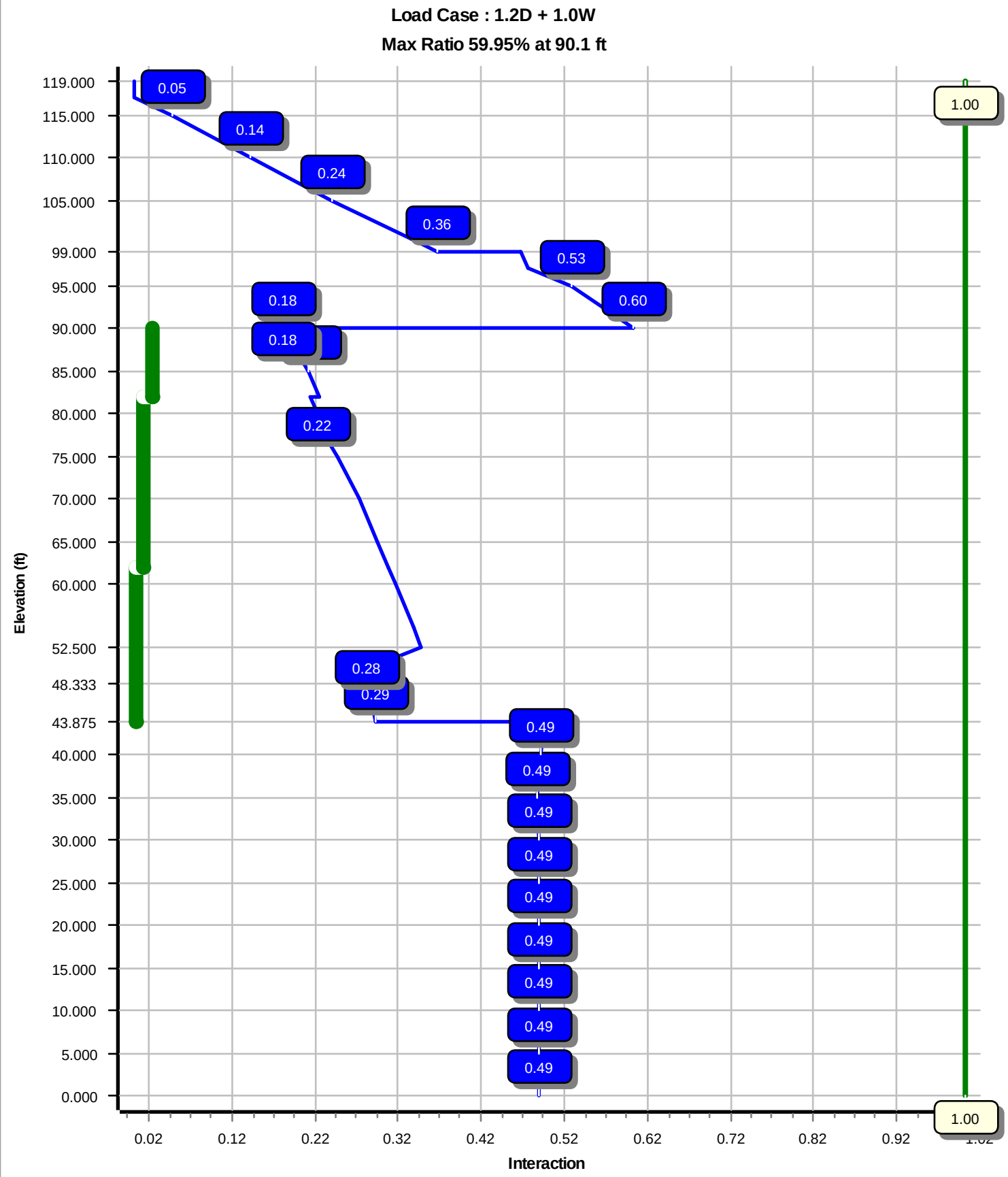
Reactions

Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	1146.37	13.48	34.10
0.9D + 1.0W	1128.45	13.46	25.57
1.2D + 1.0Di + 1.0Wi	296.53	3.55	43.27
1.2D + 1.0Ev + 1.0Eh	80.00	0.86	34.25
0.9D - 1.0Ev + 1.0Eh	78.49	0.85	23.56
1.0D + 1.0W	261.05	3.09	28.43

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000




Load Case : 1.2D + 1.0W
Max Ratio 59.95% at 90.1 ft
Elevation (ft)
119.000
115.000
110.000
105.000
99.000
95.000
90.000
85.000
80.000
75.000
70.000
65.000
60.000
52.500
48.333
43.875
40.000
35.000
30.000
25.000
20.000
15.000
10.000
5.000
0.000
0.05
0.14
0.24
0.36
0.53
0.60
0.18
0.18
0.22
0.28
0.29
0.49
0.49
0.49
0.49
0.49
0.49
0.49
0.49
1.00
1.00
0.02
0.12
0.22
0.32
0.42
0.52
0.62
0.72
0.82
0.92
Interaction

Site Number: 283420 Code: ANSI/TIA-222-H

Site Name: STONEYBROOK RD CT, CT Engineering Number:13337496_C3_04 3/29/2021 2:22:53 PM

Customer: T-MOBILE

Analysis Parameters

Location :	Fairfield County, CT	Height (ft) :	119
Code :	ANSI/TIA-222-H	Base Diameter (in) :	42.00
Shape :	18 Sides	Top Diameter (in) :	12.56
Pole Type :	Custom	Taper (in/ft) :	0.300
Pole Manfacturer :	Valmont	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	1.00

Ice & Wind Parameters

Exposure Category:	B	Design Wind Speed Without Ice:	119 mph
Risk Category:	II	Design Wind Speed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	75.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil				
Period Based on Rayleigh Method (sec):	2.32				
T_L (sec):	6	p:	1	C_s:	0.030
S_s:	0.207	S_1:	0.054	C_s Max:	0.030
F_a:	1.600	F_v:	2.400	C_s Min:	0.030
S_{ds}:	0.221	S_{d1}:	0.086		

Load Cases

1.2D + 1.0W	119 mph with No Ice
0.9D + 1.0W	119 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in²)	Bottom Ix (in⁴)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (ft)	Top Area (in²)	Top Ix (in⁴)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	52.500	0.3125	65		0.00	5,991	42.00	0.00	41.35	9078.5	21.94	134.40	26.25	52.50	25.73	2186.6	13.05	84.00	0.300000
2-18	33.667	0.2188	65	Slip	50.00	1,803	27.93	48.33	19.24	1868.2	20.76	127.71	17.83	82.00	12.23	479.8	12.61	81.54	0.300000
3-18	17.000	0.1875	65	Butt	0.00	520	17.83	82.00	10.50	413.4	15.01	95.13	12.73	99.00	7.47	148.6	10.22	67.93	0.300000
4-18	20.000	0.2500	65	Butt	0.00	665	12.56	99.00	9.77	187.1	7.10	50.25	12.56	119.00	9.77	187.1	7.10	50.25	0.000000
				Shaft Weight		8,979													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor
117.00	CCI TPX-070821	6	0.80	0.000	7.50	0.469	0.50	15.40	0.781	0.50
117.00	Commscope WCS-IMFQ-AMT	1	0.80	0.000	29.50	0.989	1.00	51.43	1.420	1.00
117.00	Raycap DC6-48-60-18-8F(32.8	2	0.80	1.000	32.80	1.470	1.00	72.97	1.925	1.00
117.00	Ericsson RRUS 4449 B5, B12	3	0.80	0.000	71.00	1.969	0.50	112.96	2.576	0.50
117.00	Ericsson RRUS 32 B2	3	0.80	1.000	53.00	2.743	0.67	100.89	3.504	0.67
117.00	Ericsson RRUS-32 B30 (77 lbs)	3	0.80	0.000	77.00	3.314	0.71	140.32	4.150	0.71
117.00	Amphenol Antel BXA-171063-	3	0.80	0.000	12.80	4.790	0.72	75.14	6.326	0.72
117.00	CCI OPA-65R-LCUU-H6	3	0.80	1.000	73.00	9.658	0.66	205.51	11.463	0.66
117.00	Generic Round T-Arm	3	0.75	0.000	312.50	9.700	0.67	482.59	15.068	0.67
117.00	Kathrein Scala 80010965	3	0.80	0.000	97.60	13.814	0.62	271.18	15.800	0.62
97.00	Ericsson Radio 4449 B71 B85A	3	0.75	0.000	75.00	1.650	0.50	113.42	2.193	0.50
97.00	Ericsson RRUS 4415 B25	3	0.75	0.000	46.00	1.842	0.50	77.32	2.415	0.50
97.00	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	191.07	6.696	0.63
97.00	Ericsson AIR32 B66Aa/B2a	3	0.75	0.000	132.20	6.510	0.71	234.17	7.909	0.71
97.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	378.71	22.613	0.63
97.00	Generic Round Platform with	1	1.00	0.000	2,500.00	27.200	1.00	3,534.81	42.817	1.00
77.00	Alcatel-Lucent 9442 RRH2x40-	3	0.80	0.000	49.00	2.500	0.67	96.92	3.188	0.67
77.00	Alcatel-Lucent 9442 RRH 2x40	3	0.80	0.000	50.70	2.744	0.67	103.14	3.422	0.67
77.00	Amphenol Antel BXA-171063-	6	0.80	1.000	12.80	4.790	0.72	72.56	6.262	0.72
77.00	Amphenol Antel BXA-70063-6CF-	6	0.80	1.000	17.00	7.569	0.66	116.86	8.332	0.66
77.00	Generic Round T-Arm	3	0.75	0.000	312.50	9.700	0.67	475.55	14.845	0.67
Totals	Num Loadings:21	67			7,601.50			14,137.78		

Linear Appurtenance Properties

Load Case Azimuth (deg) : 0

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax / Row	Dist Between Rows (in)	Dist Between Cols (in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	117.00	1	0.39" (10mm) Fiber	0.39	0.06	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	117.00	12	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	117.00	2	3" conduit	3.50	7.58	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	117.00	3	3/8" (0.38"- 9.5mm)	0.38	0.23	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	117.00	4	7/8" (0.88"- 22.2mm)	0.88	0.70	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	97.00	1	1 1/4" (1.25"- 31.8mm)	1.25	1.05	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	97.00	1	1 5/8" Hybriflex	1.98	1.30	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	97.00	1	1 5/8" Hybriflex	1.98	1.30	N	0	0.00	0.00	0	0.00	N	T-MOBILE
42.00	92.00	1	Flat Bar	1.00	30.45	Y	1	0.00	0.00	90	0.00	Y	
42.00	92.00	1	Flat Bar	1.00	30.45	Y	1	0.00	0.00	210	0.00	Y	
42.00	92.00	1	Flat Bar	1.00	30.45	Y	1	0.00	0.00	330	0.00	Y	
0.00	77.00	12	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	VERIZON WIRELESS

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description		Fy (ksi)	Offset (in)	Intermediate Connections: Description	Spacing (in)	Len (in)	Connectors	Continuation?
43.88	62.00	3	PL	PL 6" x 1"	65	0.00	5/8" Hollo Bolt	24.0	3.00	5/8" Hollo Bolt	Yes
62.00	82.00	3	PL	PL 6" x 1"	65	0.00	5/8" Hollo Bolt	24.0	3.00	5/8" Hollo Bolt	Yes
82.00	90.13	3	PL	PL 6" x 1"	65	0.00	5/8" Hollo Bolt	24.0	3.00	5/8" Hollo Bolt	Yes

Segment Properties (Max Len : 5. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in^3)	Z (in^3)	Weight (lb)	Additional Reinforcing Area (in^2)	Additional Reinforcing Ix (in^4)	Additional Reinforcing Weight (lb)
0.00		0.3125	42.000	41.347	9,078.5	21.94	134.40	75.6	425.7	0.0	0.0			
5.00		0.3125	40.500	39.860	8,133.3	21.09	129.60	76.6	395.5	0.0	690.8			
10.00		0.3125	39.000	38.372	7,256.2	20.24	124.80	77.6	366.5	0.0	665.5			
15.00		0.3125	37.500	36.884	6,444.4	19.40	120.00	78.6	338.5	0.0	640.2			
20.00		0.3125	36.000	35.396	5,695.6	18.55	115.20	79.6	311.6	0.0	614.9			
25.00		0.3125	34.500	33.909	5,007.2	17.70	110.40	80.6	285.9	0.0	589.6			
30.00		0.3125	33.000	32.421	4,376.6	16.86	105.60	81.6	261.2	0.0	564.3			
35.00		0.3125	31.500	30.933	3,801.3	16.01	100.80	82.6	237.7	0.0	538.9			
40.00		0.3125	30.000	29.445	3,278.8	15.16	96.00	82.6	215.3	0.0	513.6			
43.88	Reinf Bottom	0.3125	28.838	28.292	2,908.5	14.51	92.28	82.6	198.7	0.0	380.7			
45.00		0.3125	28.500	27.957	2,806.5	14.32	91.20	82.6	194.0	0.0	107.7	18.00	1,985	68.9
48.33	Bot - Section 2	0.3125	27.500	26.966	2,518.3	13.75	88.00	82.6	180.4	0.0	311.5	18.00	1,855	204.2
50.00		0.3125	27.000	26.470	2,381.9	13.47	86.40	82.6	173.8	0.0	259.7	18.00	1,847	102.1
52.50	Top - Section 1	0.2188	26.688	18.377	1,626.6	19.75	122.00	78.2	120.1	0.0	380.6	18.00	1,752	153.1
55.00		0.2188	25.938	17.856	1,492.3	19.14	118.57	78.9	113.3	0.0	154.1	18.00	1,660	153.1
60.00		0.2188	24.438	16.815	1,246.1	17.93	111.71	80.3	100.4	0.0	294.9	18.00	1,483	306.3
62.00	Reinf. Top Reinf	0.2188	23.837	16.398	1,155.7	17.45	108.97	80.9	95.5	0.0	113.0	18.00	1,415	122.5
65.00		0.2188	22.938	15.773	1,028.6	16.73	104.86	81.7	88.3	0.0	164.2	18.00	1,317	183.8
70.00		0.2188	21.438	14.732	838.0	15.52	98.00	82.6	77.0	0.0	259.5	18.00	1,160	306.3
75.00		0.2188	19.938	13.690	672.6	14.31	91.14	82.6	66.4	0.0	241.8	18.00	1,014	306.3
77.00		0.2188	19.337	13.274	613.0	13.82	88.40	82.6	62.4	0.0	91.8	18.00	958.4	122.5
80.00		0.2188	18.438	12.649	530.5	13.10	84.29	82.6	56.7	0.0	132.3	18.00	877.9	183.8
82.00	Top - Section 2	0.2188	17.837	12.232	479.8	12.61	81.54	82.6	53.0	0.0	84.7	18.00	826.2	122.5
82.00	Bot - Section 3	0.1875	17.837	10.504	413.4	15.01	95.13	82.6	45.6	0.0		18.00	826.2	
85.00		0.1875	16.938	9.968	353.3	14.16	90.33	82.6	41.1	0.0	104.5	18.00	751.7	183.8
90.00		0.1875	15.438	9.075	266.7	12.75	82.33	82.6	34.0	0.0	162.0	18.00	635.7	306.3
90.13	Reinf. Top	0.1875	15.400	9.053	264.7	12.72	82.13	82.6	33.9	0.0	3.9	18.00	633.0	7.7
95.00		0.1875	13.938	8.183	195.5	11.34	74.33	82.6	27.6	0.0	143.0			
97.00		0.1875	13.337	7.826	171.0	10.78	71.13	82.6	25.2	0.0	54.5			
99.00	Top - Section 3	0.1875	12.738	7.469	148.6	10.22	67.93	82.6	23.0	0.0	52.0			
99.00	Bot - Section 4	0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0				
100.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	33.2			
105.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	166.2			
110.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	166.2			
115.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	166.2			
117.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	66.5			
119.0		0.2500	12.563	9.770	187.1	7.10	50.25	82.6	29.3	0.0	66.5			
											8,978.9			2,832.9

Site Number: 283420 Code: ANSI/TIA-222-H

Site Name: STONEYBROOK RD CT, CT Engineering Number:13337496_C3_04 3/29/2021 2:22:53 PM

Customer: T-MOBILE

Load Case: 1.2D + 1.0W 119 mph with No Ice 25 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.20
Wind Load Factor :1.00

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		168.5	0.0					0.0	0.0	168.5	0.0	0.0	0.0
5.00		330.8	829.0					0.0	252.2	330.8	1,081.2	0.0	0.0
10.00		318.6	798.6					0.0	252.2	318.6	1,050.9	0.0	0.0
15.00		306.3	768.2					0.0	252.2	306.3	1,020.5	0.0	0.0
20.00		294.1	737.9					0.0	252.2	294.1	990.1	0.0	0.0
25.00		281.8	707.5					0.0	252.2	281.8	959.7	0.0	0.0
30.00		272.7	677.1					0.0	252.2	272.7	929.4	0.0	0.0
35.00		268.8	646.7					0.0	252.2	268.8	899.0	0.0	0.0
40.00		236.5	616.4					0.0	252.2	236.5	868.6	0.0	0.0
43.88	Reinf Bottom	132.1	456.8					0.0	401.0	132.1	857.8	0.0	0.0
45.00		116.1	129.2					0.0	262.8	116.1	392.0	0.0	0.0
48.33	Bot - Section 2	130.0	373.8					0.0	778.6	130.0	1,152.3	0.0	0.0
50.00		107.9	311.6					0.0	389.3	107.9	700.9	0.0	0.0
52.50	Top - Section 1	128.0	456.7					0.0	583.9	128.0	1,040.6	0.0	0.0
55.00		187.5	184.9					0.0	583.9	187.5	768.9	0.0	0.0
60.00		172.3	353.9					0.0	1,167.8	172.3	1,521.8	0.0	0.0
62.00	Reinf. Top Reinf	119.4	135.6					0.0	467.1	119.4	602.8	0.0	0.0
65.00		185.4	197.1					0.0	700.7	185.4	897.8	0.0	0.0
70.00		223.1	311.4					0.0	1,167.8	223.1	1,479.3	0.0	0.0
75.00		150.7	290.1					0.0	1,167.8	150.7	1,458.0	0.0	0.0
77.00	Appurtenance(s)	102.8	110.1	2,208.5	0.0	1,409.6	1,698.5	0.0	467.1	2,311.3	2,275.7	0.0	0.0
80.00		100.4	158.8					0.0	665.3	100.4	824.1	0.0	0.0
82.00	Top - Section 2	96.5	101.6					0.0	443.5	96.5	545.1	0.0	0.0
85.00		147.0	125.4					0.0	665.3	147.0	790.7	0.0	0.0
90.00		92.0	194.4					0.0	1,108.8	92.0	1,303.2	0.0	0.0
90.13	Reinf. Top	82.8	4.6					0.0	27.7	82.8	32.3	0.0	0.0
95.00		111.7	171.5					0.0	393.9	111.7	565.5	0.0	0.0
97.00	Appurtenance(s)	61.0	65.4	2,897.2	0.0	0.0	4,746.4	0.0	77.3	2,958.2	4,889.0	0.0	0.0
99.00	Top - Section 3	44.4	62.5					0.0	68.5	44.4	131.0	0.0	0.0
100.00		87.4	39.9					0.0	34.3	87.4	74.2	0.0	0.0
105.00		146.9	199.5					0.0	171.3	146.9	370.8	0.0	0.0
110.00		148.9	199.5					0.0	171.3	148.9	370.8	0.0	0.0
115.00		105.1	199.5					0.0	171.3	105.1	370.8	0.0	0.0
117.00	Appurtenance(s)	56.4	79.8	2,948.1	0.0	863.6	2,677.0	0.0	68.5	3,004.5	2,825.3	0.0	0.0
119.00		26.2	79.8					0.0	0.0	26.2	79.8	0.0	0.0
								Totals:		13,593.9	34,119.3	0.00	0.00

Site Number: 283420 Code: ANSI/TIA-222-H

Site Name: STONEYBROOK RD CT, CT Engineering Number:13337496_C3_04 3/29/2021 2:22:55 PM

Customer: T-MOBILE

Load Case: 1.2D + 1.0W 119 mph with No Ice 25 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.20
Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-34.10	-13.48	0.00	-1,146.37	0.00	1,146.37	2,813.31	725.65	2,732.26	2,413.98	0.00	0.00	0.487
5.00	-32.98	-13.25	0.00	-1,078.98	0.00	1,078.98	2,747.79	699.53	2,539.19	2,272.29	0.09	-0.17	0.487
10.00	-31.88	-13.03	0.00	-1,012.74	0.00	1,012.74	2,679.61	673.42	2,353.20	2,132.56	0.37	-0.36	0.487
15.00	-30.82	-12.82	0.00	-947.60	0.00	947.60	2,608.76	647.31	2,174.28	1,995.03	0.85	-0.55	0.487
20.00	-29.79	-12.62	0.00	-883.49	0.00	883.49	2,535.24	621.20	2,002.44	1,859.96	1.54	-0.75	0.487
25.00	-28.79	-12.44	0.00	-820.37	0.00	820.37	2,459.06	595.09	1,837.67	1,727.58	2.44	-0.96	0.487
30.00	-27.81	-12.26	0.00	-758.19	0.00	758.19	2,380.22	568.98	1,679.97	1,598.16	3.57	-1.19	0.487
35.00	-26.87	-12.08	0.00	-696.89	0.00	696.89	2,298.17	542.87	1,529.34	1,471.58	4.94	-1.42	0.486
40.00	-25.96	-11.93	0.00	-636.47	0.00	636.47	2,187.63	516.76	1,385.79	1,332.77	6.56	-1.67	0.490
43.88	-25.08	-11.83	0.00	-590.25	0.00	590.25	2,101.97	496.53	1,279.40	1,229.91	8.01	-1.88	0.492
45.00	-24.68	-11.74	0.00	-576.95	0.00	576.95	2,077.10	490.65	1,249.31	1,200.82	8.46	-1.94	0.289
48.33	-23.51	-11.60	0.00	-537.83	0.00	537.83	2,003.41	473.25	1,162.26	1,116.68	9.86	-2.06	0.285
50.00	-22.80	-11.50	0.00	-518.49	0.00	518.49	1,966.57	464.54	1,119.91	1,075.76	10.59	-2.11	0.279
52.50	-21.75	-11.36	0.00	-489.76	0.00	489.76	1,292.92	322.51	771.05	703.85	11.71	-2.20	0.345
55.00	-20.96	-11.20	0.00	-461.35	0.00	461.35	1,267.71	313.38	727.98	670.42	12.89	-2.28	0.335
60.00	-19.42	-11.01	0.00	-405.38	0.00	405.38	1,215.29	295.10	645.55	604.90	15.39	-2.48	0.315
62.00	-18.80	-10.89	0.00	-383.36	0.00	383.36	1,193.58	287.79	613.97	579.24	16.44	-2.56	0.306
62.00	-18.80	-10.89	0.00	-383.36	0.00	383.36	1,193.58	287.79	613.97	579.24	16.44	-2.56	0.306
65.00	-17.89	-10.72	0.00	-350.68	0.00	350.68	1,160.21	276.82	568.07	541.39	18.09	-2.68	0.293
70.00	-16.38	-10.48	0.00	-297.09	0.00	297.09	1,094.51	258.55	495.55	476.69	21.01	-2.88	0.270
75.00	-14.91	-10.29	0.00	-244.69	0.00	244.69	1,017.13	240.27	427.97	411.36	24.13	-3.07	0.245
77.00	-12.75	-7.88	0.00	-222.70	0.00	222.70	986.19	232.96	402.33	386.57	25.43	-3.15	0.231
80.00	-11.92	-7.75	0.00	-199.07	0.00	199.07	939.76	221.99	365.35	350.84	27.45	-3.27	0.220
82.00	-11.37	-7.64	0.00	-183.56	0.00	183.56	908.81	214.68	341.68	327.98	28.83	-3.34	0.212
82.00	-11.37	-7.64	0.00	-183.56	0.00	183.56	780.36	184.34	293.89	282.62	28.83	-3.34	0.000
85.00	-10.57	-7.48	0.00	-160.64	0.00	160.64	740.57	174.94	264.69	254.39	30.97	-3.46	0.209
90.00	-9.26	-7.32	0.00	-123.25	0.00	123.25	674.25	159.27	219.41	210.64	34.69	-3.64	0.180
90.13	-9.22	-7.25	0.00	-122.34	0.00	122.34	672.59	158.88	218.34	209.60	34.79	-3.64	0.179
90.13	-9.22	-7.25	0.00	-122.34	0.00	122.34	672.59	158.88	218.34	209.60	34.79	-3.64	0.599
95.00	-8.64	-7.13	0.00	-87.00	0.00	87.00	607.93	143.61	178.38	171.01	38.59	-3.80	0.525
97.00	-3.95	-3.86	0.00	-72.74	0.00	72.74	581.40	137.34	163.16	156.32	40.24	-4.04	0.473
99.00	-3.81	-3.82	0.00	-65.02	0.00	65.02	554.88	131.07	148.61	142.28	41.98	-4.27	0.465
99.00	-3.81	-3.82	0.00	-65.02	0.00	65.02	725.83	171.46	190.75	181.64	41.98	-4.27	0.364
100.00	-3.73	-3.74	0.00	-61.20	0.00	61.20	725.83	171.46	190.75	181.64	42.88	-4.39	0.343
105.00	-3.35	-3.59	0.00	-42.49	0.00	42.49	725.83	171.46	190.75	181.64	47.69	-4.78	0.239
110.00	-2.98	-3.41	0.00	-24.56	0.00	24.56	725.83	171.46	190.75	181.64	52.84	-5.04	0.140
115.00	-2.62	-3.28	0.00	-7.49	0.00	7.49	725.83	171.46	190.75	181.64	58.18	-5.16	0.045
117.00	-0.08	-0.03	0.00	-0.07	0.00	0.07	725.83	171.46	190.75	181.64	60.34	-5.17	0.000
119.00	0.00	-0.03	0.00	0.00	0.00	0.00	725.83	171.46	190.75	181.64	62.51	-5.17	0.000

Load Case: 0.9D + 1.0W — 119 mph with No Ice (Reduced DL) — 25 Iterations

Gust Response Factor :1.10
Dead Load Factor :0.90
Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces Wind FX (lb)	Shaft Forces Dead Load (lb)	Discrete Forces Wind FX (lb)	Discrete Forces Torsion MY (lb-ft)	Discrete Forces Moment MZ (lb-ft)	Discrete Forces Dead Load (lb)	Linear Forces Wind FX (lb)	Linear Forces Dead Load (lb)	Sum of Forces Wind FX (lb)	Sum of Forces Dead Load (lb)	Sum of Forces Torsion MY (lb-ft)	Sum of Forces Moment MZ (lb)
0.00		168.5	0.0					0.0	0.0	168.5	0.0	0.0	0.0
5.00		330.8	621.7					0.0	189.2	330.8	810.9	0.0	0.0
10.00		318.6	599.0					0.0	189.2	318.6	788.1	0.0	0.0
15.00		306.3	576.2					0.0	189.2	306.3	765.4	0.0	0.0
20.00		294.1	553.4					0.0	189.2	294.1	742.6	0.0	0.0
25.00		281.8	530.6					0.0	189.2	281.8	719.8	0.0	0.0
30.00		272.7	507.8					0.0	189.2	272.7	697.0	0.0	0.0
35.00		268.8	485.1					0.0	189.2	268.8	674.2	0.0	0.0
40.00		236.5	462.3					0.0	189.2	236.5	651.5	0.0	0.0
43.88	Reinf Bottom	132.1	342.6					0.0	300.8	132.1	643.4	0.0	0.0
45.00		116.1	96.9					0.0	197.1	116.1	294.0	0.0	0.0
48.33	Bot - Section 2	130.0	280.3					0.0	583.9	130.0	864.3	0.0	0.0
50.00		107.9	233.7					0.0	292.0	107.9	525.7	0.0	0.0
52.50	Top - Section 1	128.0	342.5					0.0	437.9	128.0	780.4	0.0	0.0
55.00		187.5	138.7					0.0	437.9	187.5	576.6	0.0	0.0
60.00		172.3	265.4					0.0	875.9	172.3	1,141.3	0.0	0.0
62.00	Reinf. Top Reinf	119.4	101.7					0.0	350.4	119.4	452.1	0.0	0.0
65.00		185.4	147.8					0.0	525.5	185.4	673.3	0.0	0.0
70.00		223.1	233.6					0.0	875.9	223.1	1,109.4	0.0	0.0
75.00		150.7	217.6					0.0	875.9	150.7	1,093.5	0.0	0.0
77.00	Appurtenance(s)	102.8	82.6	2,208.5	0.0	1,409.6	1,273.9	0.0	350.4	2,311.3	1,706.8	0.0	0.0
80.00		100.4	119.1					0.0	499.0	100.4	618.0	0.0	0.0
82.00	Top - Section 2	96.5	76.2					0.0	332.6	96.5	408.8	0.0	0.0
85.00		147.0	94.0					0.0	499.0	147.0	593.0	0.0	0.0
90.00		92.0	145.8					0.0	831.6	92.0	977.4	0.0	0.0
90.13	Reinf. Top	82.8	3.5					0.0	20.8	82.8	24.3	0.0	0.0
95.00		111.7	128.7					0.0	295.4	111.7	424.1	0.0	0.0
97.00	Appurtenance(s)	61.0	49.0	2,897.2	0.0	0.0	3,559.8	0.0	58.0	2,958.2	3,666.8	0.0	0.0
99.00	Top - Section 3	44.4	46.8					0.0	51.4	44.4	98.2	0.0	0.0
100.00		87.4	29.9					0.0	25.7	87.4	55.6	0.0	0.0
105.00		146.9	149.6					0.0	128.5	146.9	278.1	0.0	0.0
110.00		148.9	149.6					0.0	128.5	148.9	278.1	0.0	0.0
115.00		105.1	149.6					0.0	128.5	105.1	278.1	0.0	0.0
117.00	Appurtenance(s)	56.4	59.8	2,948.1	0.0	863.6	2,007.7	0.0	51.4	3,004.5	2,118.9	0.0	0.0
119.00		26.2	59.8					0.0	0.0	26.2	59.8	0.0	0.0
								Totals:		13,593.9	25,589.5	0.00	0.00

Load Case: 0.9D + 1.0W — 119 mph with No Ice (Reduced DL) — 25 Iterations

Gust Response Factor :1.10
Dead Load Factor :0.90
Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-25.57	-13.46	0.00	-1,128.45	0.00	1,128.45	2,813.31	725.65	2,732.26	2,413.98	0.00	0.00	0.477
5.00	-24.72	-13.21	0.00	-1,061.13	0.00	1,061.13	2,747.79	699.53	2,539.19	2,272.29	0.09	-0.17	0.476
10.00	-23.89	-12.96	0.00	-995.10	0.00	995.10	2,679.61	673.42	2,353.20	2,132.56	0.37	-0.35	0.476
15.00	-23.08	-12.73	0.00	-930.28	0.00	930.28	2,608.76	647.31	2,174.28	1,995.03	0.84	-0.54	0.476
20.00	-22.30	-12.51	0.00	-866.64	0.00	866.64	2,535.24	621.20	2,002.44	1,859.96	1.51	-0.74	0.475
25.00	-21.54	-12.29	0.00	-804.12	0.00	804.12	2,459.06	595.09	1,837.67	1,727.58	2.39	-0.95	0.475
30.00	-20.80	-12.09	0.00	-742.65	0.00	742.65	2,380.22	568.98	1,679.97	1,598.16	3.50	-1.17	0.474
35.00	-20.08	-11.89	0.00	-682.20	0.00	682.20	2,298.17	542.87	1,529.34	1,471.58	4.85	-1.40	0.473
40.00	-19.39	-11.71	0.00	-622.75	0.00	622.75	2,187.63	516.76	1,385.79	1,332.77	6.45	-1.64	0.477
43.88	-18.73	-11.60	0.00	-577.37	0.00	577.37	2,101.97	496.53	1,279.40	1,229.91	7.86	-1.84	0.479
45.00	-18.42	-11.50	0.00	-564.31	0.00	564.31	2,077.10	490.65	1,249.31	1,200.82	8.31	-1.91	0.281
48.33	-17.54	-11.37	0.00	-525.97	0.00	525.97	2,003.41	473.25	1,162.26	1,116.68	9.68	-2.01	0.277
50.00	-17.01	-11.26	0.00	-507.01	0.00	507.01	1,966.57	464.54	1,119.91	1,075.76	10.39	-2.07	0.271
52.50	-16.22	-11.13	0.00	-478.85	0.00	478.85	1,292.92	322.51	771.05	703.85	11.50	-2.15	0.335
55.00	-15.62	-10.96	0.00	-451.03	0.00	451.03	1,267.71	313.38	727.98	670.42	12.65	-2.24	0.326
60.00	-14.46	-10.78	0.00	-396.23	0.00	396.23	1,215.29	295.10	645.55	604.90	15.09	-2.43	0.306
62.00	-14.00	-10.66	0.00	-374.68	0.00	374.68	1,193.58	287.79	613.97	579.24	16.13	-2.51	0.298
62.00	-14.00	-10.66	0.00	-374.68	0.00	374.68	1,193.58	287.79	613.97	579.24	16.13	-2.51	0.298
65.00	-13.30	-10.48	0.00	-342.69	0.00	342.69	1,160.21	276.82	568.07	541.39	17.74	-2.63	0.284
70.00	-12.17	-10.25	0.00	-290.28	0.00	290.28	1,094.51	258.55	495.55	476.69	20.60	-2.82	0.262
75.00	-11.07	-10.07	0.00	-239.05	0.00	239.05	1,017.13	240.27	427.97	411.36	23.66	-3.01	0.238
77.00	-9.47	-7.68	0.00	-217.51	0.00	217.51	986.19	232.96	402.33	386.57	24.94	-3.09	0.225
80.00	-8.85	-7.56	0.00	-194.46	0.00	194.46	939.76	221.99	365.35	350.84	26.91	-3.20	0.214
82.00	-8.43	-7.46	0.00	-179.33	0.00	179.33	908.81	214.68	341.68	327.98	28.27	-3.27	0.206
82.00	-8.43	-7.46	0.00	-179.33	0.00	179.33	780.36	184.34	293.89	282.62	28.27	-3.27	0.000
85.00	-7.83	-7.30	0.00	-156.96	0.00	156.96	740.57	174.94	264.69	254.39	30.36	-3.38	0.203
90.00	-6.85	-7.16	0.00	-120.48	0.00	120.48	674.25	159.27	219.41	210.64	34.00	-3.56	0.174
90.13	-6.82	-7.08	0.00	-119.58	0.00	119.58	672.59	158.88	218.34	209.60	34.09	-3.57	0.174
90.13	-6.82	-7.08	0.00	-119.58	0.00	119.58	672.59	158.88	218.34	209.60	34.09	-3.57	0.583
95.00	-6.38	-6.96	0.00	-85.06	0.00	85.06	607.93	143.61	178.38	171.01	37.82	-3.72	0.510
97.00	-2.91	-3.78	0.00	-71.13	0.00	71.13	581.40	137.34	163.16	156.32	39.43	-3.95	0.461
99.00	-2.80	-3.74	0.00	-63.57	0.00	63.57	554.88	131.07	148.61	142.28	41.13	-4.18	0.453
99.00	-2.80	-3.74	0.00	-63.57	0.00	63.57	725.83	171.46	190.75	181.64	41.13	-4.18	0.354
100.00	-2.73	-3.66	0.00	-59.84	0.00	59.84	725.83	171.46	190.75	181.64	42.02	-4.29	0.334
105.00	-2.45	-3.50	0.00	-41.55	0.00	41.55	725.83	171.46	190.75	181.64	46.73	-4.68	0.233
110.00	-2.17	-3.34	0.00	-24.04	0.00	24.04	725.83	171.46	190.75	181.64	51.77	-4.93	0.136
115.00	-1.90	-3.21	0.00	-7.35	0.00	7.35	725.83	171.46	190.75	181.64	56.99	-5.05	0.043
117.00	-0.06	-0.03	0.00	-0.06	0.00	0.06	725.83	171.46	190.75	181.64	59.11	-5.06	0.000
119.00	0.00	-0.03	0.00	0.00	0.00	0.00	725.83	171.46	190.75	181.64	61.23	-5.06	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 1.00 in Radial Ice 24 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor :1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces Wind FX (lb)	Shaft Forces Dead Load (lb)	Discrete Forces Wind FX (lb)	Discrete Forces Torsion MY (lb-ft)	Discrete Forces Moment MZ (lb-ft)	Discrete Forces Dead Load (lb)	Linear Forces Wind FX (lb)	Linear Forces Dead Load (lb)	Sum of Forces Wind FX (lb)	Sum of Forces Dead Load (lb)	Sum of Forces Torsion MY (lb-ft)	Sum of Forces Moment MZ (lb)
0.00		50.7	0.0					0.0	0.0	50.7	0.0	0.0	0.0
5.00		99.8	1,028.8					0.0	252.2	99.8	1,281.0	0.0	0.0
10.00		96.6	1,013.9					0.0	252.2	96.6	1,266.2	0.0	0.0
15.00		93.2	986.6					0.0	252.2	93.2	1,238.8	0.0	0.0
20.00		89.8	955.0					0.0	252.2	89.8	1,207.3	0.0	0.0
25.00		86.3	921.3					0.0	252.2	86.3	1,173.5	0.0	0.0
30.00		83.8	886.1					0.0	252.2	83.8	1,138.4	0.0	0.0
35.00		82.9	850.0					0.0	252.2	82.9	1,102.2	0.0	0.0
40.00		73.2	813.1					0.0	252.2	73.2	1,065.4	0.0	0.0
43.88	Reinf Bottom	41.0	605.3					0.0	406.3	41.0	1,011.6	0.0	0.0
45.00		36.1	172.1					0.0	266.0	36.1	438.1	0.0	0.0
48.33	Bot - Section 2	40.5	497.1					0.0	788.2	40.5	1,285.3	0.0	0.0
50.00		33.7	373.5					0.0	394.1	33.7	767.6	0.0	0.0
52.50	Top - Section 1	40.0	547.4					0.0	591.2	40.0	1,138.6	0.0	0.0
55.00		58.8	273.7					0.0	591.3	58.8	864.9	0.0	0.0
60.00		54.2	522.7					0.0	1,182.7	54.2	1,705.4	0.0	0.0
62.00	Reinf. Top Reinf	37.7	201.9					0.0	473.1	37.7	675.1	0.0	0.0
65.00		58.8	293.4					0.0	709.7	58.8	1,003.1	0.0	0.0
70.00		71.2	462.8					0.0	1,183.0	71.2	1,645.8	0.0	0.0
75.00		48.3	432.5					0.0	1,183.1	48.3	1,615.7	0.0	0.0
77.00	Appurtenance(s)	33.2	165.7	496.8	0.0	294.9	3,182.2	0.0	473.3	530.0	3,821.2	0.0	0.0
80.00		32.5	238.8					0.0	674.5	32.5	913.3	0.0	0.0
82.00	Top - Section 2	31.4	153.5					0.0	449.7	31.4	603.2	0.0	0.0
85.00		48.2	199.7					0.0	674.6	48.2	874.4	0.0	0.0
90.00		30.3	308.6					0.0	1,124.5	30.3	1,433.0	0.0	0.0
90.13	Reinf. Top	27.6	7.5					0.0	28.1	27.6	35.6	0.0	0.0
95.00		37.4	273.4					0.0	399.8	37.4	673.2	0.0	0.0
97.00	Appurtenance(s)	20.6	105.6	667.7	0.0	0.0	6,734.0	0.0	77.3	688.3	6,916.9	0.0	0.0
99.00	Top - Section 3	15.1	101.1					0.0	68.5	15.1	169.6	0.0	0.0
100.00		29.8	59.0					0.0	34.3	29.8	93.3	0.0	0.0
105.00		50.1	295.4					0.0	171.3	50.1	466.7	0.0	0.0
110.00		50.8	295.9					0.0	171.3	50.8	467.2	0.0	0.0
115.00		35.9	296.3					0.0	171.3	35.9	467.6	0.0	0.0
117.00	Appurtenance(s)	19.9	118.7	670.5	0.0	185.7	4,411.2	0.0	68.5	690.4	4,598.4	0.0	0.0
119.00		9.5	118.7					0.0	0.0	9.5	118.7	0.0	0.0
								Totals:		3,584.07	43,276.1	0.00	0.00

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 1.00 in Radial Ice 24 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor :1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-43.27	-3.55	0.00	-296.53	0.00	296.53	2,813.31	725.65	2,732.26	2,413.98	0.00	0.00	0.138
5.00	-41.99	-3.48	0.00	-278.78	0.00	278.78	2,747.79	699.53	2,539.19	2,272.29	0.02	-0.05	0.138
10.00	-40.72	-3.42	0.00	-261.36	0.00	261.36	2,679.61	673.42	2,353.20	2,132.56	0.10	-0.09	0.138
15.00	-39.48	-3.36	0.00	-244.26	0.00	244.26	2,608.76	647.31	2,174.28	1,995.03	0.22	-0.14	0.138
20.00	-38.27	-3.30	0.00	-227.47	0.00	227.47	2,535.24	621.20	2,002.44	1,859.96	0.40	-0.19	0.137
25.00	-37.09	-3.25	0.00	-210.96	0.00	210.96	2,459.06	595.09	1,837.67	1,727.58	0.63	-0.25	0.137
30.00	-35.95	-3.20	0.00	-194.72	0.00	194.72	2,380.22	568.98	1,679.97	1,598.16	0.92	-0.31	0.137
35.00	-34.85	-3.14	0.00	-178.75	0.00	178.75	2,298.17	542.87	1,529.34	1,471.58	1.27	-0.37	0.137
40.00	-33.78	-3.10	0.00	-163.03	0.00	163.03	2,187.63	516.76	1,385.79	1,332.77	1.69	-0.43	0.138
43.88	-32.77	-3.07	0.00	-151.03	0.00	151.03	2,101.97	496.53	1,279.40	1,229.91	2.06	-0.48	0.138
45.00	-32.33	-3.04	0.00	-147.58	0.00	147.58	2,077.10	490.65	1,249.31	1,200.82	2.18	-0.50	0.081
48.33	-31.04	-3.00	0.00	-137.44	0.00	137.44	2,003.41	473.25	1,162.26	1,116.68	2.54	-0.53	0.080
50.00	-30.27	-2.97	0.00	-132.44	0.00	132.44	1,966.57	464.54	1,119.91	1,075.76	2.73	-0.54	0.079
52.50	-29.13	-2.93	0.00	-125.02	0.00	125.02	1,292.92	322.51	771.05	703.85	3.02	-0.56	0.097
55.00	-28.27	-2.88	0.00	-117.70	0.00	117.70	1,267.71	313.38	727.98	670.42	3.32	-0.59	0.094
60.00	-26.56	-2.82	0.00	-103.30	0.00	103.30	1,215.29	295.10	645.55	604.90	3.96	-0.64	0.089
62.00	-25.89	-2.79	0.00	-97.65	0.00	97.65	1,193.58	287.79	613.97	579.24	4.23	-0.66	0.086
62.00	-25.89	-2.79	0.00	-97.65	0.00	97.65	1,193.58	287.79	613.97	579.24	4.23	-0.66	0.086
65.00	-24.88	-2.74	0.00	-89.29	0.00	89.29	1,160.21	276.82	568.07	541.39	4.66	-0.69	0.082
70.00	-23.23	-2.67	0.00	-75.60	0.00	75.60	1,094.51	258.55	495.55	476.69	5.40	-0.74	0.076
75.00	-21.62	-2.61	0.00	-62.27	0.00	62.27	1,017.13	240.27	427.97	411.36	6.20	-0.79	0.070
77.00	-17.80	-2.03	0.00	-56.76	0.00	56.76	986.19	232.96	402.33	386.57	6.54	-0.81	0.065
80.00	-16.89	-1.99	0.00	-50.66	0.00	50.66	939.76	221.99	365.35	350.84	7.06	-0.84	0.062
82.00	-16.29	-1.96	0.00	-46.67	0.00	46.67	908.81	214.68	341.68	327.98	7.41	-0.86	0.060
82.00	-16.29	-1.96	0.00	-46.67	0.00	46.67	780.36	184.34	293.89	282.62	7.41	-0.86	0.000
85.00	-15.41	-1.91	0.00	-40.79	0.00	40.79	740.57	174.94	264.69	254.39	7.96	-0.89	0.059
90.00	-13.98	-1.86	0.00	-31.24	0.00	31.24	674.25	159.27	219.41	210.64	8.91	-0.93	0.051
90.13	-13.94	-1.84	0.00	-31.01	0.00	31.01	672.59	158.88	218.34	209.60	8.94	-0.93	0.051
90.13	-13.94	-1.84	0.00	-31.01	0.00	31.01	672.59	158.88	218.34	209.60	8.94	-0.93	0.169
95.00	-13.27	-1.80	0.00	-22.04	0.00	22.04	607.93	143.61	178.38	171.01	9.91	-0.97	0.151
97.00	-6.36	-1.00	0.00	-18.44	0.00	18.44	581.40	137.34	163.16	156.32	10.33	-1.03	0.129
99.00	-6.19	-0.99	0.00	-16.44	0.00	16.44	554.88	131.07	148.61	142.28	10.78	-1.09	0.127
99.00	-6.19	-0.99	0.00	-16.44	0.00	16.44	725.83	171.46	190.75	181.64	10.78	-1.09	0.099
100.00	-6.10	-0.96	0.00	-15.45	0.00	15.45	725.83	171.46	190.75	181.64	11.01	-1.12	0.094
105.00	-5.63	-0.91	0.00	-10.64	0.00	10.64	725.83	171.46	190.75	181.64	12.24	-1.22	0.066
110.00	-5.17	-0.85	0.00	-6.09	0.00	6.09	725.83	171.46	190.75	181.64	13.55	-1.28	0.041
115.00	-4.70	-0.81	0.00	-1.83	0.00	1.83	725.83	171.46	190.75	181.64	14.92	-1.31	0.017
117.00	-0.12	-0.01	0.00	-0.02	0.00	0.02	725.83	171.46	190.75	181.64	15.47	-1.32	0.000
119.00	0.00	-0.01	0.00	0.00	0.00	0.00	725.83	171.46	190.75	181.64	16.02	-1.32	0.000

Site Number: 283420 Code: ANSI/TIA-222-H

Site Name: STONEYBROOK RD CT, CT Engineering Number:13337496_C3_04 3/29/2021 2:23:00 PM

Customer: T-MOBILE

Load Case: 1.0D + 1.0W Serviceability 60 mph 24 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.00
Wind Load Factor :1.00

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		38.3	0.0					0.0	0.0	38.3	0.0	0.0	0.0
5.00		75.2	690.8					0.0	210.2	75.2	901.0	0.0	0.0
10.00		72.5	665.5					0.0	210.2	72.5	875.7	0.0	0.0
15.00		69.7	640.2					0.0	210.2	69.7	850.4	0.0	0.0
20.00		66.9	614.9					0.0	210.2	66.9	825.1	0.0	0.0
25.00		64.1	589.6					0.0	210.2	64.1	799.8	0.0	0.0
30.00		62.0	564.3					0.0	210.2	62.0	774.5	0.0	0.0
35.00		61.2	538.9					0.0	210.2	61.2	749.1	0.0	0.0
40.00		53.8	513.6					0.0	210.2	53.8	723.8	0.0	0.0
43.88	Reinf Bottom	30.0	380.7					0.0	334.2	30.0	714.8	0.0	0.0
45.00		26.4	107.7					0.0	219.0	26.4	326.6	0.0	0.0
48.33	Bot - Section 2	29.6	311.5					0.0	648.8	29.6	960.3	0.0	0.0
50.00		24.5	259.7					0.0	324.4	24.5	584.1	0.0	0.0
52.50	Top - Section 1	29.1	380.6					0.0	486.6	29.1	867.2	0.0	0.0
55.00		42.7	154.1					0.0	486.6	42.7	640.7	0.0	0.0
60.00		39.2	294.9					0.0	973.2	39.2	1,268.1	0.0	0.0
62.00	Reinf. Top Reinf	27.2	113.0					0.0	389.3	27.2	502.3	0.0	0.0
65.00		42.2	164.2					0.0	583.9	42.2	748.1	0.0	0.0
70.00		50.8	259.5					0.0	973.2	50.8	1,232.7	0.0	0.0
75.00		34.3	241.8					0.0	973.2	34.3	1,215.0	0.0	0.0
77.00	Appurtenance(s)	23.4	91.8	502.3	0.0	320.6	1,415.4	0.0	389.3	525.7	1,896.4	0.0	0.0
80.00		22.8	132.3					0.0	554.4	22.8	686.7	0.0	0.0
82.00	Top - Section 2	22.0	84.7					0.0	369.6	22.0	454.3	0.0	0.0
85.00		33.4	104.5					0.0	554.4	33.4	658.9	0.0	0.0
90.00		20.9	162.0					0.0	924.0	20.9	1,086.0	0.0	0.0
90.13	Reinf. Top	19.7	3.9					0.0	23.1	19.7	27.0	0.0	0.0
95.00		27.0	143.0					0.0	328.3	27.0	471.2	0.0	0.0
97.00	Appurtenance(s)	15.5	54.5	659.0	0.0	0.0	3,955.3	0.0	64.4	674.5	4,074.2	0.0	0.0
99.00	Top - Section 3	11.5	52.0					0.0	57.1	11.5	109.1	0.0	0.0
100.00		23.1	33.2					0.0	28.5	23.1	61.8	0.0	0.0
105.00		38.6	166.2					0.0	142.8	38.6	309.0	0.0	0.0
110.00		39.0	166.2					0.0	142.8	39.0	309.0	0.0	0.0
115.00		27.4	166.2					0.0	142.8	27.4	309.0	0.0	0.0
117.00	Appurtenance(s)	14.8	66.5	670.6	0.0	196.4	2,230.8	0.0	57.1	685.3	2,354.4	0.0	0.0
119.00		6.9	66.5					0.0	0.0	6.9	66.5	0.0	0.0
								Totals:		3,117.46	28,432.8	0.00	0.00

Load Case: 1.0D + 1.0W Serviceability 60 mph 24 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.00
Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-28.43	-3.09	0.00	-261.05	0.00	261.05	2,813.31	725.65	2,732.26	2,413.98	0.00	0.00	0.118
5.00	-27.53	-3.03	0.00	-245.61	0.00	245.61	2,747.79	699.53	2,539.19	2,272.29	0.02	-0.04	0.118
10.00	-26.65	-2.98	0.00	-230.44	0.00	230.44	2,679.61	673.42	2,353.20	2,132.56	0.09	-0.08	0.118
15.00	-25.80	-2.93	0.00	-215.55	0.00	215.55	2,608.76	647.31	2,174.28	1,995.03	0.19	-0.13	0.118
20.00	-24.97	-2.88	0.00	-200.91	0.00	200.91	2,535.24	621.20	2,002.44	1,859.96	0.35	-0.17	0.118
25.00	-24.17	-2.83	0.00	-186.51	0.00	186.51	2,459.06	595.09	1,837.67	1,727.58	0.55	-0.22	0.118
30.00	-23.39	-2.79	0.00	-172.34	0.00	172.34	2,380.22	568.98	1,679.97	1,598.16	0.81	-0.27	0.118
35.00	-22.64	-2.75	0.00	-158.39	0.00	158.39	2,298.17	542.87	1,529.34	1,471.58	1.12	-0.32	0.118
40.00	-21.91	-2.71	0.00	-144.65	0.00	144.65	2,187.63	516.76	1,385.79	1,332.77	1.49	-0.38	0.119
43.88	-21.20	-2.68	0.00	-134.16	0.00	134.16	2,101.97	496.53	1,279.40	1,229.91	1.82	-0.43	0.119
45.00	-20.87	-2.66	0.00	-131.14	0.00	131.14	2,077.10	490.65	1,249.31	1,200.82	1.92	-0.44	0.070
48.33	-19.91	-2.63	0.00	-122.26	0.00	122.26	2,003.41	473.25	1,162.26	1,116.68	2.24	-0.47	0.069
50.00	-19.33	-2.61	0.00	-117.88	0.00	117.88	1,966.57	464.54	1,119.91	1,075.76	2.41	-0.48	0.068
52.50	-18.46	-2.58	0.00	-111.36	0.00	111.36	1,292.92	322.51	771.05	703.85	2.66	-0.50	0.083
55.00	-17.82	-2.54	0.00	-104.91	0.00	104.91	1,267.71	313.38	727.98	670.42	2.93	-0.52	0.081
60.00	-16.55	-2.50	0.00	-92.21	0.00	92.21	1,215.29	295.10	645.55	604.90	3.50	-0.56	0.076
62.00	-16.04	-2.47	0.00	-87.22	0.00	87.22	1,193.58	287.79	613.97	579.24	3.74	-0.58	0.074
62.00	-16.04	-2.47	0.00	-87.22	0.00	87.22	1,193.58	287.79	613.97	579.24	3.74	-0.58	0.074
65.00	-15.30	-2.43	0.00	-79.80	0.00	79.80	1,160.21	276.82	568.07	541.39	4.12	-0.61	0.071
70.00	-14.06	-2.38	0.00	-67.64	0.00	67.64	1,094.51	258.55	495.55	476.69	4.78	-0.65	0.065
75.00	-12.85	-2.34	0.00	-55.75	0.00	55.75	1,017.13	240.27	427.97	411.36	5.49	-0.70	0.060
77.00	-10.95	-1.79	0.00	-50.76	0.00	50.76	986.19	232.96	402.33	386.57	5.79	-0.72	0.056
80.00	-10.27	-1.76	0.00	-45.38	0.00	45.38	939.76	221.99	365.35	350.84	6.24	-0.74	0.053
82.00	-9.81	-1.74	0.00	-41.85	0.00	41.85	908.81	214.68	341.68	327.98	6.56	-0.76	0.051
82.00	-9.81	-1.74	0.00	-41.85	0.00	41.85	780.36	184.34	293.89	282.62	6.56	-0.76	0.000
85.00	-9.15	-1.70	0.00	-36.63	0.00	36.63	740.57	174.94	264.69	254.39	7.05	-0.79	0.051
90.00	-8.07	-1.67	0.00	-28.12	0.00	28.12	674.25	159.27	219.41	210.64	7.89	-0.83	0.044
90.13	-8.04	-1.65	0.00	-27.91	0.00	27.91	672.59	158.88	218.34	209.60	7.91	-0.83	0.043
90.13	-8.04	-1.65	0.00	-27.91	0.00	27.91	672.59	158.88	218.34	209.60	7.91	-0.83	0.145
95.00	-7.57	-1.62	0.00	-19.86	0.00	19.86	607.93	143.61	178.38	171.01	8.78	-0.87	0.129
97.00	-3.50	-0.89	0.00	-16.61	0.00	16.61	581.40	137.34	163.16	156.32	9.16	-0.92	0.112
99.00	-3.39	-0.88	0.00	-14.83	0.00	14.83	554.88	131.07	148.61	142.28	9.55	-0.97	0.110
99.00	-3.39	-0.88	0.00	-14.83	0.00	14.83	725.83	171.46	190.75	181.64	9.55	-0.97	0.086
100.00	-3.33	-0.86	0.00	-13.95	0.00	13.95	725.83	171.46	190.75	181.64	9.76	-1.00	0.081
105.00	-3.02	-0.82	0.00	-9.66	0.00	9.66	725.83	171.46	190.75	181.64	10.85	-1.09	0.057
110.00	-2.71	-0.77	0.00	-5.57	0.00	5.57	725.83	171.46	190.75	181.64	12.03	-1.15	0.034
115.00	-2.41	-0.74	0.00	-1.70	0.00	1.70	725.83	171.46	190.75	181.64	13.24	-1.17	0.013
117.00	-0.07	-0.01	0.00	-0.02	0.00	0.02	725.83	171.46	190.75	181.64	13.74	-1.18	0.000
119.00	0.00	-0.01	0.00	0.00	0.00	0.00	725.83	171.46	190.75	181.64	14.23	-1.18	0.000

Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period (S_s):	0.21
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.05
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a:	1.60
Site Coeffiecient F_v:	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.22
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	2.32
Redundancy Factor (p):	1.00
Seismic Force Distribution Exponent (k):	1.91
Total Unfactored Dead Load:	28.43 k
Seismic Base Shear (E):	0.85 k

Load Case 1.2D + 1.0Ev + 1.0Eh Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
34	118.00	66	607	0.006	5	83
33	116.00	124	1,093	0.011	9	154
32	112.50	309	2,576	0.025	21	384
31	107.50	309	2,362	0.023	19	384
30	102.50	309	2,156	0.021	18	384
29	99.50	62	407	0.004	3	77
28	98.00	109	699	0.007	6	136
27	96.00	119	732	0.007	6	148
26	92.56	471	2,706	0.026	22	586
25	90.06	27	147	0.001	1	34
24	87.50	1,086	5,600	0.054	46	1,351
23	83.50	659	3,107	0.030	26	820
22	81.00	454	2,021	0.020	17	565
21	78.50	687	2,878	0.028	24	854
20	76.00	481	1,895	0.018	16	598
19	72.50	1,215	4,374	0.042	36	1,512
18	67.50	1,233	3,871	0.037	32	1,534
17	63.50	748	2,090	0.020	17	931
16	61.00	502	1,300	0.013	11	625
15	57.50	1,268	2,931	0.028	24	1,578
14	53.75	641	1,302	0.013	11	797
13	51.25	867	1,608	0.016	13	1,079
12	49.17	584	1,001	0.010	8	727
11	46.67	960	1,489	0.014	12	1,195
10	44.44	327	461	0.004	4	406

9	41.94	715	904	0.009	7	889
8	37.50	724	739	0.007	6	901
7	32.50	749	582	0.006	5	932
6	27.50	774	437	0.004	4	964
5	22.50	800	307	0.003	3	995
4	17.50	825	196	0.002	2	1,027
3	12.50	850	106	0.001	1	1,058
2	7.50	876	41	0.000	0	1,090
1	2.50	901	5	0.000	0	1,121
CCI TPX-070821	117.00	45	404	0.004	3	56
Commscope WCS-IMFQ-A	117.00	30	265	0.003	2	37
Raycap DC6-48-60-18-	117.00	66	590	0.006	5	82
Ericsson RRUS 4449 B	117.00	213	1,914	0.019	16	265
Ericsson RRUS 32 B2	117.00	159	1,429	0.014	12	198
Ericsson RRUS-32 B30	117.00	231	2,076	0.020	17	287
Amphenol Antel BXA-1	117.00	38	345	0.003	3	48
CCI OPA-65R-LCUU-H6	117.00	219	1,968	0.019	16	272
Generic Round T-Arm	117.00	938	8,425	0.082	70	1,166
Kathrein Scala 80010	117.00	293	2,631	0.025	22	364
Ericsson Radio 4449	97.00	225	1,413	0.014	12	280
Ericsson RRUS 4415 B	97.00	138	867	0.008	7	172
Ericsson Air6449 B41	97.00	312	1,959	0.019	16	388
Ericsson AIR32 B66Aa	97.00	397	2,491	0.024	21	493
RFS APXVAARR24_43-U-	97.00	384	2,410	0.023	20	477
Generic Round Platfo	97.00	2,500	15,700	0.152	130	3,110
Alcatel-Lucent 9442	77.00	147	594	0.006	5	183
Alcatel-Lucent 9442	77.00	152	614	0.006	5	189
Amphenol Antel BXA-1	77.00	77	310	0.003	3	96
Amphenol Antel BXA-7	77.00	102	412	0.004	3	127
Generic Round T-Arm	77.00	938	3,786	0.037	31	1,166
		28,433	103,334	1.000	853	35,375

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
34	118.00	66	607	0.006	5	57
33	116.00	124	1,093	0.011	9	106
32	112.50	309	2,576	0.025	21	264
31	107.50	309	2,362	0.023	19	264
30	102.50	309	2,156	0.021	18	264
29	99.50	62	407	0.004	3	53
28	98.00	109	699	0.007	6	93
27	96.00	119	732	0.007	6	102
26	92.56	471	2,706	0.026	22	403
25	90.06	27	147	0.001	1	23
24	87.50	1,086	5,600	0.054	46	929
23	83.50	659	3,107	0.030	26	564
22	81.00	454	2,021	0.020	17	389
21	78.50	687	2,878	0.028	24	588
20	76.00	481	1,895	0.018	16	412
19	72.50	1,215	4,374	0.042	36	1,040
18	67.50	1,233	3,871	0.037	32	1,055
17	63.50	748	2,090	0.020	17	640
16	61.00	502	1,300	0.013	11	430
15	57.50	1,268	2,931	0.028	24	1,085
14	53.75	641	1,302	0.013	11	548
13	51.25	867	1,608	0.016	13	742
12	49.17	584	1,001	0.010	8	500
11	46.67	960	1,489	0.014	12	822
10	44.44	327	461	0.004	4	280

9	41.94	715	904	0.009	7	612
8	37.50	724	739	0.007	6	619
7	32.50	749	582	0.006	5	641
6	27.50	774	437	0.004	4	663
5	22.50	800	307	0.003	3	684
4	17.50	825	196	0.002	2	706
3	12.50	850	106	0.001	1	728
2	7.50	876	41	0.000	0	749
1	2.50	901	5	0.000	0	771
CCI TPX-070821	117.00	45	404	0.004	3	39
Commscope WCS-IMFQ-A	117.00	30	265	0.003	2	25
Raycap DC6-48-60-18-	117.00	66	590	0.006	5	56
Ericsson RRUS 4449 B	117.00	213	1,914	0.019	16	182
Ericsson RRUS 32 B2	117.00	159	1,429	0.014	12	136
Ericsson RRUS-32 B30	117.00	231	2,076	0.020	17	198
Amphenol Antel BXA-1	117.00	38	345	0.003	3	33
CCI OPA-65R-LCUU-H6	117.00	219	1,968	0.019	16	187
Generic Round T-Arm	117.00	938	8,425	0.082	70	802
Kathrein Scala 80010	117.00	293	2,631	0.025	22	251
Ericsson Radio 4449	97.00	225	1,413	0.014	12	193
Ericsson RRUS 4415 B	97.00	138	867	0.008	7	118
Ericsson Air6449 B41	97.00	312	1,959	0.019	16	267
Ericsson AIR32 B66Aa	97.00	397	2,491	0.024	21	339
RFS APXVAARR24_43-U-	97.00	384	2,410	0.023	20	328
Generic Round Platfo	97.00	2,500	15,700	0.152	130	2,140
Alcatel-Lucent 9442	77.00	147	594	0.006	5	126
Alcatel-Lucent 9442	77.00	152	614	0.006	5	130
Amphenol Antel BXA-1	77.00	77	310	0.003	3	66
Amphenol Antel BXA-7	77.00	102	412	0.004	3	87
Generic Round T-Arm	77.00	938	3,786	0.037	31	802
		28,433	103,334	1.000	853	24,334

Load Case 1.2D + 1.0Ev + 1.0Eh Seismic

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-34.25	-0.86	0.00	-80.00	0.00	80.00	2,813.31	725.65	2,732.26	2,413.98	0.00	0.00	0.045
5.00	-33.16	-0.86	0.00	-75.73	0.00	75.73	2,747.79	699.53	2,539.19	2,272.29	0.01	-0.01	0.045
10.00	-32.11	-0.87	0.00	-71.42	0.00	71.42	2,679.61	673.42	2,353.20	2,132.56	0.03	-0.03	0.045
15.00	-31.08	-0.87	0.00	-67.07	0.00	67.07	2,608.76	647.31	2,174.28	1,995.03	0.06	-0.04	0.046
20.00	-30.08	-0.88	0.00	-62.71	0.00	62.71	2,535.24	621.20	2,002.44	1,859.96	0.11	-0.05	0.046
25.00	-29.12	-0.88	0.00	-58.32	0.00	58.32	2,459.06	595.09	1,837.67	1,727.58	0.17	-0.07	0.046
30.00	-28.19	-0.88	0.00	-53.91	0.00	53.91	2,380.22	568.98	1,679.97	1,598.16	0.25	-0.08	0.046
35.00	-27.29	-0.88	0.00	-49.49	0.00	49.49	2,298.17	542.87	1,529.34	1,471.58	0.35	-0.10	0.046
40.00	-26.40	-0.88	0.00	-45.07	0.00	45.07	2,187.63	516.76	1,385.79	1,332.77	0.46	-0.12	0.046
43.88	-25.99	-0.88	0.00	-41.65	0.00	41.65	2,101.97	496.53	1,279.40	1,229.91	0.57	-0.13	0.046
45.00	-24.80	-0.87	0.00	-40.66	0.00	40.66	2,077.10	490.65	1,249.31	1,200.82	0.60	-0.14	0.027
48.33	-24.07	-0.86	0.00	-37.76	0.00	37.76	2,003.41	473.25	1,162.26	1,116.68	0.70	-0.15	0.027
50.00	-22.99	-0.85	0.00	-36.32	0.00	36.32	1,966.57	464.54	1,119.91	1,075.76	0.75	-0.15	0.026
52.50	-22.19	-0.84	0.00	-34.20	0.00	34.20	1,292.92	322.51	771.05	703.85	0.83	-0.16	0.032
55.00	-20.62	-0.81	0.00	-32.11	0.00	32.11	1,267.71	313.38	727.98	670.42	0.91	-0.16	0.031
60.00	-19.99	-0.80	0.00	-28.05	0.00	28.05	1,215.29	295.10	645.55	604.90	1.09	-0.17	0.029
62.00	-19.06	-0.79	0.00	-26.44	0.00	26.44	1,193.58	287.79	613.97	579.24	1.16	-0.18	0.028
62.00	-19.06	-0.79	0.00	-26.44	0.00	26.44	1,193.58	287.79	613.97	579.24	1.16	-0.18	0.028
65.00	-17.53	-0.75	0.00	-24.08	0.00	24.08	1,160.21	276.82	568.07	541.39	1.28	-0.19	0.027
70.00	-16.01	-0.71	0.00	-20.32	0.00	20.32	1,094.51	258.55	495.55	476.69	1.48	-0.20	0.024
75.00	-15.42	-0.70	0.00	-16.75	0.00	16.75	1,017.13	240.27	427.97	411.36	1.70	-0.22	0.023
77.00	-12.80	-0.62	0.00	-15.35	0.00	15.35	986.19	232.96	402.33	386.57	1.79	-0.22	0.021
80.00	-12.24	-0.60	0.00	-13.49	0.00	13.49	939.76	221.99	365.35	350.84	1.94	-0.23	0.020
82.00	-11.42	-0.57	0.00	-12.29	0.00	12.29	908.81	214.68	341.68	327.98	2.03	-0.23	0.019
82.00	-11.42	-0.57	0.00	-12.29	0.00	12.29	780.36	184.34	293.89	282.62	2.03	-0.23	0.000
85.00	-10.06	-0.52	0.00	-10.57	0.00	10.57	740.57	174.94	264.69	254.39	2.18	-0.24	0.018
90.00	-10.03	-0.52	0.00	-7.94	0.00	7.94	674.25	159.27	219.41	210.64	2.44	-0.25	0.016
90.13	-9.44	-0.50	0.00	-7.88	0.00	7.88	672.59	158.88	218.34	209.60	2.45	-0.25	0.016
90.13	-9.44	-0.50	0.00	-7.88	0.00	7.88	672.59	158.88	218.34	209.60	2.45	-0.25	0.052
95.00	-9.30	-0.50	0.00	-5.44	0.00	5.44	607.93	143.61	178.38	171.01	2.71	-0.26	0.047
97.00	-4.24	-0.26	0.00	-4.45	0.00	4.45	581.40	137.34	163.16	156.32	2.83	-0.28	0.036
99.00	-4.16	-0.26	0.00	-3.92	0.00	3.92	554.88	131.07	148.61	142.28	2.95	-0.29	0.035
99.00	-4.16	-0.26	0.00	-3.92	0.00	3.92	725.83	171.46	190.75	181.64	2.95	-0.29	0.027
100.00	-3.78	-0.24	0.00	-3.66	0.00	3.66	725.83	171.46	190.75	181.64	3.01	-0.30	0.025
105.00	-3.40	-0.22	0.00	-2.46	0.00	2.46	725.83	171.46	190.75	181.64	3.34	-0.32	0.018
110.00	-3.01	-0.20	0.00	-1.36	0.00	1.36	725.83	171.46	190.75	181.64	3.68	-0.34	0.012
115.00	-2.86	-0.19	0.00	-0.37	0.00	0.37	725.83	171.46	190.75	181.64	4.04	-0.34	0.006
117.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	171.46	190.75	181.64	4.18	-0.34	0.000
119.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	171.46	190.75	181.64	4.33	-0.34	0.000

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-23.56	-0.85	0.00	-78.49	0.00	78.49	2,813.31	725.65	2,732.26	2,413.98	0.00	0.00	0.041
5.00	-22.81	-0.86	0.00	-74.22	0.00	74.22	2,747.79	699.53	2,539.19	2,272.29	0.01	-0.01	0.041
10.00	-22.09	-0.86	0.00	-69.92	0.00	69.92	2,679.61	673.42	2,353.20	2,132.56	0.03	-0.02	0.041
15.00	-21.38	-0.87	0.00	-65.61	0.00	65.61	2,608.76	647.31	2,174.28	1,995.03	0.06	-0.04	0.041
20.00	-20.69	-0.87	0.00	-61.28	0.00	61.28	2,535.24	621.20	2,002.44	1,859.96	0.11	-0.05	0.041
25.00	-20.03	-0.87	0.00	-56.94	0.00	56.94	2,459.06	595.09	1,837.67	1,727.58	0.17	-0.07	0.041
30.00	-19.39	-0.87	0.00	-52.60	0.00	52.60	2,380.22	568.98	1,679.97	1,598.16	0.25	-0.08	0.041
35.00	-18.77	-0.87	0.00	-48.25	0.00	48.25	2,298.17	542.87	1,529.34	1,471.58	0.34	-0.10	0.041
40.00	-18.16	-0.86	0.00	-43.92	0.00	43.92	2,187.63	516.76	1,385.79	1,332.77	0.45	-0.12	0.041
43.88	-17.88	-0.86	0.00	-40.57	0.00	40.57	2,101.97	496.53	1,279.40	1,229.91	0.55	-0.13	0.041
45.00	-17.06	-0.85	0.00	-39.60	0.00	39.60	2,077.10	490.65	1,249.31	1,200.82	0.58	-0.13	0.024
48.33	-16.56	-0.84	0.00	-36.77	0.00	36.77	2,003.41	473.25	1,162.26	1,116.68	0.68	-0.14	0.024
50.00	-15.81	-0.83	0.00	-35.36	0.00	35.36	1,966.57	464.54	1,119.91	1,075.76	0.73	-0.15	0.023
52.50	-15.27	-0.82	0.00	-33.29	0.00	33.29	1,292.92	322.51	771.05	703.85	0.81	-0.15	0.029
55.00	-14.18	-0.79	0.00	-31.25	0.00	31.25	1,267.71	313.38	727.98	670.42	0.89	-0.16	0.028
60.00	-13.75	-0.78	0.00	-27.29	0.00	27.29	1,215.29	295.10	645.55	604.90	1.06	-0.17	0.026
62.00	-13.11	-0.77	0.00	-25.72	0.00	25.72	1,193.58	287.79	613.97	579.24	1.14	-0.18	0.025
62.00	-13.11	-0.77	0.00	-25.72	0.00	25.72	1,193.58	287.79	613.97	579.24	1.14	-0.18	0.025
65.00	-12.06	-0.73	0.00	-23.43	0.00	23.43	1,160.21	276.82	568.07	541.39	1.25	-0.18	0.024
70.00	-11.02	-0.70	0.00	-19.76	0.00	19.76	1,094.51	258.55	495.55	476.69	1.45	-0.20	0.022
75.00	-10.60	-0.68	0.00	-16.29	0.00	16.29	1,017.13	240.27	427.97	411.36	1.66	-0.21	0.020
77.00	-8.80	-0.60	0.00	-14.93	0.00	14.93	986.19	232.96	402.33	386.57	1.75	-0.22	0.019
80.00	-8.42	-0.59	0.00	-13.12	0.00	13.12	939.76	221.99	365.35	350.84	1.89	-0.22	0.018
82.00	-7.85	-0.56	0.00	-11.94	0.00	11.94	908.81	214.68	341.68	327.98	1.98	-0.23	0.017
82.00	-7.85	-0.56	0.00	-11.94	0.00	11.94	780.36	184.34	293.89	282.62	1.98	-0.23	0.000
85.00	-6.92	-0.51	0.00	-10.27	0.00	10.27	740.57	174.94	264.69	254.39	2.13	-0.24	0.016
90.00	-6.90	-0.51	0.00	-7.72	0.00	7.72	674.25	159.27	219.41	210.64	2.38	-0.25	0.014
90.13	-6.50	-0.49	0.00	-7.65	0.00	7.65	672.59	158.88	218.34	209.60	2.39	-0.25	0.014
90.13	-6.50	-0.49	0.00	-7.65	0.00	7.65	672.59	158.88	218.34	209.60	2.39	-0.25	0.046
95.00	-6.39	-0.48	0.00	-5.28	0.00	5.28	607.93	143.61	178.38	171.01	2.65	-0.26	0.041
97.00	-2.92	-0.26	0.00	-4.32	0.00	4.32	581.40	137.34	163.16	156.32	2.76	-0.27	0.033
99.00	-2.86	-0.25	0.00	-3.81	0.00	3.81	554.88	131.07	148.61	142.28	2.88	-0.28	0.032
99.00	-2.86	-0.25	0.00	-3.81	0.00	3.81	725.83	171.46	190.75	181.64	2.88	-0.28	0.025
100.00	-2.60	-0.23	0.00	-3.56	0.00	3.56	725.83	171.46	190.75	181.64	2.94	-0.29	0.023
105.00	-2.34	-0.21	0.00	-2.39	0.00	2.39	725.83	171.46	190.75	181.64	3.26	-0.31	0.016
110.00	-2.07	-0.19	0.00	-1.32	0.00	1.32	725.83	171.46	190.75	181.64	3.59	-0.33	0.010
115.00	-1.97	-0.18	0.00	-0.36	0.00	0.36	725.83	171.46	190.75	181.64	3.94	-0.34	0.005
117.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	171.46	190.75	181.64	4.08	-0.34	0.000
119.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	171.46	190.75	181.64	4.22	-0.34	0.000

Analysis Summary

	Reactions						Max Usage	
Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	13.48	0.00	34.10	0.00	0.00	1146.37	90.13	0.60
0.9D + 1.0W	13.46	0.00	25.57	0.00	0.00	1128.45	90.13	0.58
1.2D + 1.0Di + 1.0Wi	3.55	0.00	43.27	0.00	0.00	296.53	90.13	0.17
1.2D + 1.0Ev + 1.0Eh	0.86	0.00	34.25	0.00	0.00	80.00	90.13	0.05
0.9D - 1.0Ev + 1.0Eh	0.85	0.00	23.56	0.00	0.00	78.49	90.13	0.05
1.0D + 1.0W	3.09	0.00	28.43	0.00	0.00	261.05	90.13	0.15

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Ratio	Max Member Pu (kip)	phiPn (kip)	Ratio
43.88	62.00	(3) PL-PL 6" x 1"	315.7	7.6	25.3	0.300	145.4	300.9	0.483
62.00	82.00	(3) PL-PL 6" x 1"	383.1	9.2	25.3	0.364	136.6	300.9	0.454
82.00	90.13	(3) PL-PL 6" x 1"	400.0	9.6	25.3	0.380	97.6	300.9	0.324

Elev From (ft)	Elev To (ft)	Member	Upper Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio	Lower Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio
43.88	62.00	(3) PL-PL 6" x 1"	0.0	25.3	0	0	0.000	128.4	25.3	6	8	0.635
62.00	82.00	(3) PL-PL 6" x 1"	0.0	25.3	0	0	0.000	0.0	25.3	0	0	0.000
82.00	90.13	(3) PL-PL 6" x 1"	80.5	25.3	4	8	0.398	0.0	25.3	0	0	0.000

Base Plate & Anchor Rod Analysis

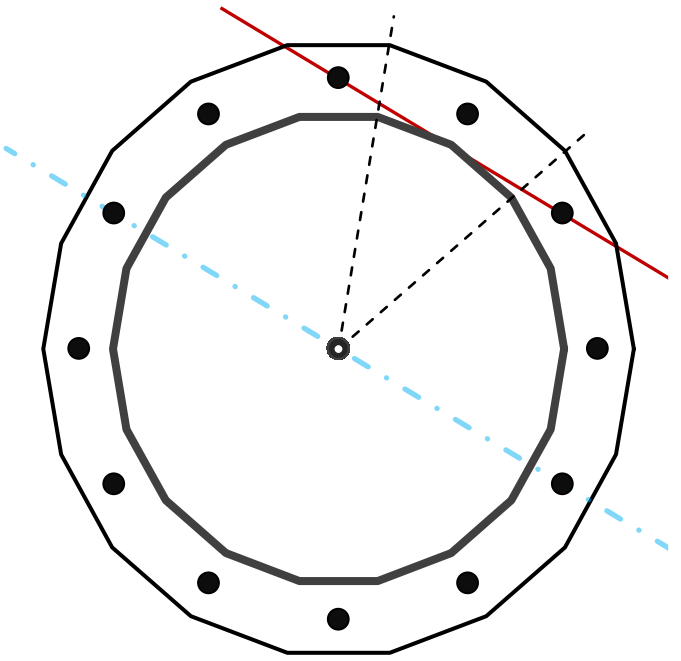
Pole Dimensions		
Number of Sides	18	-
Diameter	42	in
Thickness	5/16	in
Orientation Offset		°

Base Reactions		
Moment, Mu	1,146.4	k-ft
Axial, Pu	34.1	k
Shear, Vu	13.5	k
Neutral Axis	330	°

Report Capacities		
Component	Capacity	Result
Base Plate	26%	Pass
Anchor Rods	42%	Pass
Dwyidag	-	-

Base Plate		
Number of Sides	18	-
Diameter, ø	55.15	in
Thickness	2	in
Grade	A572-50	
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Clip	N/A	in
Orientation Offset		°
Anchor Rod Detail	d	η=0.5
Clear Distance	3 1/2	in
Applied Moment, Mu	234.3	k
Bending Stress, ϕMn	901.1	k

Original Anchor Rods		
Arrangement	Radial	-
Quantity	12	-
Diameter, ø	2 1/4	in
Bolt Circle	49.15	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	12.9	in
Orientation Offset		°
Applied Force, Pu	100.8	k
Anchor Rods, ϕPn	243.6	k



Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	13.5	1146.4	1.00
Anchor Rod Forces	13.5	1146.4	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in^2	in^2	in^4	#	in^4
Pole	40.7191	2.2622	0.0739		8846.79
Bolt	3.9761	3.2477	0.8393	4.5	10668.51
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	18	-
Width, W	55.15	in
Thickness, t	2	in
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Base Plate Chord	35.742	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3.5	-

Anchor Rods		
Anchor Rod Quantity, N	12	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	49.15	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	100.8	k
Applied Shear, Vu	0.9	k
Compressive Capacity, ϕPn	243.6	k
Tensile Capacity, ϕRnt	0.414	OK
Interaction Capacity	0.421	OK

External Base Plate		
Chord Length AA	35.869	in
Additional AA	4.000	in
Section Modulus, Z	39.869	in^3
Applied Moment, Mu	234.3	k-ft
Bending Capacity, ϕMn	1794.1	k-ft
Capacity, Mu/ϕMn	0.131	OK
Chord Length AB	35.219	in
Additional AB	4.000	in
Section Modulus, Z	39.219	in^3
Applied Moment, Mu	201.6	k-ft
Bending Capacity, ϕMn	1764.9	k-ft
Capacity, Mu/ϕMn	0.114	OK
Bend Line Length	20.024	in
Additional Bend Line	0.000	in
Section Modulus, Z	20.024	in^3
Applied Moment, Mu	234.3	k-ft
Bending Capacity, ϕMn	901.1	k-ft
Capacity, Mu/ϕMn	0.260	OK

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

Code Rev.	H	Date	3/29/2021
		Engineer	Lucas.Tait
		Site #	283420
Moment	183.6 k-ft	Carrier	T-MOBILE
Axial	11.4 k		

Base/Flange Plate	Plate Type	*Flange*	*@ 82.0 ft*
	Pole Diameter	17.8375	in
	Pole Thickness	0.1875	in
	Plate Diameter	24.2	in
	Plate Thickness	1.5	in
	Plate Fy	50	ksi
	Weld Length	0.1875	in
	ϕ_s Resistance	6527.34	k-in
	Applied	-12.79	k-in
Stiffeners	#	*6*	*Show*
	Thickness	1	in
	Length	8	in
	Height	12	in
	Chamfer	0	in
	Offset Angle	30	°
	Fy	65	ksi

Bolts	#	*3*	
	Bolt Circle	21.7	in
	(R)adial / (S)quare	R	
	Diameter	1	in
	Hole Diameter	1.125	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	ϕ_s Resistance	54.52	k
	Applied	3.79	k
Bypass	#	*6*	
	DYW. Circle	28.25	in
	Offset Angle		°
	Type	Other	
	Diameter	2.2567	in
	Fu	50	ksi
	ϕ_s Resistance	159.99	k
	Applied	41.67	k
Flat Plate O	#	*3*	
	Bolt Circle	19	in
	(R)adial / (S)quare	R	
	Offset Angle		°
	Diameter	2.76395	in
	Type	Other	
	Fy	50	ksi
	Fu	65	ksi
	ϕ_s Resistance	243.22	k
	Applied	23.80	k

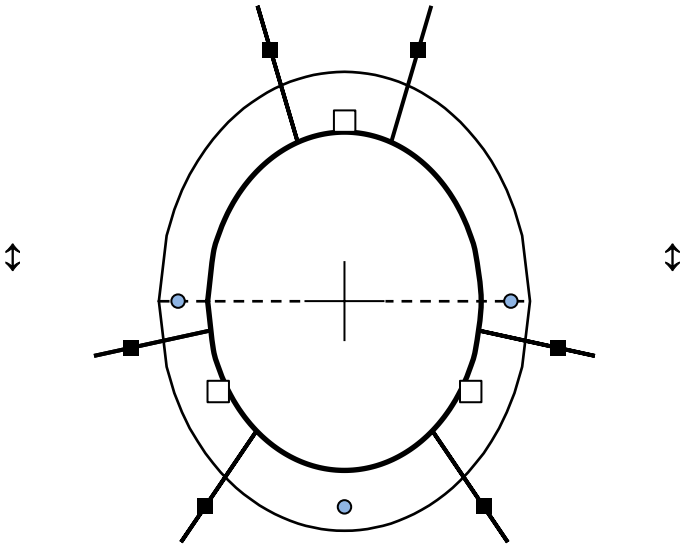


Plate Stress Ratio:
0.00 (Pass)

Bolt Stress Ratio:
0.07 (Pass)

Flat Plate Stress Ratio:
0.10 (Pass)

Bypass Stress Ratio:
0.26 (Pass)

Flange Plate Analysis

Flange Plate

Plate Type	***Flange***	***@ 99 ft***
Pole Diameter	12.5625	in
Pole Thickness	0.25	in
Plate Diameter	18	in
Plate Thickness	1 1/4	in
Plate Fy	50	ksi
Weld Length	1/4	in
f_s Resistance	74.21	k-in
Applied	16.18	k-in

Code Rev.	***H***
Moment	65.0 k-ft
Axial	3.8 k

Required Flange Thickness:
0.58 in OK

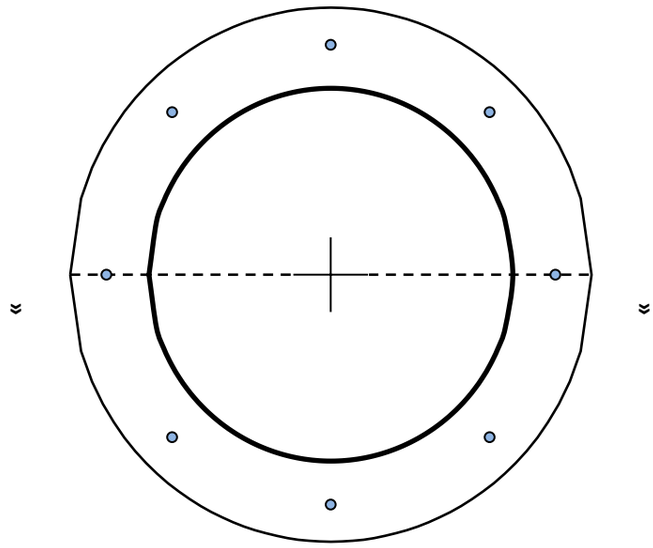
Date	3/29/2021
Engineer	Lucas.Tait
Site #	283420
Carrier	T-MOBILE

Stiffeners

#	

Bolts

#	***8***	
Bolt Circle	15.5	in
(R)adial / (S)quare	R	
Diameter	1	in
Hole Diameter	1 1/8	in
Type	A325	
Fy	92	ksi
Fu	120	ksi
f_s Resistance	54.52	k
Applied	24.65	k



Reinforcement

#	

Plate Stress Ratio:
22% Pass

Bolt Stress Ratio:
45% Pass

Extra Bolts O

#	

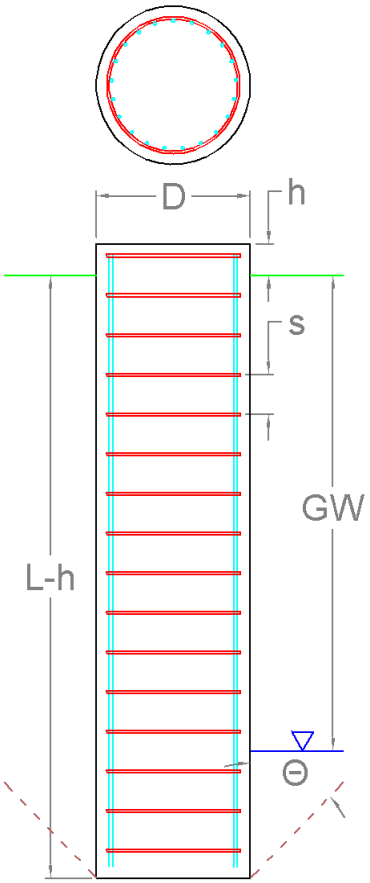
Pier Foundation Analysis (ANSI/TIA-222-H)

Foundation Analysis Parameters			
Pier Diameter	*D*	6.50	ft
Pier Embedment	*L-h*	31.0	ft
Pier Height above Ground	*H*	0.50	ft
Water Table Depth [BGL]	*GW*	7	ft
Pullout Angle	Θ	30	°
Unit Weight of Concrete		150	pcf
Uplift Skin Friction Factor		0.860	

Reactions		
Moment, M_u	1,146.4	k-ft
Shear, V_u	13.5	k
Axial, P_u	34.1	k
Uplift, T_u	0.0	k

Soil Properties

Layer Depth (ft)		Unit Weight	Cohesion	Friction Angle	Ultimate Skin Friction	Ultimate Bearing Pressure
TOP	BTM	pcf	psf	°	psf	psf
0.0	4.0	105	0	0	0	0
4.0	7.0	123	0	32	691	0
7.0	10.0	127	0	37	1,051	0
10.0	15.0	122	0	34	1,258	0
15.0	20.0	121	0	33	1,420	0
20.0	25.0	118	0	32	1,544	0
25.0	30.0	114	0	30	1,149	0
30.0	35.0	127	0	34	1,706	44,220



Soil Strength Capacities		
Volume of Concrete	1,045.3	ft^3
Weight of Concrete [Buoyancy Considered]	107.1	k
Average Soil Unit Weight	70.1	pcf
Skin Friction Resistance	689.9	k
Compressive Bearing Resistance	1,467.4	k
Pullout Weight [Minus Concrete Weight]	1,126.8	k
Compressive Force, P_u	73.0	k
Nominal Compressive Capacity, $\phi_s P_n$	1,618.0	k
P_u / $\phi_s P_n$	**4.5%**	
Total Lateral Resistance	2,110.2	k
Inflection Point [BGL]	20.3	ft
Moment at Inflection Point, M_D	1,427.2	k-ft
Nominal Moment Capacity, $\phi_s M_n$	10,024.0	k-ft
M_D / $\phi_s M_n$	**14.2%**	

Pier Strength Capacities			
Concrete Compressive Strength, f'_c		4,000	psi
Rebar Size #		9	
Rebar Area (Single)		1.00	in^2
Rebar Quantity		24	
Rebar Yield Strength, F_y		60	ksi
Vertical Rebar Clear Cover		3	in
Tie Rebar Size #		4	
Tie Rebar Area (Single)		0.20	in^2
Tie Rebar Spacing	*s*	12.0	in
Tie Rebar Yield Strength, F_y		60	ksi
Rebar Cage Diameter		69.87	in
Strength Bending/Tension Reduction Factor, ϕ_B		0.90	
Strength Shear Reduction Factor, ϕ_V		0.75	
Strength Compression Reduction Factor, ϕ_C		0.65	
Steel Elastic Modulus		29,000	ksi
Design Moment, M_u		1,153.6	k-ft
Moment Capacity, $\phi_B M_n$		3,695.1	k-ft
$M_u / \phi_B M_n$		**31.2%**	
Design Shear, V_u		90.8	k
Shear Capacity, $\phi_V V_n$		548.5	k
$V_u / \phi_V V_n$		**16.6%**	
Design Compression, P_u		73.0	k
Compression Capacity, $\phi_P P_n$		9,154.5	k
$P_u / \phi_P P_n$		**0.8%**	
Bending Reinforcement Ratio		0.005	

RAN Template:	A&L Template:
67D5A997DB Outdoor	67D5997DB_2xAIR+1OP

CTFF310D_Anchor_6_draft

Print Name: Preliminary (RFDS_for_Scoping)
PORs: Anchor_Phase 3

Section 1 - Site Information

Site ID: CTFF310D
Status: Draft
Version: 6
Project Type: Anchor
Approved: Not Approved
Approved By: Not Approved
Last Modified: 1/19/2021 6:35:56 PM
Last Modified By: Dominic.Kallas2@T-Mobile.com

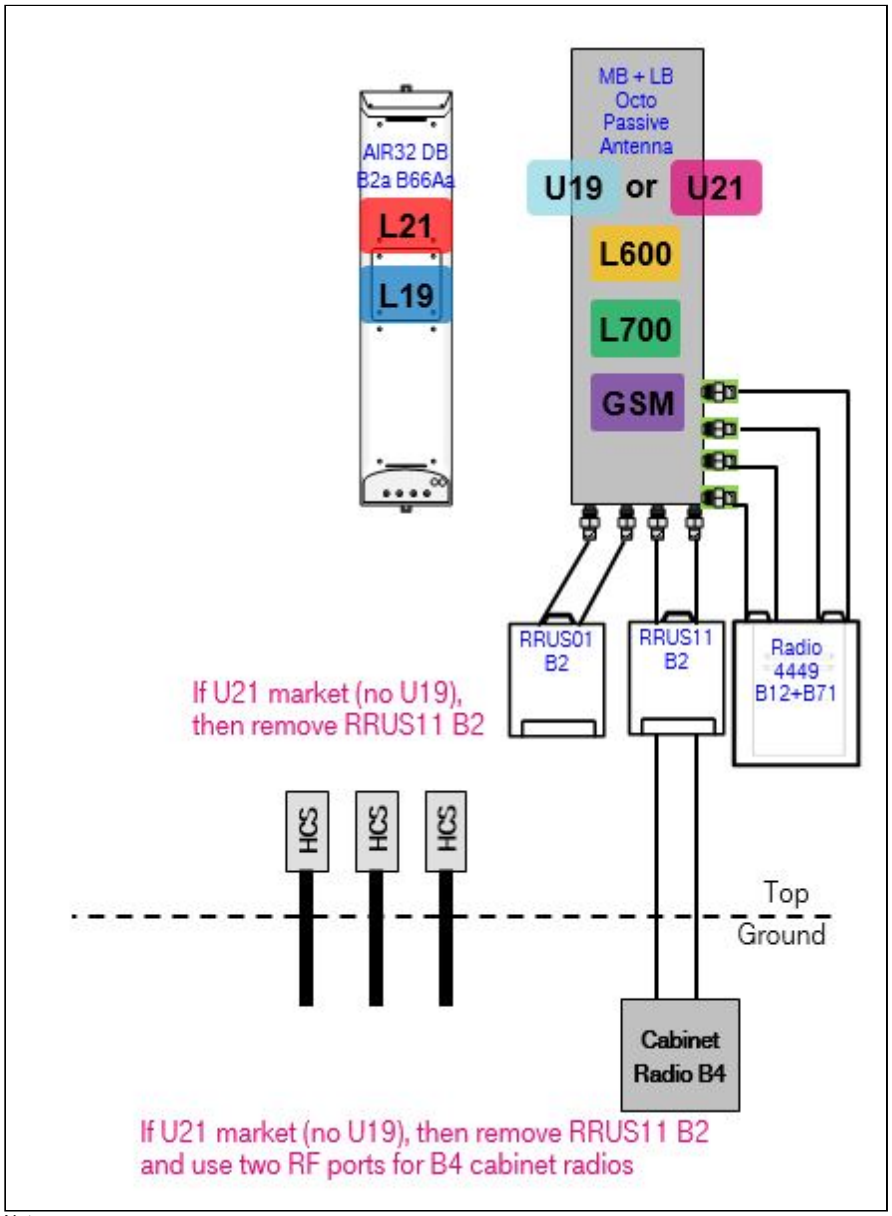
Site Name: 23 Stonybrook Rd
Site Class: Monopole
Site Type: Structure Non Building
Plan Year: 2020
Market: CONNECTICUT CT
Vendor: Ericsson
Landlord: Florida Tower Partners

Latitude: 41.20305556
Longitude: -73.14833330
Address: 23 Stonybrook Rd
City, State: Stratford, CT
Region: NORTHEAST

RAN Template: 67D5A997DB Outdoor			AL Template: 67D5997DB_2xAIR+1OP	
Sector Count: 3	**Antenna Count:** 9	**Coax Line Count:** 0	**TMA Count:** 0	**RRU Count:** 6

Section 2 - Existing Template Images

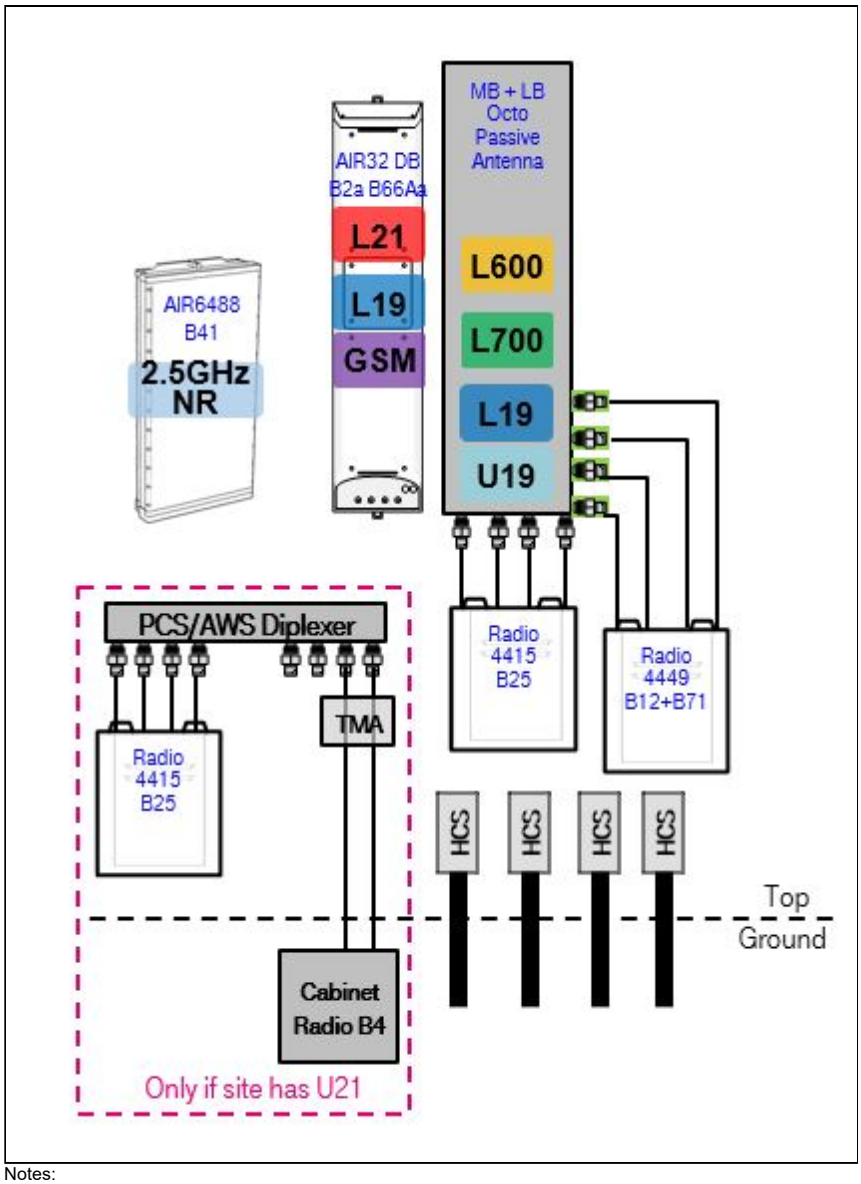
67D93DB_1xAIR+1OP (U19 Market).JPG



Notes:

Section 3 - Proposed Template Images

67D5997DB_2xAIR+1OP.JPG



Notes:

Section 4 - Siteplan Images

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RAN Template:	A&L Template:
67D5A997DB Outdoor	67D5997DB_2xAIR+1OP

CTFF310D_Anchor_6_draft

Print Name: Preliminary (RFDS_for_Scoping)
PORs: Anchor_Phase 3

Section 5 - RAN Equipment

Existing RAN Equipment

Template: 67D93DB Outdoor

Enclosure	1	2
Enclosure Type	RBS 6131	Ancillary Equipment (Ericsson)
Baseband	DUW30 (U2100); DUG20 (G1900); BB 6630 (L2100, L1900); BB 6630 (L700, L600, N600)	
Hybrid Cable System		Ericsson 6x12 HCS 6AWG 40m
Radio	RU22 **(x 6)** (U2100)	

Proposed RAN Equipment

Template: 67D5A997DB Outdoor

Enclosure	1	2	3
Enclosure Type	RBS 6131	Enclosure 6160	B160
Baseband	DUW30; DUG20 (G1900); BB 6630 (L2100, L1900); BB 6630 (L700, L600, N600)	BB 6630 (L2500); BB 6648 (N2500)	
Hybrid Cable System	Ericsson 6x12 HCS 6AWG 40m; Ericsson Hybrid Trunk 6/24 4AWG 40m	Ericsson Hybrid Trunk 6/24 4AWG 40m; PSU 4813	
Radio	RU22 **(x 6)**		
Transport System		CSR IXRe V2 (Gen2)	

RAN Scope of Work:

U2100 will be decommissioned. Cabinet radios will become unused.

Remove Nortel Cabinet.

Add (1) Enclosure 6160.

Add (1) Battery Cabinet B160.

Add (1) iXRe Router to new Enclosure 6160.

Add (1) BB6630 for L2500 to new Enclosure 6160.

Add (1) BB6648 for N2500 to new Enclosure 6160.

Add (1) PSU4813 Voltage Booster to new Enclosure 6160.

Existing: (6) Coaxial Lines; (3) 6X12 HCS.

Replace the (1) 6X12 HCS for the AIR32 DB (currently at 87' Rad center) with (1) new 6X24 HCS terminating at the RBS6131. Length may be different from existing 6X12 HCS due to the new Rad Center for the AIR32 Dual Band.

Add (1) 6X24 HCS terminating at the Enclosure 6160. Connect DC for the AIR6449 B41 to the PSU4813 Voltage Booster.

RAN Template:	A&L Template:
67D5A997DB Outdoor	67D5997DB_2xAIR+1OP

CTFF310D_Anchor_6_draft

Print Name: Preliminary (RFDS_for_Scoping)
PORs: Anchor_Phase 3

Section 6 - A&L Equipment

Existing Template: 67D93DB_1xAIR+1OP (U21 Market)
Proposed Template: 67D5997DB_2xAIR+1OP

Sector 1 (Existing) view from behind

Coverage Type	A - Outdoor Macro							
Antenna	1				2			
Antenna Model	Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo)				RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	30				30			
M. Tilt								
Height	87				97			
Ports	P1	P2	P3	P4	P5	P6	P7	P8
Active Tech.	L2100	L2100	L1900	L1900	L700 L600 N600	L700 L600 N600	G1900	U2100
Dark Tech.								
Restricted Tech.								
Decomm. Tech.								
E. Tilt								
Cables	Fiber Jumper		Fiber Jumper		JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	Coax Jumper **(x2)** Fiber Jumper	1-5/8" Coax - 120 ft. **(x2)**
TMAs								Generic Twin Style 1B - AWS (AtAntenna)
Diplexers / Combiners								
Radio					Radio 4449 B71+B85 (At Antenna)		RRUS01 B2 (At Antenna)	
Sector Equipment								

Unconnected Equipment:

Scope of Work:

RAN Template:	A&L Template:
67D5A997DB Outdoor	67D5997DB_2xAIR+1OP

CTFF310D_Anchor_6_draft

Print Name: Preliminary (RFDS_for_Scoping)
PORs: Anchor_Phase 3

Sector 1 (Proposed) view from behind										
Coverage Type	A - Outdoor Macro									
Antenna	1				2				3	
Antenna Model	Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo)				RFS - APXVAARR24_43-U-NA20 (Octo)				Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)	
Azimuth	30				30				30	
M. Tilt	0				0				0	
Height	97				97				97	
Ports	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Active Tech.	L2100	L2100	L1900 G1900	L1900	L700 L600 N600	L700 L600 N600	L1900	L1900	L2500 N2500	L2500 N2500
Dark Tech.										
Restricted Tech.										
Decomm. Tech.										
E. Tilt										
Cables	Fiber Jumper	Fiber Jumper	Fiber Jumper	Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	Fiber Jumper **(x2)**	Fiber Jumper **(x2)**
TMAs										
Diplexers / Combiners										
Radio					Radio 4449 B71+B85 (At Antenna)	SHARED Radio 4449 B71+B85 (At Antenna)	Radio 4415 B25 (At Antenna)	SHARED Radio 4415 B25 (At Antenna)		
Sector Equipment										

Unconnected Equipment:

Scope of Work:

New Platform with three mounts per sector at 97' Rad Center.

Move (1) AIR32 Dual Band to new Position 1. Rad Center of AIR32 Dual Band antenna will change from 87' to 97'.

Remove RRUS01 B2 from Position 2. Move GSM to AIR32 Dual Band antenna in Position 1. GSM will share B2 radios with L1900 1st Carrier.

Remove AWS TMA from Position 2.

Remove all Coaxial Lines.

Place Low-Band/Mid-Band Octo and Radio 4449 B71+B85 in Position 2.

Add (1) Radio 4415 B25 for L1900 2nd Carrier to Position 2 at antenna, and connect its ports to the Mid-Band ports of the Octo Antenna.

Position 3 will be new.

Install (1) AIR6449 B41 for L2500 and N2500 in Position 3.

Ensure RET control is enabled for all technology layers according to the Design Documents.

*A dashed border indicates shared equipment. Any connected equipment is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5A997DB Outdoor	67D5997DB_2xAIR+1OP

CTFF310D_Anchor_6_draft

Print Name: Preliminary (RFDS_for_Scoping)
PORs: Anchor_Phase 3

Sector 2 (Existing) view from behind

Coverage Type	A - Outdoor Macro							
Antenna	1				2			
Antenna Model	Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo)				RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	150				150			
M. Tilt								
Height	87				97			
Ports	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**
Active Tech.	L2100	L2100	L1900	L1900	L700 L600 N600	L700 L600 N600	G1900	U2100
Dark Tech.								
Restricted Tech.								
Decomm. Tech.								
E. Tilt								
Cables	Fiber Jumper		Fiber Jumper		JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	Coax Jumper **(x2)** Fiber Jumper	1-5/8" Coax - 120 ft. **(x2)**
TMAs								Generic Twin Style 1B - AWS (AtAntenna)
Diplexers / Combiners								
Radio					Radio 4449 B71+B85 (At Antenna)		RRUS01 B2 (At Antenna)	
Sector Equipment								

Unconnected Equipment:

Scope of Work:

RAN Template:	A&L Template:
67D5A997DB Outdoor	67D5997DB_2xAIR+1OP

CTFF310D_Anchor_6_draft

Print Name: Preliminary (RFDS_for_Scoping)
PORs: Anchor_Phase 3

Sector 2 (Proposed) view from behind

Coverage Type	A - Outdoor Macro									
Antenna	1				2				3	
Antenna Model	Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo)				RFS - APXVAARR24_43-U-NA20 (Octo)				Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)	
Azimuth	150				150				150	
M. Tilt	0				0				0	
Height	97				97				97	
Ports	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**	**P10**
Active Tech.	L2100	L2100	L1900 G1900	L1900	L700 L600 N600	L700 L600 N600	L1900	L1900	L2500 N2500	L2500 N2500
Dark Tech.										
Restricted Tech.										
Decomm. Tech.										
E. Tilt										
Cables	Fiber Jumper	Fiber Jumper	Fiber Jumper	Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	Fiber Jumper **(x2)**	Fiber Jumper **(x2)**
TMAs										
Diplexers / Combiners										
Radio					Radio 4449 B71+B85 (At Antenna)	SHARED Radio 4449 B71+B85 (At Antenna)	Radio 4415 B25 (At Antenna)	SHARED Radio 4415 B25 (At Antenna)		
Sector Equipment										

Unconnected Equipment:

Scope of Work:

New Platform with three mounts per sector at 97' Rad Center.

Move (1) AIR32 Dual Band to new Position 1. Rad Center of AIR32 Dual Band antenna will change from 87' to 97'.

Remove RRUS01 B2 from Position 2. Move GSM to AIR32 Dual Band antenna in Position 1. GSM will share B2 radios with L1900 1st Carrier.

Remove AWS TMA from Position 2.

Remove all Coaxial Lines.

Place Low-Band/Mid-Band Octo and Radio 4449 B71+B85 in Position 2.

Add (1) Radio 4415 B25 for L1900 2nd Carrier to Position 2 at antenna, and connect its ports to the Mid-Band ports of the Octo Antenna.

Position 3 will be new.

Install (1) AIR6449 B41 for L2500 and N2500 in Position 3.

Ensure RET control is enabled for all technology layers according to the Design Documents.

*A dashed border indicates shared equipment. Any connected equipment is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5A997DB Outdoor	67D5997DB_2xAIR+1OP

CTFF310D_Anchor_6_draft

Print Name: Preliminary (RFDS_for_Scoping)
PORs: Anchor_Phase 3

Sector 3 (Existing) view from behind

Coverage Type	A - Outdoor Macro							
Antenna	1				2			
Antenna Model	Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo)				RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	270				270			
M. Tilt								
Height	87				97			
Ports	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**
Active Tech.	L2100	L2100	L1900	L1900	L700 L600 N600	L700 L600 N600	G1900	U2100
Dark Tech.								
Restricted Tech.								
Decomm. Tech.								
E. Tilt								
Cables	Fiber Jumper		Fiber Jumper		JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	Coax Jumper **(x2)** Fiber Jumper	1-5/8" Coax - 120 ft. **(x2)**
TMAs								Generic Twin Style 1B - AWS (AtAntenna)
Diplexers / Combiners								
Radio					Radio 4449 B71+B85 (At Antenna)		RRUS01 B2 (At Antenna)	
Sector Equipment								

Unconnected Equipment:

Scope of Work:

RAN Template:	A&L Template:
67D5A997DB Outdoor	67D5997DB_2xAIR+1OP

CTFF310D_Anchor_6_draft

Print Name: Preliminary (RFDS_for_Scoping)
PORs: Anchor_Phase 3

Sector 3 (Proposed) view from behind										
Coverage Type	A - Outdoor Macro									
Antenna	1				2				3	
Antenna Model	Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo)				RFS - APXVAARR24_43-U-NA20 (Octo)				Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)	
Azimuth	270				270				270	
M. Tilt	0				0				0	
Height	97				97				97	
Ports	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Active Tech.	L2100	L2100	L1900 G1900	L1900	L700 L600 N600	L700 L600 N600	L1900	L1900	L2500 N2500	L2500 N2500
Dark Tech.										
Restricted Tech.										
Decomm. Tech.										
E. Tilt										
Cables	Fiber Jumper	Fiber Jumper	Fiber Jumper	Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)** Fiber Jumper	Fiber Jumper **(x2)**	Fiber Jumper **(x2)**
TMAs										
Diplexers / Combiners										
Radio					Radio 4449 B71+B85 (At Antenna)	SHARED Radio 4449 B71+B85 (At Antenna)	Radio 4415 B25 (At Antenna)	SHARED Radio 4415 B25 (At Antenna)		
Sector Equipment										

Unconnected Equipment:

Scope of Work:

New Platform with three mounts per sector at 97' Rad Center.

Move (1) AIR32 Dual Band to new Position 1. Rad Center of AIR32 Dual Band antenna will change from 87' to 97'.

Remove RRUS01 B2 from Position 2. Move GSM to AIR32 Dual Band antenna in Position 1. GSM will share B2 radios with L1900 1st Carrier.

Remove AWS TMA from Position 2.

Remove all Coaxial Lines.

Place Low-Band/Mid-Band Octo and Radio 4449 B71+B85 in Position 2.

Add (1) Radio 4415 B25 for L1900 2nd Carrier to Position 2 at antenna, and connect its ports to the Mid-Band ports of the Octo Antenna.

Position 3 will be new.

Install (1) AIR6449 B41 for L2500 and N2500 in Position 3.

Ensure RET control is enabled for all technology layers according to the Design Documents.

*A dashed border indicates shared equipment. Any connected equipment is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5A997DB Outdoor	67D5997DB_2xAIR+1OP

CTFF310D_Anchor_6_draft

Print Name: Preliminary (RFDS_for_Scoping)
PORs: Anchor_Phase 3

Section 7 - Power Systems Equipment

Existing Power Systems Equipment

----- This section is intentionally blank. -----

Proposed Power Systems Equipment

EBI Consulting

environmental | engineering | due diligence

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CTFF310D

23 Stonybrook Rd
23 Stonybrook Road
Stratford, Connecticut 06614

May 3, 2021

EBI Project Number: 6221002100

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**49.77%**

May 3, 2021

T-Mobile
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CTFF310D - 23 Stonybrook Rd

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **23 Stonybrook Road** in **Stratford, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu W/cm^2$). The number of $\mu W/cm^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu W/cm^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately 400 $\mu W/cm^2$ and 467 $\mu W/cm^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is 1000 $\mu W/cm^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 23 Stonybrook Road in Stratford, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower. For power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

For all calculations, all equipment was calculated using the following assumptions:

1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.

3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

4) 4 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

5) 4 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

6) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

7) 1 LTE channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.

8) 1 NR channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.

9) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.

10) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

11) The antennas used in this modeling are the Ericsson AIR 32 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector A, the Ericsson AIR 32 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector B, the Ericsson AIR 32 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

12) The antenna mounting height centerline of the proposed antennas is 97 feet above ground level (AGL).

13) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

14) All calculations were done with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32
Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz
Gain:	15.35 dBd / 15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.35 dBd / 15.85 dBd
Height (AGL):	97 feet	Height (AGL):	97 feet	Height (AGL):	97 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	360 Watts	Total TX Power (W):	360 Watts	Total TX Power (W):	360 Watts
ERP (W):	12,841.53	ERP (W):	12,841.53	ERP (W):	12,841.53
Antenna A1 MPE %:	**5.58%**	Antenna B1 MPE %:	**5.58%**	Antenna C1 MPE %:	**5.58%**
Antenna #:	**2**	Antenna #:	**2**	Antenna #:	**2**
Make / Model:	RFS APXVAARR24_43-U-NA20	Make / Model:	RFS APXVAARR24_43-U-NA20	Make / Model:	RFS APXVAARR24_43-U-NA20
Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd
Height (AGL):	97 feet	Height (AGL):	97 feet	Height (AGL):	97 feet
Channel Count:	7	Channel Count:	7	Channel Count:	7
Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts
ERP (W):	8,466.41	ERP (W):	8,466.41	ERP (W):	8,466.41
Antenna A2 MPE %:	**6.12%**	Antenna B2 MPE %:	**6.12%**	Antenna C2 MPE %:	**6.12%**
Antenna #:	**3**	Antenna #:	**3**	Antenna #:	**3**
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz
Gain:	17.3 dBd / 17.3 dBd	Gain:	17.3 dBd / 17.3 dBd	Gain:	17.3 dBd / 17.3 dBd
Height (AGL):	97 feet	Height (AGL):	97 feet	Height (AGL):	97 feet
Channel Count:	2	Channel Count:	2	Channel Count:	2
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	12,888.76	ERP (W):	12,888.76	ERP (W):	12,888.76
Antenna A3 MPE %:	**5.60%**	Antenna B3 MPE %:	**5.60%**	Antenna C3 MPE %:	**5.60%**

Site Composite MPE %	
Carrier	**MPE %**
T-Mobile (Max at Sector A):	17.29%
Verizon	12.16%
AT&T	20.32%
Site Total MPE % :	49.77%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	17.29%
T-Mobile Sector B Total:	17.29%
T-Mobile Sector C Total:	17.29%
Site Total MPE % :	49.77%

T-Mobile Maximum MPE Power Values (Sector A)

T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (μW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
T-Mobile 1900 MHz GSM	4	1028.30	97.0	17.86	1900 MHz GSM	1000	1.79%
T-Mobile 1900 MHz LTE	2	2056.61	97.0	17.86	1900 MHz LTE	1000	1.79%
T-Mobile 2100 MHz LTE	2	2307.55	97.0	20.04	2100 MHz LTE	1000	2.00%
T-Mobile 600 MHz LTE	2	591.73	97.0	5.14	600 MHz LTE	400	1.28%
T-Mobile 600 MHz NR	1	1577.94	97.0	6.85	600 MHz NR	400	1.71%
T-Mobile 700 MHz LTE	2	648.82	97.0	5.63	700 MHz LTE	467	1.21%
T-Mobile 1900 MHz LTE	2	2203.69	97.0	19.13	1900 MHz LTE	1000	1.91%
T-Mobile 2500 MHz LTE	1	6444.38	97.0	27.98	2500 MHz LTE	1000	2.80%
T-Mobile 2500 MHz NR	1	6444.38	97.0	27.98	2500 MHz NR	1000	2.80%
						Total:	**17.29%**

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	17.29%
Sector B:	17.29%
Sector C:	17.29%
T-Mobile Maximum MPE % (Sector A):	17.29%
Site Total:	49.77%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **49.77%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.