After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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CROWN CASTLE

1 Cityplace Dr, Suite 490
Creve Coeur, MO 63141

Phone: (314) 513-0147
www.crowncastle.com

November 9th, 2022

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

RE: **Shared Use Application for Verizon Wireless**
Crown Site ID# 857528; Verizon Site ID# 720892
85 Paper Mill Road, Woodbury, CT 06798
Latitude: 41.573080 / Longitude: -73.227640

Dear Ms. Bachman:

Pursuant to Connecticut General Statutes ("C.G.S.") §16-50aa, as amended, Verizon Wireless hereby requests an order from the Connecticut Siting Council ("Council") to approve the shared use by Verizon Wireless of an existing telecommunication tower at 85 Paper Mill Road, Woodbury. (the "Property"). The existing 150-foot monopole tower is owned by Crown Castle International Corp. ("Crown Castle"). The underlying property is owned by Jodie A. Bryan. Verizon Wireless requests that the Council find that the proposed shared use of the Crown Castle tower satisfies the criteria of C.G.S. §16-50aa and issue an order approving the proposed shared use. This modification/proposal includes hardware that is both 4G(LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times. A copy of this filing is being sent to Ms. Barbara Perkindon, First Selectwoman, Town of Woodbury, Mr. William Agresta, Town Planner, as well as the property owner.

Background

The existing Crown Castle facility consists of a 150 monopole tower within a 3,750 square foot leased area. AT&T currently maintains antennas at the 150-foot level. AT&T's equipment is located north of the tower.

Verizon is licensed by the Federal Communications Commission ("FCC") to provide wireless services throughout the State of Connecticut. Verizon and Crown Castle have agreed to the proposed shared use of 85 Paper Mill Road, Woodbury tower pursuant to mutually acceptable terms and conditions. Likewise, Verizon and Crown Castle have agreed to the proposed installation of equipment cabinets on the ground on the south side of the tower within the existing compound. Crown Castle has authorized Verizon to apply for all necessary permits and approvals that may be required to share the existing tower.

Verizon proposes to install nine (9) antennas, six (6) RRUs, one (1) OVP, one (1) antenna platform, and two (2) hybrid cables. In addition, T-Mobile will install a ground equipment cabinet on a 11'x18' equipment pad. Included in the Construction Drawings are Verizon's project specifications for locations of all proposed site improvements. The Construction Drawings also contain specifications for Verizon's proposed antennas and groundwork. C.G.S. § 16-50aa(c)(1) provides that, upon written request for approval of a proposed shared use, "if the Council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such a shared use." Verizon respectfully submits that the shared use of the tower satisfies these criteria.

A. Technical Feasibility.

The existing Crown Castle tower is structurally capable of supporting Verizon's proposed improvements. The proposed shared use of this tower is, therefore, technically feasible. A Feasibility Structural Analysis Report ("Structural Report") prepared for this project confirms that this tower can support Verizon's proposed loading. A copy of the Structural Report has been included in this application.

B. Legal Feasibility.

Under C.G.S. § 16-50aa, the Council has been authorized to issue order approving the shared use of an existing tower such as the Crown Castle tower. This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. In addition, § 16-50x(a) directs the Council to "give such consideration to the other state laws and municipal regulations as it shall deem appropriate" in ruling on requests for the shared use of existing tower facilities. Under the statutory authority vested in the Council, an order by the Council approving the requested shared use would permit the Applicant to obtain a building permit for the proposed installations.

C. Environmental Feasibility. The proposed shared use of the Crown Castle tower would have a minimal environmental effect for the following reasons:

1. The proposed installation will have no visual impact on the area of the tower. Verizon's equipment cabinet would be installed within the existing facility compound. Verizon's shared use of this tower therefore will not cause any significant change or alteration in the physical or environmental characteristics of the existing site.

2. Operation of Verizon's antennas at this site would not exceed the RF emissions

standard adopted by the Federal Communications Commission ("FCC"). Included in the EME report of this filing are the approximation tables that demonstrate that Verizon's proposed facility will operate well within the FCC RF emissions safety standards.

3. Under ordinary operating conditions, the proposed installation would not require the use of any water or sanitary facilities and would not generate air emissions or discharges to water bodies or sanitary facilities. After construction is complete the proposed installations would not generate any increased traffic to the Crown Castle facility other than periodic maintenance. The proposed shared use of the Crown Castle tower, would, therefore, have a minimal environmental effect, and is environmentally feasible.

D. Economic Feasibility. As previously mentioned, Verizon has entered into an agreement with Crown Castle for the shared use of the existing facility subject to mutually agreeable terms. The proposed tower sharing is, therefore, economically feasible.

E. Public Safety Concerns. As discussed above, the tower is structurally capable of supporting T-Mobile's full array of nine (9) antennas, six (6) RRUs, one (1) OVP, one (1) antenna platform, and two (2) hybrid cables and all related equipment. Verizon is not aware of any public safety concerns relative to the proposed sharing of the existing Crown Castle tower.

Conclusion

For the reasons discussed above, the proposed shared use of the existing Crown Castle tower at 85 Paper Mill Road, Woodbury satisfies the criteria stated in C.G.S. §16-50aa and advances the General Assembly's and the Council's goal of preventing the unnecessary proliferation of towers in Connecticut. The Applicant therefore, respectfully requests that the Council issue an order approving the prosed shared use.

Sincerely,

Katie Adams

Katie Adams
Crown Castle – Agent for Verizon Wireless
100 Apollo Drive Suite 303
Chelmsford, MA 01824
kadams@nbcllc.com
(781) 392-7547

CROWN CASTLE

1 Cityplace Dr, Suite 490
Creve Coeur, MO 63141

Phone: (314) 513-0147
www.crowncastle.com

cc:

Barbara Perkins, First Selectwoman
Town of Woodbury
281 Main Street
Woodbury, CT 06798

William Agresta, Town Planner
Town of Woodbury
281 Main Street
Woodbury, CT 06798

Jodie Bryan, Property Owner
85 Paper Mill Road
Woodbury, CT 06798

Katie Adams

From: TrackingUpdates@fedex.com
Sent: Friday, November 18, 2022 10:07 AM
To: Katie Adams
Subject: FedEx Shipment 770526353090: Your package has been delivered

Hi. Your package was delivered Fri, 11/18/2022 at 10:00am.

Delivered to 281 MAIN ST S, WOODBURY, CT 06798

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER	770526353090
FROM	NB+C 100 Apollo Drive Suite 303 CHELMSFORD, MA, US, 01824
TO	Town of Woodbury Barbara Perkins, First Selectwoman

	281 Main Street WOODBURY, CT, US, 06798
REFERENCE	100788
SHIPPER REFERENCE	100788
SHIP DATE	Thu 11/17/2022 06:07 PM
PACKAGING TYPE	FedEx Pak
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	WOODBURY, CT, US, 06798
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	2.00 LB
SERVICE TYPE	FedEx Standard Overnight

FOLLOW FEDEX

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To: Katie Adams
Subject: FedEx Shipment 770526368574: Your package has been delivered

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TRACKING NUMBER	770526368574
FROM	NB+C 100 Apollo Drive Suite 303 CHELMSFORD, MA, US, 01824
TO	Town of Woodbury William Agresta, Town Planner

	281 Main Street WOODBURY, CT, US, 06798
REFERENCE	100788
SHIPPER REFERENCE	100788
SHIP DATE	Thu 11/17/2022 06:07 PM
PACKAGING TYPE	FedEx Pak
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	WOODBURY, CT, US, 06798
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	2.00 LB
SERVICE TYPE	FedEx Standard Overnight

FOLLOW FEDEX

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Sent: Friday, November 18, 2022 12:32 PM
To: Katie Adams
Subject: FedEx Shipment 770526437328: Your package has been delivered
Attachments: DeliveryPicture.jpeg

Hi. Your package was delivered Fri, 11/18/2022 at 12:24pm.

Delivered to 85 PAPER MILL RD, WOODBURY, CT 06798

OBTAIN PROOF OF DELIVERY

Delivery picture not showing? View in browser.

TRACKING NUMBER	770526437328
FROM	NB+C 100 Apollo Drive Suite 303 CHELMSFORD, MA, US, 01824
TO	Jodie Bryan 85 Paper Mill Road WOODBURY, CT, US, 06798
REFERENCE	100788
SHIPPER REFERENCE	100788
SHIP DATE	Thu 11/17/2022 06:07 PM
DELIVERED TO	Residence
PACKAGING TYPE	FedEx Pak
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	WOODBURY, CT, US, 06798
SPECIAL HANDLING	Deliver Weekday Residential Delivery
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	2.00 LB
SERVICE TYPE	FedEx Standard Overnight

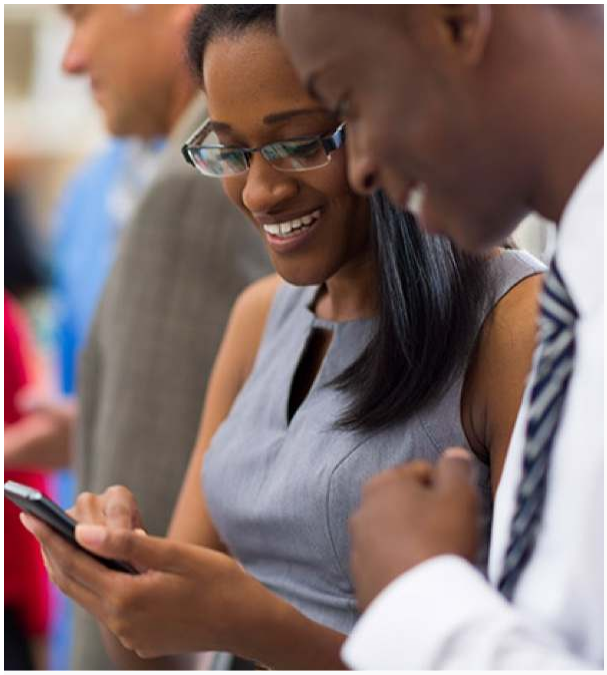

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Exhibit A

Original Facility Approval

DOCKET NO. 375 – New Cingular Wireless PCS, LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 85 Paper Mill Road, Woodbury, Connecticut.	}	Connecticut Siting Council August 27, 2009

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to New Cingular Wireless PCS, LLC, hereinafter referred to as the Certificate Holder, for a telecommunications facility located at 85 Paper Mill Road, Woodbury, 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 the Certificate Holder and other entities, both public and private, but such tower shall not exceed a height of 150 feet above ground level.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. Prior to the submission of the D&M Plan to the Council, the Certificate Holder shall discuss and resolve issues pertaining to the existing driveway that serves the site property with the Town of Woodbury. Once the driveway issues are resolved, the D&M Plan shall be served on the Town of Woodbury 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.

3. 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.

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

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

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

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

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

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

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

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

Pursuant to General Statutes § 16-50p, 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 Republican-American and Voices.

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**
New Cingular Wireless PCS, LLC	Christopher B. Fisher, Esq. Cuddy & Feder LLP 445 Hamilton Avenue, 14th Floor White Plains, New York 10601

Exhibit B

Property Card

Town of Woodbury, CT

Property Listing Report

Map Block Lot	Building #	Unique Identifier
040-032A		240120

Property Information

Property Location	85 PAPER MILL RD
Mailing Address	754 PEACHTREE ST NE 16RL ATLANTA GA 30308
Land Use	Broadcasting Facility
Zoning Code	OS100
Neighborhood	20

Owner	BRYAN JODIE A
Co-Owner	
Book / Page	0376/0894*
Land Class	Commercial
Census Tract	3621
Acreage	2.3

Valuation Summary

Assessed value = 70% of Appraised Value

Item	Appraised	Assessed
Buildings	0	0
Outbuildings	252543	176780
Land	91840	64290
Total	344383	0

Utility Information

Electric	No
Gas	No
Sewer	No
Public Water	No
Well	No

Primary Construction Details

Year Built	
Building Desc.	
Building Style	
Stories	
Exterior Walls	
Exterior Walls 2	
Interior Walls	
Interior Walls 2	
Interior Floors 1	
Interior Floors 2	

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	
Full Bathrooms	
Half Bathrooms	
Extra Fixtures	
Total Rooms	
Bath Style	
Kitchen Style	
Occupancy	

Building Use	
Building Condition	
Frame Type	
Fireplaces	
Bsmt Gar	
Fin Bsmt Area	
Fin Bsmt Quality	
Building Grade	
Roof Style	
Roof Cover	

Report Created On 11/17/2021

Town of Woodbury, CT

Property Listing Report | Map Block Lot 040-032A | Building # | Unique Identifier 240120

Detached Outbuildings

Type	Description	Area (sq ft)	Condition	Year Built
Cell Towers	Fencing	120	Average	2010
Cell Towers	Pad	150	Average	2010
Cell Towers	Building/Equipment	240	Average	2010
Cell Towers	Mono Pole	150	Average	2010

Attached Extra Features

Type	Description	Area (sq ft)	Condition	Year Built

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
BRYAN JODIE A	0376_0894*	8/3/2010	0
BRYAN JODIE A	0251_0215	6/30/2000	0
BRYAN RALPH D & JODIE A	0222_0581	6/30/1997	260000

Report Created On 11/17/2021

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER:	**720892**
VERIZON SITE NAME:	**WOODBURY NW CT**
SITE TYPE:	**MONOPOLE**
TOWER HEIGHT:	**150'-0"**
BUSINESS UNIT #:	**857528**
SITE ADDRESS:	**85 PAPER MILL ROAD WOODBURY, CT 06798**
COUNTY:	**LITCHFIELD**
JURISDICTION:	**CONNECTICUT SITING COUNCIL**

VERIZON INITIAL BUILD 16925401

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	WOODBURY PAPER MILL RD
SITE ADDRESS:	85 PAPER MILL ROAD WOODBURY, CT 06798
COUNTY:	LITCHFIELD
MAP/PARCEL #:	040-032A
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.573080°
LONGITUDE:	-73.227640°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	528'
CURRENT ZONING:	OS 100 - OPEN SPACE DISTRICT 100
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	BRYAN JODIE A 754 PEACHTREE ST NE 16RL ATLANTA, GA 30308
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 20 ALEXANDER DRIVE, 2ND FLOOR WALLINGFORD, CT 06492
ELECTRIC PROVIDER:	CONNECTICUT LIGHT & POWER CO 1-800-286-2000
TELCO PROVIDER:	CROWN CASTLE 1-855-93-FIBER

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS MARVIN.PHILLIPS@BTGRP.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	1500 CORPORATE DRIVE CANONSBURG, PA 15317 WILLIAM GATES - PROJECT MANAGER WILLIAM.GATES@CROWNCASTLE.COM JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCASTLE.COM
VERIZON CONTACT:	TIMOTHY PARKS TIMOTHY.PARKS@VERIZONWIRELESS.COM

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	OVERALL SITE PLAN
C-1.2	SITE PLAN
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	MOUNTING DETAILS
C-4	EQUIPMENT DETAILS
C-5	CONCRETE PAD DETAILS
C-6	GROUND EQUIPMENT PLAN
C-7	EROSION CONTROL DETAILS
C-8	GENERATOR DETAILS
E-1	UTILITY PLAN
E-2	ELECTRICAL DETAILS & ONE LINE DIAGRAM
E-3	PANEL SCHEDULES
E-4	TYPICAL CABINET CONDUIT ROUTINGS
E-5	RISER DIAGRAM & TRENCH DETAILS
E-6	EQUIPMENT PAD LIGHTING LAYOUT
G-1	GROUNDING PLAN
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
REF1	CIRCUIT SCHEDULE

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION

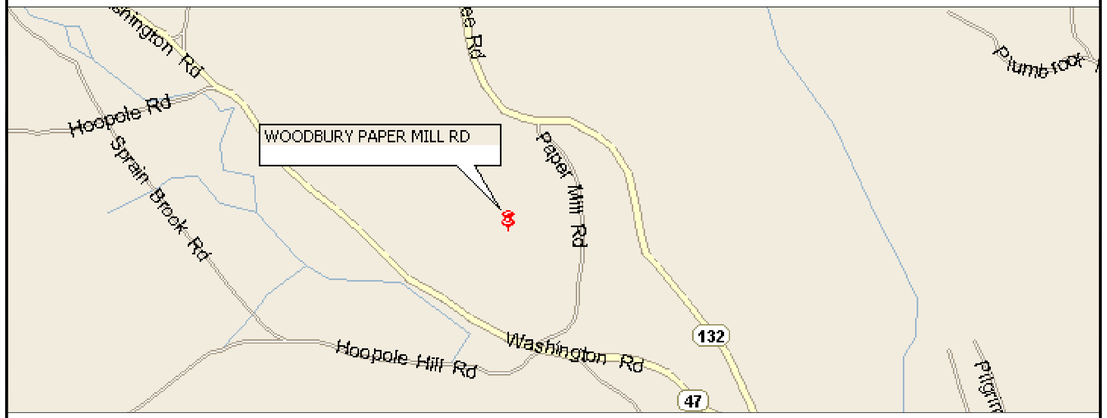
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:
- INSTALL (9) ANTENNAS
- INSTALL (6) RRHs
- INSTALL (1) OVP
- INSTALL (2) HYBRID CABLES
- INSTALL (1) PLATFORM MOUNT VALMONT - F3P-12 W/VALMONT - HRK12 SUPPORT RAIL KIT AND (12) 2" STD. x10'-6" LONG PIPES

GROUND SCOPE OF WORK:
- INSTALL (1) CONCRETE PAD W/ OUTDOOR EQUIPMENT CABINETS
- INSTALL (1) KOHLER - 30REOZK DIESEL GENERATOR
- INSTALL NEW H-FRAMES

GROUND SCOPE OF WORK:
- INSTALL NEW METER IN EXISTING METER BANK
- CONTRACTOR SHALL CALL POWER COMPANY TO START SERVICE ONCE INSPECTIONS ARE COMPLETE
- CONTRACTOR SHALL CONFORM SITE TO LOCAL UTILITY COMPANY CODES AND REGULATIONS
- CONTRACTOR SHALL PROVIDE AND SECURE ALL REQUIRED PERMITS, LICENSES, INSPECTIONS, APPROVALS AND PAYMENT OF ALL FEES

LOCATION MAP



DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (278 OXFORD RD, OXFORD, CT 06478):
HEAD NORTH ON CT-67 W TOWARD OLD STATE RD 67 E, CONTINUE ONTO US-6 E/MAIN ST S, TURN LEFT ONTO CT-47 N/WASHINGTON RD, TURN LEFT ONTO CT-47 N, TURN RIGHT ONTO PAPER MILL RD, ARRIVE AT 857528.

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2018 CONNECTICUT SBC/2015 IBC
MECHANICAL	2018 CONNECTICUT SBC/2015 IMC
ELECTRICAL	2018 CONNECTICUT SBC/2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	TOWER ENGINEERING PROFESSIONALS
DATED:	7/1/22
MOUNT ANALYSIS:	B+T GROUP
DATED:	9/7/22
RFDS REVISION:	0
DATED:	6/15/22
ORDER ID:	623558
REVISION:	0

INSTALLER NOTES:

REFERENCE LATEST VERIZON CONSTRUCTION STANDARDS.

NOTE:
PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER

CALL CONNECTICUT ONE CALL (800) 922-4455 CBYD.COM CALL 2 WORKING DAYS BEFORE YOU DIG! 811

verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
720892

BU #: **857528**
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	7/25/22	GAC	PRELIMINARY REVIEW	CV
B	8/9/22	ANP	PRELIMINARY REVIEW	CV
0	9/26/22	MEH	CONSTRUCTION	LR
1	9/29/22	GAC	CONSTRUCTION	LR

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: T-1

REVISION: 1

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED– NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800–788–7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" – CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
   THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED–STD–10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS–STD–10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED–STD–10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
   CARRIER: VERIZON
   TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE–THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER–TO–CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
   #4 BARS AND SMALLER............40 ksi
   #5 BARS AND LARGER............60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH............3"
   CONCRETE EXPOSED TO EARTH OR WEATHER:
      #6 BARS AND LARGER............2"
      #5 BARS AND SMALLER............1–1/2"
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
      SLAB AND WALLS............3/4"
      BEAMS AND COLUMNS............1–1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL–OF–POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON–ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON–METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON–METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD–WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
   - 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
   - 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON–PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER–ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (–)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

ABBREVIATIONS:

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

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SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
720892

BU #: **857528**
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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1	9/29/22	GAC	CONSTRUCTION	LR

STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
9/29/22

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

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SHEET NUMBER: T-2
REVISION: 1

1 OVERALL SITE PLAN

SCALE: 100' 50' 0 100' 1" = 100'–0" (FULL SIZE) 1" = 200'–0" (11x17)

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STATE OF CONNECTICUT
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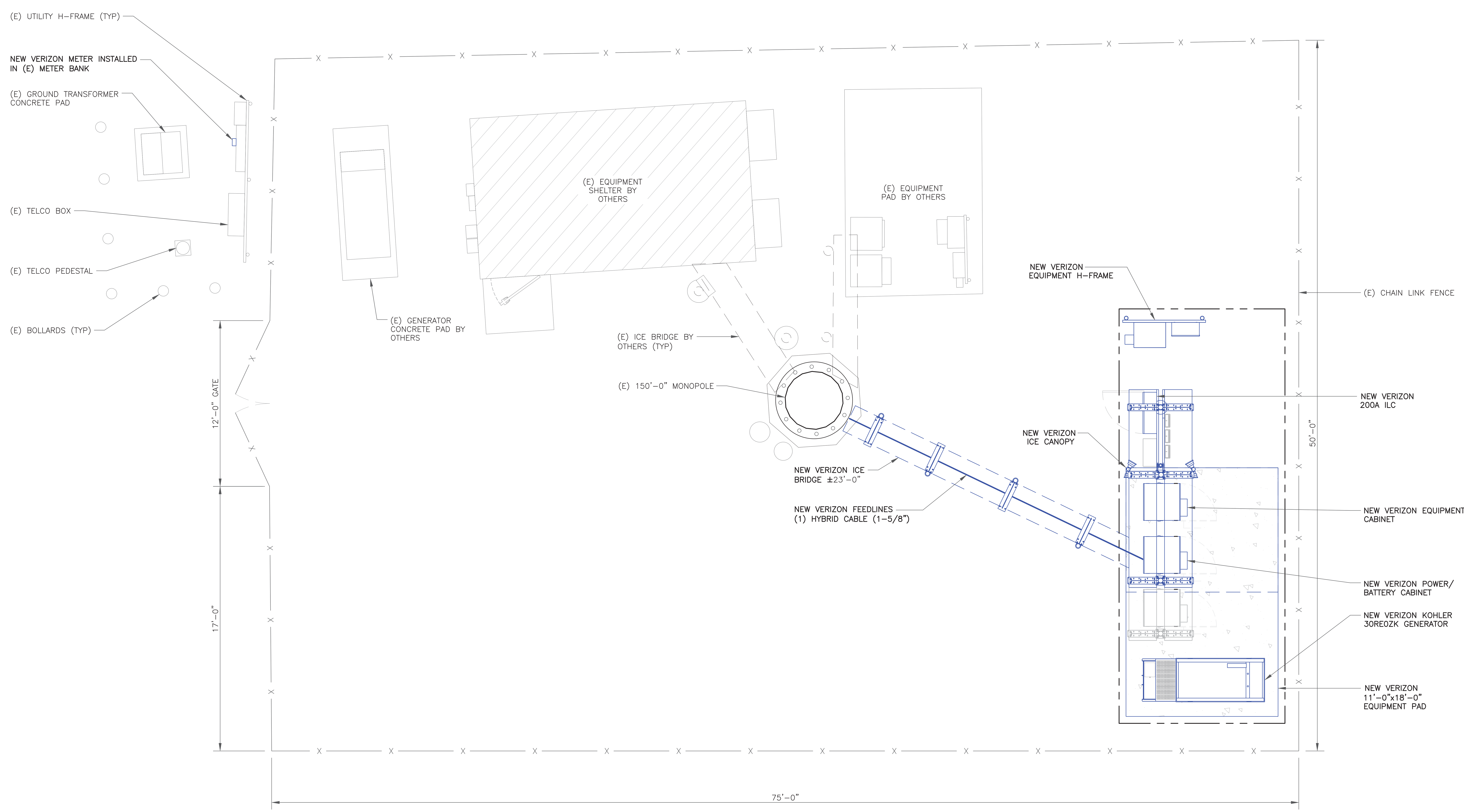
SHEET NUMBER: C-1.1

REVISION: 1



1 SITE PLAN
SCALE: 4' 3' 2' 1' 0 4' 1/4"=1'-0" (FULL SIZE) 1/8"=1'-0" (11x17)

N

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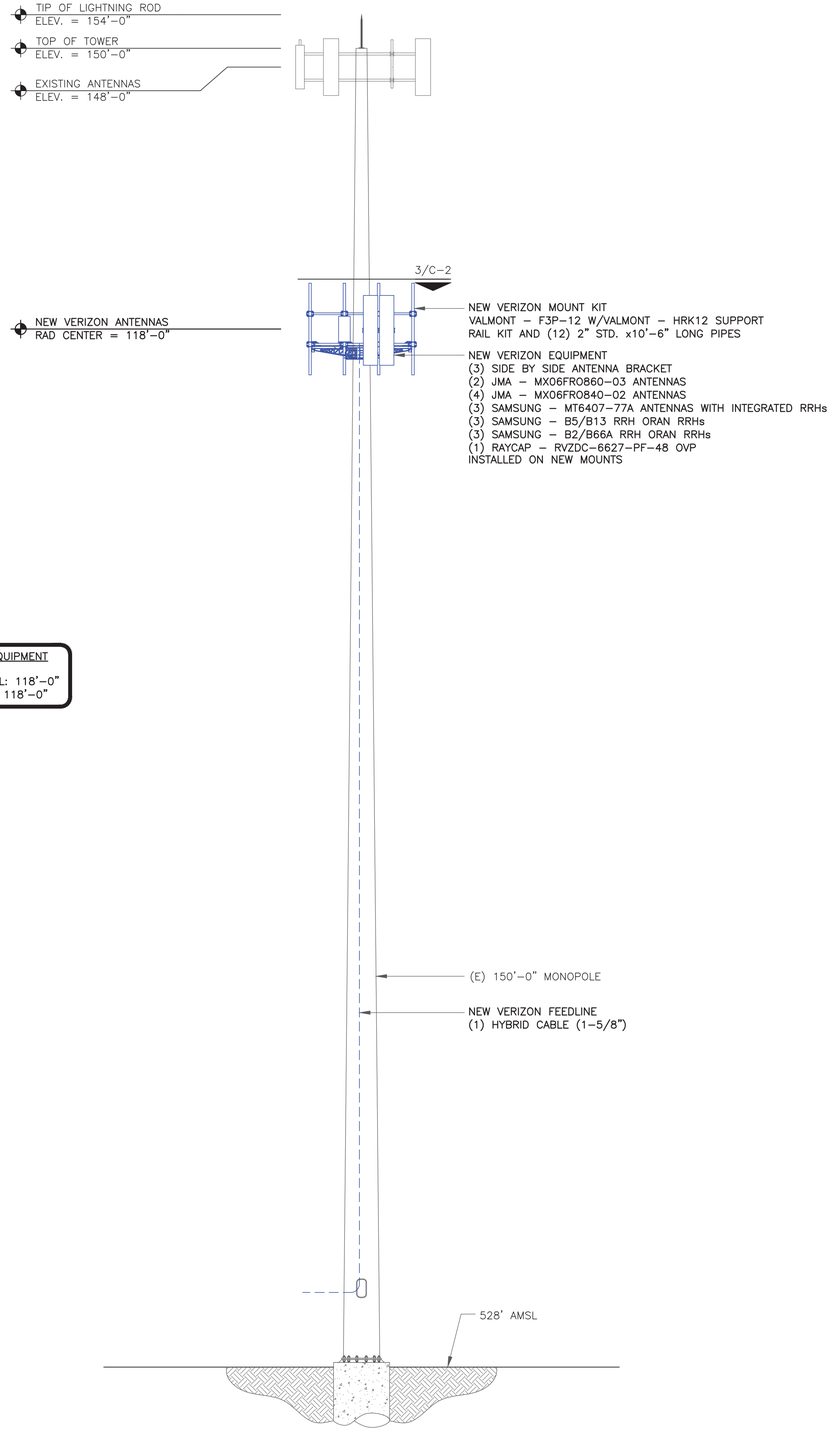
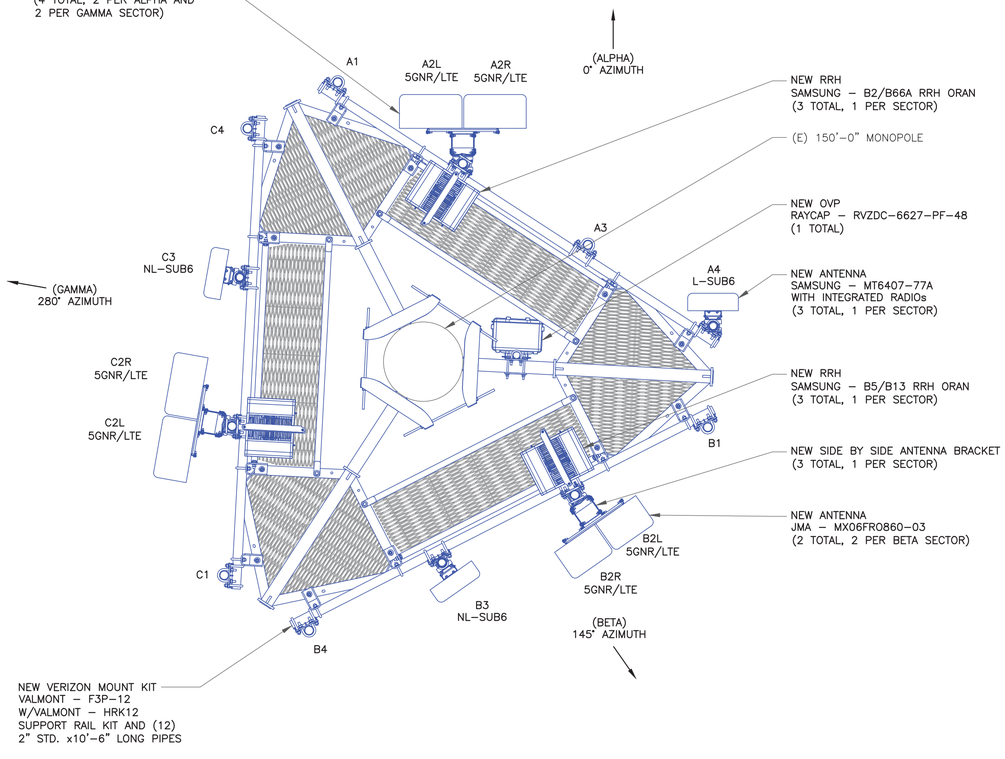
SHEET NUMBER:	REVISION:
C-1.2	1



1 TOWER ELEVATION
SCALE: NOT TO SCALE



2 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

N

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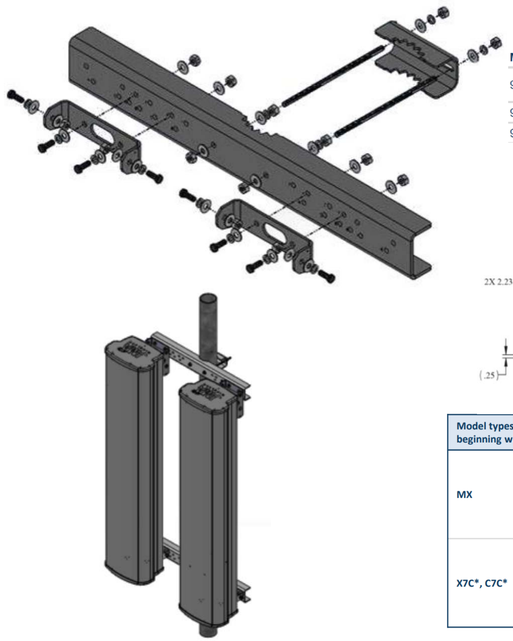
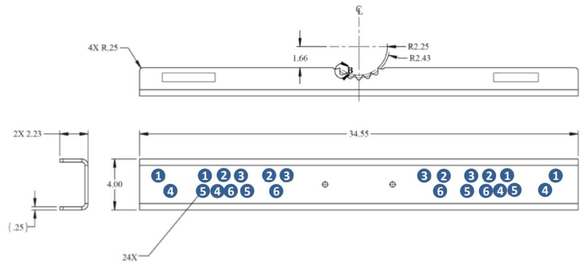
SHEET NUMBER: C-2

REVISION: 1



Mounting bracket model	Description
91900314-01	Single dual-mount antenna bracket assembly
91900314-02	Two dual-mount antenna bracket assemblies
91900314-03	Three dual-mount antenna bracket assemblies

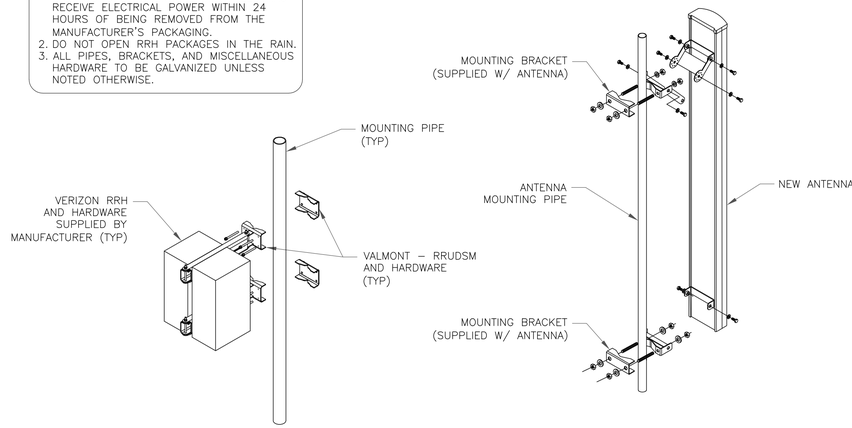


Model types beginning with:	Antenna width	Corresponding hole position	Resulting spacing between antennas
MX	15.4" (wide spacing)	1	12"
	15.4" (narrow spacing)	2	2"
	12"	3	2"
	20"	5	3/4"
X7C*, C7C*	12.5"	3	2"
	24.0"	4	2"
	18.8"	5	2"
	14.6"	6	2"

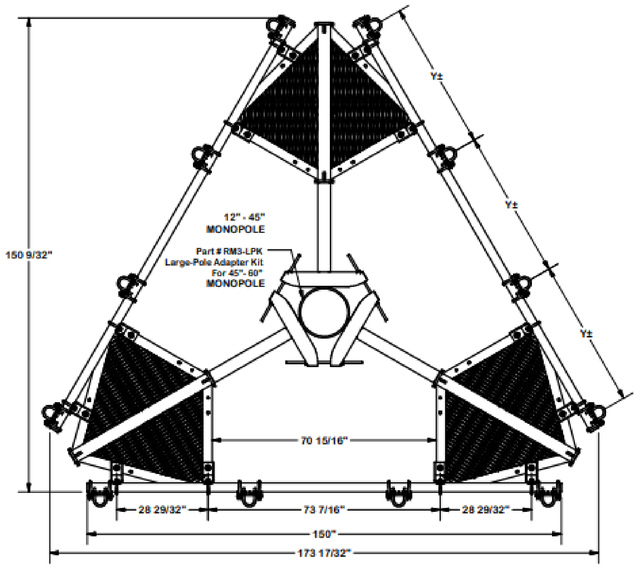
1 JMA – 91900314
SCALE: NOT TO SCALE

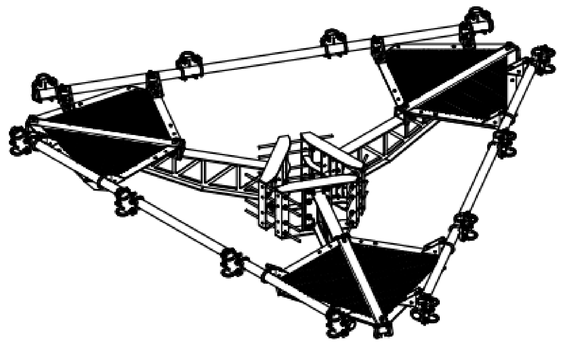
INSTALLER NOTES:

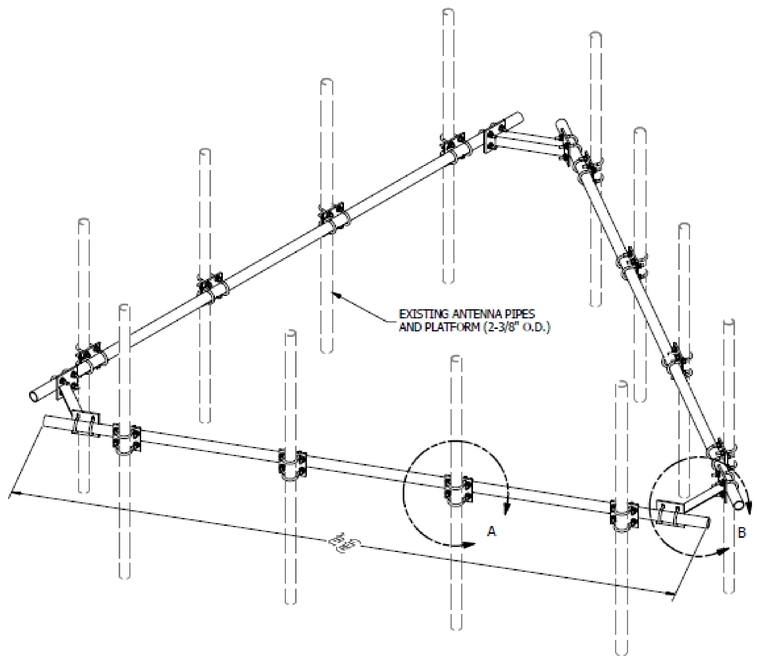
1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



3 ANTENNA WITH RRHs MOUNTING DETAIL
SCALE: NOT TO SCALE







3 VALMONT – F3P–12W & VALMONT – HRK12
SCALE: NOT TO SCALE

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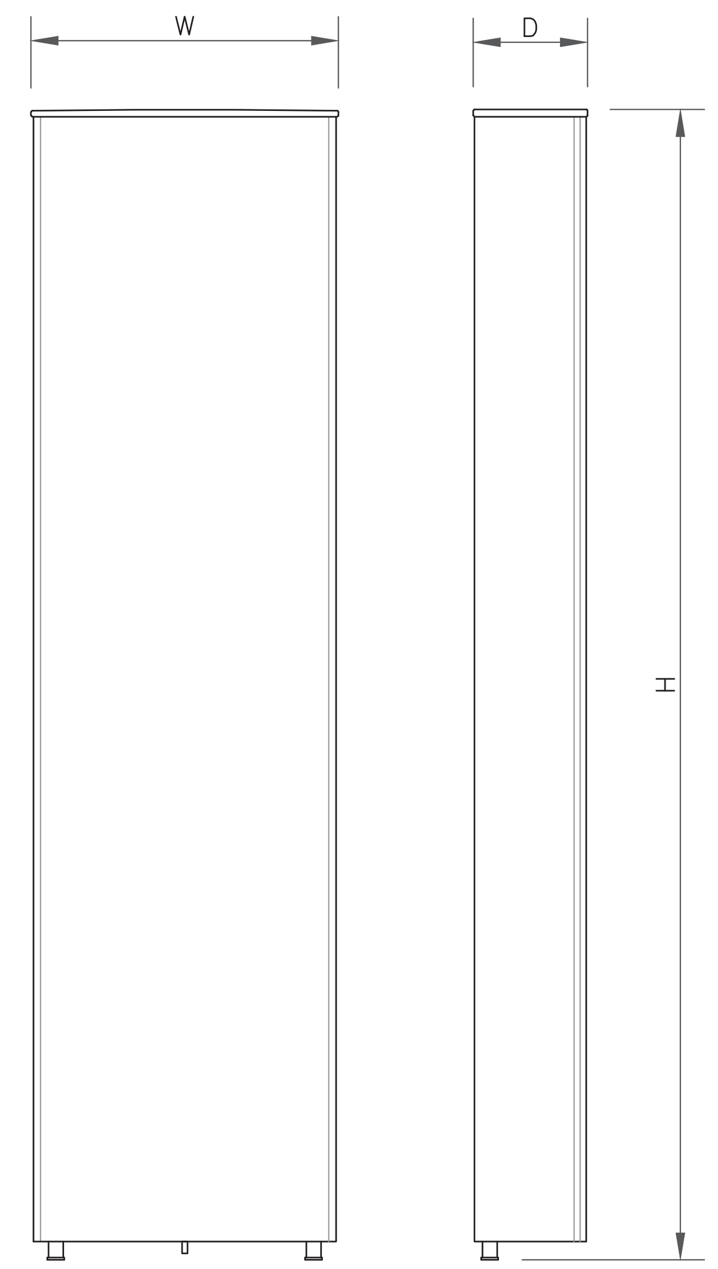
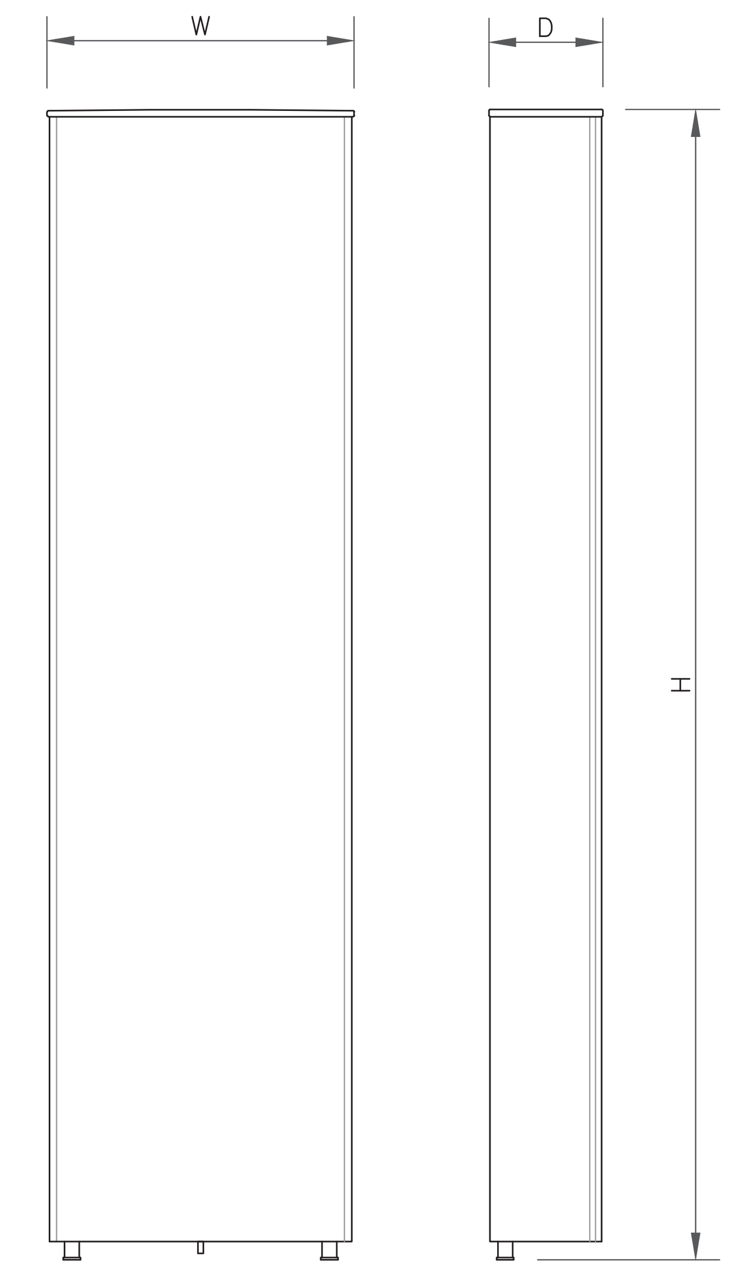
SHEET NUMBER: C-3
REVISION: 1



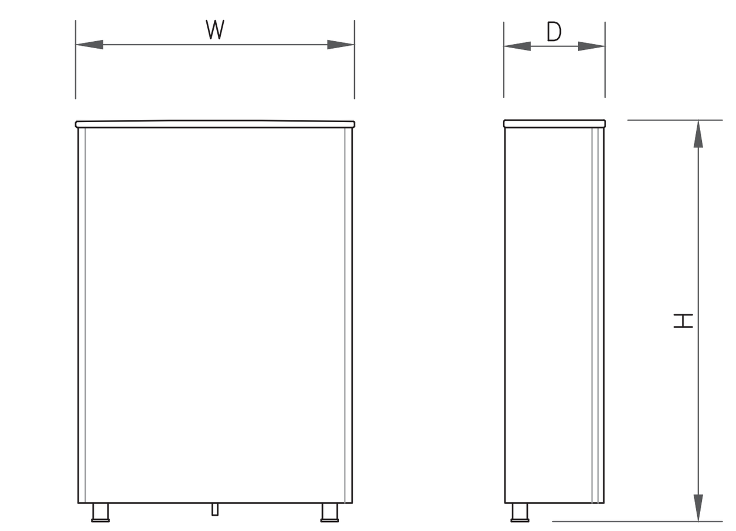
ANTENNA SPECS	
MANUFACTURER	JMA WIRELESS
MODEL #	MX06FRO840-02
WIDTH	19.80"
DEPTH	10.70"
HEIGHT	95.90"
WEIGHT	124.0 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE



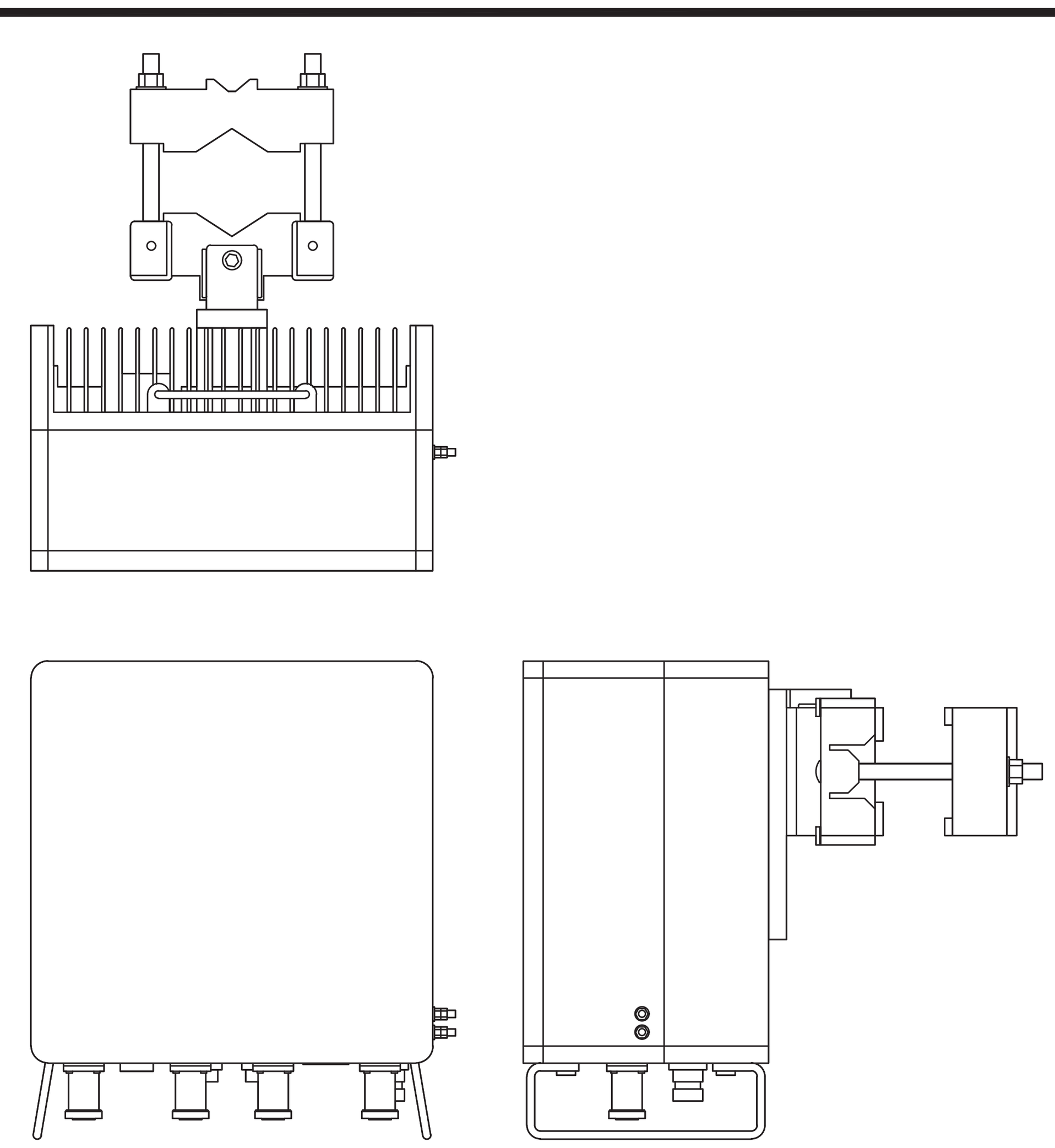
ANTENNA SPECS	
MANUFACTURER	JMA WIRELESS
MODEL #	MX06FRO860-03
WIDTH	15.40"
DEPTH	10.70"
HEIGHT	95.90"
WEIGHT	83.0 LBS

2 ANTENNA SPECS
SCALE: NOT TO SCALE



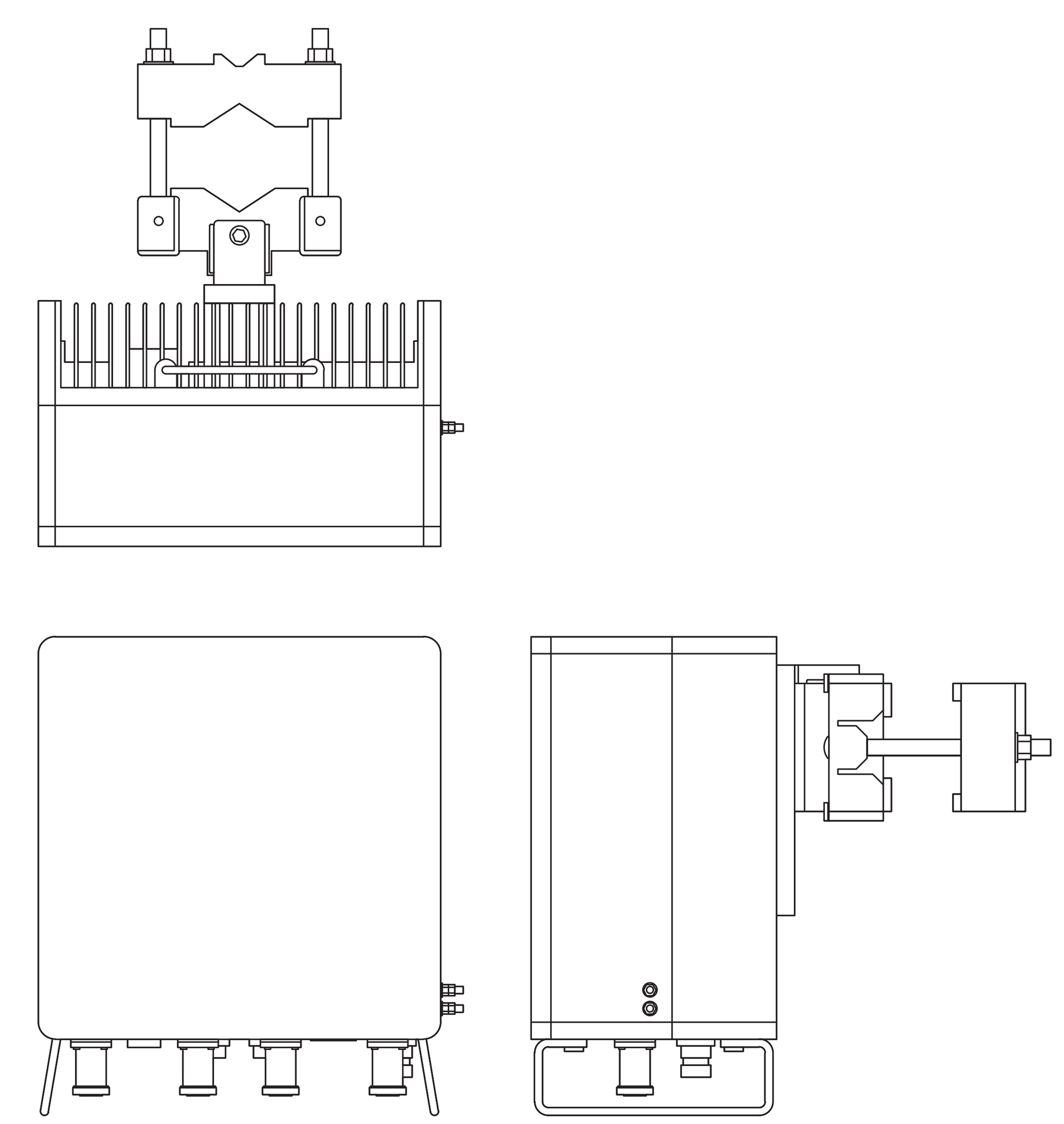
ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

3 ANTENNA SPECS
SCALE: NOT TO SCALE



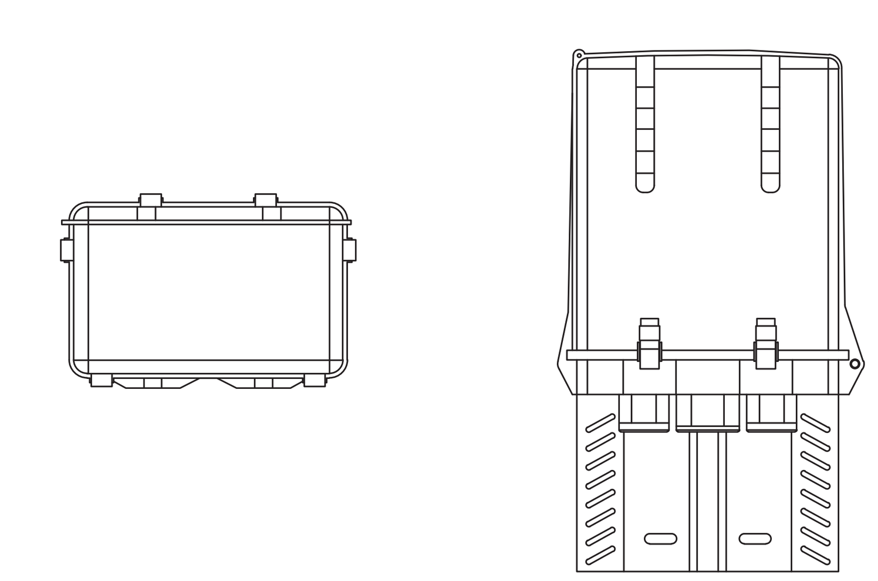
RRU SPECS	
MANUFACTURER	SAMSUNG
MODEL #	B2/B66A RRH ORAN
WIDTH	14.96"
DEPTH	10.04"
HEIGHT	14.96"
WEIGHT	74.7 LBS

4 RRU SPECS
SCALE: NOT TO SCALE



RRU SPECS	
MANUFACTURER	SAMSUNG
MODEL #	B5/B13 RRH ORAN
WIDTH	14.96"
DEPTH	9.06"
HEIGHT	14.96"
WEIGHT	72.5 LBS

5 RRU SPECS
SCALE: NOT TO SCALE



RAYCAP – RVZDC-6627-PF-48
WEIGHT (WITHOUT MOUNTING HARDWARE): 32.0 LBS
SIZE (HxWxD): 29.5x16.5x12.6 IN.

RATED WIND VELOCITY: 150 MPH (SUSTAINED)
OPERATING TEMPERATURE: –40° C TO +80° C
NOMINAL OPERATING DC VOLTAGE: 48 VDC

1 RAYCAP – RVZDC-6627-PF-48
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
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BU #: **857528**
WOODBURY PAPER MILL RD

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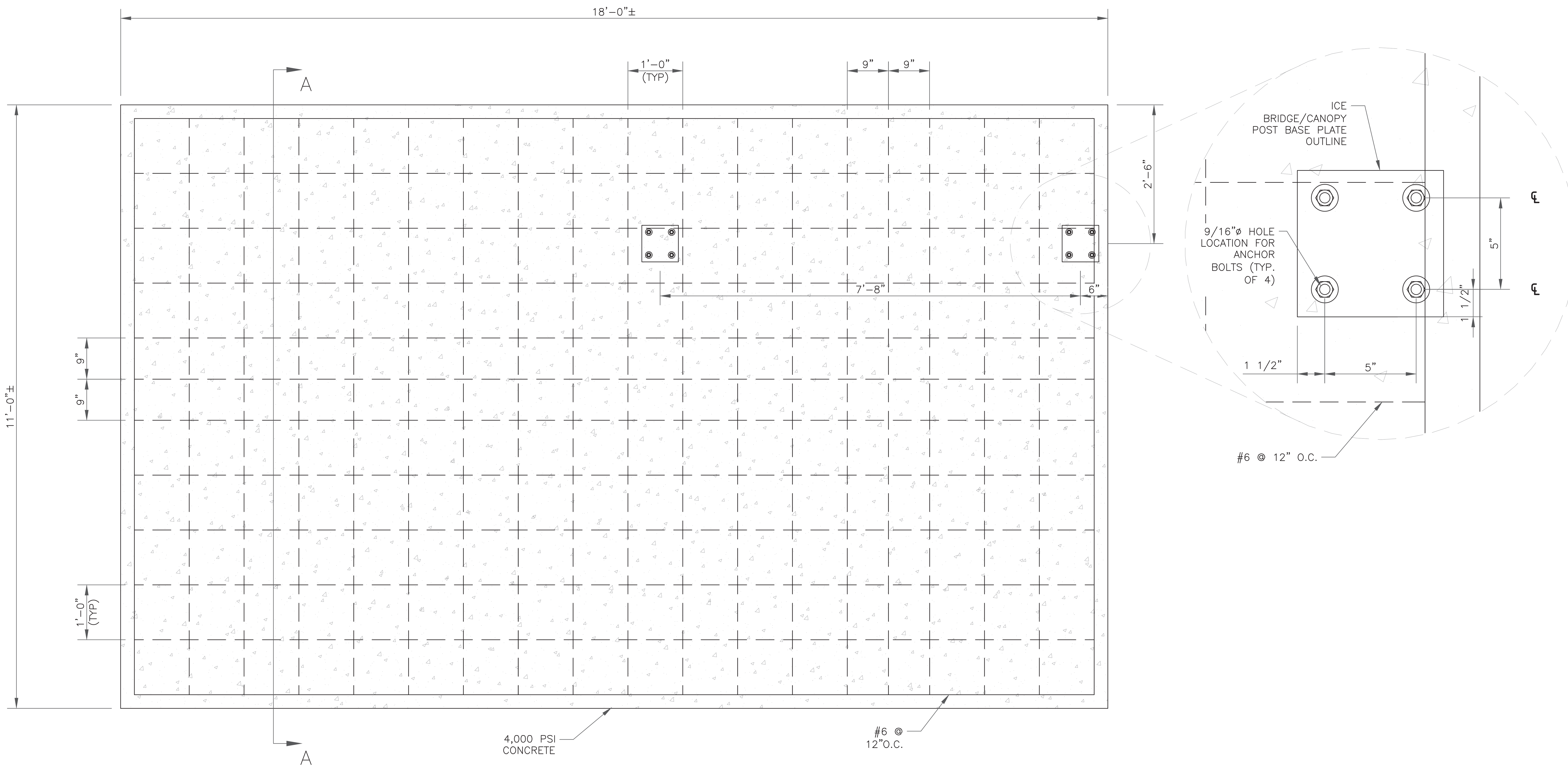
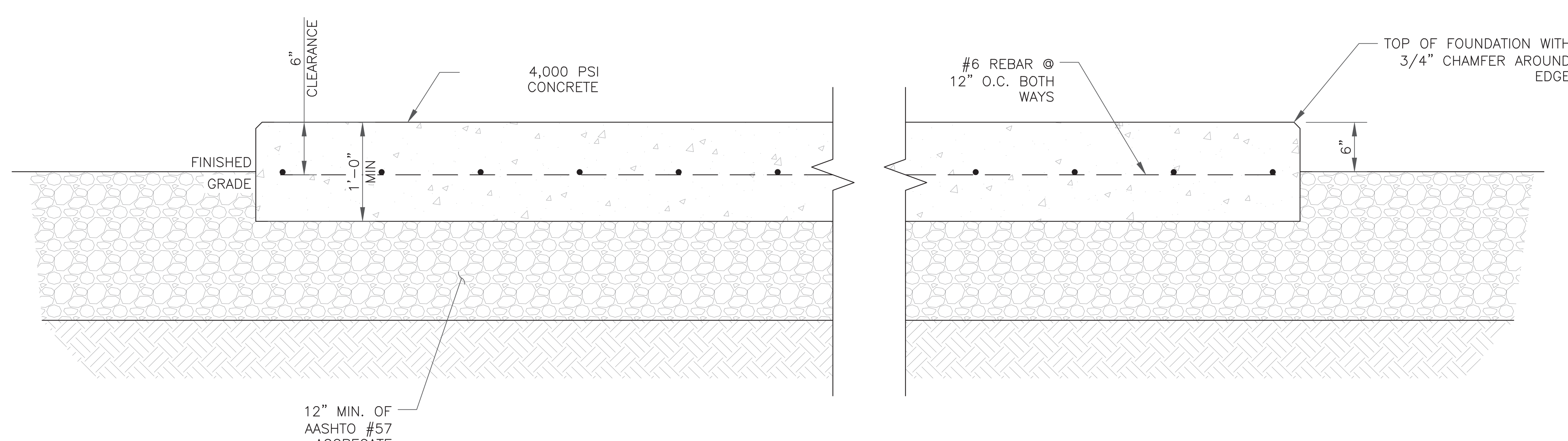
SHEET NUMBER: C-4
REVISION: 1



1 EQUIPMENT PAD FOUNDATION
SCALE: NOT TO SCALE



2 SECTION 'A-A'
SCALE: NOT TO SCALE

FOUNDATION NOTES:

1. REFER TO CIVIL DRAWINGS FOR ORIENTATION OF FOUNDATION.
2. FOUNDATION IS DESIGNED FOR THE FOLLOWING LOADS: FLOOR LIVE LOAD 40 PSF 3.
3. EQUIPMENT SHALL NOT BE SET UNTIL FOUNDATION HAS BEEN CURED FOR 72 HOURS MINIMUM.
4. ALL CONCRETE SHALL HAVE 28 DAY STRENGTH OF 4000 PSI MINIMUM, WITH A MAXIMUM SLUMP OF 3" AND SHALL BE AIR ENTRAINED.
5. REINFORCING STEEL TO HAVE INTERMEDIATE GRADE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
6. FOUNDATION SHALL BE INSTALLED PER VERIZON WIRELESS STATEMENT OF WORK SECTION 7.1.
7. CONTRACTOR MUST GROUND THE FOUNDATION PER VERIZON WIRELESS NSTD46 STANDARDS.
8. CONTRACTOR TO ENSURE FOUNDATION IS POURED TO MEET FLATNESS LEVEL TOLERANCES AS INDICATED IN ACI 4.5.6 AND ACI 4.5.7.
9. SLAB TOLERANCE IS ± 1/4".
10. THIS FOUNDATION IS DESIGNED FOR A MINIMUM OF 1,000 PSF ALLOWABLE SOIL BEARING CAPACITY.
11. FOUNDATION BEARING MATERIAL SHALL BE TESTED & VERIFIED

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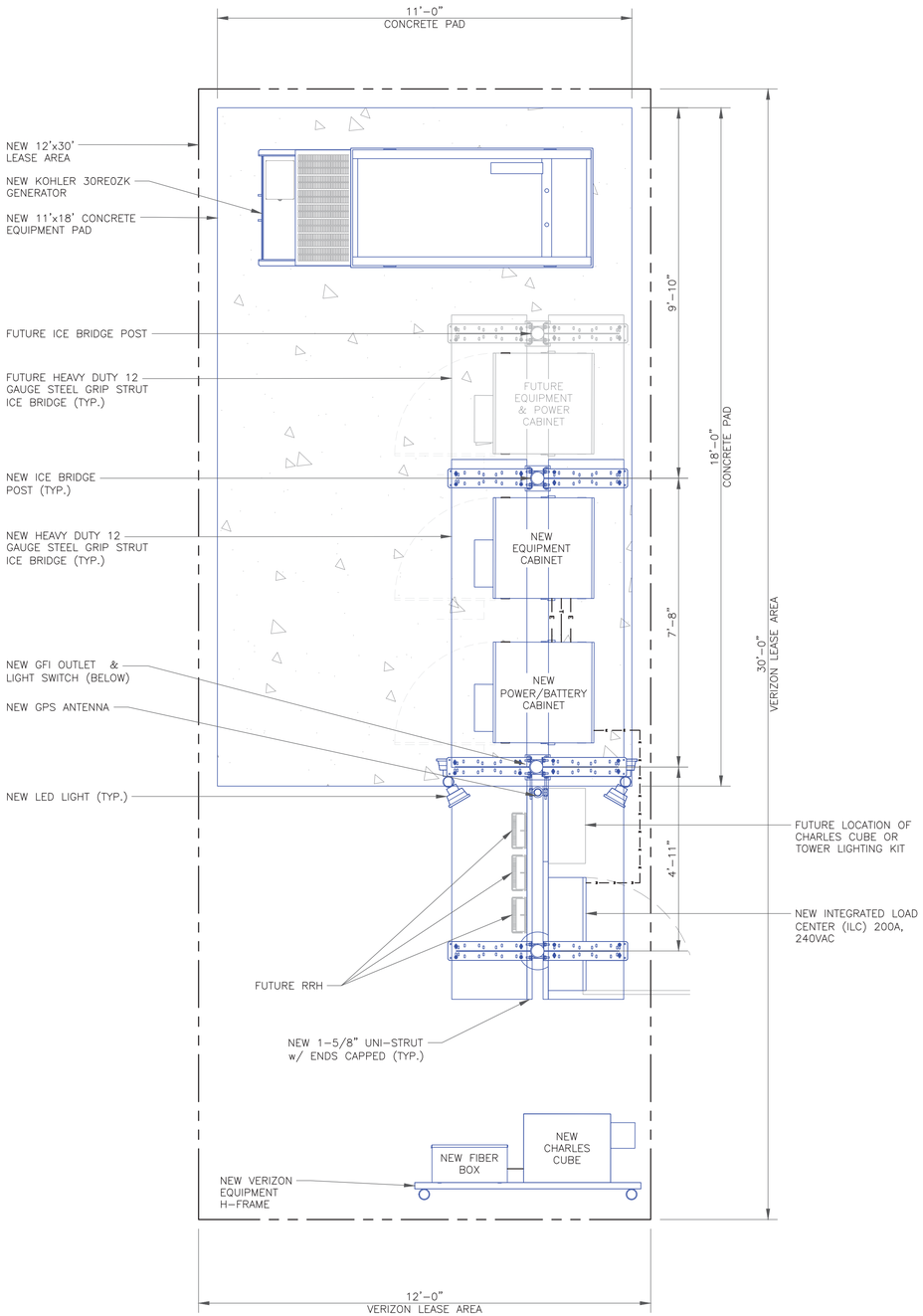
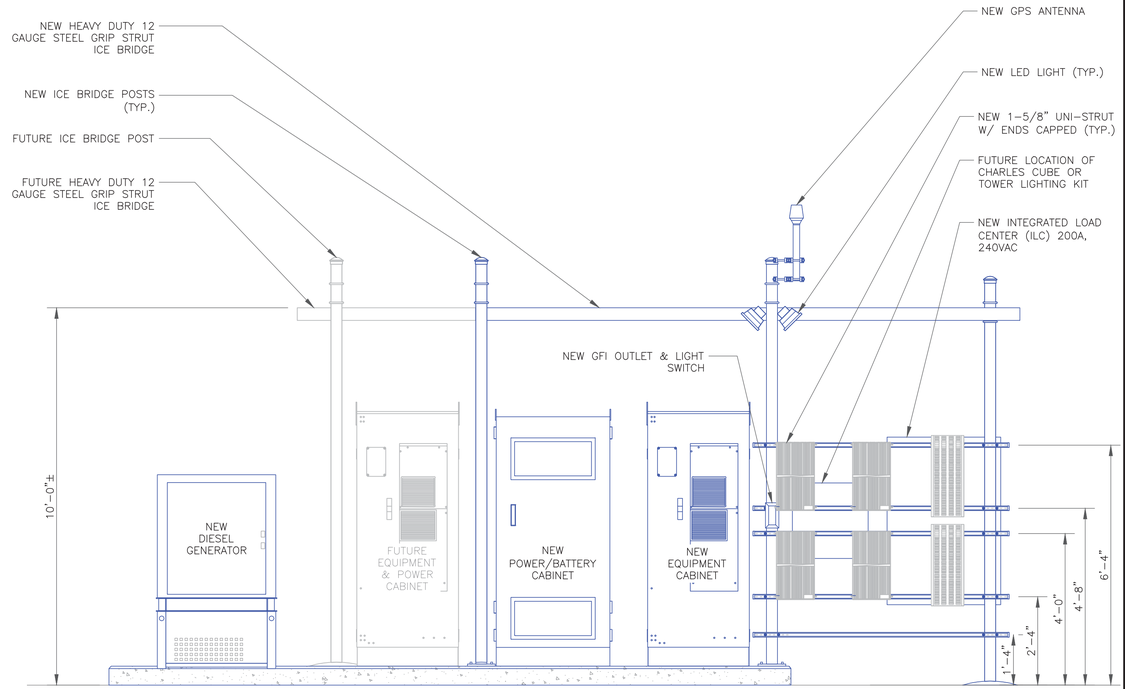
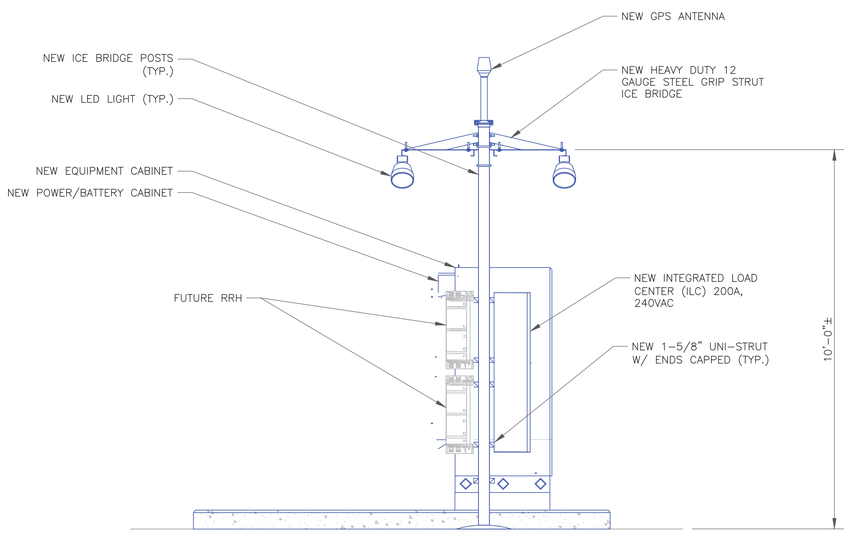
SHEET NUMBER: C-5
REVISION: 1



1 EQUIPMENT PAD PLAN IN 12'-0"x30'-0" LEASE AREA
SCALE: NOT TO SCALE



3 FRONT ELEVATION
SCALE: NOT TO SCALE



2 SIDE ELEVATION
SCALE: NOT TO SCALE

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STATE OF CONNECTICUT
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SHEET NUMBER: C-6

REVISION: 1

STORM WATER POLLUTION PREVENTION NOTES

1. ALL WORK SPECIFIED AS A/AN DOT ITEM SHALL BE GOVERNED BY THE CURRENT DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. IT IS CONTRACTORS RESPONSIBILITY TO POSSESS AND BE FAMILIAR WITH APPLICABLE SECTIONS.
2. THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION PREVENTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
3. ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED ON THIS SHEET.
4. PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 15 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 14 DAYS WITH SEEDING, AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW. TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL, WHERE POSSIBLE. TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.

SEEDING DATES	SEED TYPE	APPLICATION RATE PER 1,000 S.F.
MARCH 1 – AUGUST 15	OATS PERENNIAL RYE GRASS OR TALL FESCUE	3# 1#
AUGUST 16 – NOVEMBER 1	RYE, WHEAT OR PERENNIAL RYE GRASS TALL FESCUE	 3# 1#
AFTER NOVEMBER 1	STRAW OR HAY MULCH	2–3 BALES
SEED BED PREPARATION	LIME 10–10–10 OR 12–12–12 FERTILIZER	100# 12–15#

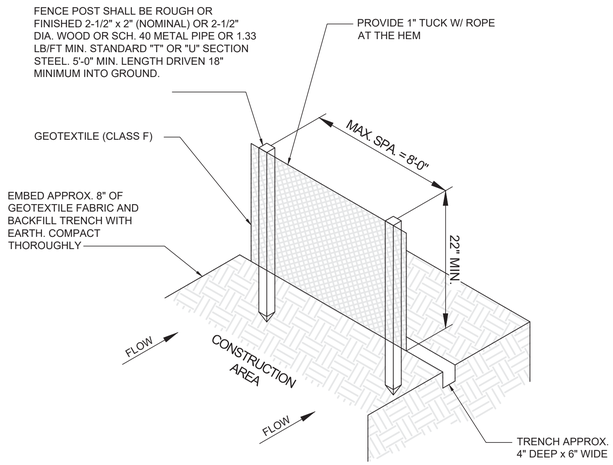
5. PERMANENT VEGETATION SHALL BE INSTALLED WITHIN 10 DAYS AT THE COMPLETION OF ANY GRADED AREAS, WEATHER PERMITTING. ALL PERMANENT VEGETATION SHALL CONSIST OF PLANTING AND SOD AS DETAIL ON THE LANDSCAPE PLAN L-1
6. AT SUCH TIME ROUGH GRADING OF THE SITE IS COMPLETE AND DRAINAGE DIVERTS TO INLETS, INLET SEDIMENT FILTERS SHALL BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION.
7. SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING OR NEW STORM INLETS, CATCH BASINS, AND YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.
8. STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.
9. CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL SWPP.
10. SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT FENCES SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. ONCE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.
11. TEMPORARY SEDIMENTATION AND STORM WATER POLLUTION PREVENTION MEASURES MUST BE INSPECTED AND LOGGED BY THE CONTRACTOR FOR INSPECTION, LOGGING SHALL BE WEEKLY AND AFTER RAIN STORMS.
12. UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER PREVENTION PLANS, DETAILS AND NOTES.
13. THE TOTAL AREA OF DISTURBANCE FOR THIS PROJECT IS 0.386 ACRES.
14. ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION AS SHOWN ON PLANS.
15. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.
17. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.
18. ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.
19. THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES WILL BE USED ON THIS SITE:
    1. SILT BARRIERS
    2. SILT FENCE
    3. CONSTRUCTION ENTRANCE

CONSTRUCTION SEQUENCE

1. STAKE AND/OR FLAG LIMITS OF CLEARING
2. DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED.
3. CLEARING & GRUBBING, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS.
4. INSTALL SILT FENCE PERIMETER CONTROLS AS SHOWN ON PLANS.
5. INSTALL CONSTRUCTION ENTRANCE, IF CONDITIONS ARE SUCH THAT MUD IS COLLECTION ON VEHICLE TIRES, THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD INTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.
6. CLEARING & GRUBBING THE REMAINING SITE AS NECESSARY.
7. BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
8. CONSTRUCT AND MAINTAIN TEMPORARY DRAINAGE SWALE DURING FILLING AND GRADING ACTIVITIES.
9. CONSTRUCT SITE WORK INCLUDING STORM DRAINAGE FACILITIES.
10. UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, INSTALL INLET PROTECTION.
11. MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED.
12. REMOVE SEDIMENT CONTROLS.

SILT FENCE AND EROSION CONTROL NOTES:

1. GEOTEXTILE FABRIC TO BE FASTENED SECURELY TO FENCE POSTS BY WIRE TIES OR HOG RINGS.
2. ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO A COMMON POST OR OVERLAPPED 3'-0" MINIMUM.
3. THIS DEVICE IS INTENDED TO CONTROL SHEET FLOW ONLY. IT WILL NOT BE USED IN AREAS OF CONCENTRATED FLOW WITH A DRAINAGE ARE OF 1/2 ACRE OR MORE.
4. ALL SILT FENCING SHALL BE INSTALLED PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETED.



SILT FENCE DETAIL

(NOT TO SCALE)

1 EROSION CONTROL NOTES
SCALE: NOT TO SCALE

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1717 S. BOULDER
SUITE 300
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www.btgrp.com

VERIZON SITE NUMBER:
720892

BU #: **857528**
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	7/25/22	GAC	PRELIMINARY REVIEW	CV
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MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

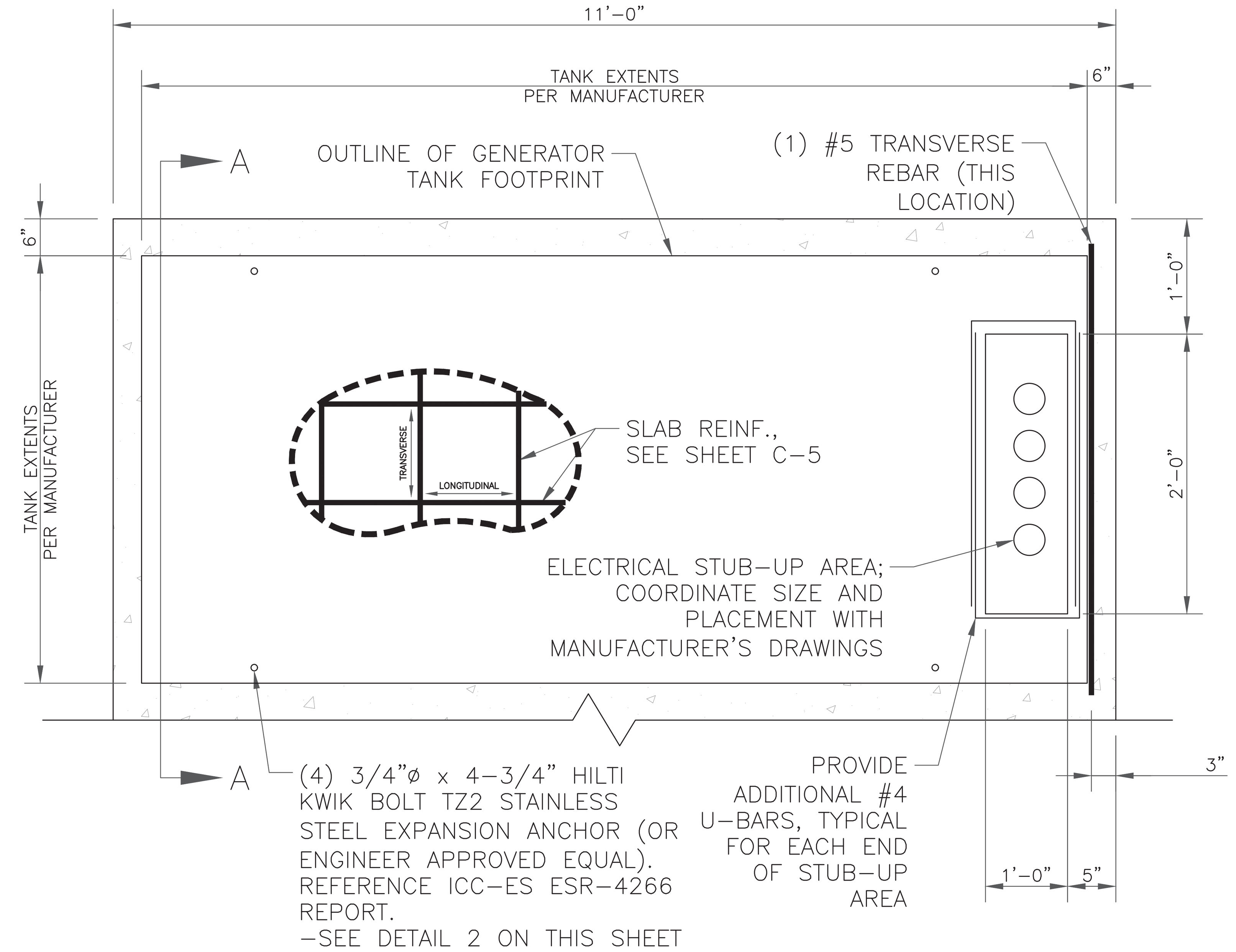
SHEET NUMBER: C-7

REVISION: 1

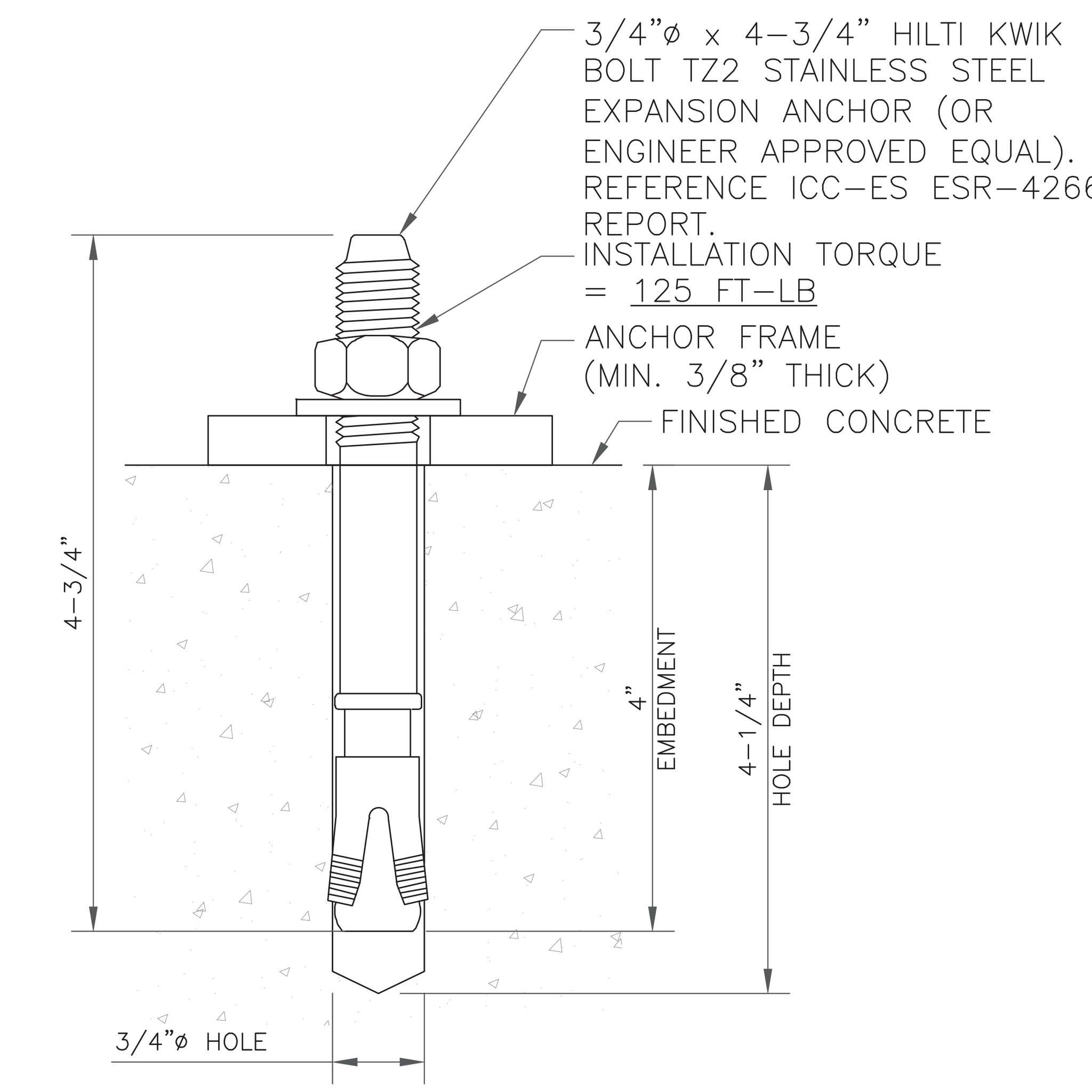
GENERAL NOTES:

1. FLEXIBLE UTILITY CONNECTIONS SHOULD BE USED AT UNDERGROUND TO GENERATOR INTERACTIONS.
2. INSTALL EQUIPMENT ANCHORAGE PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.
3. THE ATTACHMENT OF THE GENERATOR TO THE FOUNDATION SLAB AND THE FOUNDATION ITSELF ARE DESIGNED TO RESIST A 3 SECOND GUST WIND SPEED OF 143 MPH (ULTIMATE WIND SPEED).
4. ELECTRICAL STUB-UP AREA WILL BE DETERMINED BY GENERATOR ORIENTATION.

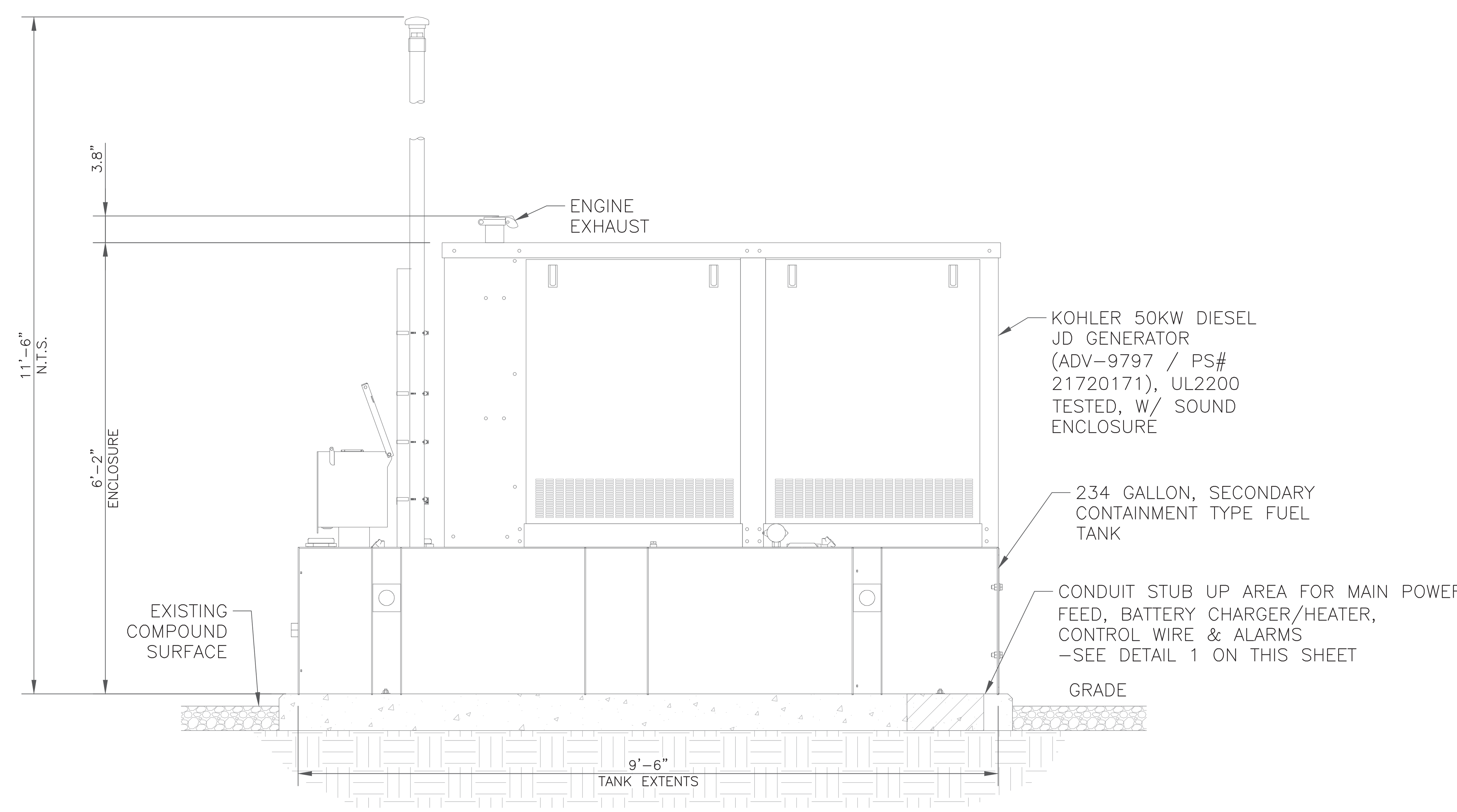
INSTALLER NOTE:
CONUIT STUB UP LOCATIONS SHALL BE COORDINATED ON SITE WITH CONSTRUCTION MANAGER, PRIOR TO INSTALLING CONCRETE PAD.



1 GENERATOR PAD DETAIL
SCALE: NOT TO SCALE



2 TYPICAL ANCHOR DETAIL
SCALE: NOT TO SCALE



3 ELEVATION VIEW
SCALE: NOT TO SCALE

NOTES

1. SEE GENERATOR MANUFACTURE'S DRAWINGS FOR PHYSICAL LOCATION OF FUEL LINES, CONTROL AND POWER INTERCONNECTIONS AND OTHER INTERFACES THAT ARE TO CAST INTO THE CONCRETE. THE PREFERRED METHOD IS TO BRING THE CONDUIT THROUGH THE PAD TO THE UNDERSIDE OF THE GENERATOR (MINIMIZES RODENT DAMAGE). FINISH CONNECTIONS WITH FLEXIBLE CONDUIT PER GENERATOR MANUFACTURES SPECS. RIGID CONDUITS SHALL BE SECURED TO THE EXISTING SLAB, THEN BURIED BETWEEN SLAB AND SHELTER.
2. THE GENERATOR SHALL BE LOCATED A MIN 5' AWAY FROM A COMBUSTIBLE WALL.
3. THE GENERATOR SHALL BE LOCATED A MIN OF 3' AWAY FROM A NON-COMBUSTIBLE WALL.

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VERIZON SITE NUMBER:
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BU #: **857528**
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

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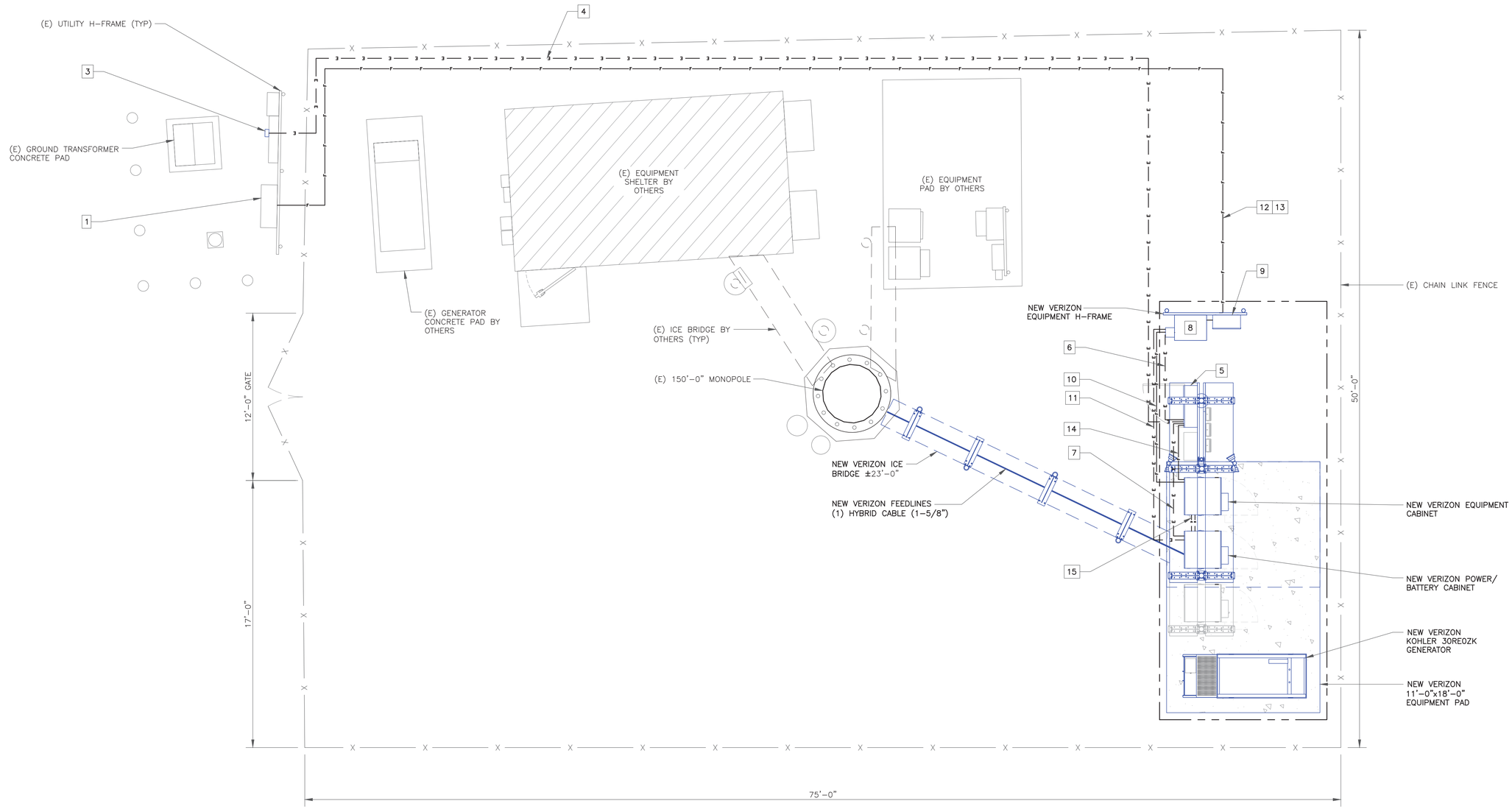
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

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

SHEET NUMBER:	REVISION:
C-8	1

CODED DRAWING NOTES:

1. EXISTING FIBER BOX
2. NOT USED
3. NEW METER WITH 200A MAIN BREAKER IN EXISTING EMPTY METER SOCKET ON UTILITY H–FRAME TO BE UTILIZED BY VERIZON
4. 3" SCH 40 PVC CONDUIT FOR ELECTRIC FROM SERVICE DISCONNECT (OCPD) TO ILC ON EQUIPMENT PAD H–FRAME (101'±)
5. INTEGRATED LOAD CENTER (ILC) – 200AMP/ 120/240 VAC MOUNTED ON EQUIPMENT PAD H–FRAME (ILC COMES EQUIPPED WITH (2) MAIN BREAKERS ONLY – G.C. SHALL PROVIDE ALL MISCELLANEOUS BREAKERS)
6. 2" SCH 40 PVC CONDUIT FOR ELECTRIC FROM (ILC) TO CUBE (9'±)
7. (1) 3" SCH 40 PVC CONDUIT FROM ILC TO EQUIPMENT & POWER CABINETS (13'±)
8. CHARLES UNIVERSAL BROADBAND ENCLOSURE (CUBE)
9. 24" x 24" x 12" NEMA 3R FIBER BOX W/ RUBBER SEAL & LOCKING KNOB ENTRY LATCH
10. 2" SCH 40 PVC CONDUIT FOR FIBER / ALARM CABLES FROM CUBE TO EQUIPMENT CABINET ON EQUIPMENT PAD (20'±)
11. 2" SCH 40 PVC CONDUIT FOR –48VDC ELECTRIC FROM CUBE TO EQUIPMENT & POWER CABINET (20'±)
12. NEW FIBER FROM EXISTING SOURCE IN HAND HOLE (FIELD VERIFY ROUTE)
13. (2) 4" SCH 40 PVC CONDUITS – BOTH WITH (3) 1–1/4" SMOOTH WALL INNERDUCTS W/ PULL STRING & TRACER WIRE (#12 AWG STRANDED W/ ORANGE JACKET) FROM EXISTING UTILITY POLE TO NEW CHARLES UNIVERSAL BROADBAND ENCLOSURE (CUBE) (PENDING ROUTE BY OTHERS)
14. (1) 1" SCH 40 PVC CONDUIT FOR ALARMS FROM EQUIPMENT CABINET TO ILC (10'±).
15. (3) 3" SCH 40 PVC CONDUITS FOR POWER BETWEEN CABINETS (2'±).



1 UTILITY PLAN
SCALE: 4' 3' 2' 1' 0 4' — 1/4"=1'–0" (FULL SIZE) 1/8"=1'–0" (11x17)

N

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VERIZON SITE NUMBER:
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BU #: **857528**
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
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EXISTING 150'-0" MONOPOLE

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STATE OF CONNECTICUT
GREGORY A. CHASE
No. 23924
LICENSED
PROFESSIONAL ENGINEER
9/29/22

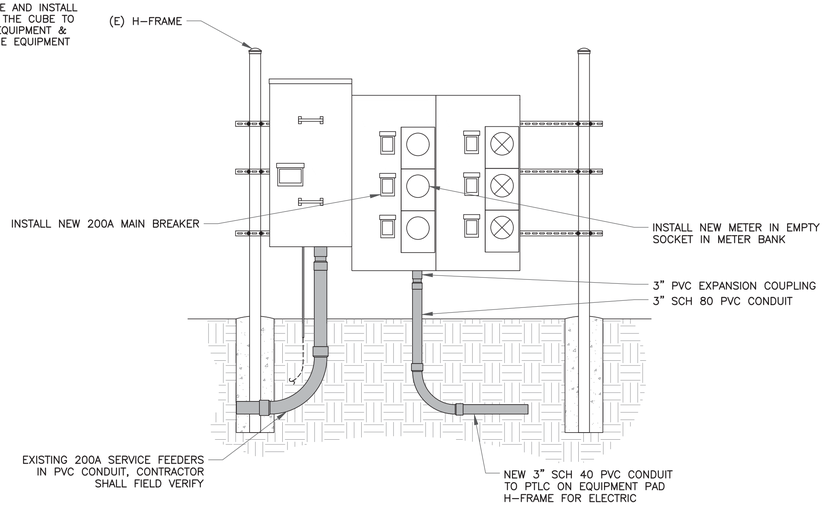
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: E-1

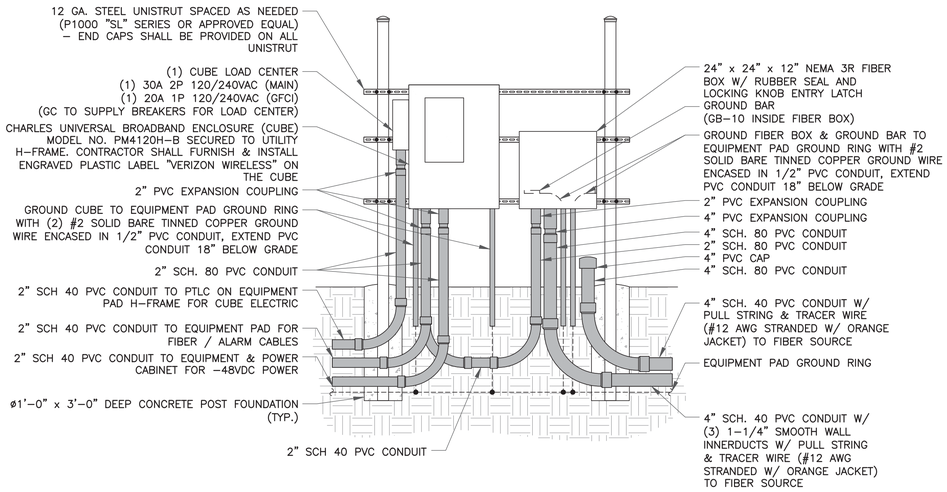
REVISION: 1

NOTES:

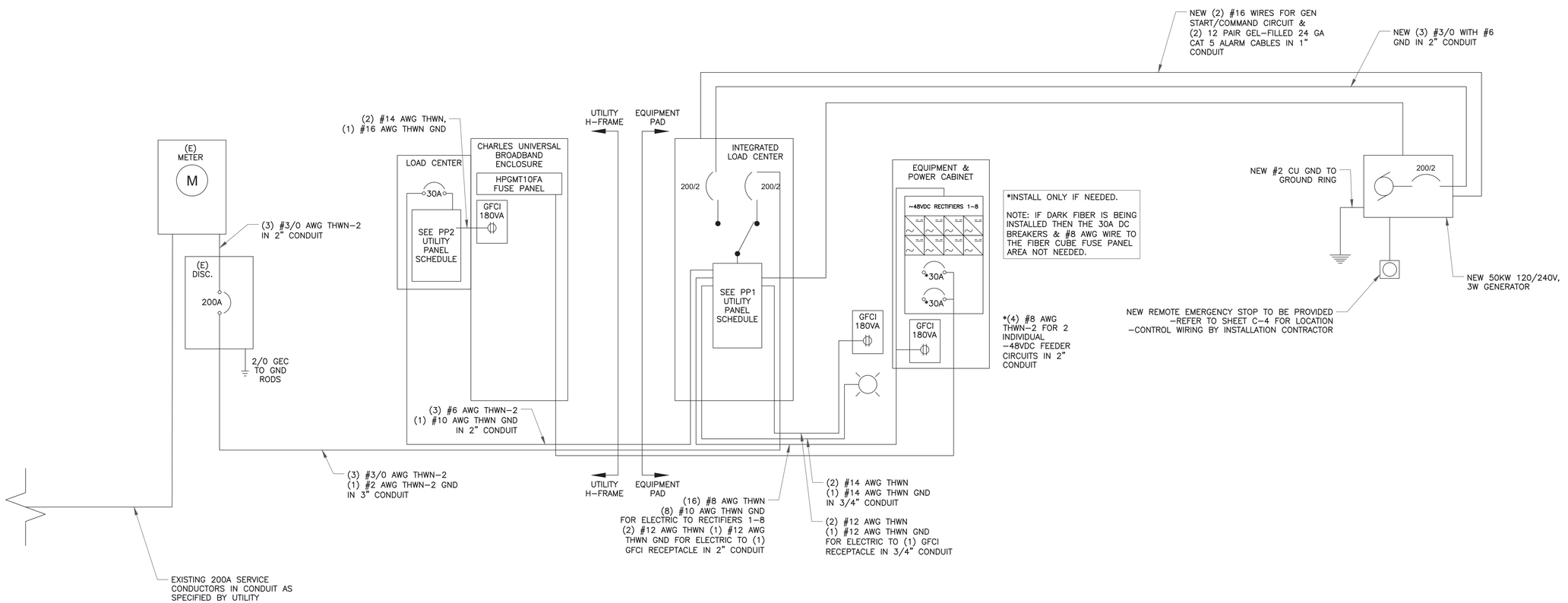
1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 25–PAIR ALARM CABLE FROM THE CUBE TO THE ALARM PANEL INSIDE THE EQUIPMENT & POWER CABINET LOCATED ON THE EQUIPMENT PAD.



1 EXISTING H–FRAME DETAIL
SCALE: NOT TO SCALE



2 CUBE/FIBER H–FRAME DETAIL
SCALE: NOT TO SCALE



3 ONE LINE DIAGRAM – PERMANENT POWER
SCALE: NOT TO SCALE

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WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
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EXISTING 150'-0" MONOPOLE

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MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: E-2

REVISION: 1

SITE NAME:		HI-TECH-MCLIZ5				MODEL NUMBER:	TBD							
VOLTAGE:		240V/120				PHASE:	1		WIRE:		3			
MAIN BREAKER:		200A				BUSS RATING:	200 AMPS		AIC:		22K			
MOUNT:		SURFACE				NEUTRAL BAR:	YES		GROUND BAR:		YES			
ENCLOSURE TYPE:		NEMA 3R				N to GROUND BOND:	NO							
PANEL STATUS:		PROPOSED				SPD:	YES							

CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	RECTIFIER #1	30	2	ON	1000	1.25	2500		1.25	1000	ON	2	30	RECTIFIER 5	2
3					1000	1.25		2500	1.25	1000					4
5	RECTIFIER #3	30	2	ON	1000	1.25	2500		1.25	1000	ON	2	30	RECTIFIER 6	6
7					1000	1.25		2500	1.25	1000					8
9	RECTIFIER #5	30	2	ON	1000	1.25	2500		1.25	1000	ON	2	30	RECTIFIER 7	10
11					1000	1.25		2500	1.25	1000					12
13	RECTIFIER #7	30	2	ON	1000	1.25	2500		1.25	1000	ON	2	30	RECTIFIER 8	14
19					1000	1.25		2500	1.25	1000					16
21	GFCI RECEPTACLE	20	1	ON	180	1.00	360		1.00	180	ON	2	30	PP2 CUBE LOAD CENTER	18
19	GFCI RECEPTACLE	20	1	ON	180	1.00		360	1.00	180					20
21	GFCI RECEPTACLE	20	1	ON	180	1.00	180		1.00	0	N/A	---	---	SPACE	22
23	LED LIGHTS	15	1	ON	400	1.25		500	1.00	0	N/A	---	---	SPACE	24
25	SPACE	---	---	N/A	0	1.00	0		1.00	0	N/A	---	---	SPACE	26
27	SPACE	---	---	N/A	0	1.00		0	1.00	0	N/A	---	---	SPACE	28
29	SPACE	---	---	N/A	0	1.00	0		1.00	0	N/A	---	---	SPACE	30
31	SPACE	---	---	N/A	0	1.00		0	1.00	0	N/A	---	---	SPACE	32
33	SPACE	---	---	N/A	0	1.00	0		1.00	0	N/A	---	---	SPACE	34
35	SPACE	---	---	N/A	0	1.00		0	1.00	0	N/A	---	---	SPACE	36
37	SPACE	---	---	N/A	0	1.00	0		1.00	0	N/A	---	---	SPACE	38
39	SPACE	---	---	N/A	0	1.00		0	1.00	0	N/A	---	---	SPACE	40
41	SPACE	---	---	N/A	0	1.00	0		1.00	0	N/A	---	---	SPACE	42
							10540	10860	VA			TOTAL KVA	21.40		
												AMPS	89.17		

NOTES:

ILC COMES EQUIPPED WITH (2) MAIN BREAKERS ONLY. GC SHALL PROVIDE ALL MICELLANEOUS BREAKERS.

PP2 CUBE LOAD CENTER — **30A, 120/240V 1Ø3W, 60HZ**

CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	USAGE FACTOR	PHASE A VA	PHASE B VA
1	GFCI RECEPTACLE	20	1	ON	180	1.00	180	
2	GFCI RECEPTACLE	20	1	ON	180	1.00		180
3	---	---	---	---	0	1.00	0	
4	---	---	---	---	0	1.00		0
5	---	---	---	---	0	1.00	0	
6	---	---	---	---	0	1.00		0
							180	180
							TOTAL KVA	0.36
							AMPS	1.50

NOTES:

1 PANEL SCHEDULE
SCALE: NOT TO SCALE

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EXISTING 150'-0" MONOPOLE

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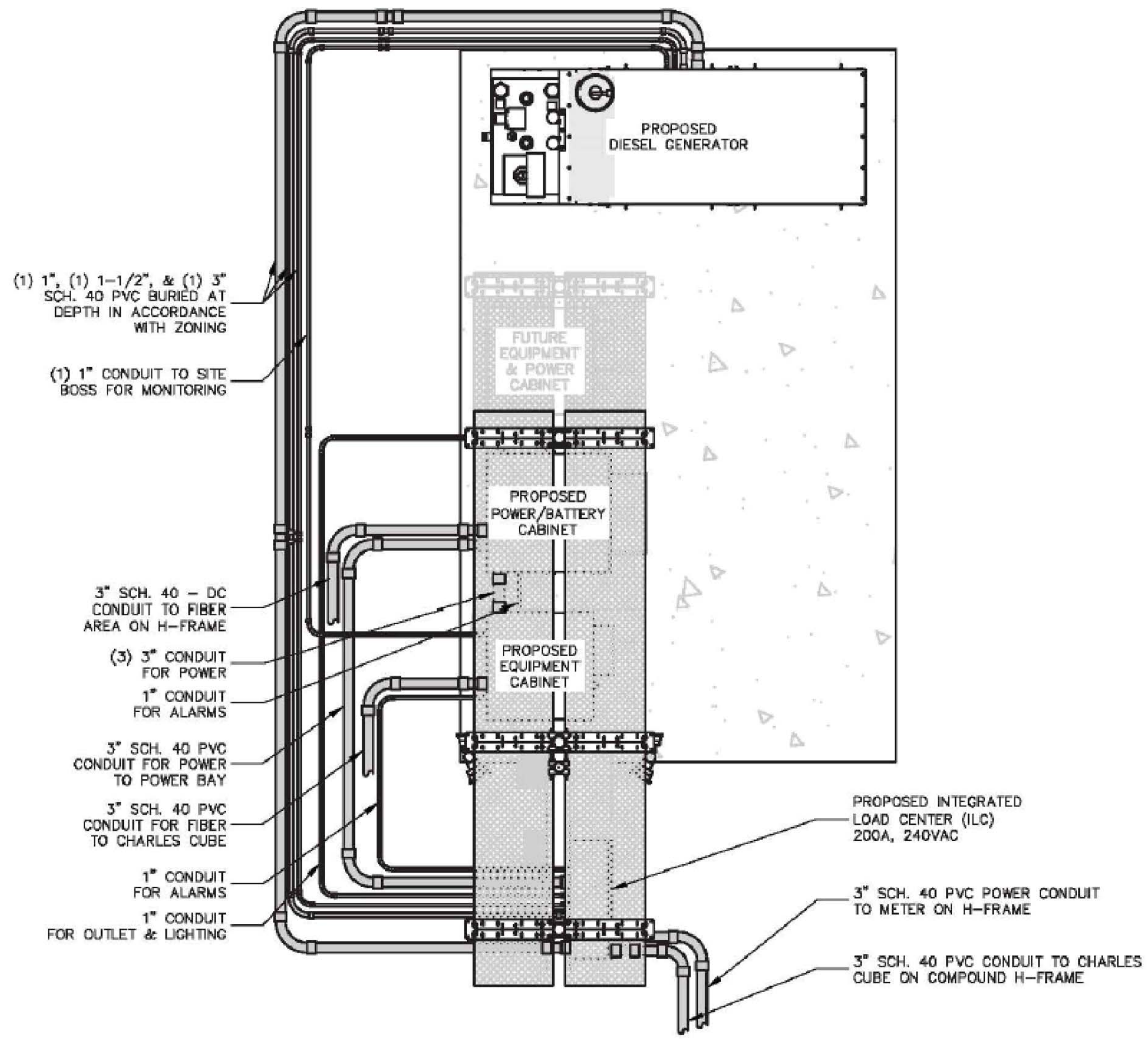
STATE OF CONNECTICUT — GREGORY A. CHASE — No. 23924 — LICENSED PROFESSIONAL ENGINEER
9/29/22

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: E-3

REVISION: 1



NOTE:

CONDUIT RUNS MAY BE EXAGGERATED FOR CLARITY.

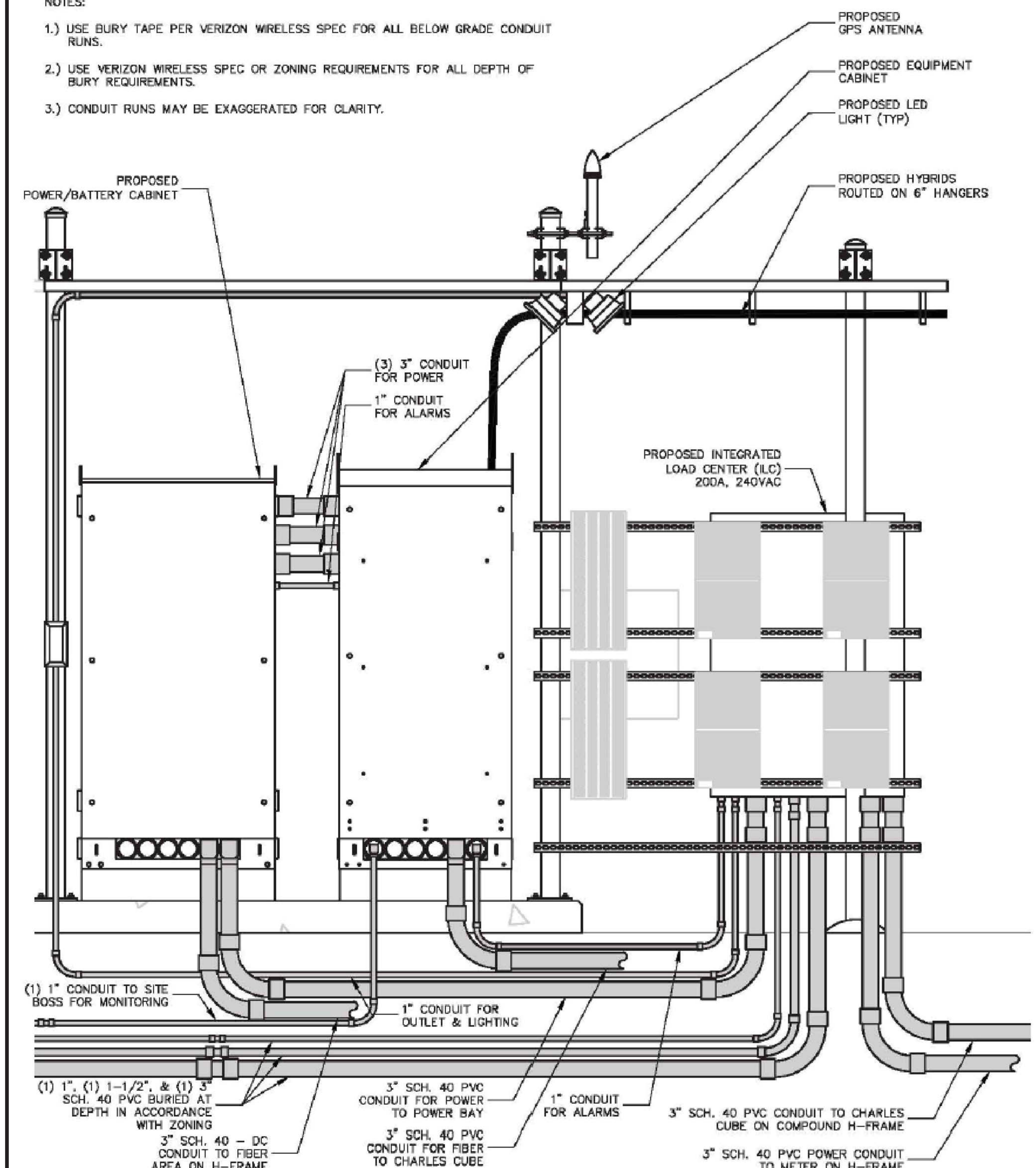
1 CONDUIT PLAN
SCALE: NOT TO SCALE

NOTES:

1.) USE BURY TAPE PER VERIZON WIRELESS SPEC FOR ALL BELOW GRADE CONDUIT RUNS.

2.) USE VERIZON WIRELESS SPEC OR ZONING REQUIREMENTS FOR ALL DEPTH OF BURY REQUIREMENTS.

3.) CONDUIT RUNS MAY BE EXAGGERATED FOR CLARITY.



2 H-FRAME DETAIL
SCALE: NOT TO SCALE

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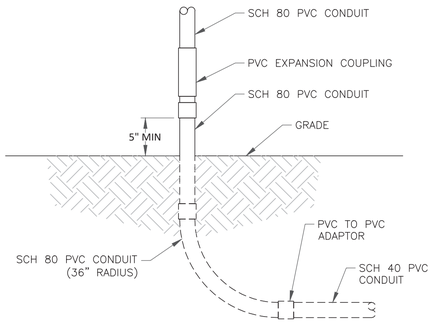
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

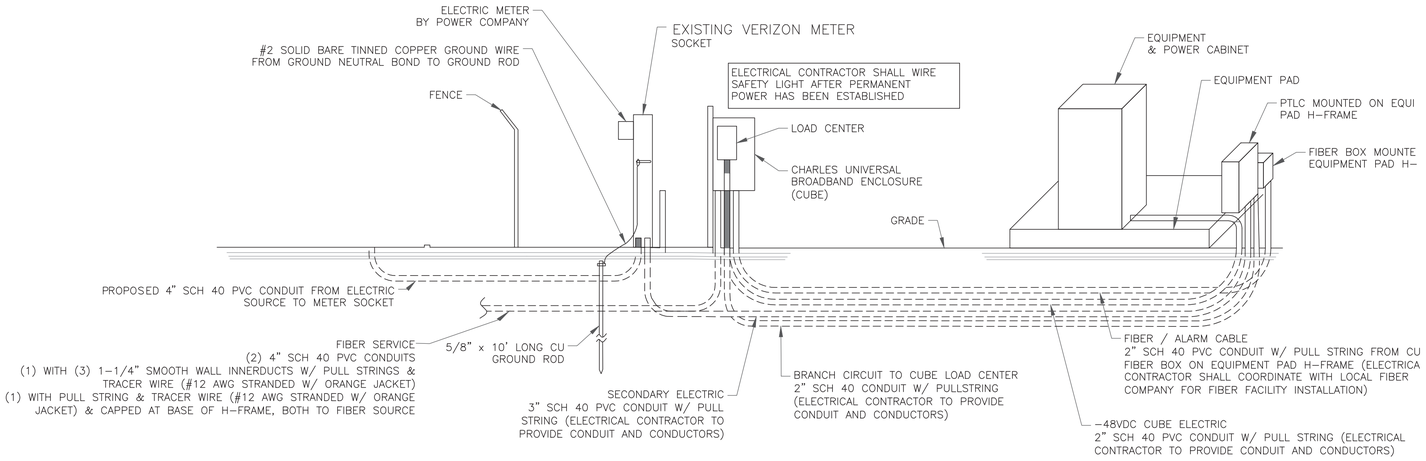
SHEET NUMBER: E-4
REVISION: 1

NOTES:

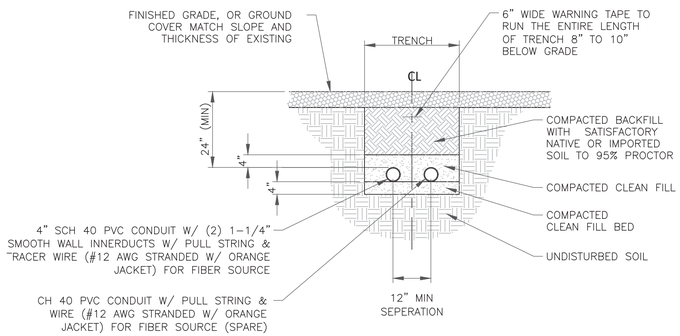
1. SEE E-1 SHEET FOR CONDUIT SIZES
2. ALL PVC CONDUITS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE SHALL HAVE EXPANSION COUPLINGS INSTALLED.



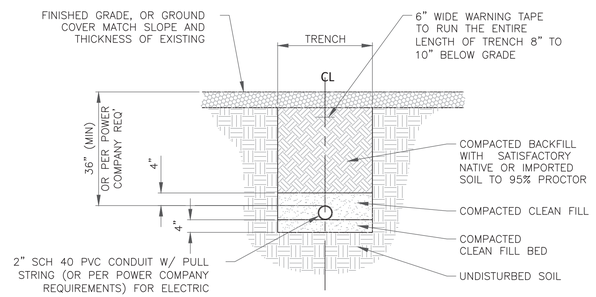
1 UNDERGROUND CONDUIT STUB-UP DETAIL
SCALE: NOT TO SCALE



2 TYPICAL ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE



3 FIBER TRENCH DETAIL (SOURCE)
SCALE: NOT TO SCALE



4 ELECRIC TRENCH DETAIL (SOURCE)
SCALE: NOT TO SCALE

UTILITY TRENCH NOTES:

1. CONDUIT SIZE, TYPE, QUANTITY, AND SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY.
2. ALL UTILITY TRENCHES WITHIN THE FENCED COMPOUND OR UNDER ANY POR OF A GRAVEL DRIVE AND/OR ROADWAY SHALL BE BACKFILLED WITH #57 COMPACTED AGGREGATE.
3. ALL CONDUITS SHALL BE INSTALLED WITH A PULL STRING.
4. ALL CONDUITS THAT ARE TO BE USED FOR FIBER/ALARM SHALL BE INSTALL WITH A TRACER WIRE (#12 AWG STRANDED W/ ORANGE JACKET).
5. ALL CONDUITS SHALL BE CLEAN INSIDE WITH NO DIRT OR ANY OTHER OBSTRUCTIONS.
6. ALL BENDS MUST SWEEP 36" RADIUS AND MAXIMUM OF 3 SWEEPS. ANY ADDITIONAL SWEEPS MUST BE APPROVED BY THE POWER COMPANY.
7. THE CONTRACTOR SHALL VERIFY AND FOLLOW THE POWER COMPANY SPECIFICATIONS FOR INSTALLATIONS INVOLVING PAD MOUNTED TRANSFORMERS UTILITY POLE, ETC...

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SUITE 300
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VERIZON SITE NUMBER:
720892

BU #: **857528**
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	7/25/22	GAC	PRELIMINARY REVIEW	CV
B	8/9/22	ANP	PRELIMINARY REVIEW	CV
0	9/26/22	MEH	CONSTRUCTION	LR
1	9/29/22	GAC	CONSTRUCTION	LR

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SHEET NUMBER: E-5

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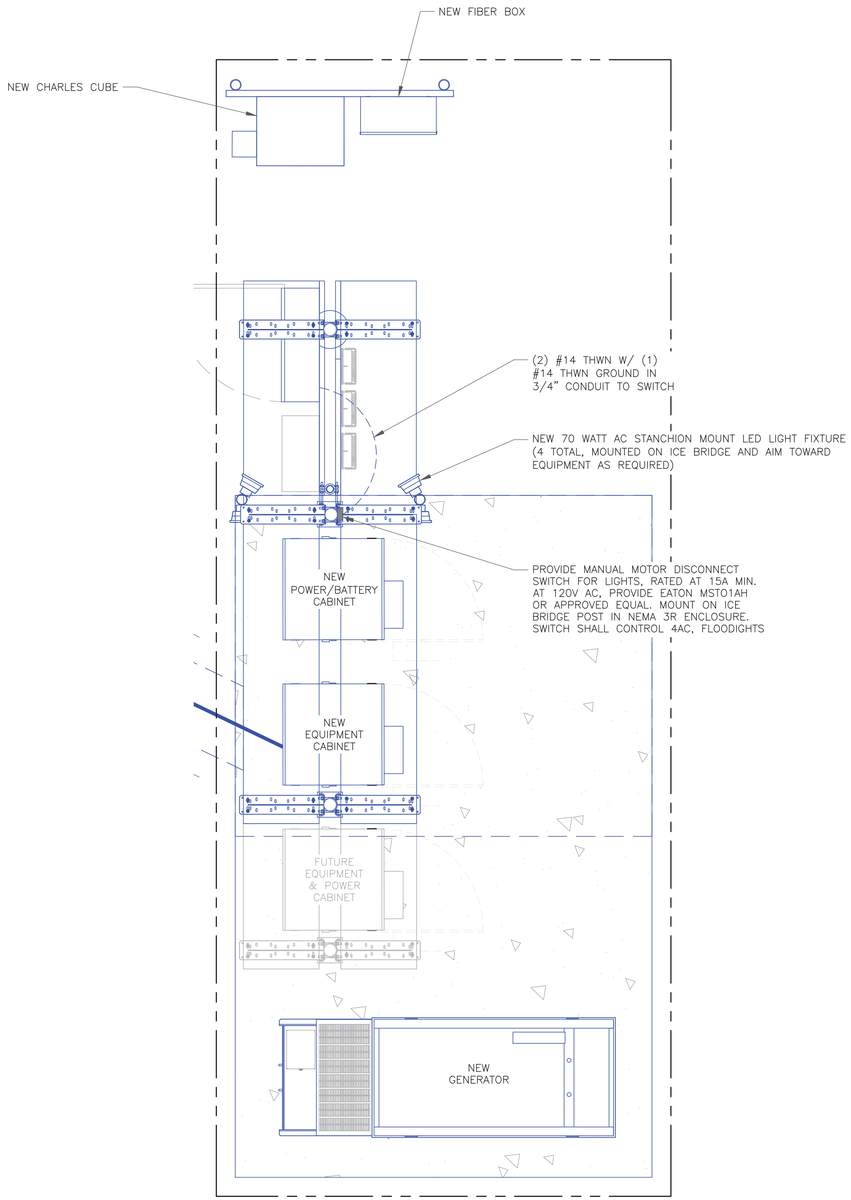

1 EQUIPMENT PAD LIGHTING PLAN
SCALE: NOT TO SCALE

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STATE OF CONNECTICUT
GREG A. CHASE
No. 23924
LICENSED PROFESSIONAL ENGINEER
9/29/22

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SHEET NUMBER: E-6

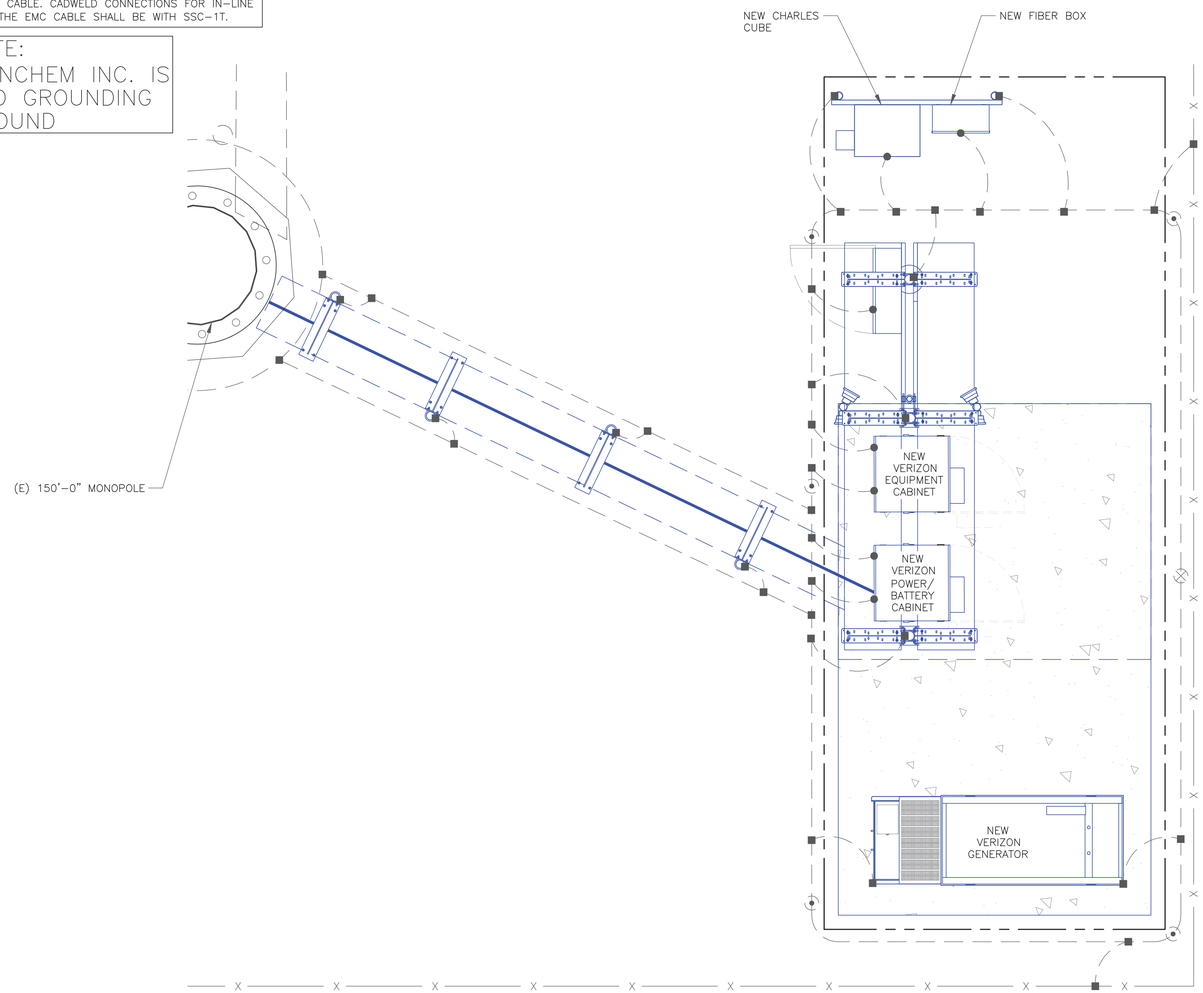
REVISION: 1

NOTES:

1. PROVIDE "ELECTRIC MOTION" TAMPER RESISTANT BUS BARS AT BULKHEAD AND ABOVE THE TURN AT THE ICE BRIDGE. UTILITY H-FRAME BUS BAR (IF REQUIRED) WILL BE AN ELECTRIC MOTION TINNED COPPER BUS BAR ON RED SEAL INSULATORS & STAINLESS STEEL BRACKET. COAT WITH ELECTRIC MOTION ANTI-THEFT COMPOUND.
2. CONTACT CONSTRUCTION MANAGER PRIOR TO BACKFILLING GROUNDING INSTALLATION.
3. ALL EXPOSED GROUND LEADS NEED TO USE EMC MODEL #2223-TMC THEFT-RESISTANT CABLE FROM 18" BELOW GRADE TO THE FINAL TERMINATION POINT. VERIFY ALL GROUND LEADS ARE VERTICAL AS THEY ENTER THE GROUND.
4. ALL BELOW GRADE GROUND LEADS ARE REQUIRED TO BE SEALED USING SEALTITE TO 18" BELOW GRADE. SEALTITE SHOULD EXTEND AS CLOSE AS POSSIBLE TO THE FINAL TERMINATION POINT AND FILL OPENINGS WITH SILICONE CAULKING.
5. ALL GROUND LEVEL BUS BARS NEED TO USE ANTI-THEFT MOUNTING HARDWARE.

NOTE: FOR ALL ABOVE GRADE CONNECTIONS TO TOWER, ICE BRIDGE, UTILITY H-FRAME, FENCE POSTS, GATE POSTS, GENERATORS, ETC... ALL OF THESE EXPOSED PIGTAILS SHALL BE WITH EMC MODEL #2223-TMC THEFT RESISTANT CABLE. THESE PIGTAILS SHALL THEN HAVE THE SHIELDS STRIPPED BACK AND CADWELDED TO THE TOWER AND EQUIPMENT PAD GROUND RING. ON LONG BELOW GRADE RUNS ONLY, THE ABOVE GROUND PORTIONS (FROM 18" BELOW GRADE UP TO ABOVE GRADE) SHALL BE IN THE EMC THEFT RESISTANT CABLE. CADWELD CONNECTIONS FOR IN-LINE BUT SPLICE FROM #2 TO THE EMC CABLE SHALL BE WITH SSC-1T.

NOTE:
"NO-OX-ID" SANCHEM INC. IS THE APPROVED GROUNDING COMPOUND



1 SITE PLAN
SCALE: 2' 1' 0 2' 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)

N

NOTE: SEE SHEETS G-2 THROUGH G-3 FOR GROUNDING DETAILS

NOTE: ACTUAL RESISTANCE MUST BE MEASURED PRIOR TO CONNECTION TO THE POWER GRID.

GROUNDING PLAN LEGEND:

- #2 SOLID BARE TINNED COPPER GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- COPPER GROUND ROD
- GROUND ROD W/ TEST WELL

NOTE TO CONTRACTOR:

ALL FENCE POSTS WITHIN 6' OF VERIZON GROUND EQUIPMENT MUST BE GROUNDED.

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9/29/22

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SHEET NUMBER: G-1

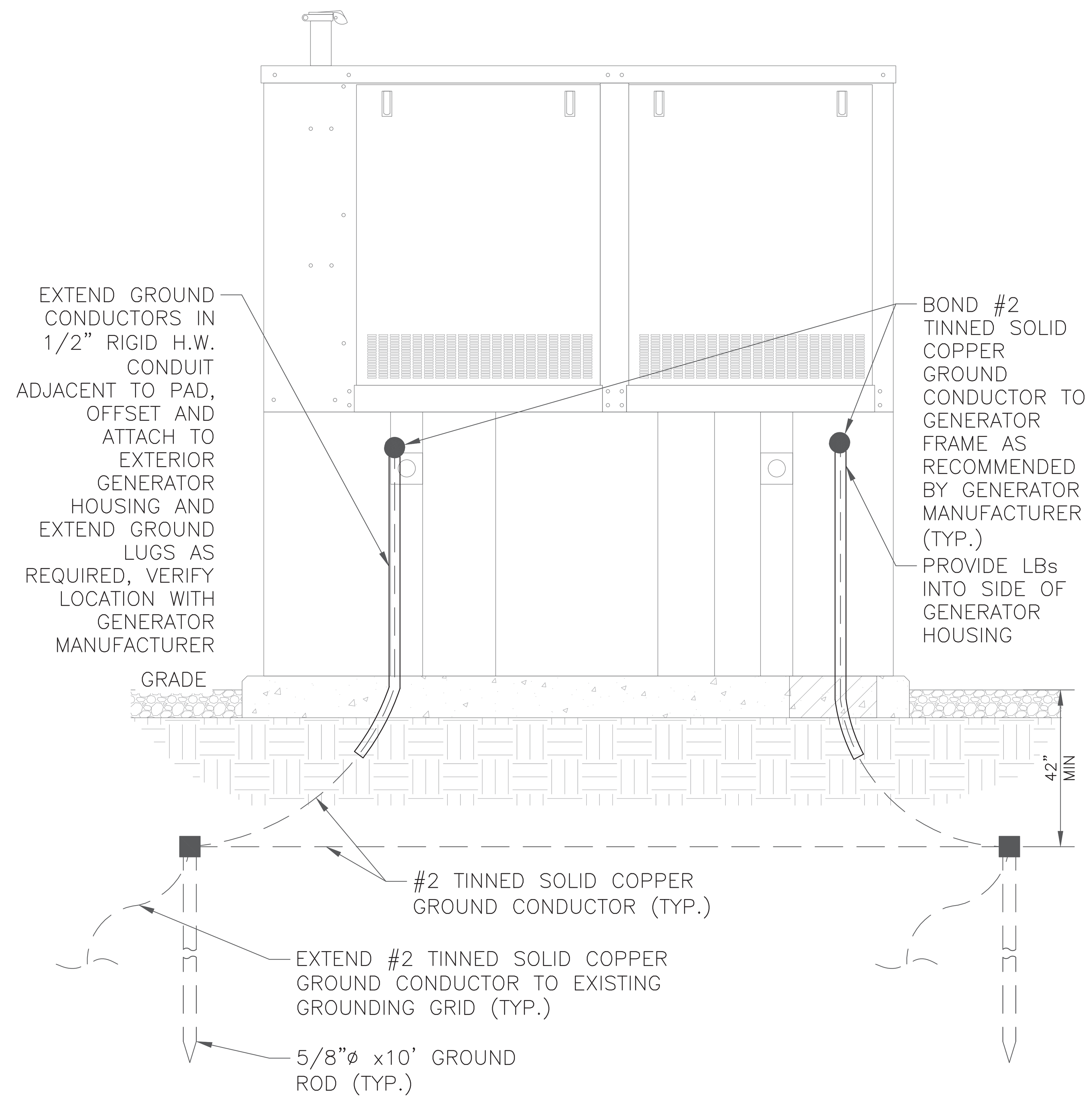
REVISION: 1

NOTES:

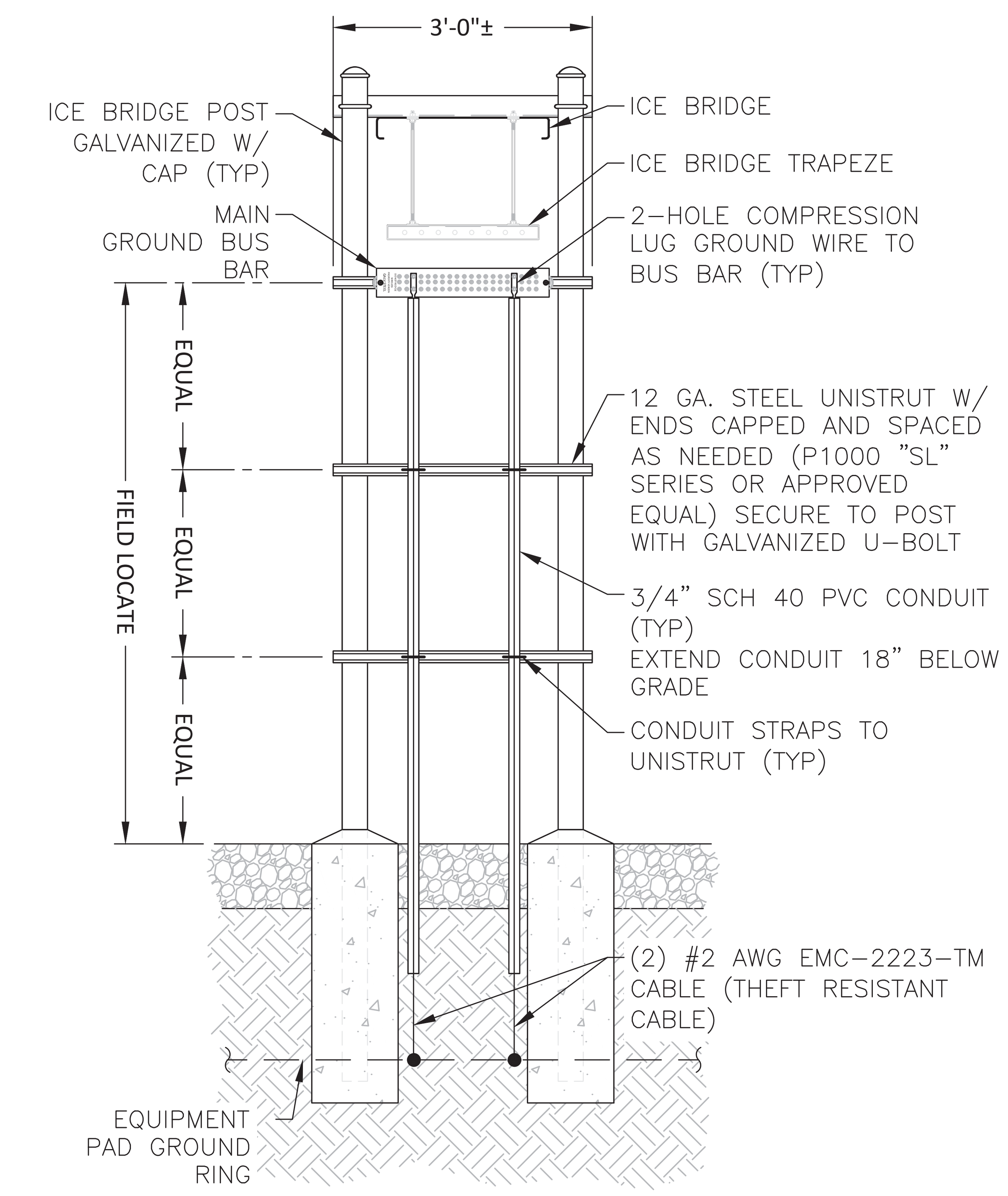
1. ALL GROUNDING LEADS TO FLOW CLOCKWISE
2. CONTACT CONSTRUCTION MANAGER PRIOR TO BACKFILLING GROUNDING INSTALLATION
3. MINIMUM 3 FOOT SPACING BETWEEN THE GROUND CONNECTIONS TO THE MAIN TOWER GROUND RING
4. UFER GROUNDING IS REQUIRED FOR ALL CORNERS OF THE EQUIPMENT PAD USING #2 SOLID BARE TINNED COPPER GROUND WIRE, MECHANICAL GROUND WITH (2) DIRECT BURY GROUND CLAMPS (NSI GROUND CLAMP HD1" OR EQUIVALENT) TO REBAR AND CADWELD TO EQUIPMENT PLATFORM GROUND RING, SEE 'CONCRETE-ENCASED ELECTRODE DETAIL' BELOW.
5. IF GROUND RODS ARE REFUSED, UTILIZE THOMPSON LIGHTNING PROTECTION GROUNDING PLATE NO. 233M AS APPLICABLE.
6. ALL CONNECTIONS TO EQUIPMENT SHALL BE HYPRESS LUGS WITH LONG BARREL.
7. UTILIZE SANCHEM NO-OX-ID GROUNDING COMPOUND.
8. ALL NON LIKE METALS NEED DRAGON TOOTH WASHERS AND BELLEVILLE WASHERS.
9. ANTI-THEFT MOUNTING HARDWARE IS STILL REQUIRED FOR GROUNDING BARS.
10. ALL ABOVE GRADE GROUND WIRES SHOULD BE SEALED WITH SEAL-TITE.

LEGEND

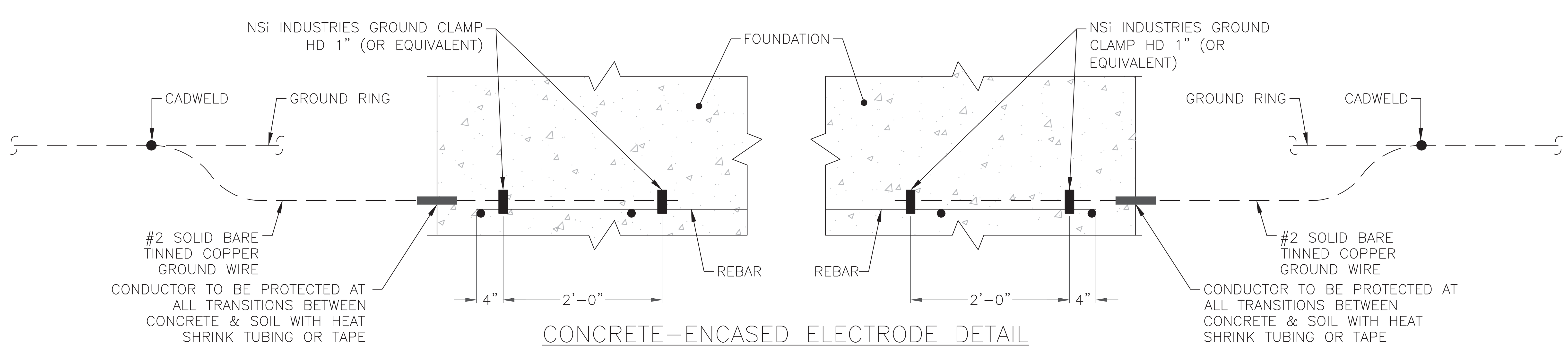
- #2 SOLID BARE TINNED COPPER GROUND WIRE
- GROUND ROD, SPACED AT 10' - 20' O.C. MAX, CADWELD CONNECTION TO GROUND ROD GTC-181T #90 CADWELD SHOT
- CADWELD CONNECTION: PCC-1T1T FOR #2 TO #2, #90 SHOT PARALLEL TYPE CONNECTION
- NSI INDUSTRIES GROUND CLAMP HD 1 (OR EQUIVALENT)



GENERATOR GROUNDING DETAIL
NOT TO SCALE



MAIN GROUND BUS BAR MOUNTING DETAIL
NOT TO SCALE



CONCRETE-ENCASED ELECTRODE DETAIL
NOT TO SCALE

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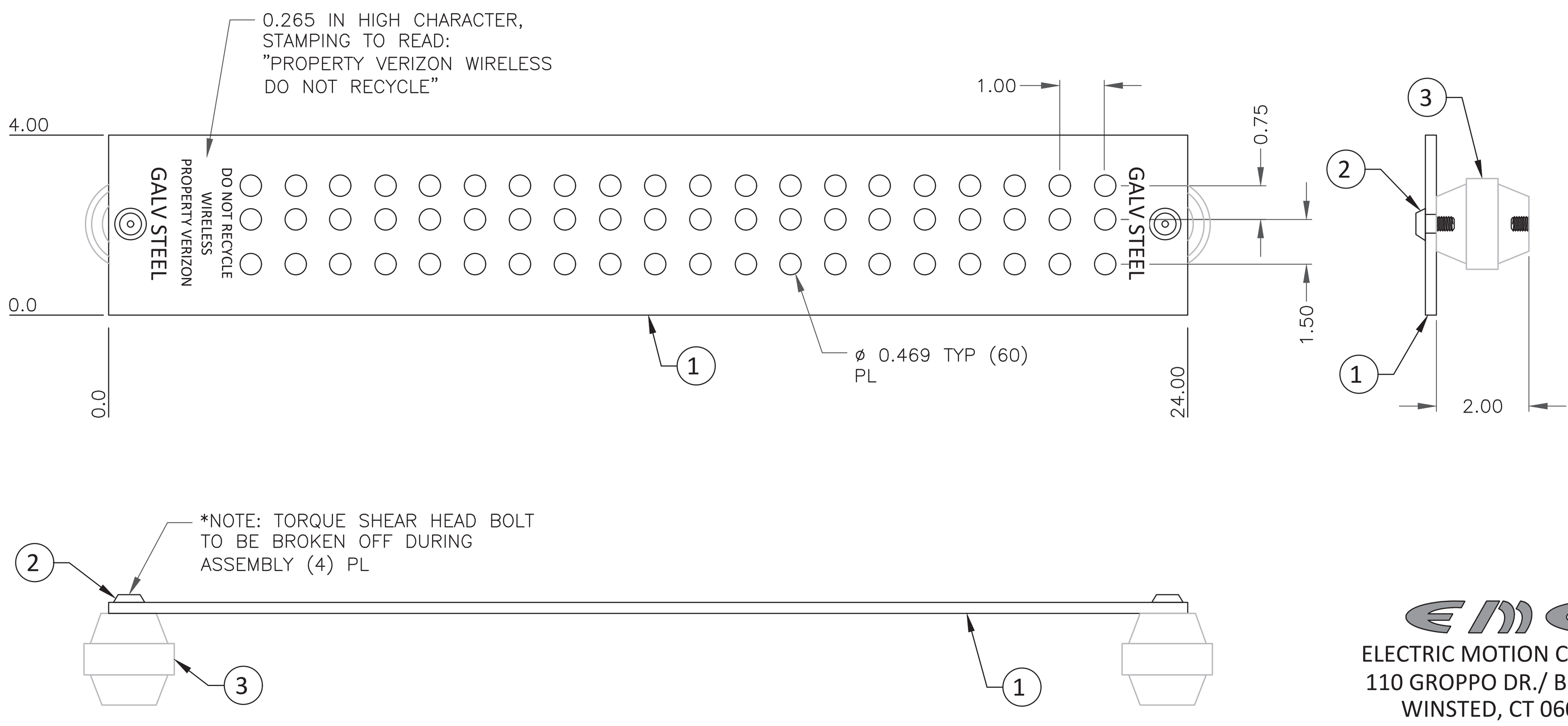
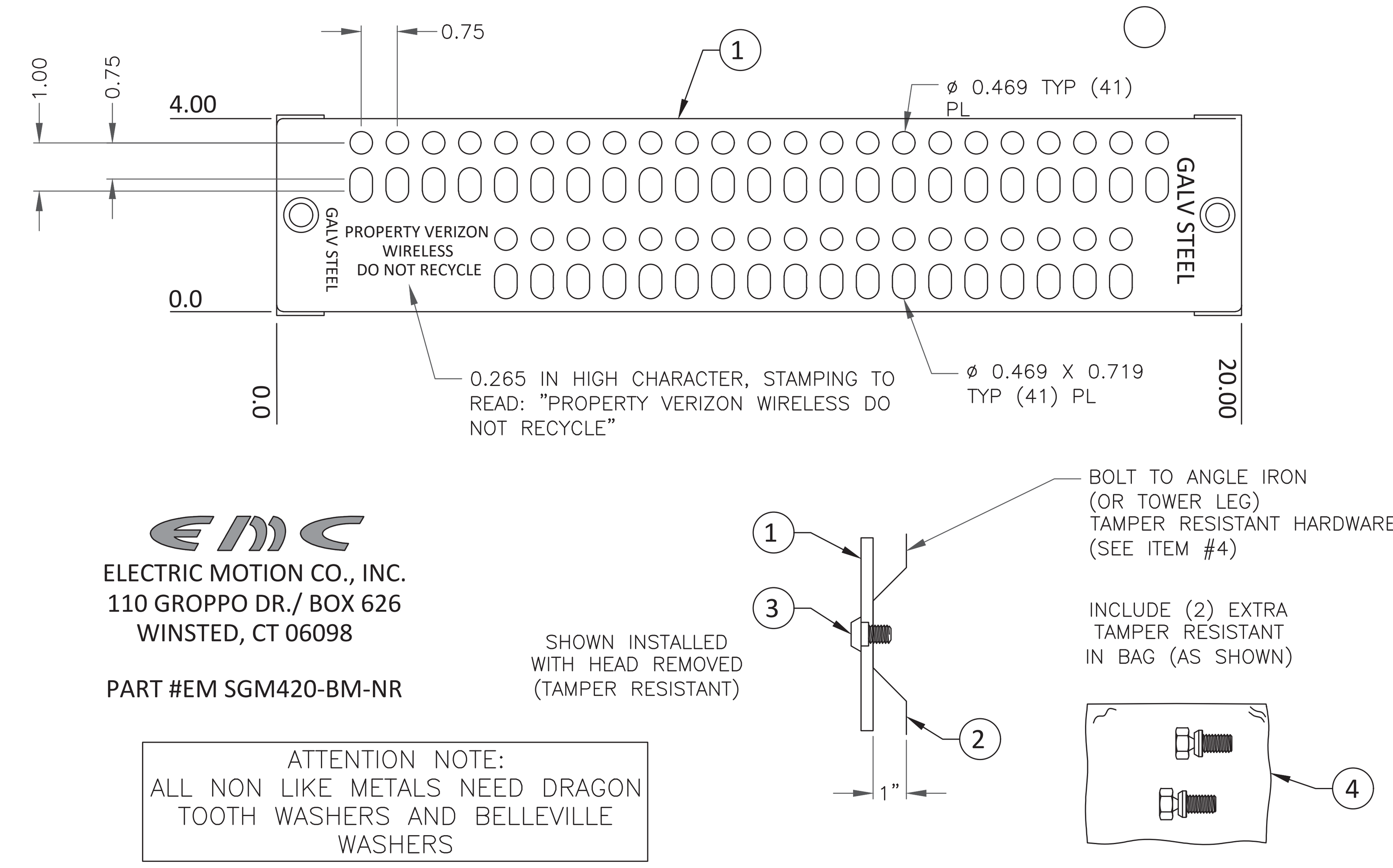
SHEET NUMBER:	REVISION:
G-2	1



ELECTRIC MOTION CO., INC.
110 GROPPO DR./ BOX 626
WINSTED, CT 06098

ITEM	PART NO.	DESCRIPTION	REQ
3	03-009-0118-000	THREADED (3/8-16) INSULATORS, 2" DIA X 2" HEIGHT; FIBERGLASS	2
2	02-009-0633-000	3/8-16 X 5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRASEAL; STAINLESS STEEL	2
1	02-009-0662-000	GROUND BAR, GALVANIZED STEEL 1/4" X 4" X 24"	1

1 MAIN GROUND BUS BAR
SCALE: NOT TO SCALE



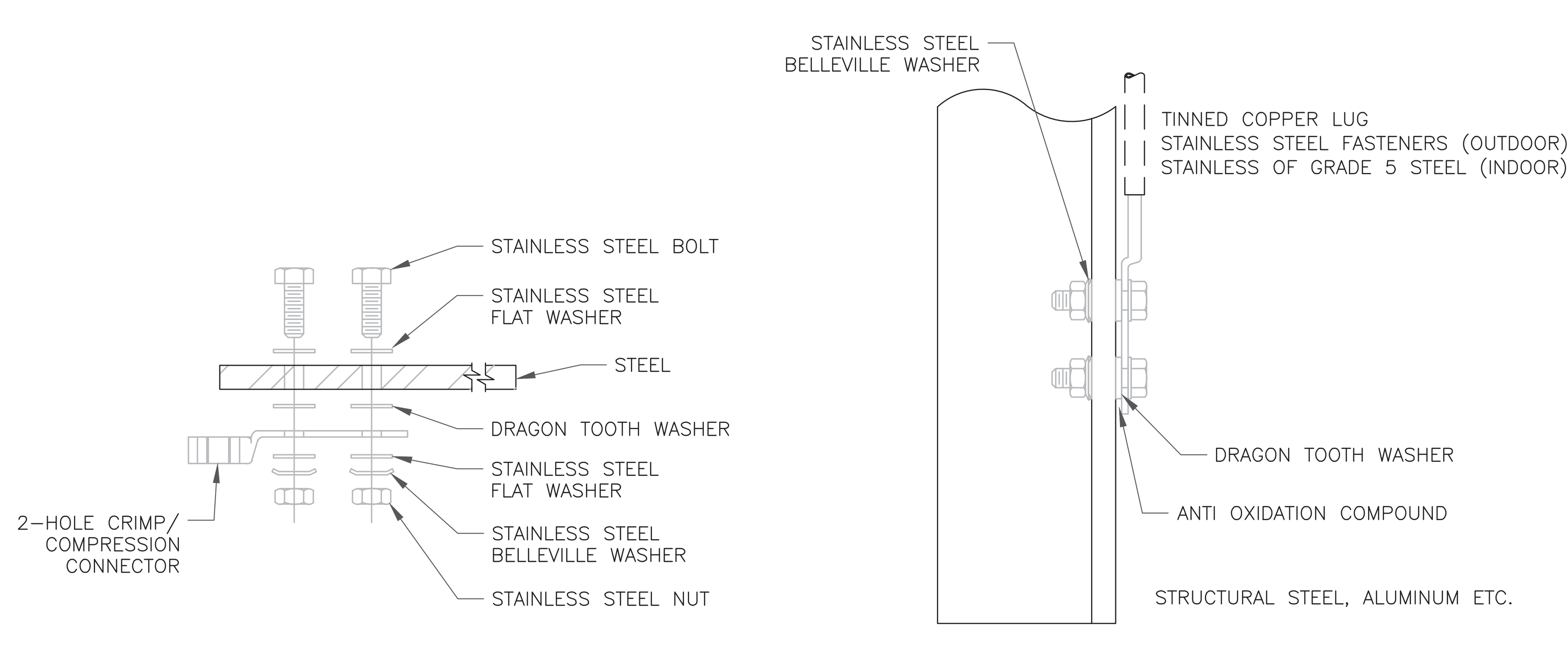
ELECTRIC MOTION CO., INC.
110 GROPPO DR./ BOX 626
WINSTED, CT 06098

PART #EM SGM420-BM-NR

ATTENTION NOTE:
ALL NON LIKE METALS NEED DRAGON TOOTH WASHERS AND BELLEVILLE WASHERS

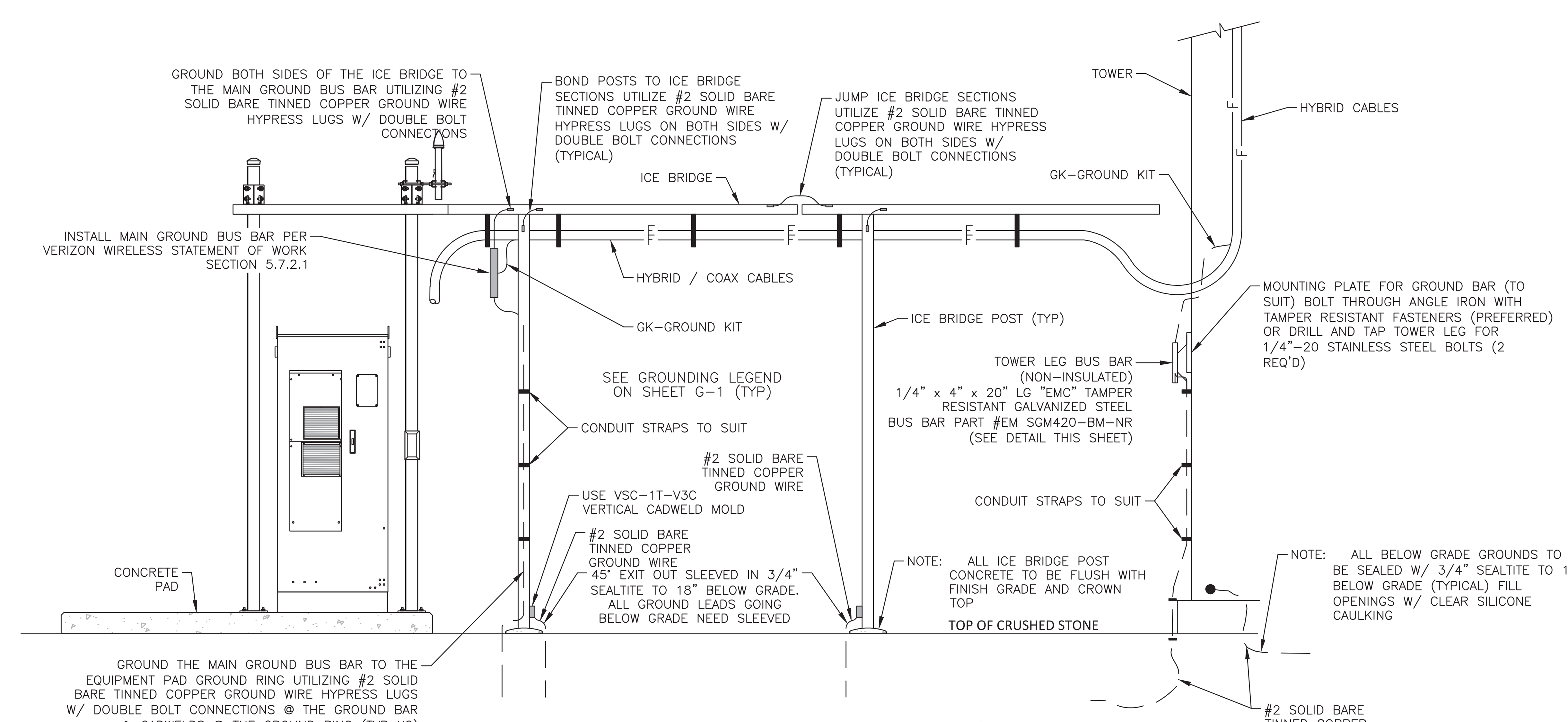
ITEM	PART NO.	DESCRIPTION	REQ
4	02-009-0663-000 (SUB-ASSEMBLY)	3/8-16 x 5/8" TORQUE SHEAR HEAD BOLT IN A STANDARD 4 x 6 BAG INCLUDES: (2) 3/8-16 x 5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRASEAL; STAINLESS STEEL (303) P/N 02-009-0603-000 (1) STANDARD 4" x 6" BAG (P/N 03-009-0209-00)	1
3	02-009-0633-000	3/8-16 x 5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRASEAL; STAINLESS STEEL (303)	2
2	02-009-0524-000	MOUNTING BRACKET; STAINLESS STEEL, 16 GA (.060) THICK	1
1	02-009-0672-000	20" GROUND BAR; STEEL; GALVANIZED	1

2 TOWER LEG BUS BAR (NON-INSULATED)
SCALE: NOT TO SCALE



INSTALLATION NOTES:
1. ALL OUTDOOR HARDWARE (I.E. BOLTS, SCREWS, NUTS, WASHERS) SHOULD BE 18-8 GRADE STAINLESS STEEL.
2. ALL INDOOR HARDWARE (I.E. BOLTS, SCREWS, NUTS, WASHERS) SHOULD BE GRADE 5 STEEL HARDWARE.
3. BOLT LENGTH SHOULD ALLOW THE EXPOSURE OF AT TWO THREADS.
4. BACK TO BACK LUG CONNECTIONS ARE AN ACCEPTABLE PRACTICE WHEN BONDING TO A GROUND BAR OR STEEL OBJECTS.
5. ANY CONNECTIONS MADE BETWEEN STEEL OR OTHER DISSIMILAR METALS REQUIRE THE USE OF A DRAGON TOOTH WASHER.
6. 'SINGLE CONNECTOR AT GROUND BARS' PERTAINS TO COPPER GROUND BARS ONLY!
7. GALVANIZED GROUND BARS AND OTHER STEEL OBJECTS (I.E. CABINETS, GENERATOR TANKS, ICE BRIDGE POSTS, ETC.) SHOULD FOLLOW THE 'SINGLE CONNECTOR AT STEEL OBJECTS' DETAIL.

3 STANDARD GROUNDING HARDWARE CONFIGURATION
SCALE: NOT TO SCALE



NOTE: ICE BRIDGE SHALL BE GROUNDED PER VERIZON WIRELESS STATEMENT OF WORK SECTION 5.7.2.1.

4 ICE BRIDGE GROUNDING DETAIL
SCALE: NOT TO SCALE

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WOODBURY PAPER MILL RD

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VZW GENERATOR RETROFIT ALARM LAYOUT 02/04/2010 GFH

New GEN PROG ALARM layout

Replaces existing alarm positions on BLK#2

All GEN PROG ALARMs on BLK#1 to remain the same

TB2

ROW	DESIGNATION	NOMENCLATURE	RELAY	CONTACT	WIRE COLOR	
1	GEN PROG ALARM J1	GEN OVERCRANK	1	1	W/BL	
2	GEN PROG ALARM J1	GEN OVERCRANK	1	2	BL/W	
3	GEN PROG ALARM J2	HIGH WATER TEMP	2	1	W/O	
4	GEN PROG ALARM J2	HIGH WATER TEMP	2	2	O/W	
5	GEN PROG ALARM J3	PRE-LOW OIL PRESSURE	3	1	W/GR	
6	GEN PROG ALARM J3	PRE-LOW OIL PRESSURE	3	2	GR/W	
7	GEN PROG ALARM J4	PRE-HIGH WATER TEMP	4	1	W/BR	
8	GEN PROG ALARM J4	PRE-HIGH WATER TEMP	4	2	BR/W	
9	GEN PROG ALARM J5	PRE-LOW FUEL	5	1	W/SL	
10	GEN PROG ALARM J5	PRE-LOW FUEL	5	2	SL/W	
11	GEN PROG ALARM J6	BATTERY CHARGER FAIL	6	1	R/BL	
12	GEN PROG ALARM J6	BATTERY CHARGER FAIL	6	2	BL/R	
13	GEN PROG ALARM J7	GEN RUN	7	1	R/O	
14	GEN PROG ALARM J7	GEN RUN	7	2	O/R	
15	GEN PROG ALARM J8	GEN NOT IN AUTO	8	1	R/GR	
16	GEN PROG ALARM J8	GEN NOT IN AUTO	8	2	GR/R	
17	GENERATOR SUMMARY ALARM	SUMMARY	9	C	R/BR	
18	GENERATOR SUMMARY ALARM	SUMMARY	9	NC	BR/R	
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35	SUB-PANEL AC POWER FAIL	EXT AC CKT SUB-PANEL	RELAY	NO	W/BL	TVSS ALARM CABLE
36	SUB-PANEL AC POWER FAIL	EXT AC CKT SUB-PANEL	RELAY	C	BL/W	
37	EXTERNAL AC CIRCUIT TVSS	LAE(TVSS3)	SA	NO	W/O	
38	EXTERNAL AC CIRCUIT TVSS	LAE(TVSS3)	SA	C	O/W	
39	GEN. FAIL COMMON (PROG RELAY	GPR2	GEN	NO	W/BL	CABLE 4A
40	GEN. FAIL COMMON (PROG RELAY	GPR2	GEN	C	BL/W	
41	CATCH BASIN (PROG RELAY #4)	GPR4	GEN	NO	W/O	
42	CATCH BASIN (PROG RELAY #4)	GPR4	GEN	C	O/W	
43	UTILITY POWER FAIL	PFA	ATS	NO	W/GR	
44	UTILITY POWER FAIL	PFA	ATS	C	GR/W	
45	ATS/UTILITY SURGE ARREST.	LAU (TVSS1)	ATS	NC	W/BR	
46	ATS/UTILITY SURGE ARREST.	LAU (TVSS1)	ATS	C	BR/W	
47	ATS/GEN SURGE ARREST.	LAG(TVSS2)	ATS	NC	W/SL	
48	ATS/GEN SURGE ARREST.	LAG(TVSS2)	ATS	C	SL/W	
49	ATS/ILC NOT IN AUTO	ATS/ILC	ILC	NC	R/BL	
50	ATS/ILC NOT IN AUTO	ATS/ILC	ILC	C	BL/R	

SURGE ARRESTOR BLOCK

ROW	CABLE #		DESIGNATION	CONTACT	ARRESTOR MODEL	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19	4	1	GEN. FAIL COMMON (PROG RELAY #2)	GPR2		CABLE 4A
20	4	2	GEN. FAIL COMMON (PROG RELAY #2)	GPR2	66PO60	
21	4	3	CATCH BASIN (PROG RELAY #4)	GPR4		
22	4	4	CATCH BASIN (PROG RELAY #4)	GPR4	66PO60	
23	7	1	UTILITY POWER FAIL	PFA		
24	7	2	UTILITY POWER FAIL	PFA	66PO60	
25	7	3	ATS/UTILITY SURGE ARREST.	LAU (TVSS1)		
26	7	4	ATS/UTILITY SURGE ARREST.	LAU (TVSS1)	66PO60	
27	7	5	ATS/GEN SURGE ARREST.	LAG(TVSS2)		
28	7	6	ATS/GEN SURGE ARREST.	LAG(TVSS2)	66PO60	
29	7	7	ATS/ILC NOT IN AUTO	ATS/ILC		
30	7	8	ATS/ILC NOT IN AUTO	ATS/ILC	66PO60	
31						
32						
33	6	1	AI REMOTE RS232 PORT	DB9 PIN 2		B/WH
34	6	2	AI REMOTE RS232 PORT	DB9 PIN 3	66PO15	W/O
35	6	3	AI REMOTE RS232 PORT	DB9 PIN 5		W/G
36					66PO15	
37						
38						
39						
40						
41						
42						
43						
44						
45	5	1	21LT ANNUNCIATOR PANEL	RS485 (+)		
46	5	2	21LT ANNUNCIATOR PANEL	RS485(-)	66PO15	
47						
48	5	4	21LT ANNUNCIATOR PANEL	12V (-)	66PO60	
49						
50	5	3	21LT ANNUNCIATOR PANEL	12V (+)	66PO60	

NOTE: This document pertains to the install of the generator related alarms only. Adjust the placement of the alarms on TB1 as required based on current site configuration. For LP or Natural Gas generators substitute Pre-Low Water Temp for Pre-Low Fuel alarm on J5.

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SHEET NUMBER: REF1

REVISION: 1

Exhibit D

Structural Analysis Report

Date: **July 1, 2022**

Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351

Subject: Structural Analysis Report

Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	720892
	Site Name:	Woodbury NW CT
Crown Castle Designation:	**BU Number:**	857528
	Site Name:	Woodbury Paper Mill Rd
	JDE Job Number:	723039
	Work Order Number:	2132510
	Order Number:	623558 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	218217.716302
Site Data:	**85 Paper Mill Road, Woodbury, Litchfield County, CT 06798** **Latitude *41° 34' 23.07"*, Longitude *-73° 13' 39.51"*** **150 Foot - Monopole Tower**	

Tower Engineering Professionals is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity – 76.2%**

This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Habib Eltezam / CLT

Respectfully submitted by:

Aaron T. Rucker, P.E.

Electronic Copy

07/01/2022

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1) INTRODUCTION

This tower is a 150-ft monopole tower designed by Ehresmann Engineering, Inc.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	117 mph
Exposure Category:	B
Topographic Factor:	1.0
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
118.0	118.0	4	JMA Wireless	MX06FRO840-02_CCIV2 w/ Mount Pipe	1	1-5/8
		3	Samsung Telecom.	MT6407-77A w/ Mount Pipe		
		2	JMA Wireless	MX06FRO860-03 w/ Mount Pipe		
		3	Samsung Telecom.	RF4439D-25A		
		3	Samsung Telecom.	RF4440D-13A		
		1	Raycap	RVZDC-6627-PF-48_CCIV2		
		1	Site Pro 1	F3P- HRK12 Handrail Kit		
		1	Site Pro 1	F3P-12 Platform Mount		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
148.0	148.0	2	CCI Antennas	DMP65R-BU6D w/ Mount Pipe	6 3 2 2	1-5/8 3/4 5/8 3/8
		2	CCI Antennas	OPA65R-BU6D w/ Mount Pipe		
		3	Powerwave Technologies	P90-14-XLH-RR w/ Mount Pipe		
		1	CCI Antennas	DMP65R-BU4D w/ Mount Pipe		
		1	CCI Antennas	OPA65R-BU4D w/ Mount Pipe		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 4478 B14		
		3	Ericsson	RRUS 8843 B2/B66A		
		2	Raycap	DC6-48-60-18-8F		
		3	Powerwave Technologies	TT19-08BP111-001		
		1	Tower Mounts	Miscellaneous [NA 507-1]		
		1	Tower Mounts	Platform Mount [LP 712-1]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
138.0	138.0	3	JMA Wireless	MX08FRO665-21 w/ Mount Pipe	1	1-1/2
		1	Raycap	RDIDC-9181-PF-48		
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
		1	Tower Mounts	Commscope MC-PK8-DSH		
128.0	128.0	3	RFS Celwave	APXVAALL24_43-U-NA20_TMO	4	1-5/8
		3	Ericsson	Air 6449 B41_T-Mobile		
		3	Ericsson	Radio 4480 B71_TMO		
		3	Ericsson	Radio 4460 B2/B25 B66_TMO		
		1	Site Pro 1	RMQP-4096-HK Platform Mount		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Geotechnical Report	4570959	CCISites
Tower Manufacturer Drawings	4724415	CCISites
Tower Foundation Drawings	4724414	CCISites

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

3.2) Assumptions

1) The tower and structures were maintained in accordance with the TIA-222 Standard.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2, and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (k)	ϕP_{allow} (k)	% Capacity	Pass / Fail
L1	150 - 104.5	Pole	TP28.1875x18x0.1875	1	-18.01	988.77	66.5	Pass
L2	104.5 - 68.75	Pole	TP35.75x26.8609x0.25	2	-23.14	1673.43	75.1	Pass
L3	68.75 - 34	Pole	TP43x34.0833x0.3125	3	-30.32	2519.29	67.0	Pass
L4	34 - 0	Pole	TP50x41.0375x0.3125	4	-40.37	3027.25	74.8	Pass
							Summary	
						Pole (L2)	75.1	Pass
						RATING =	**75.1**	**Pass**

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	-	32.6	Pass
1,2	Base Plate	-	47.3	Pass
1,2	Base Foundation Structural	-	37.7	Pass
1,2	Base Foundation Soil Interaction	-	76.2	Pass

Structure Rating (max from all components) =	**76.2%**

Notes:
1) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity listed.
2) Rating per TIA-222-H Section 15.5.

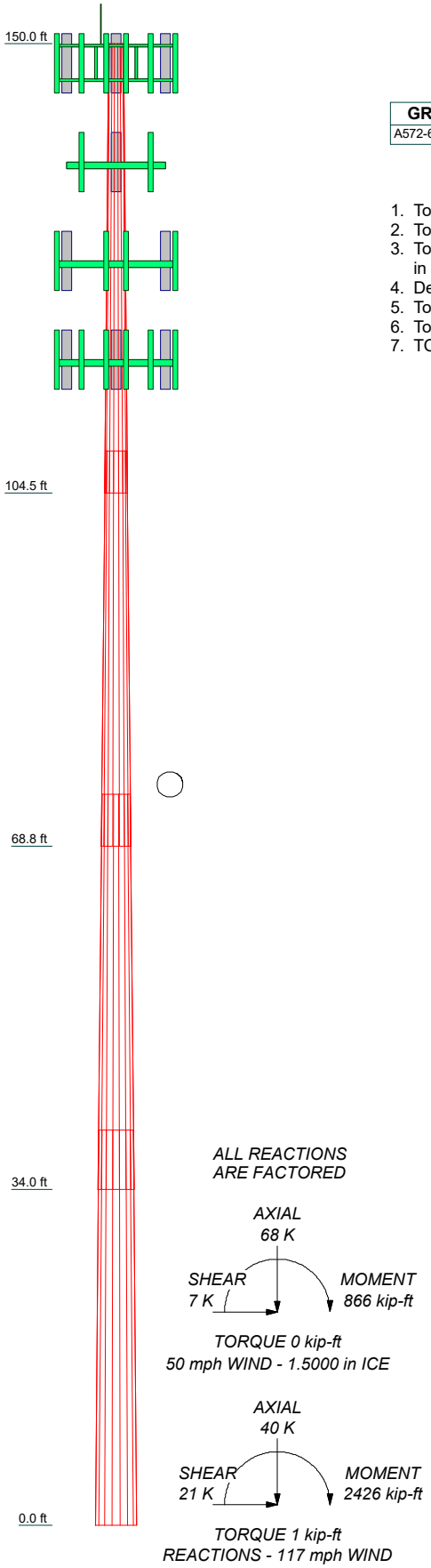
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	45.50	18	0.1875	4.25	18.0000	28.1875	A572-65	2.1
2	40.00	18	0.2500	5.25	26.8609	35.7500		3.4
3	40.00	18	0.3125	6.00	34.0833	43.0000		5.2
4	40.00	18	0.3125		41.0375	50.0000		6.1
								16.7



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure B to the TIA-222-H Standard.
2. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 75.1%

Tower Engineering Professionals

Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
Phone: (919) 661-6351
FAX: (919) 661-6350

Job:	***Woodbury Paper Mill Rd (BU 857528)***		
Project:	***TEP No. 218217.716302***		
Client: Crown Castle	Drawn by: myoung		App'd:
Code: TIA-222-H	Date: 07/01/22		Scale: NTS
Path: C:\Users\myoung\Desktop\TNX\857528-Woodbury Paper Mill Rd\857528_2132510_LC7.eri			Dwg No. E-1

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower base elevation above sea level: 528.00 ft.
Basic wind speed of 117 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.5000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	150.00-104.50	45.50	4.25	18	18.0000	28.1875	0.1875	0.7500	A572-65 (65 ksi)
L2	104.50-68.75	40.00	5.25	18	26.8609	35.7500	0.2500	1.0000	A572-65 (65 ksi)
L3	68.75-34.00	40.00	6.00	18	34.0833	43.0000	0.3125	1.2500	A572-65 (65 ksi)
L4	34.00-0.00	40.00		18	41.0375	50.0000	0.3125	1.2500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	18.2488	10.6007	424.9328	6.3234	9.1440	46.4712	850.4248	5.3013	2.8380	15.136
	28.5934	16.6635	1650.5160	9.9400	14.3193	115.2655	3303.2038	8.3333	4.6310	24.699
L2	28.1958	21.1158	1889.1396	9.4469	13.6453	138.4457	3780.7650	10.5599	4.2875	17.15
	36.2629	28.1692	4485.0722	12.6025	18.1610	246.9617	8976.0460	14.0873	5.8520	23.408
L3	35.7493	33.4964	4826.3493	11.9886	17.3143	278.7490	9659.0492	16.7514	5.4487	17.436
	43.6151	42.3407	9747.5744	15.1541	21.8440	446.2358	19507.9749	21.1744	7.0180	22.458
L4	42.9875	40.3941	8464.0368	14.4574	20.8470	406.0065	16939.2109	20.2009	6.6726	21.352
	50.7231	49.2838	15372.1931	17.6391	25.4000	605.2045	30764.6134	24.6466	8.2500	26.4

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 150.00-104.50				1	1	1			
L2 104.50-68.75				1	1	1			
L3 68.75-34.00				1	1	1			
L4 34.00-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
* * * * * * *											

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C_AA_A ft^2/ft	Weight plf

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
** miscl **									
Safety Line 3/8	C	No	No	CaAa (Out Of Face)	150.00 - 0.00	1	No Ice	0.04	0.22
							1/2" Ice	0.14	0.75
							1" Ice	0.24	1.28
							2" Ice	0.44	2.34
Step Pegs (5/8" SR) 7-in. w/30" step	C	No	No	CaAa (Out Of Face)	150.00 - 0.00	1	No Ice	0.03	0.49
							1/2" Ice	0.14	1.01
							1" Ice	0.23	2.07
							2" Ice	0.43	6.09
** 148 **									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	148.00 - 0.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
FB-L98B-034-XXX(3/8)	B	No	No	Inside Pole	148.00 - 0.00	2	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
WR-VG82ST-BRD A(5/8)	B	No	No	Inside Pole	148.00 - 0.00	2	No Ice	0.00	0.31
							1/2" Ice	0.00	0.31
							1" Ice	0.00	0.31
							2" Ice	0.00	0.31
WR-VG86ST-BRD(3/4)	B	No	No	Inside Pole	148.00 - 0.00	3	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
							2" Ice	0.00	0.58
2" Flexible Conduit	B	No	No	Inside Pole	148.00 - 0.00	2	No Ice	0.00	0.34
							1/2" Ice	0.00	0.34
							1" Ice	0.00	0.34
							2" Ice	0.00	0.34
** 138 **									
CU12PSM9P6XXX(1-1/2)	A	No	No	Inside Pole	138.00 - 0.00	1	No Ice	0.00	2.35
							1/2" Ice	0.00	2.35
							1" Ice	0.00	2.35
							2" Ice	0.00	2.35
** 128 **									
HB158-21U6S24-xx M_TMO(1-5/8)	C	No	No	Inside Pole	128.00 - 0.00	4	No Ice	0.00	2.50
							1/2" Ice	0.00	2.50
							1" Ice	0.00	2.50
							2" Ice	0.00	2.50
** 118 **									
HB158-21U6S12-XXXM-01(1-5/8)	C	No	No	Inside Pole	118.00 - 0.00	1	No Ice	0.00	1.90
							1/2" Ice	0.00	1.90
							1" Ice	0.00	1.90
							2" Ice	0.00	1.90
* * * * * * *									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	150.00-104.50	A	0.000	0.000	0.000	0.000	0.08
		B	0.000	0.000	0.000	0.000	0.35

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C	0.000	0.000	0.000	3.299	0.29
L2	104.50-68.75	A	0.000	0.000	0.000	0.000	0.08
		B	0.000	0.000	0.000	0.000	0.29
		C	0.000	0.000	0.000	2.592	0.45
L3	68.75-34.00	A	0.000	0.000	0.000	0.000	0.08
		B	0.000	0.000	0.000	0.000	0.28
		C	0.000	0.000	0.000	2.519	0.44
L4	34.00-0.00	A	0.000	0.000	0.000	0.000	0.08
		B	0.000	0.000	0.000	0.000	0.27
		C	0.000	0.000	0.000	2.465	0.43

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	150.00-104.50	A	1.458	0.000	0.000	0.000	0.000	0.08
		B		0.000	0.000	0.000	0.000	0.35
		C		0.000	0.000	0.000	29.828	0.52
L2	104.50-68.75	A	1.403	0.000	0.000	0.000	0.000	0.08
		B		0.000	0.000	0.000	0.000	0.29
		C		0.000	0.000	0.000	23.436	0.63
L3	68.75-34.00	A	1.332	0.000	0.000	0.000	0.000	0.08
		B		0.000	0.000	0.000	0.000	0.28
		C		0.000	0.000	0.000	22.027	0.60
L4	34.00-0.00	A	1.190	0.000	0.000	0.000	0.000	0.08
		B		0.000	0.000	0.000	0.000	0.27
		C		0.000	0.000	0.000	20.584	0.58

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	150.00-104.50	-0.5568	0.3215	-2.1355	1.2329
L2	104.50-68.75	-0.5654	0.3264	-2.3326	1.3467
L3	68.75-34.00	-0.5698	0.3290	-2.3782	1.3730
L4	34.00-0.00	-0.5726	0.3306	-2.3657	1.3658

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
1/2" x 4' LRod	C	From Leg	1.00 0.00 2.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.20 0.61 0.95 1.46	0.20 0.61 0.95 1.46	0.00 0.01 0.01 0.03
** 148 **									
DMP65R-BU6D w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
DMP65R-BU6D w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
OPA65R-BU6D w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34	6.05 6.71 7.39 8.79	0.09 0.18 0.27 0.51
OPA65R-BU6D w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34	6.05 6.71 7.39 8.79	0.09 0.18 0.27 0.51
P90-14-XLH-RR w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.10 3.43 3.77 4.49	2.65 2.98 3.31 4.01	0.06 0.11 0.16 0.29
P90-14-XLH-RR w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.10 3.43 3.77 4.49	2.65 2.98 3.31 4.01	0.06 0.11 0.16 0.29
P90-14-XLH-RR w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.10 3.43 3.77 4.49	2.65 2.98 3.31 4.01	0.06 0.11 0.16 0.29
DMP65R-BU4D w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.53 8.04 8.57 9.68	3.79 4.23 4.68 5.63	0.09 0.16 0.22 0.39
OPA65R-BU4D w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.10 8.65 9.21 10.39	4.03 4.50 4.98 5.98	0.08 0.14 0.21 0.38
RRUS 4449 B5/B12	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4449 B5/B12	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4449 B5/B12	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4478 B14	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 2.01 2.19 2.57	1.06 1.20 1.34 1.66	0.06 0.08 0.09 0.14

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
RRUS 4478 B14	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 2.01 2.19 2.57	1.06 1.20 1.34 1.66	0.06 0.08 0.09 0.14
RRUS 4478 B14	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 2.01 2.19 2.57	1.06 1.20 1.34 1.66	0.06 0.08 0.09 0.14
RRUS 8843 B2/B66A	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.32	1.35 1.50 1.65 1.99	0.07 0.09 0.11 0.16
RRUS 8843 B2/B66A	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.32	1.35 1.50 1.65 1.99	0.07 0.09 0.11 0.16
RRUS 8843 B2/B66A	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.32	1.35 1.50 1.65 1.99	0.07 0.09 0.11 0.16
DC6-48-60-18-8F	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.21 1.89 2.11 2.57	1.21 1.89 2.11 2.57	0.03 0.05 0.08 0.14
DC6-48-60-18-8F	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.21 1.89 2.11 2.57	1.21 1.89 2.11 2.57	0.03 0.05 0.08 0.14
TT19-08BP111-001	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.55 0.64 0.74 0.97	0.44 0.53 0.63 0.84	0.02 0.02 0.03 0.05
TT19-08BP111-001	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.55 0.64 0.74 0.97	0.44 0.53 0.63 0.84	0.02 0.02 0.03 0.05
TT19-08BP111-001	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.55 0.64 0.74 0.97	0.44 0.53 0.63 0.84	0.02 0.02 0.03 0.05
2.9" Dia. x 8-ft Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.30 3.13 3.62 4.62	2.30 3.13 3.62 4.62	0.05 0.06 0.09 0.15
2.9" Dia. x 8-ft Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.30 3.13 3.62 4.62	2.30 3.13 3.62 4.62	0.05 0.06 0.09 0.15
2.9" Dia. x 8-ft Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.30 3.13 3.62 4.62	2.30 3.13 3.62 4.62	0.05 0.06 0.09 0.15
Miscellaneous [NA 507-1]	C	None		0.0000	148.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 6.39 8.18 11.66	4.56 6.39 8.18 11.66	0.25 0.31 0.40 0.66
Platform Mount [LP 712-1]	C	None		0.0000	148.00	No Ice	24.56	24.56	1.34

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1/2" Ice	27.92	27.92	1.91
						1" Ice	31.27	31.27	2.55
						2" Ice	37.98	37.98	3.97
** 138 **									
MX08FRO665-21 w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.01 8.52 9.04 10.11	4.23 4.69 5.16 6.12	0.11 0.19 0.29 0.52
MX08FRO665-21 w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.01 8.52 9.04 10.11	4.23 4.69 5.16 6.12	0.11 0.19 0.29 0.52
MX08FRO665-21 w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.01 8.52 9.04 10.11	4.23 4.69 5.16 6.12	0.11 0.19 0.29 0.52
RDIDC-9181-PF-48	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.01 2.19 2.37 2.76	1.17 1.31 1.46 1.78	0.02 0.04 0.06 0.11
TA08025-B604	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	0.98 1.11 1.25 1.55	0.06 0.08 0.10 0.15
TA08025-B604	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	0.98 1.11 1.25 1.55	0.06 0.08 0.10 0.15
TA08025-B604	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	0.98 1.11 1.25 1.55	0.06 0.08 0.10 0.15
TA08025-B605	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	1.13 1.27 1.41 1.72	0.08 0.09 0.11 0.16
TA08025-B605	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	1.13 1.27 1.41 1.72	0.08 0.09 0.11 0.16
TA08025-B605	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	1.13 1.27 1.41 1.72	0.08 0.09 0.11 0.16
(2) 2.4" Dia x 8-ft Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
(2) 2.4" Dia x 8-ft Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
(2) 2.4" Dia x 8-ft Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	138.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
Commscope MC-PK8-DSH	C	None		0.0000	138.00	No Ice	34.24	34.24	1.75

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1/2" Ice	62.95	62.95	2.10
						1" Ice	91.66	91.66	2.45
						2" Ice	149.08	149.08	3.15
** 128 **									
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.18 0.31 0.45 0.78
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.18 0.31 0.45 0.78
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.18 0.31 0.45 0.78
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
RADIO 4480 B71_TMO	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.85 3.06 3.28 3.74	1.38 1.54 1.71 2.07	0.09 0.11 0.14 0.20
RADIO 4480 B71_TMO	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.85 3.06 3.28 3.74	1.38 1.54 1.71 2.07	0.09 0.11 0.14 0.20
RADIO 4480 B71_TMO	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.85 3.06 3.28 3.74	1.38 1.54 1.71 2.07	0.09 0.11 0.14 0.20
RADIO 4460 B2/B25 B66_TMO	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.32 2.51 2.91	1.69 1.85 2.02 2.39	0.11 0.13 0.16 0.22
RADIO 4460 B2/B25 B66_TMO	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.32 2.51 2.91	1.69 1.85 2.02 2.39	0.11 0.13 0.16 0.22
RADIO 4460 B2/B25 B66_TMO	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.32 2.51 2.91	1.69 1.85 2.02 2.39	0.11 0.13 0.16 0.22
(2) 2.9" Dia. x 8-ft Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.30 3.13 3.62 4.62	2.30 3.13 3.62 4.62	0.05 0.06 0.09 0.15
(2) 2.9" Dia. x 8-ft Mount	B	From	4.00	0.0000	128.00	No Ice	2.30	2.30	0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Pipe		Centroid-Leg	0.00 0.00			1/2" Ice 1" Ice 2" Ice	3.13 3.62 4.62	3.13 3.62 4.62	0.06 0.09 0.15
(2) 2.9" Dia. x 8-ft Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.30 3.13 3.62 4.62	2.30 3.13 3.62 4.62	0.05 0.06 0.09 0.15
SitePro1 RMQP-4096-HK	C	None		0.0000	128.00	No Ice 1/2" Ice 1" Ice 2" Ice	23.14 28.17 33.23 43.26	21.40 26.44 31.60 41.56	1.95 2.34 2.85 3.50
** 118 **									
(2) MX06FRO840-02_CCIV2 w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	10.01 10.61 11.22 12.47	6.39 6.95 7.53 8.70	0.16 0.28 0.41 0.73
(2) MX06FRO840-02_CCIV2 w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	10.01 10.61 11.22 12.47	6.39 6.95 7.53 8.70	0.16 0.28 0.41 0.73
MT6407-77A w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
MT6407-77A w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
MT6407-77A w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
(2) MX06FRO860-03 w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.84 9.51 10.20 11.61	7.49 8.15 8.82 10.20	0.12 0.22 0.34 0.63
RF4439D-25A	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4439D-25A	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4439D-25A	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4440D-13A	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.13 1.27 1.41 1.72	0.07 0.09 0.11 0.16
RF4440D-13A	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.13 1.27 1.41 1.72	0.07 0.09 0.11 0.16
RF4440D-13A	C	From	4.00	0.0000	118.00	No Ice	1.87	1.13	0.07

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
		Centroid-Leg	0.00 0.00			1/2" Ice 1" Ice 2" Ice	2.03 2.21 2.59	1.27 1.41 1.72	0.09 0.11 0.16
RVZDC-6627-PF-48_CCIV2	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.06 4.32 4.58 5.14	3.10 3.34 3.58 4.09	0.03 0.07 0.11 0.20
2.4" Dia x 8-ft Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
2.4" Dia x 8-ft Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
2.4" Dia x 8-ft Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
Site Pro 1 F3P-HRK12	C	None		0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.38 7.22 8.88 12.20	4.64 6.35 8.13 11.69	0.41 0.50 0.59 0.77
Site Pro 1 F3P-12[W]	C	None		0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	25.52 31.74 40.10 50.42	25.41 32.27 39.68 52.85	2.00 2.60 3.41 4.40
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Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	150 - 104.5 (1)	TP28.1875x18x0.1875	45.50	0.00	0.0	16.0972	-18.01	941.69	0.019
L2	104.5 - 68.75 (2)	TP35.75x26.8609x0.25	40.00	0.00	0.0	27.2435	-23.14	1593.74	0.015
L3	68.75 - 34 (3)	TP43x34.0833x0.3125	40.00	0.00	0.0	41.0140	-30.32	2399.32	0.013
L4	34 - 0 (4)	TP50x41.0375x0.3125	40.00	0.00	0.0	49.2838	-40.37	2883.10	0.014

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	150 - 104.5 (1)	TP28.1875x18x0.1875	394.06	583.66	0.675	0.00	583.66	0.000
L2	104.5 - 68.75 (2)	TP35.75x26.8609x0.25	987.52	1278.26	0.773	0.00	1278.26	0.000
L3	68.75 - 34 (3)	TP43x34.0833x0.3125	1620.87	2349.59	0.690	0.00	2349.59	0.000
L4	34 - 0 (4)	TP50x41.0375x0.3125	2426.01	3146.22	0.771	0.00	3146.22	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	150 - 104.5 (1)	TP28.1875x18x0.1875	16.30	282.51	0.058	0.98	669.19	0.001
L2	104.5 - 68.75 (2)	TP35.75x26.8609x0.25	17.82	478.12	0.037	0.87	1437.59	0.001
L3	68.75 - 34 (3)	TP43x34.0833x0.3125	19.37	719.80	0.027	0.67	2606.54	0.000
L4	34 - 0 (4)	TP50x41.0375x0.3125	20.83	864.93	0.024	0.56	3763.64	0.000

Pole Interaction Design Data

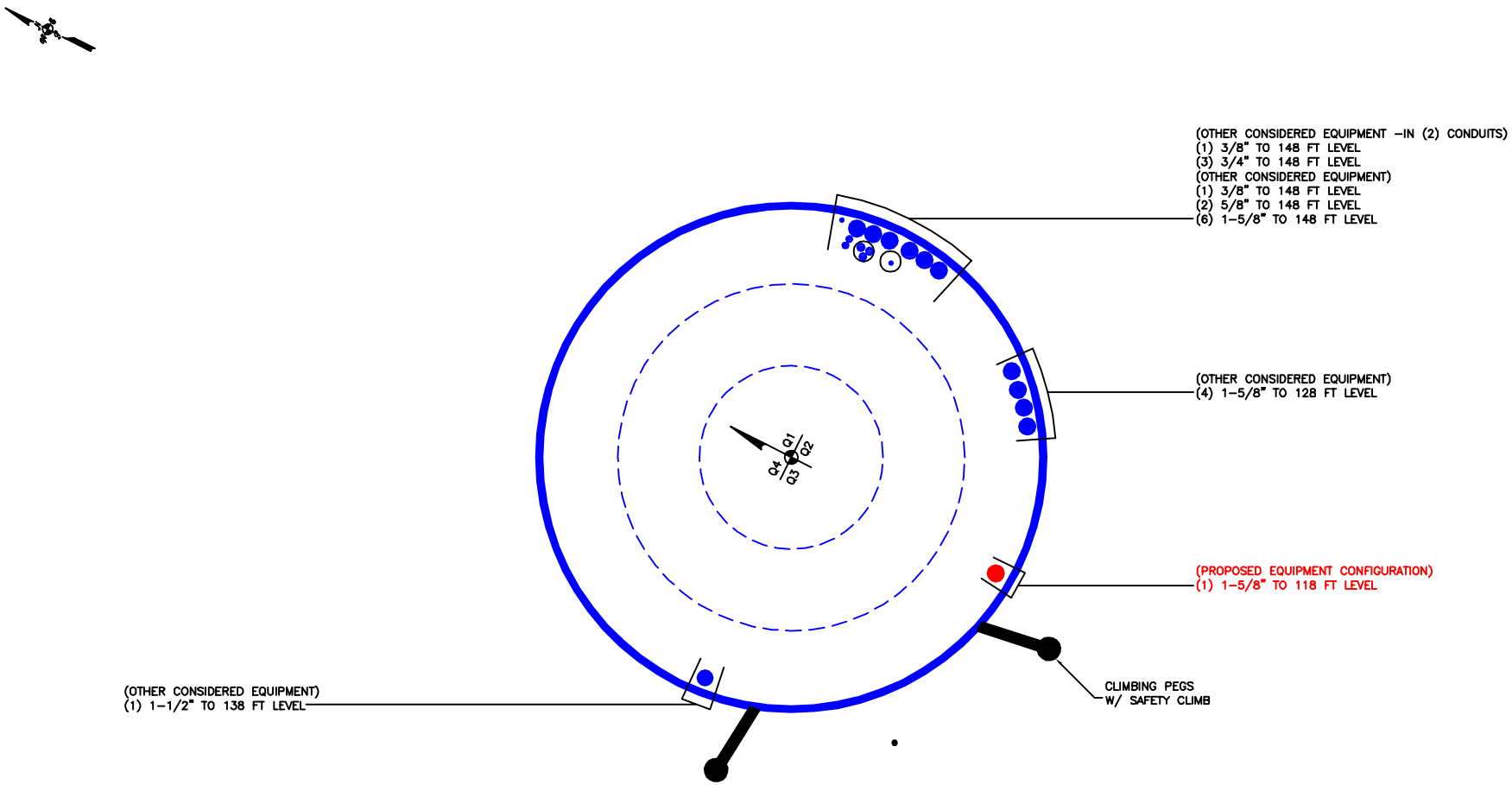
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	150 - 104.5 (1)	0.019	0.675	0.000	0.058	0.001	0.698	1.050	4.8.2
L2	104.5 - 68.75 (2)	0.015	0.773	0.000	0.037	0.001	0.789	1.050	4.8.2
L3	68.75 - 34 (3)	0.013	0.690	0.000	0.027	0.000	0.703	1.050	4.8.2
L4	34 - 0 (4)	0.014	0.771	0.000	0.024	0.000	0.786	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 104.5	Pole	TP28.1875x18x0.1875	1	-18.01	988.77	66.5	Pass
L2	104.5 - 68.75	Pole	TP35.75x26.8609x0.25	2	-23.14	1673.43	75.1	Pass
L3	68.75 - 34	Pole	TP43x34.0833x0.3125	3	-30.32	2519.29	67.0	Pass
L4	34 - 0	Pole	TP50x41.0375x0.3125	4	-40.37	3027.25	74.8	Pass
							Summary	
						Pole (L2)	75.1	Pass
						RATING =	**75.1**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


(OTHER CONSIDERED EQUIPMENT –IN (2) CONDUITS)
(1) 3/8" TO 148 FT LEVEL
(3) 3/4" TO 148 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 3/8" TO 148 FT LEVEL
(2) 5/8" TO 148 FT LEVEL
(6) 1–5/8" TO 148 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(4) 1–5/8" TO 128 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION)
(1) 1–5/8" TO 118 FT LEVEL
CLIMBING PEGS
W/ SAFETY CLIMB
(OTHER CONSIDERED EQUIPMENT)
(1) 1–1/2" TO 138 FT LEVEL
Q1
Q2
Q3
Q4

APPENDIX C

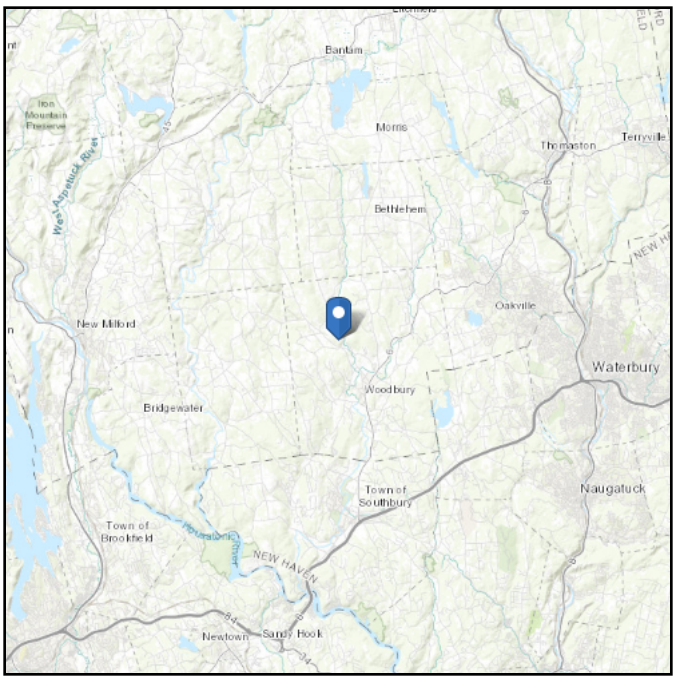
ADDITIONAL CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 528.06 ft (NAVD 88)
Latitude: 41.573075
Longitude: -73.227642



Wind

Results:

Wind Speed	117 Vmph
10-year MRI	76 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	96 Vmph

Data Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

Date Accessed: Thu Jun 30 2022

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

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

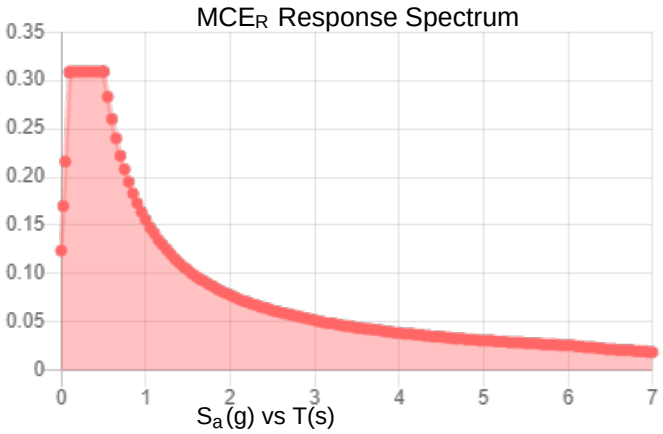
Seismic

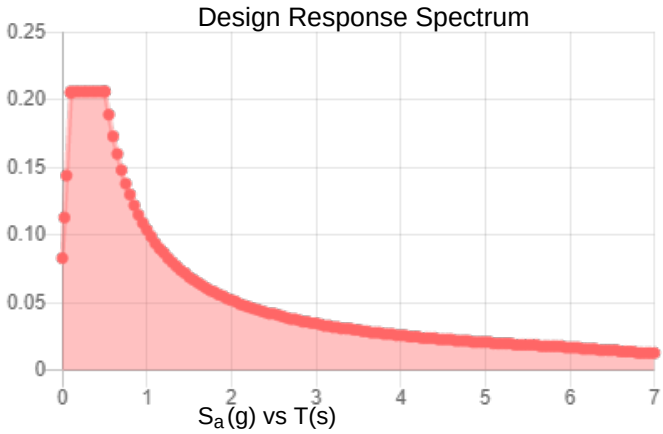
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.193	S_{DS} :	0.206
S_1 :	0.065	S_{D1} :	0.104
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.101
S_{MS} :	0.309	PGA_M :	0.161
S_{M1} :	0.156	F_{PGA} :	1.598
		I_e :	1

Seismic Design Category B





Data Accessed: **Thu Jun 30 2022**

Date Source:

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

Ice

Results:

Ice Thickness:	0.75 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Thu Jun 30 2022

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

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

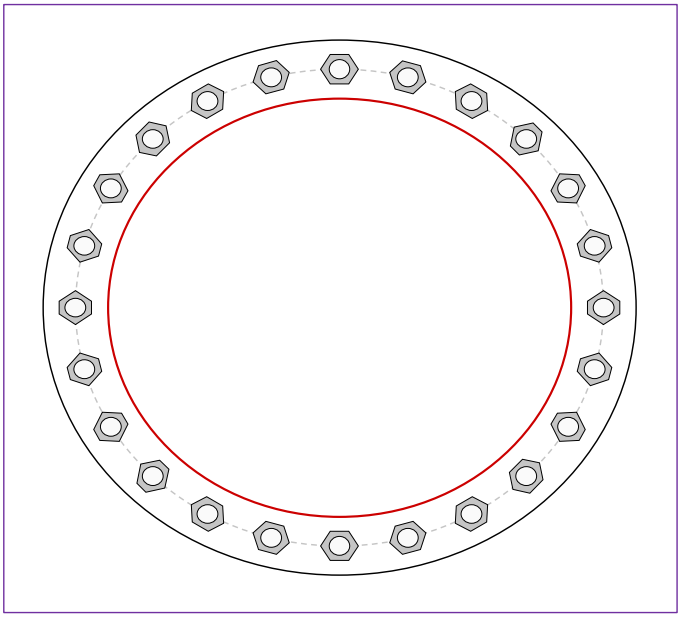
Monopole Base Plate Connection

Site Info	
BU #	857528
Site Name	Woodbury Paper Mill R
Order #	623558 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	2.25

Applied Loads	
Moment (kip-ft)	2426.00
Axial Force (kips)	40.00
Shear Force (kips)	21.00

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(24) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 57" BC

Base Plate Data

64" OD x 2.25" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Stiffener Data

N/A

Pole Data

50" x 0.3125" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

Pu_t = 83.4	ϕPn_t = 243.75	**Stress Rating**
Vu = 0.88	ϕVn = 149.1	**32.6%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	22.34	(Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	**47.3%**	**Pass**

Pier and Pad Foundation

BU # :	857528
Site Name:	Woodbury Paper M
App. Number:	623558 Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

Top & Bot. Pad Rein. Different?:	☐
Block Foundation?:	☐
Rectangular Pad?:	☐

Superstructure Analysis Reactions		
Compression, P_{comp}:	40	kips
Base Shear, Vu_comp:	21	kips
Moment, M_u:	2426	ft-kips
Tower Height, **H**:	150	ft
BP Dist. Above Fdn, bp_{dist}:	4.25	in

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, **dpier**:	6.5	ft
Ext. Above Grade, **E**:	0.5	ft
Pier Rebar Size, **Sc**:	10	
Pier Rebar Quantity, **mc**:	34	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	5	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties		
Depth, **D**:	4	ft
Pad Width, W_1:	24	ft
Pad Thickness, **T**:	2.5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	10	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	31	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, δc:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	90	pcf
Ultimate Gross Bearing, Qult:	12.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	0	degrees
SPT Blow Count, N_{blows}:	79	
Base Friction, μ:	0.3	
Neglected Depth, **N**:	3.33	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, **gw**:	N/A	ft

<--Toggle between Gross and Net

Foundation Analysis Checks	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	71.32	21.00	**28.0%**	**Pass**
Bearing Pressure (ksf)	9.00	3.08	**34.3%**	**Pass**
*Overturning (kip*ft)*	3316.53	2527.94	**76.2%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	6241.43	2468.00	**37.7%**	**Pass**
Pier Compression (kip)	21120.36	51.95	**0.2%**	**Pass**
*Pad Flexure (kip*ft)*	4232.26	1139.61	**25.6%**	**Pass**
Pad Shear - 1-way (kips)	685.65	183.76	**25.5%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.190	0.038	**19.0%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	4903.88	1480.80	**28.8%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Structural Rating*:	**37.7%**
Soil Rating*:	**76.2%**

Exhibit E

Mount Analysis

Date: September 7, 2022

MTS Engineering, P.L.L.C.
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630
towersupport@btgrp.com

Subject:	**Mount Analysis Report**	
Carrier Designation:	**Verizon Wireless Equipment Change-Out**	
	Carrier Site Number:	720892
	Carrier Site Name:	Woodbury NW CT
Crown Castle Designation:	**BU Number:**	857528
	Site Name:	Woodbury Paper Mill RD
	JDE Job Number:	723039
	Order Number:	623558, Rev. 0
Engineering Firm Designation:	**Report Designation:**	152945.003.01.0001
Site Data:	**85 Paper Mill Road, Woodbury, CT, Litchfield County, 06798** **Latitude 41° 34' 23.07" Longitude -73° 13' 39.51"**	
Structure Information:	**Tower Height & Type:**	**150 ft. Monopole**
	Mount Elevation:	**118 ft.**
	Mount Type:	**12.5 ft. Platform Mount**

We are pleased to submit this **"Mount Analysis Report"** to determine the structural integrity of Verizon Wireless's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

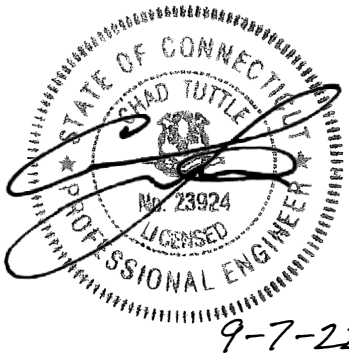
The purpose of the analysis is to determine acceptability of the mount's stress level. Based on our analysis we have determined the stress level to be:

Platform Mount **Sufficient**
***The capacities listed are based on recommendations listed in Sec.4.1 being installed.**

This analysis utilizes an ultimate 3-second gust wind speed of 115 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount structural analysis prepared by: Erika Ruiz

Respectfully submitted by: MTS Engineering, P.L.L.C.
COA: BER:2386985 Expires: 02/01/2023



Chad E. Tuttle, P.E.

TABLE OF CONTENTS

1) INTRODUCTION

This is a proposed 3 - sector 12.5' Platform Mount, designed by SitePro1 (Part# F3P-12 with HRK12 Support Rail).

2) ANALYSIS CRITERIA

Building Code:	2018 Connecticut State Building Code
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	115 mph
Exposure Category:	B
Topographic Factor at Base:	1
Topographic Factor at Mount:	1
Ice Thickness:	1.0 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.192
Seismic S_1:	0.054
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb.
Man Live Load at Mount Pipes:	500 lb.

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft.)	Antenna Centerline (ft.)	Number of Antennas	Manufacturer	Model / Type	Mount / Modification Details
118	118	4	JMA Wireless	MX06FRO840-02_CCIV2	12.5' Platform Mount
		2	JMA Wireless	MX06FRO860-03	
		3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48_CCIV2	
		3	Samsung	RF4439D-25A	
		3	Samsung	RF4440D-13A	

Table 2 - Documents Provided

Document	Remarks	Reference	Source
CCI Order	Existing Loading Proposed Loading	Date: 06/23/2022	Crown Castle
RFDS		Date: 06/15/2022	
Mount Manufacturer Drawing	SitePro1 (Part# F3P-12) SitePro1 (Part# F3P-HRK12)	Date: 08/30/2017 Date: 09/14/2017	SitePro1

3) ANALYSIS PROCEDURE

3.1) Analysis Method

RISA-3D (Version 20.0.3), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

A tool internally developed by MTS Engineering, P.L.L.C., was used to calculate wind loading on all appurtenances, dishes and mount members for various loading cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Mount Analysis* (Revision E). In addition, this analysis is in accordance with OTHER SOW.

Manufacturers drawing were used to create the model.

3.2) Assumptions

1. The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer's specifications.
2. The configuration of antennas, mounts, and other appurtenances are as specified in Table-1.
3. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected members unless otherwise specified in this report.
4. Mount areas and weights are determined from field measurements, standard material properties, and/or manufacturer product data.
   The following assumptions have been included in the analysis of the mount

Component	Section	Length	Note
Proposed Mount Pipe for New Antenna	2" Std. Pipe	10'-6"	All Positions, All Sectors

5. Serviceability with respect to antenna twist, tilt, roll or lateral translation is not checked and is left to the carrier or tower owner to ensure conformance.
6. Prior structural modifications to the tower mounting system are assumed to be installed as shown per available data.
7. The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
8. The following material grades were assumed (Unless Noted Otherwise):
   (a) Connection Bolts : ASTM A325
   (b) Steel Pipe : ASTM A53 (GR. 35)
   (c) HSS (Round) : ASTM 500 (GR. B-42)
   (d) HSS (Rectangular) : ASTM 500 (GR. B-46)
   (e) Channel : ASTM A36 (GR. 36)
   (f) Steel Solid Rod : ASTM A36 (GR. 36)
   (g) Steel Plate : ASTM A36 (GR. 36)
   (h) Steel Angle : ASTM A36 (GR. 36)
   (i) UNISTRUT : ASTM A570 (GR. 33)

This analysis may be affected if any assumptions are not valid or have been made in error. MTS Engineering, P.L.L.C. should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Platform Mount)

Notes	Component	Centerline (ft.)	Critical Member	% Capacity	Pass / Fail
1,2	Main Horizontals	118	3	29.5	Pass
	Mount Pipes		193	64.6	Pass
	Chord Plates		43	43.9	Pass
	Web Vertical Plates		343	3.5	Pass
	Web Vertical Plates		328	27.6	Pass
	PF Angles		21	43.8	Pass
	PF Angles		33	17.2	Pass
	PS Tubes		42	12.9	Pass
	PB Plates		6	9.1	Pass
	Web Chord Plates		57	40.8	Pass
	Support Rails		191	46.1	Pass
	Connection WT		220	18.7	Pass
3	Mount to Tower Connection		-	57.4	Pass

Structure Rating with Recommendations (max from all components) =	64.6%

Notes:
1) Capacities listed are based on recommendations listed in Sec.4.1 being installed.
2) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.
3) See additional documentation in "Appendix D - Additional Calculations" for calculations supporting the % capacity reported.

4.1) Recommendations

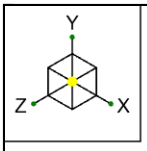
The proposed mount has sufficient capacity to support the proposed loading configuration. In order for the results of this analysis to be considered valid, the mount listed below shall be installed.

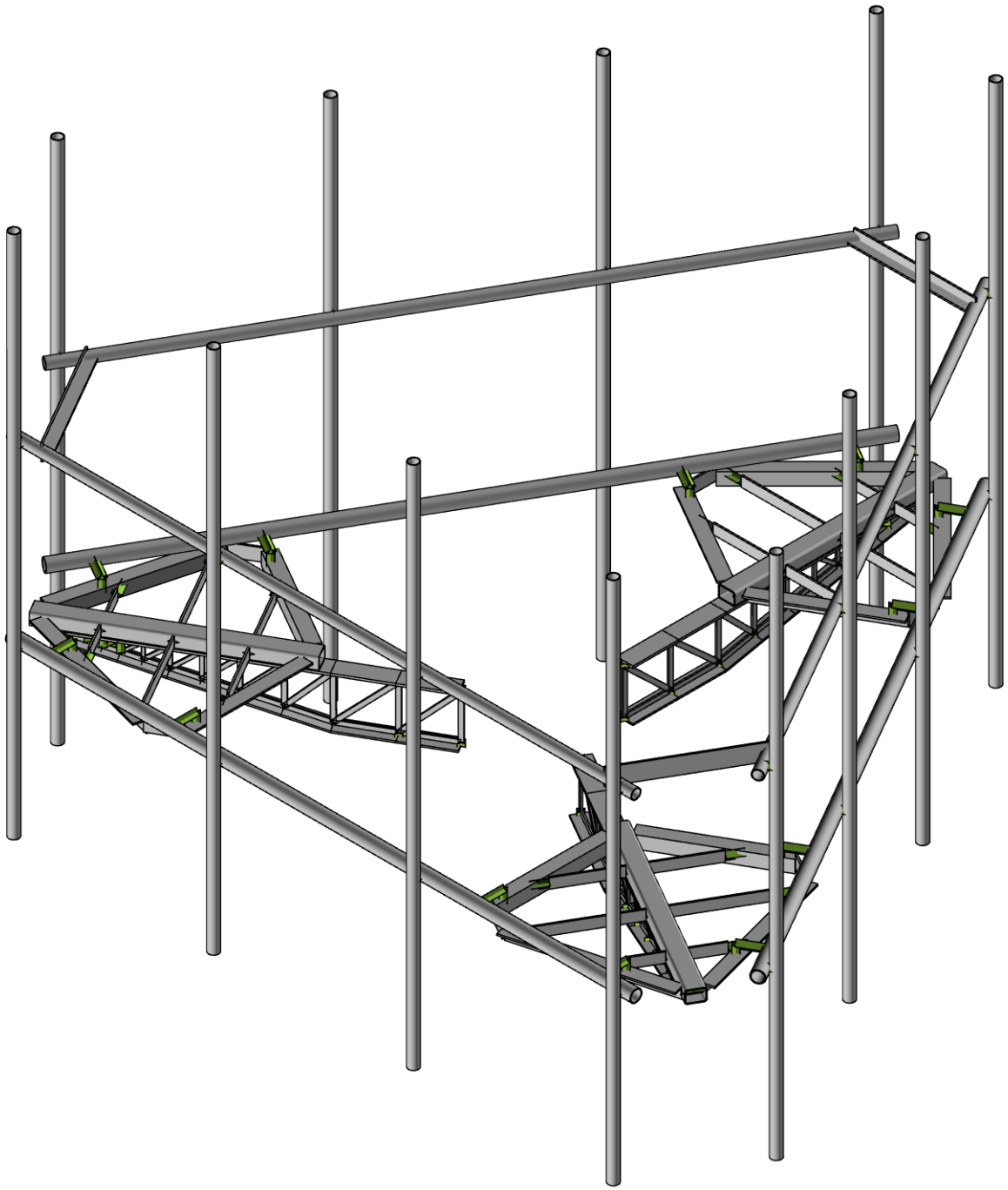
1. Proposed Mount, SitePro1 (Part# F3P-12 with HRK12 Support Rail).
2. Add (12) 2” Std. x 10’-6” long Mount Pipes.

No structural modifications are required at this time, provided that the above-listed changes are implemented.

APPENDIX A

WIRE FRAME AND RENDERED MODELS





Envelope Only Solution

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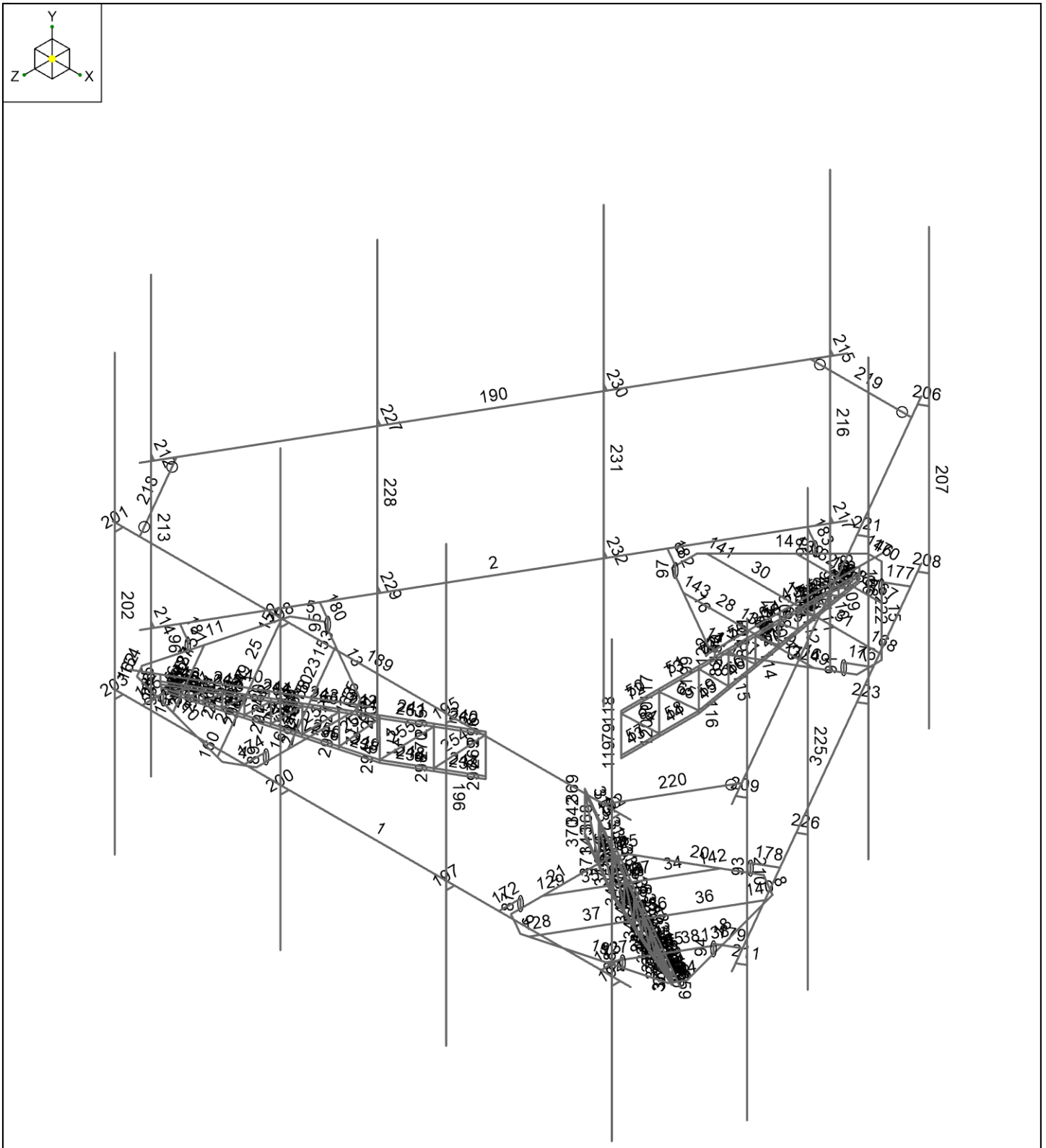

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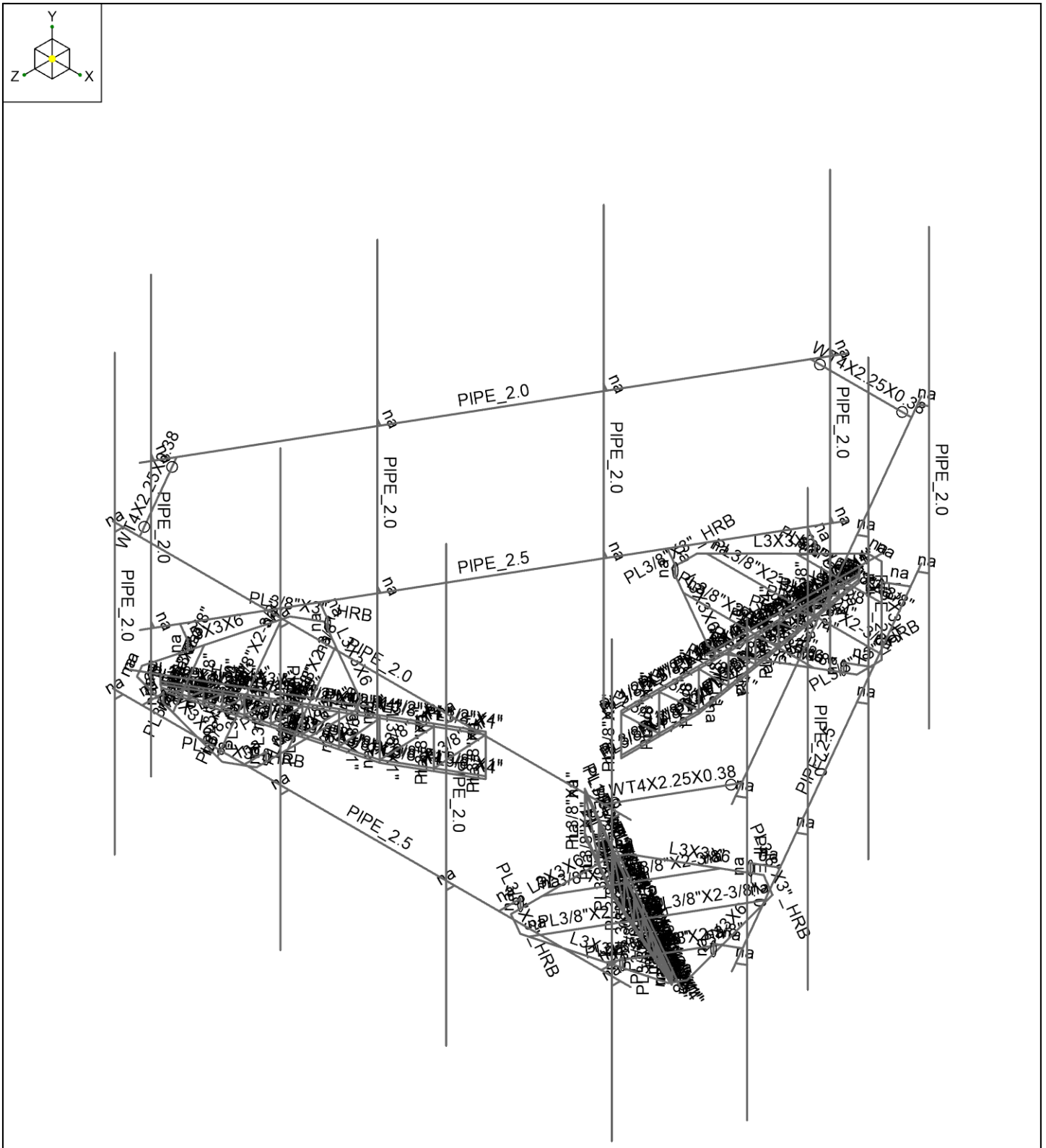

Envelope Only Solution

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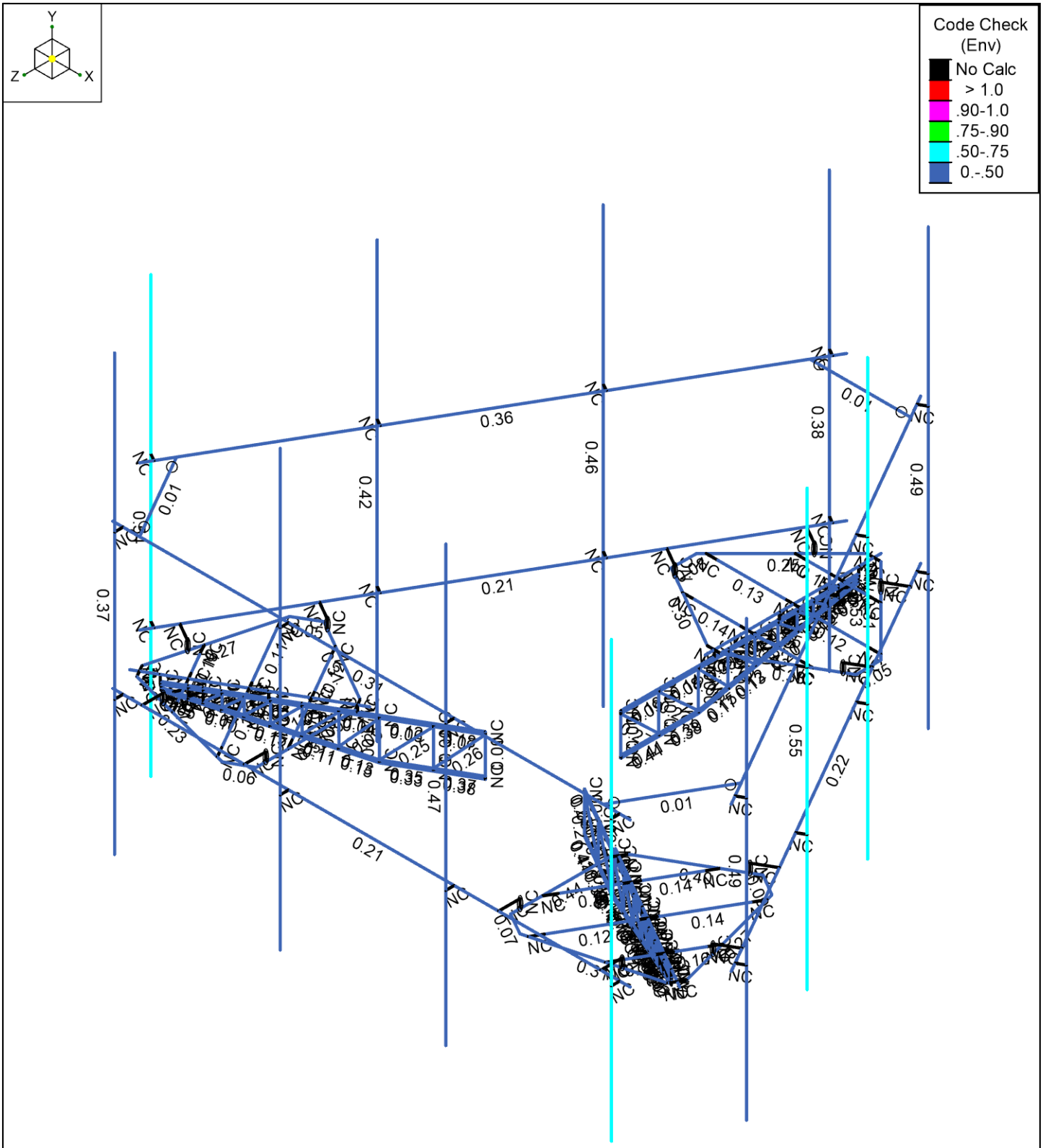

Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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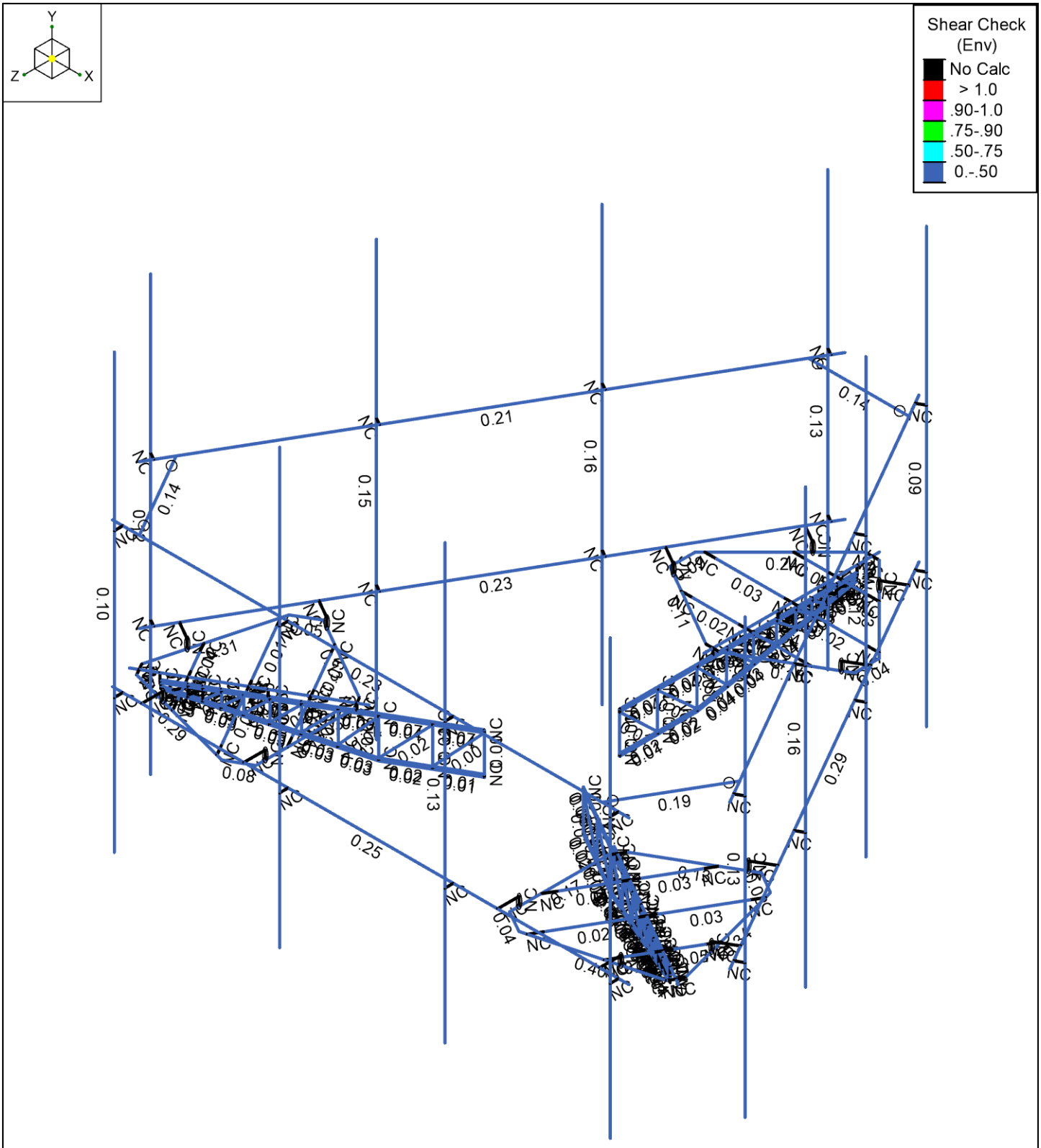

Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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APPENDIX B

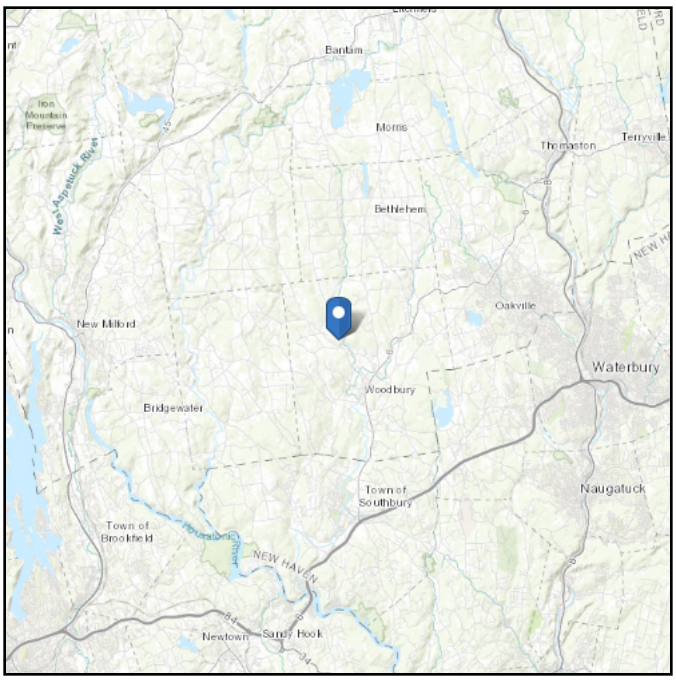
SOFTWARE INPUT CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Elevation: 528.06 ft (NAVD 88)
Latitude: 41.573075
Longitude: -73.227642



Wind

Results:

Wind Speed	115 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	89 Vmph
100-year MRI	96 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Sat Sep 03 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

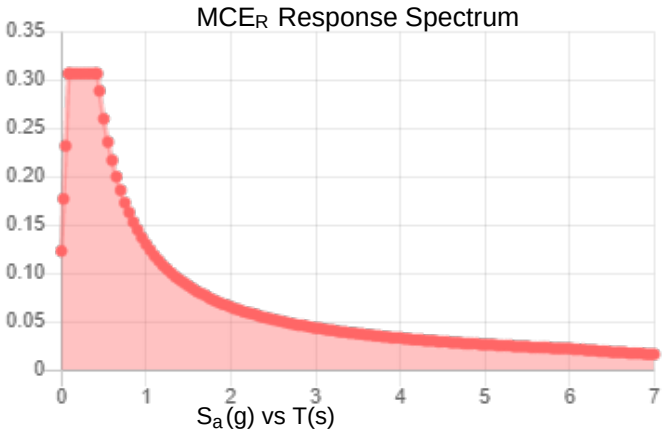
Seismic

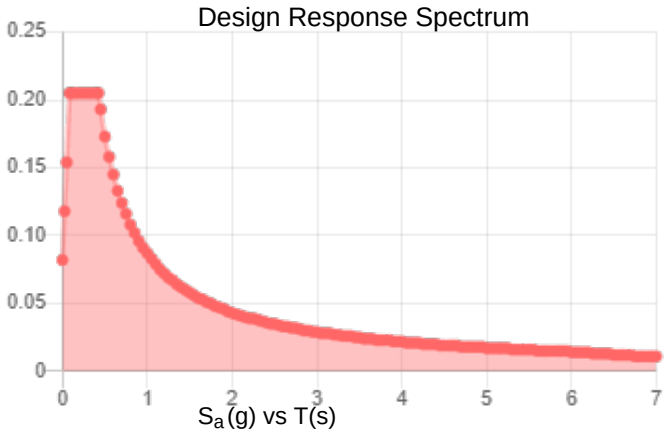
Site Soil Class: D - Default (see Section 11.4.3)

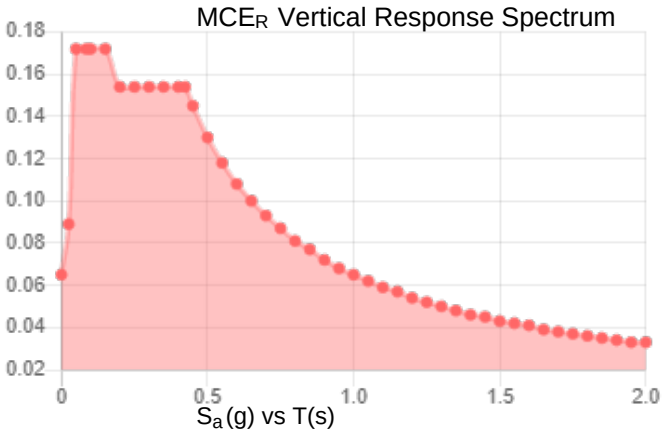
Results:

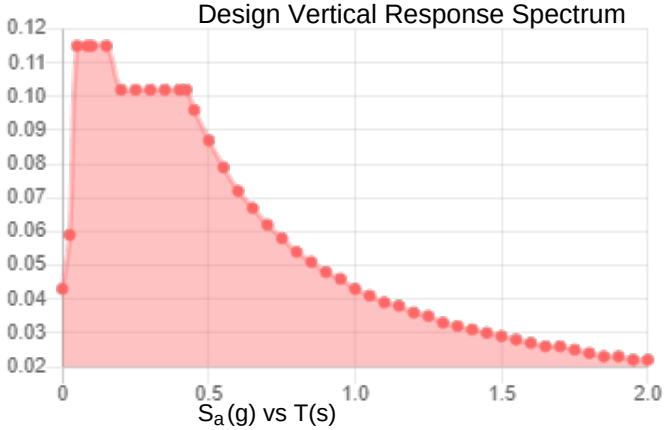
S_S :	0.192	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.106
F_v :	2.4	PGA_M :	0.168
S_{MS} :	0.307	F_{PGA} :	1.589
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.205	C_v :	0.7

Seismic Design Category B









Data Accessed: **Sat Sep 03 2022**

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Sat Sep 03 2022

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

PROJECT	**152945.003.01.0001 - Woodbury Pape**	**KSC**
SUBJECT	**Platform Mount Analysis**	
DATE	**09-05-22**	

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Tower Type		:	Monopole		
Ground Elevation	z_s	:	528	ft	[ASCE7 Hazard Tool]
Tower Height		:	150.00	ft	
Mount Elevation		:	118.00	ft	
Antenna Elevation		:	118.00	ft	
Crest Height		:	0	ft	
Risk Category		:	II		[Table 2-1]
Exposure Category		:	B		[Sec. 2.6.5.1.2]
Topography Category		:	1.00		[Sec. 2.6.6.2]
Wind Velocity	V	:	115	mph	[ASCE7 Hazard Tool]
Ice wind Velocity	V_i	:	50	mph	[ASCE7 Hazard Tool]
Service Velocity	V_s	:	30	mph	[ASCE7 Hazard Tool]
Base Ice thickness	t_i	:	1.00	in	[ASCE7 Hazard Tool]
Seismic Design Cat.		:	B		[ASCE7 Hazard Tool]
	S_S	:	0.19		
	S_1	:	0.05		
	S_{DS}	:	0.21		
	S_{D1}	:	0.09		

Gust Factor	G_h	:	1.00		[Sec. 16.6]
Pressure Coefficient	K_z	:	1.04		[Sec. 2.6.5.2]
Topography Facto	K_{zt}	:	1.00		[Sec. 2.6.6]
Elevation Factor	K_e	:	0.98		[Sec. 2.6.8]
Directionality Factor	K_d	:	0.95		[Sec. 16.6]
Shielding Factor	K_a	:	0.90		[Sec. 16.6]
Design Ice Thickness	t_{iz}	:	1.14	in	[Sec. 2.6.10]

Importance Factor	I_e	:	1		[Table 2-3]
Response Coefficient	C_s	:	0.103		[Sec. 2.7.7.1]
Amplification	A_s	:	2.146667		[Sec. 16.7]

	q_z	:	32.69	psf

PROJECT	**152945.003.01.0001 - Woodbury Pape KSC**
SUBJECT	**Platform Mount Analysis**
DATE	**09-05-22**

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Manufacturer	Model	Qty	Height (in^2)	Width (in^2)	Depth (in^2)	Weight (lbs)	C_aA_a (N) (ft^2)	C_aA_a (T) (ft^2)	C_aA_a (N) Ice (ft^2)	C_aA_a (T) Ice (ft^2)	$F_{A\,(N)}$ (k)	$F_{A\,(T)}$ (k)	$F_{A\,(N)}$ Ice (k)	$F_{A\,(T)}$ Ice (k)
JMA WIRELESS	MX06FRO840-02_CCIV2	1	95.9	19.8	10.7	132.0	10.06	5.19	11.29	6.32	0.33	0.17	0.07	0.04
JMA WIRELESS	MX06FRO840-02_CCIV2	1					10.06	5.19	11.29	6.32	0.33	0.17	0.07	0.04
G TELECOMMUNI(	RF4440D-13A	1	15.0	15.0	10.0	74.7	1.87	1.25	2.47	1.77	0.05	0.04	0.01	0.01
G TELECOMMUNI(	RF4439D-25A	1	15.0	15.0	9.1	72.5	1.87	1.13	2.47	1.63	0.05	0.03	0.01	0.01
G TELECOMMUNI(	MT6407-77A	0.5	35.1	16.1	5.5	81.6	2.35	0.92	2.85	1.38	0.07	0.02	0.01	0.00
G TELECOMMUNI(	MT6407-77A	0.5					2.35	0.92	2.85	1.38	0.07	0.02	0.01	0.00
JMA WIRELESS	MX06FRO860-03	1	95.9	15.4	10.7	91.0	9.01	6.19	10.43	7.54	0.29	0.20	0.06	0.05
JMA WIRELESS	MX06FRO860-03	1					9.01	6.19	10.43	7.54	0.29	0.20	0.06	0.05
G TELECOMMUNI(	RF4440D-13A	1	15.0	15.0	10.0	74.7	1.87	1.25	2.47	1.77	0.05	0.04	0.01	0.01
G TELECOMMUNI(	RF4439D-25A	1	15.0	15.0	9.1	72.5	1.87	1.13	2.47	1.63	0.05	0.03	0.01	0.01
G TELECOMMUNI(	MT6407-77A	0.5	35.1	16.1	5.5	81.6	2.35	0.92	2.85	1.38	0.07	0.02	0.01	0.00
G TELECOMMUNI(	MT6407-77A	0.5					2.35	0.92	2.85	1.38	0.07	0.02	0.01	0.00
JMA WIRELESS	MX06FRO840-02_CCIV2	1	95.9	19.8	10.7	132.0	10.06	5.19	11.29	6.32	0.33	0.17	0.07	0.04
JMA WIRELESS	MX06FRO840-02_CCIV2	1					10.06	5.19	11.29	6.32	0.33	0.17	0.07	0.04
G TELECOMMUNI(	RF4440D-13A	1	15.0	15.0	10.0	74.7	1.87	1.25	2.47	1.77	0.05	0.04	0.01	0.01
G TELECOMMUNI(	RF4439D-25A	1	15.0	15.0	9.1	72.5	1.87	1.13	2.47	1.63	0.05	0.03	0.01	0.01
G TELECOMMUNI(	MT6407-77A	0.5	35.1	16.1	5.5	81.6	2.35	0.92	2.85	1.38	0.07	0.02	0.01	0.00
G TELECOMMUNI(	MT6407-77A	0.5					2.35	0.92	2.85	1.38	0.07	0.02	0.01	0.00
RAYCAP	RVZDC-6627-PF-48_CCIV2	1	29.5	16.5	12.6	32.0	4.06	3.10	4.97	3.94	0.12	0.09	0.02	0.02

APPENDIX C

SOFTWARE ANALYSIS OUTPUT

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	1	0	0.145833	-7.66975	
2	2	0	0.145833	-3.425417	
3	3	0	0.145833	-6.633292	
4	4	0.75	0.145833	-6.633292	
5	5	0	0.145833	-5.558292	
6	6	0	0.145833	-4.450866	
7	7	1.825583	0.145833	-5.558292	
8	8	1.2905	0.145833	-4.455625	
9	9	0.166667	0.145833	-6.633292	
10	10	0.166667	0.145833	-5.558292	
11	11	0.166667	0.145833	-4.455625	
12	12	1.034612	0.145833	-6.633292	
13	13	2.10973	0.145833	-5.558292	
14	14	1.575011	0.145833	-4.455625	
15	15	0	0.145833	-7.501143	
16	16	0	0.145833	-3.642525	
17	17	0.166667	0.145833	-7.501143	
18	18	2.227593	0.145833	-5.440441	
19	19	0.166667	0.145833	-3.642525	
20	20	-0.75	0.145833	-6.633292	
21	21	-1.825583	0.145833	-5.558292	
22	22	-1.2905	0.145833	-4.455625	
23	23	-0.166667	0.145833	-6.633292	
24	24	-0.166667	0.145833	-5.558292	
25	25	-0.166667	0.145833	-4.455625	
26	26	-1.034612	0.145833	-6.633292	
27	27	-2.10973	0.145833	-5.558292	
28	28	-1.575011	0.145833	-4.455625	
29	29	-0.166667	0.145833	-7.501143	
30	30	-2.227593	0.145833	-5.440441	
31	31	-0.166667	0.145833	-3.642525	
32	32	-2.232836	0.145833	-4.835417	
33	33	2.232836	0.145833	-4.835417	
34	34	-0.803917	0.145833	-6.863962	
35	35	6.642192	0.145833	3.834871	
36	36	2.966491	0.145833	1.712704	
37	37	5.744592	0.145833	3.316642	
38	38	5.36959	0.145833	3.966165	
39	39	4.813615	0.145833	2.779142	
40	40	3.858678	0.145833	2.227809	
41	41	3.900821	0.145833	4.360148	
42	42	3.213425	0.145833	3.345419	
43	43	5.661257	0.145833	3.460984	
44	44	4.730279	0.145833	2.923484	
45	45	3.775342	0.145833	2.37215	
46	46	5.227284	0.145833	4.212647	
47	47	3.758748	0.145833	4.606226	
48	48	3.071177	0.145833	3.5918	
49	49	6.496173	0.145833	3.750567	
50	50	3.154519	0.145833	1.821262	
51	51	6.412837	0.145833	3.894909	
52	52	3.597754	0.145833	4.649373	
53	53	3.071177	0.145833	1.9656	
54	54	6.11959	0.145833	2.667127	
55	55	5.726404	0.145833	1.198145	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
56	56	4.503925	0.145833	1.110207	
57	57	5.827923	0.145833	3.172309	
58	58	4.896946	0.145833	2.634809	
59	59	3.942009	0.145833	2.083475	
60	60	6.261896	0.145833	2.420646	
61	61	5.868478	0.145833	0.952067	
62	62	4.646181	0.145833	0.863813	
63	63	6.579504	0.145833	3.606234	
64	64	5.825348	0.145833	0.791068	
65	65	3.237843	0.145833	1.676925	
66	66	5.304002	0.145833	0.484016	
67	67	3.071167	0.145833	4.351401	
68	68	3.071168	0.354083	4.120184	
69	69	5.542398	0.354083	4.128194	
70	70	3.071177	0.145833	4.120184	
71	71	3.071168	0.354083	4.641048	
72	72	5.542398	0.145833	4.128194	
73	73	5.542398	0.354083	4.641048	
74	74	-6.642189	0.145833	3.834853	
75	75	-2.966489	0.145833	1.712686	
76	76	-5.74459	0.145833	3.316624	
77	77	-6.11959	0.145833	2.667105	
78	78	-4.813613	0.145833	2.779124	
79	79	-3.858675	0.145833	2.22779	
80	80	-5.726404	0.145833	1.198122	
81	81	-4.503925	0.145833	1.110185	
82	82	-5.827923	0.145833	3.172286	
83	83	-4.896946	0.145833	2.634786	
84	84	-3.942009	0.145833	2.083453	
85	85	-6.261896	0.145833	2.420623	
86	86	-5.868478	0.145833	0.952044	
87	87	-4.646181	0.145833	0.863791	
88	88	-6.496171	0.145833	3.750549	
89	89	-3.154549	0.145833	1.821262	
90	90	-6.579504	0.145833	3.606211	
91	91	-5.825348	0.145833	0.791046	
92	92	-3.237843	0.145833	1.676903	
93	93	-5.36959	0.145833	3.966143	
94	94	-3.900821	0.145833	4.360125	
95	95	-3.213425	0.145833	3.345396	
96	96	-5.661257	0.145833	3.460961	
97	97	-4.730279	0.145833	2.923461	
98	98	-3.775342	0.145833	2.372128	
99	99	-5.227284	0.145833	4.212624	
100	100	-3.758748	0.145833	4.606203	
101	101	-3.071177	0.145833	3.591778	
102	102	-6.412837	0.145833	3.894887	
103	103	-3.597754	0.145833	4.649351	
104	104	-3.071177	0.145833	1.965578	
105	105	-3.071168	0.354083	4.120161	
106	106	-3.071167	0.145833	4.351379	
107	107	-5.304002	0.145833	0.483994	
108	108	-5.542398	0.354083	4.128171	
109	109	-3.071177	0.145833	4.120161	
110	110	-3.071168	0.354083	4.641048	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
111	111	-5.542398	0.145833	4.128171	
112	112	-5.542398	0.354083	4.641048	
113	113	-6.346315	0.354083	2.735747	
114	114	2.032595	0.354083	-4.719809	
115	115	0.803917	0.354083	-6.863962	
116	116	2.032595	0.145833	-4.719809	
117	117	2.483675	0.354083	-4.98024	
118	118	0.803917	0.145833	-6.863962	
119	119	1.248065	0.354083	-7.120381	
120	120	5.103763	0.354083	0.599626	
121	121	6.346315	0.354083	2.735769	
122	122	5.103763	0.145833	0.599626	
123	123	5.554846	0.354083	0.339193	
124	124	6.346315	0.145833	2.735769	
125	125	6.790457	0.354083	2.479338	
126	126	-5.103763	0.354083	0.599603	
127	127	-5.103763	0.145833	0.599603	
128	128	-5.554843	0.354083	0.339172	
129	129	-6.346315	0.145833	2.735747	
130	130	-6.790467	0.354083	2.479332	
131	131	-2.032595	0.354083	-4.719809	
132	132	-0.803917	0.354083	-6.863962	
133	133	-2.032595	0.145833	-4.719809	
134	134	-2.483677	0.354083	-4.980241	
135	135	-1.248066	0.354083	-7.120381	
136	136	-6.250009	0.354083	4.641048	
137	137	6.250009	0.354083	4.641048	
138	138	7.144265	0.354083	3.092151	
139	139	0.894256	0.354083	-7.733198	
140	140	-0.894256	0.354083	-7.733198	
141	141	-7.144265	0.354083	3.092129	
142	142	0	0.145833	-5.21517	
143	143	2.456763	0.354083	-5.026852	
144	144	4.01926	0.354083	-2.320521	
145	145	0	0	-3.256805	
146	146	0	0	-3.642525	
147	147	0	0	-6.039461	
148	148	0	0	-7.131837	
149	149	0	-0.994667	-3.256805	
150	150	0	-0.0625	-3.256805	
151	151	0	0	-3.975076	
152	152	0	0	-4.623067	
153	153	0	0	-5.17961	
154	154	0	0	-5.646265	
155	155	0	0	-6.371182	
156	156	0	0	-6.630627	
157	157	0	-0.0625	-3.975076	
158	158	0	-0.0625	-4.623067	
159	159	0	-0.0625	-5.17958	
160	160	0	-0.0625	-5.646265	
161	161	0	-0.0625	-6.039461	
162	162	0	-0.0625	-6.371182	
163	163	0	-0.0625	-6.630627	
164	164	0	-0.933227	-3.255454	
165	165	0	-0.645779	-4.623067	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
166	166	0	-0.843021	-3.983329	
167	167	0	-0.590665	-5.19234	
168	168	0	-0.70683	-4.635806	
169	169	0	-0.493261	-5.658997	
170	170	0	-0.41119	-6.052189	
171	171	0	-0.341951	-6.383906	
172	172	0	-0.287798	-6.643348	
173	173	0	-0.781876	-3.97057	
174	174	0	-0.529639	-5.17958	
175	175	0	-0.432245	-5.646265	
176	176	0	-0.350195	-6.039461	
177	177	0	-0.280974	-6.371182	
178	178	0	-0.226577	-6.630573	
179	179	0	-0.0625	-7.131837	
180	180	0	-0.125272	-7.113652	
181	181	0	-0.189155	-7.11594	
182	182	0	0	-2.298472	
183	183	0	-0.994667	-2.298472	
184	184	0	-0.0625	-2.298472	
185	185	0	-0.933213	-2.298472	
186	186	0	0	-1.381837	
187	187	0	-0.994667	-1.381837	
188	188	0	-0.0625	-1.381837	
189	189	0	-0.933213	-1.381837	
190	190	0	0	-5.21517	
191	191	0	-0.171393	-6.893724	
192	192	0	-0.0625	-6.263544	
193	193	0	0.145833	-7.131837	
194	194	5.581765	0.354083	0.385822	
195	195	-5.581763	0.354083	0.385807	
196	196	-4.01926	0.354083	-2.320521	
197	197	-2.456751	0.354083	-5.026861	
198	198	3.125	0.354083	4.641045	
199	199	0	0.354083	4.641042	
200	200	-3.125014	0.354083	4.641039	
201	201	0	0	0	
202	202	-6.250009	3.854083	4.641048	
203	203	6.250009	3.854083	4.641048	
204	204	7.144265	3.854083	3.092151	
205	205	0.894256	3.854083	-7.733198	
206	206	-0.894256	3.854083	-7.733198	
207	207	-7.144265	3.854083	3.092129	
208	208	6.000008	3.854083	4.641048	
209	209	6.000008	3.854083	4.844148	
210	210	6.000008	7.604083	4.844148	
211	211	6.000008	-2.895917	4.844148	
212	212	6.000008	0.354083	4.641048	
213	213	6.000008	0.354083	4.844148	
214	214	2.000008	3.854083	4.641048	
215	215	2.000008	3.854083	4.844148	
216	216	2.000008	7.604083	4.844148	
217	217	2.000008	-2.895917	4.844148	
218	218	2.000008	0.354083	4.641048	
219	219	2.000008	0.354083	4.844148	
220	220	-1.999992	3.854083	4.641048	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
221	221	-1.999992	3.854083	4.844148	
222	222	-1.999992	7.604083	4.844148	
223	223	-1.999992	-2.895917	4.844148	
224	224	-1.999992	0.354083	4.641048	
225	225	-1.999992	0.354083	4.844148	
226	226	-5.999992	3.854083	4.641048	
227	227	-5.999992	3.854083	4.844148	
228	228	-5.999992	7.604083	4.844148	
229	229	-5.999992	-2.895917	4.844148	
230	230	-5.999992	0.354083	4.641048	
231	231	-5.999992	0.354083	4.844148	
232	232	-3.154519	0	1.821263	
233	233	3.154519	0	1.821263	
234	234	1.019261	3.854083	-7.516683	
235	235	1.195151	3.854083	-7.618233	
236	236	1.195151	7.604083	-7.618233	
237	237	1.195151	-2.895917	-7.618233	
238	238	1.019261	0.354083	-7.516683	
239	239	1.195151	0.354083	-7.618233	
240	240	7.019254	3.854083	2.875626	
241	241	7.195151	3.854083	2.774072	
242	242	7.195151	7.604083	2.774072	
243	243	7.195151	-2.895917	2.774072	
244	244	7.019254	0.354083	2.875626	
245	245	7.195151	0.354083	2.774072	
246	246	-7.019271	3.854083	2.875634	
247	247	-7.195159	3.854083	2.774085	
248	248	-7.195159	7.604083	2.774085	
249	249	-7.195159	-2.895917	2.774085	
250	250	-7.019271	0.354083	2.875634	
251	251	-7.195159	0.354083	2.774085	
252	252	-1.019269	3.854083	-7.51667	
253	253	-1.195159	3.854083	-7.61822	
254	254	-1.195159	7.604083	-7.61822	
255	255	-1.195159	-2.895917	-7.61822	
256	256	-1.019269	0.354083	-7.51667	
257	257	-1.195159	0.354083	-7.61822	
258	258	5.601086	3.854083	4.641048	
259	259	-6.819803	3.854083	2.530145	
260	260	1.218717	3.854083	-7.171214	
261	261	-5.601062	3.854083	4.641048	
262	262	6.819785	3.854083	2.530134	
263	263	-1.218718	3.854083	-7.171214	
264	264	3.019259	3.854083	-4.05258	
265	265	3.195151	3.854083	-4.154131	
266	266	3.195151	7.604083	-4.154131	
267	267	3.195151	-2.895917	-4.154131	
268	268	3.019259	0.354083	-4.05258	
269	269	3.195151	0.354083	-4.154131	
270	270	5.019256	3.854083	-0.588477	
271	271	5.195151	3.854083	-0.69003	
272	272	5.195151	7.604083	-0.69003	
273	273	5.195151	-2.895917	-0.69003	
274	274	5.019256	0.354083	-0.588477	
275	275	5.195151	0.354083	-0.69003	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
276	276	-5.019271	3.854083	-0.588467	
277	277	-5.195159	3.854083	-0.690016	
278	278	-5.195159	7.604083	-0.690016	
279	279	-5.195159	-2.895917	-0.690016	
280	280	-5.019271	0.354083	-0.588467	
281	281	-5.195159	0.354083	-0.690016	
282	282	-3.01927	3.854083	-4.052568	
283	283	-3.195159	3.854083	-4.154118	
284	284	-3.195159	7.604083	-4.154118	
285	285	-3.195159	-2.895917	-4.154118	
286	286	-3.01927	0.354083	-4.052568	
287	287	-3.195159	0.354083	-4.154118	
288	288	-4.516499	0.145833	2.607585	
289	289	-2.820476	0	1.628403	
290	290	-5.230327	0	3.01973	
291	291	-6.176352	0	3.565918	
292	292	-2.820476	-0.994667	1.628403	
293	293	-2.820476	-0.0625	1.628403	
294	294	-3.442517	0	1.987538	
295	295	-4.003693	0	2.311533	
296	296	-4.485648	0	2.58979	
297	297	-4.889809	0	2.823132	
298	298	-5.517605	0	3.185591	
299	299	-5.742291	0	3.315313	
300	300	-3.442517	-0.0625	1.987538	
301	301	-4.003693	-0.0625	2.311533	
302	302	-4.485648	-0.0625	2.58979	
303	303	-4.889809	-0.0625	2.823132	
304	304	-5.230327	-0.0625	3.01973	
305	305	-5.517605	-0.0625	3.185591	
306	306	-5.742245	-0.0625	3.315286	
307	307	-2.819306	-0.933227	1.627727	
308	308	-4.003693	-0.645779	2.311533	
309	309	-3.449664	-0.843021	1.991665	
310	310	-4.496698	-0.590665	2.59617	
311	311	-4.014726	-0.70683	2.317903	
312	312	-4.900835	-0.493261	2.829498	
313	313	-5.241349	-0.41119	3.026095	
314	314	-5.528625	-0.341951	3.191953	
315	315	-5.753308	-0.287798	3.321674	
316	316	-3.438614	-0.781876	1.985285	
317	317	-4.485648	-0.529639	2.58979	
318	318	-4.889809	-0.432245	2.823132	
319	319	-5.230327	-0.350195	3.01973	
320	320	-5.517605	-0.280974	3.185591	
321	321	-5.742245	-0.226577	3.315286	
322	322	-6.176352	-0.0625	3.565918	
323	323	-6.160603	-0.125272	3.556826	
324	324	-6.162585	-0.189155	3.55797	
325	325	-1.990535	0	1.149236	
326	326	-1.990535	-0.994667	1.149236	
327	327	-1.990535	-0.0625	1.149236	
328	328	-1.990535	-0.933213	1.149236	
329	329	-1.196706	0	0.690918	
330	330	-1.196706	-0.994667	0.690918	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
331	331	-1.196706	-0.0625	0.690918	
332	332	-1.196706	-0.933213	0.690918	
333	333	-4.51647	0	2.607585	
334	334	-5.97014	-0.171393	3.446862	
335	335	-5.424388	-0.0625	3.131772	
336	336	-6.176381	0.145833	3.565918	
337	337	4.51647	0.145833	2.607585	
338	338	2.820476	0	1.628403	
339	339	5.230327	0	3.01973	
340	340	6.176352	0	3.565918	
341	341	2.820476	-0.994667	1.628403	
342	342	2.820476	-0.0625	1.628403	
343	343	3.442517	0	1.987538	
344	344	4.003693	0	2.311533	
345	345	4.485648	0	2.58979	
346	346	4.889809	0	2.823132	
347	347	5.517605	0	3.185591	
348	348	5.742291	0	3.315313	
349	349	3.442517	-0.0625	1.987538	
350	350	4.003693	-0.0625	2.311533	
351	351	4.485648	-0.0625	2.58979	
352	352	4.889809	-0.0625	2.823132	
353	353	5.230327	-0.0625	3.01973	
354	354	5.517605	-0.0625	3.185591	
355	355	5.742245	-0.0625	3.315286	
356	356	2.819306	-0.933227	1.627727	
357	357	4.003693	-0.645779	2.311533	
358	358	3.449664	-0.843021	1.991665	
359	359	4.496698	-0.590665	2.59617	
360	360	4.014726	-0.70683	2.317903	
361	361	4.900835	-0.493261	2.829498	
362	362	5.241349	-0.41119	3.026095	
363	363	5.528625	-0.341951	3.191953	
364	364	5.753308	-0.287798	3.321674	
365	365	3.438614	-0.781876	1.985285	
366	366	4.485648	-0.529639	2.58979	
367	367	4.889809	-0.432245	2.823132	
368	368	5.230327	-0.350195	3.01973	
369	369	5.517605	-0.280974	3.185591	
370	370	5.742245	-0.226577	3.315286	
371	371	6.176352	-0.0625	3.565918	
372	372	6.160603	-0.125272	3.556826	
373	373	6.162585	-0.189155	3.55797	
374	374	1.990535	0	1.149236	
375	375	1.990535	-0.994667	1.149236	
376	376	1.990535	-0.0625	1.149236	
377	377	1.990535	-0.933213	1.149236	
378	378	1.196706	0	0.690918	
379	379	1.196706	-0.994667	0.690918	
380	380	1.196706	-0.0625	0.690918	
381	381	1.196706	-0.933213	0.690918	
382	382	4.51647	0	2.607585	
383	383	5.97014	-0.171393	3.446862	
384	384	5.424388	-0.0625	3.131772	
385	385	6.176352	0.145833	3.565918	

Node Coordinates (Continued)

Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm

Node Boundary Conditions

	Node 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	145						
2	149						
3	182						
4	183						
5	186	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	187	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
7	289						
8	292						
9	325						
10	326						
11	329	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
12	330	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
13	338						
14	341						
15	374						
16	375						
17	378	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
18	379	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e^{5}°F^{-1}]	Density [k/ft^{3}]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
8	Q235	29000	11154	0.3	0.65	0.49	35	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in^{2}]	Iyy [in^{4}]	Izz [in^{4}]	J [in^{4}]
1	FH-Pipe	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
2	AM-Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
3	SA-TopChord-Plate	PL1/2"X4"	Beam	RECT	A572 Gr.50	Typical	2	0.042	2.667	0.154
4	SA-BotChord-Plate	PL3/8"X4"	Beam	RECT	A572 Gr.50	Typical	1.5	0.018	2	0.066
5	SA-WebVert-Plate	PL3/8"X1"	Column	RECT	A572 Gr.50	Typical	0.38	0.005	0.032	0.014
6	SA-WebDiag-Plate	PL3/8"X1"	VBrace	RECT	A572 Gr.50	Typical	0.38	0.005	0.032	0.014
7	PF-Angle	L3X3X6	Beam	Single Angle	A53 Gr.B	Typical	2.11	1.75	1.75	0.101
8	PJ-Plate	PL3/8"X2-3/8"	Beam	RECT	A572 Gr.50	Typical	0.904	0.011	0.427	0.039
9	PS-Tube	HSS4X3X4	Beam	Tube	A53 Gr.B	Typical	2.91	3.91	6.15	7.96
10	PB-Plate	PL3/8"X3"_HRB	Beam	RECT	A572 Gr.50	Typical	1.125	0.013	0.844	0.049
11	F1-S7	PL3/8"X5/8"	Column	RECT	A572 Gr.50	Typical	0.234	0.003	0.008	0.007
12	F1-S8	PL3/8"X7/8"	Column	RECT	A572 Gr.50	Typical	0.328	0.004	0.021	0.011
13	SA-WebDiag-Rod#1	PL3/8"X7/8"	VBrace	RECT	A572 Gr.50	Typical	0.328	0.004	0.021	0.011
14	SA-WebDiag.Rod#3	PL3/8"X5/8"	VBrace	RECT	A572 Gr.50	Typical	0.234	0.003	0.008	0.007
15	SA-WebDiag-Rod#2	PL3/8"X3/4"	VBrace	RECT	A572 Gr.50	Typical	0.281	0.003	0.013	0.009
16	F1-S9	PL3/8"X3/4"	Column	RECT	A572 Gr.50	Typical	0.281	0.003	0.013	0.009
17	SA-WebChord-Plate	PL3/8"X1"	Beam	RECT	A572 Gr.50	Typical	0.38	0.005	0.032	0.014
18	Support Rail	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
19	SR-CA1	WT4X2.25X0.38	Beam	W_Tee	A36 Gr.36	Typical	2.203	2.008	0.829	0.104

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	1	137	136		FH-Pipe	Beam	Pipe	A53 Gr.B	Typical
2	2	141	140		FH-Pipe	Beam	Pipe	A53 Gr.B	Typical
3	3	139	138		FH-Pipe	Beam	Pipe	A53 Gr.B	Typical
4	4	103	106		PB-Plate	Beam	RECT	A572 Gr.50	Typical
5	5	91	107		PB-Plate	Beam	RECT	A572 Gr.50	Typical
6	6	30	32		PB-Plate	Beam	RECT	A572 Gr.50	Typical
7	7	18	33		PB-Plate	Beam	RECT	A572 Gr.50	Typical
8	8	64	66		PB-Plate	Beam	RECT	A572 Gr.50	Typical
9	9	52	67		PB-Plate	Beam	RECT	A572 Gr.50	Typical
10	10	102	103	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
11	11	90	91	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
12	12	104	106	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
13	13	92	107	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
14	14	29	30	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
15	15	17	18	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
16	16	31	32	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
17	17	19	33	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
18	18	63	64	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
19	19	51	52	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
20	20	65	66	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
21	21	53	67	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
22	22	98	95		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
23	23	84	81		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
24	24	97	94		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
25	25	83	80		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
26	26	96	93		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
27	27	82	77		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
28	28	25	22		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
29	29	11	8		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
30	30	24	21		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
31	31	10	7		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
32	32	23	20		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
33	33	9	4		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
34	34	59	56		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
35	35	45	42		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
36	36	58	55		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
37	37	44	41		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
38	38	57	54		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
39	39	43	38		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
40	40	74	75	90	PS-Tube	Beam	Tube	A53 Gr.B	Typical
41	41	1	2	90	PS-Tube	Beam	Tube	A53 Gr.B	Typical
42	42	35	36	90	PS-Tube	Beam	Tube	A53 Gr.B	Typical
43	43	183	187	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
44	44	149	183	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
45	45	166	149	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
46	46	168	166	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
47	47	169	168	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
48	48	171	169	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
49	49	181	171	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
50	50	182	186	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
51	51	145	182	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
52	52	151	145	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
53	53	152	151	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
54	54	154	152	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
55	55	155	154	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
56	56	148	155	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
57	57	185	189		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
58	58	164	185		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
59	59	173	164		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
60	60	165	173		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
61	61	175	165		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
62	62	177	175		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
63	63	180	177		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
64	64	185	188		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
65	65	164	184		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
66	66	150	173		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
67	67	157	165		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
68	68	174	158		SA-WebDiag-Rod#1	VBrace	RECT	A572 Gr.50	Typical
69	69	175	159		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
70	70	176	160		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
71	71	177	161		SA-WebDiag.Rod#3	VBrace	RECT	A572 Gr.50	Typical
72	72	184	188		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
73	73	150	184		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
74	74	157	150		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
75	75	158	157		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
76	76	160	158		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
77	77	162	160		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
78	78	179	162		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
79	79	189	188	90	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
80	80	185	184	90	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
81	81	164	150		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
82	82	173	157		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
83	83	165	158	90	F1-S8	Column	RECT	A572 Gr.50	Typical
84	84	174	159	90	F1-S9	Column	RECT	A572 Gr.50	Typical
85	85	175	160	90	F1-S9	Column	RECT	A572 Gr.50	Typical
86	86	176	161	90	F1-S7	Column	RECT	A572 Gr.50	Typical
87	87	70	68		RIGID	None	None	RIGID	Typical
88	88	72	69		RIGID	None	None	RIGID	Typical
89	89	109	105		RIGID	None	None	RIGID	Typical
90	90	111	108		RIGID	None	None	RIGID	Typical
91	91	116	114		RIGID	None	None	RIGID	Typical
92	92	118	115		RIGID	None	None	RIGID	Typical
93	93	122	120		RIGID	None	None	RIGID	Typical
94	94	124	121		RIGID	None	None	RIGID	Typical
95	95	127	126		RIGID	None	None	RIGID	Typical
96	96	129	113		RIGID	None	None	RIGID	Typical
97	97	133	131		RIGID	None	None	RIGID	Typical
98	98	34	132		RIGID	None	None	RIGID	Typical
99	99	150	145		RIGID	None	None	RIGID	Typical
100	100	157	151		RIGID	None	None	RIGID	Typical
101	101	158	152		RIGID	None	None	RIGID	Typical
102	102	159	153		RIGID	None	None	RIGID	Typical
103	103	160	154		RIGID	None	None	RIGID	Typical
104	104	161	147		RIGID	None	None	RIGID	Typical
105	105	162	155		RIGID	None	None	RIGID	Typical
106	106	163	156		RIGID	None	None	RIGID	Typical
107	107	179	148		RIGID	None	None	RIGID	Typical
108	108	181	180		RIGID	None	None	RIGID	Typical
109	109	172	178		RIGID	None	None	RIGID	Typical
110	110	171	177		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
111	111	170	176		RIGID	None	None	RIGID	Typical
112	112	169	175		RIGID	None	None	RIGID	Typical
113	113	167	174		RIGID	None	None	RIGID	Typical
114	114	168	165		RIGID	None	None	RIGID	Typical
115	115	166	173		RIGID	None	None	RIGID	Typical
116	116	149	164		RIGID	None	None	RIGID	Typical
117	117	184	182	90	RIGID	None	None	RIGID	Typical
118	118	188	186	90	RIGID	None	None	RIGID	Typical
119	119	187	189	90	RIGID	None	None	RIGID	Typical
120	120	183	185	90	RIGID	None	None	RIGID	Typical
121	121	190	142		CLAMP	None	None	RIGID	DR1
122	122	146	16		CLAMP	None	None	RIGID	DR1
123	123	148	193		CLAMP	None	None	RIGID	DR1
124	124	37	43		CONNECTION	None	None	RIGID	DR1
125	125	39	44		CONNECTION	None	None	RIGID	DR1
126	126	40	45		CONNECTION	None	None	RIGID	DR1
127	127	38	46		CONNECTION	None	None	RIGID	DR1
128	128	41	47		CONNECTION	None	None	RIGID	DR1
129	129	42	48		CONNECTION	None	None	RIGID	DR1
130	130	49	51		CONNECTION	None	None	RIGID	DR1
131	131	3	23		CONNECTION	None	None	RIGID	DR1
132	132	50	53		CONNECTION	None	None	RIGID	DR1
133	133	5	24		CONNECTION	None	None	RIGID	DR1
134	134	6	25		CONNECTION	None	None	RIGID	DR1
135	135	37	57		CONNECTION	None	None	RIGID	DR1
136	136	39	58		CONNECTION	None	None	RIGID	DR1
137	137	40	59		CONNECTION	None	None	RIGID	DR1
138	138	54	60		CONNECTION	None	None	RIGID	DR1
139	139	20	26		CONNECTION	None	None	RIGID	DR1
140	140	55	61		CONNECTION	None	None	RIGID	DR1
141	141	21	27		CONNECTION	None	None	RIGID	DR1
142	142	56	62		CONNECTION	None	None	RIGID	DR1
143	143	22	28		CONNECTION	None	None	RIGID	DR1
144	144	49	63		CONNECTION	None	None	RIGID	DR1
145	145	50	65		CONNECTION	None	None	RIGID	DR1
146	146	15	29		CONNECTION	None	None	RIGID	DR1
147	147	16	31		CONNECTION	None	None	RIGID	DR1
148	148	76	82		CONNECTION	None	None	RIGID	DR1
149	149	78	83		CONNECTION	None	None	RIGID	DR1
150	150	79	84		CONNECTION	None	None	RIGID	DR1
151	151	77	85		CONNECTION	None	None	RIGID	DR1
152	152	80	86		CONNECTION	None	None	RIGID	DR1
153	153	81	87		CONNECTION	None	None	RIGID	DR1
154	154	88	90		CONNECTION	None	None	RIGID	DR1
155	155	89	92		CONNECTION	None	None	RIGID	DR1
156	156	76	96		CONNECTION	None	None	RIGID	DR1
157	157	78	97		CONNECTION	None	None	RIGID	DR1
158	158	79	98		CONNECTION	None	None	RIGID	DR1
159	159	93	99		CONNECTION	None	None	RIGID	DR1
160	160	94	100		CONNECTION	None	None	RIGID	DR1
161	161	95	101		CONNECTION	None	None	RIGID	DR1
162	162	88	102		CONNECTION	None	None	RIGID	DR1
163	163	89	104		CONNECTION	None	None	RIGID	DR1
164	164	3	9		CONNECTION	None	None	RIGID	DR1
165	165	5	10		CONNECTION	None	None	RIGID	DR1

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
166	166	6	11		CONNECTION	None	None	RIGID	DR1
167	167	4	12		CONNECTION	None	None	RIGID	DR1
168	168	7	13		CONNECTION	None	None	RIGID	DR1
169	169	8	14		CONNECTION	None	None	RIGID	DR1
170	170	15	17		CONNECTION	None	None	RIGID	DR1
171	171	16	19		CONNECTION	None	None	RIGID	DR1
172	172	68	71		BRACKET	None	None	RIGID	DR1
173	173	69	73		BRACKET	None	None	RIGID	DR1
174	174	105	110		BRACKET	None	None	RIGID	DR1
175	175	108	112		BRACKET	None	None	RIGID	DR1
176	176	114	117		BRACKET	None	None	RIGID	DR1
177	177	115	119		BRACKET	None	None	RIGID	DR1
178	178	120	123		BRACKET	None	None	RIGID	DR1
179	179	121	125		BRACKET	None	None	RIGID	DR1
180	180	126	128		BRACKET	None	None	RIGID	DR1
181	181	113	130		BRACKET	None	None	RIGID	DR1
182	182	131	134		BRACKET	None	None	RIGID	DR1
183	183	132	135		BRACKET	None	None	RIGID	DR1
184	184	162	178		RIGID	None	None	RIGID	Typical
185	185	163	191		RIGID	None	None	RIGID	Typical
186	186	177	162		RIGID	None	None	RIGID	Typical
187	187	178	163		RIGID	None	None	RIGID	Typical
188	188	180	179		RIGID	None	None	RIGID	Typical
189	189	203	202		Support Rail	Beam	Pipe	A53 Gr.B	Typical
190	190	207	206		Support Rail	Beam	Pipe	A53 Gr.B	Typical
191	191	205	204		Support Rail	Beam	Pipe	A53 Gr.B	Typical
192	192	208	209		RIGID	None	None	RIGID	Typical
193	193	210	211		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
194	194	213	212		RIGID	None	None	RIGID	Typical
195	195	214	215		RIGID	None	None	RIGID	Typical
196	196	216	217		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
197	197	219	218		RIGID	None	None	RIGID	Typical
198	198	220	221		RIGID	None	None	RIGID	Typical
199	199	222	223		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
200	200	225	224		RIGID	None	None	RIGID	Typical
201	201	226	227		RIGID	None	None	RIGID	Typical
202	202	228	229		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
203	203	231	230		RIGID	None	None	RIGID	Typical
204	204	232	89		CLAMP	None	None	RIGID	DR1
205	205	233	50		CLAMP	None	None	RIGID	DR1
206	206	234	235		RIGID	None	None	RIGID	Typical
207	207	236	237		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
208	208	239	238		RIGID	None	None	RIGID	Typical
209	209	240	241		RIGID	None	None	RIGID	Typical
210	210	242	243		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
211	211	245	244		RIGID	None	None	RIGID	Typical
212	212	246	247		RIGID	None	None	RIGID	Typical
213	213	248	249		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
214	214	251	250		RIGID	None	None	RIGID	Typical
215	215	252	253		RIGID	None	None	RIGID	Typical
216	216	254	255		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
217	217	257	256		RIGID	None	None	RIGID	Typical
218	218	259	261	90	SR-CA1	Beam	W_Tee	A36 Gr.36	Typical
219	219	260	263	90	SR-CA1	Beam	W_Tee	A36 Gr.36	Typical
220	220	262	258	270	SR-CA1	Beam	W_Tee	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
221	221	264	265		RIGID	None	None	RIGID	Typical
222	222	266	267		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
223	223	269	268		RIGID	None	None	RIGID	Typical
224	224	270	271		RIGID	None	None	RIGID	Typical
225	225	272	273		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
226	226	275	274		RIGID	None	None	RIGID	Typical
227	227	276	277		RIGID	None	None	RIGID	Typical
228	228	278	279		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
229	229	281	280		RIGID	None	None	RIGID	Typical
230	230	282	283		RIGID	None	None	RIGID	Typical
231	231	284	285		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
232	232	287	286		RIGID	None	None	RIGID	Typical
233	233	326	330	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
234	234	292	326	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
235	235	309	292	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
236	236	311	309	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
237	237	312	311	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
238	238	314	312	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
239	239	324	314	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
240	240	325	329	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
241	241	289	325	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
242	242	294	289	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
243	243	295	294	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
244	244	297	295	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
245	245	298	297	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
246	246	291	298	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
247	247	328	332		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
248	248	307	328		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
249	249	316	307		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
250	250	308	316		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
251	251	318	308		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
252	252	320	318		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
253	253	323	320		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
254	254	328	331		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
255	255	307	327		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
256	256	293	316		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
257	257	300	308		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
258	258	317	301		SA-WebDiag-Rod#1	VBrace	RECT	A572 Gr.50	Typical
259	259	318	302		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
260	260	319	303		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
261	261	320	304		SA-WebDiag.Rod#3	VBrace	RECT	A572 Gr.50	Typical
262	262	327	331		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
263	263	293	327		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
264	264	300	293		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
265	265	301	300		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
266	266	303	301		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
267	267	305	303		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
268	268	322	305		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
269	269	332	331	30	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
270	270	328	327	30	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
271	271	307	293		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
272	272	316	300		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
273	273	308	301	30	F1-S8	Column	RECT	A572 Gr.50	Typical
274	274	317	302	30	F1-S9	Column	RECT	A572 Gr.50	Typical
275	275	318	303	30	F1-S9	Column	RECT	A572 Gr.50	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
276	276	319	304	30	F1-S7	Column	RECT	A572 Gr.50	Typical
277	277	293	289		RIGID	None	None	RIGID	Typical
278	278	300	294		RIGID	None	None	RIGID	Typical
279	279	301	295		RIGID	None	None	RIGID	Typical
280	280	302	296		RIGID	None	None	RIGID	Typical
281	281	303	297		RIGID	None	None	RIGID	Typical
282	282	304	290		RIGID	None	None	RIGID	Typical
283	283	305	298		RIGID	None	None	RIGID	Typical
284	284	306	299		RIGID	None	None	RIGID	Typical
285	285	322	291		RIGID	None	None	RIGID	Typical
286	286	324	323		RIGID	None	None	RIGID	Typical
287	287	315	321		RIGID	None	None	RIGID	Typical
288	288	314	320		RIGID	None	None	RIGID	Typical
289	289	313	319		RIGID	None	None	RIGID	Typical
290	290	312	318		RIGID	None	None	RIGID	Typical
291	291	310	317		RIGID	None	None	RIGID	Typical
292	292	311	308		RIGID	None	None	RIGID	Typical
293	293	309	316		RIGID	None	None	RIGID	Typical
294	294	292	307		RIGID	None	None	RIGID	Typical
295	295	327	325	90	RIGID	None	None	RIGID	Typical
296	296	331	329	90	RIGID	None	None	RIGID	Typical
297	297	330	332	90	RIGID	None	None	RIGID	Typical
298	298	326	328	90	RIGID	None	None	RIGID	Typical
299	299	333	288		CLAMP	None	None	RIGID	DR1
300	300	291	336		CLAMP	None	None	RIGID	DR1
301	301	305	321		RIGID	None	None	RIGID	Typical
302	302	306	334		RIGID	None	None	RIGID	Typical
303	303	320	305		RIGID	None	None	RIGID	Typical
304	304	321	306		RIGID	None	None	RIGID	Typical
305	305	323	322		RIGID	None	None	RIGID	Typical
306	306	375	379	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
307	307	341	375	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
308	308	358	341	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
309	309	360	358	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
310	310	361	360	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
311	311	363	361	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
312	312	373	363	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
313	313	374	378	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
314	314	338	374	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
315	315	343	338	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
316	316	344	343	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
317	317	346	344	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
318	318	347	346	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
319	319	340	347	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
320	320	377	381		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
321	321	356	377		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
322	322	365	356		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
323	323	357	365		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
324	324	367	357		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
325	325	369	367		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
326	326	372	369		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
327	327	377	380		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
328	328	356	376		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
329	329	342	365		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
330	330	349	357		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
331	331	366	350		SA-WebDiag-Rod#1	VBrace	RECT	A572 Gr.50	Typical
332	332	367	351		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
333	333	368	352		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
334	334	369	353		SA-WebDiag.Rod#3	VBrace	RECT	A572 Gr.50	Typical
335	335	376	380		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
336	336	342	376		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
337	337	349	342		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
338	338	350	349		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
339	339	352	350		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
340	340	354	352		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
341	341	371	354		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
342	342	381	380	150	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
343	343	377	376	150	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
344	344	356	342		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
345	345	365	349		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
346	346	357	350	150	F1-S8	Column	RECT	A572 Gr.50	Typical
347	347	366	351	150	F1-S9	Column	RECT	A572 Gr.50	Typical
348	348	367	352	150	F1-S9	Column	RECT	A572 Gr.50	Typical
349	349	368	353	150	F1-S7	Column	RECT	A572 Gr.50	Typical
350	350	342	338		RIGID	None	None	RIGID	Typical
351	351	349	343		RIGID	None	None	RIGID	Typical
352	352	350	344		RIGID	None	None	RIGID	Typical
353	353	351	345		RIGID	None	None	RIGID	Typical
354	354	352	346		RIGID	None	None	RIGID	Typical
355	355	353	339		RIGID	None	None	RIGID	Typical
356	356	354	347		RIGID	None	None	RIGID	Typical
357	357	355	348		RIGID	None	None	RIGID	Typical
358	358	371	340		RIGID	None	None	RIGID	Typical
359	359	373	372		RIGID	None	None	RIGID	Typical
360	360	364	370		RIGID	None	None	RIGID	Typical
361	361	363	369		RIGID	None	None	RIGID	Typical
362	362	362	368		RIGID	None	None	RIGID	Typical
363	363	361	367		RIGID	None	None	RIGID	Typical
364	364	359	366		RIGID	None	None	RIGID	Typical
365	365	360	357		RIGID	None	None	RIGID	Typical
366	366	358	365		RIGID	None	None	RIGID	Typical
367	367	341	356		RIGID	None	None	RIGID	Typical
368	368	376	374	90	RIGID	None	None	RIGID	Typical
369	369	380	378	90	RIGID	None	None	RIGID	Typical
370	370	379	381	90	RIGID	None	None	RIGID	Typical
371	371	375	377	90	RIGID	None	None	RIGID	Typical
372	372	382	337		CLAMP	None	None	RIGID	DR1
373	373	340	385		CLAMP	None	None	RIGID	DR1
374	374	354	370		RIGID	None	None	RIGID	Typical
375	375	355	383		RIGID	None	None	RIGID	Typical
376	376	369	354		RIGID	None	None	RIGID	Typical
377	377	370	355		RIGID	None	None	RIGID	Typical
378	378	372	371		RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
1	1				Yes	N/A	None
2	2				Yes	N/A	None
3	3				Yes	N/A	None
4	4				Yes	N/A	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
5	5				Yes	N/A	None
6	6				Yes	N/A	None
7	7				Yes	N/A	None
8	8				Yes	N/A	None
9	9				Yes	N/A	None
10	10				Yes	N/A	None
11	11				Yes	N/A	None
12	12				Yes	N/A	None
13	13				Yes	N/A	None
14	14				Yes	N/A	None
15	15				Yes	N/A	None
16	16				Yes	N/A	None
17	17				Yes	N/A	None
18	18				Yes	N/A	None
19	19				Yes	N/A	None
20	20				Yes	N/A	None
21	21				Yes	N/A	None
22	22				Yes	N/A	None
23	23				Yes	N/A	None
24	24				Yes	N/A	None
25	25				Yes	Default	None
26	26				Yes	N/A	None
27	27				Yes	N/A	None
28	28				Yes	N/A	None
29	29				Yes	N/A	None
30	30				Yes	N/A	None
31	31				Yes	N/A	None
32	32				Yes	N/A	None
33	33				Yes	N/A	None
34	34				Yes	N/A	None
35	35				Yes	N/A	None
36	36				Yes	N/A	None
37	37				Yes	N/A	None
38	38				Yes	N/A	None
39	39				Yes	N/A	None
40	40				Yes	N/A	None
41	41				Yes	N/A	None
42	42				Yes	N/A	None
43	43				Yes	N/A	None
44	44				Yes	N/A	None
45	45				Yes	N/A	None
46	46				Yes	N/A	None
47	47				Yes	N/A	None
48	48				Yes	N/A	None
49	49				Yes	N/A	None
50	50				Yes	N/A	None
51	51				Yes	N/A	None
52	52				Yes	N/A	None
53	53				Yes	N/A	None
54	54				Yes	N/A	None
55	55				Yes	N/A	None
56	56				Yes	N/A	None
57	57				Yes	N/A	None
58	58				Yes	N/A	None
59	59				Yes	N/A	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
60	60				Yes	N/A	None
61	61				Yes	N/A	None
62	62				Yes	N/A	None
63	63				Yes	N/A	None
64	64				Yes	** NA **	None
65	65				Yes	** NA **	None
66	66				Yes	** NA **	None
67	67				Yes	** NA **	None
68	68				Yes	** NA **	None
69	69				Yes	** NA **	None
70	70				Yes	** NA **	None
71	71				Yes	** NA **	None
72	72			Euler Buckling	Yes	N/A	None
73	73			Euler Buckling	Yes	N/A	None
74	74			Euler Buckling	Yes	N/A	None
75	75			Euler Buckling	Yes	N/A	None
76	76			Euler Buckling	Yes	N/A	None
77	77			Euler Buckling	Yes	N/A	None
78	78			Euler Buckling	Yes	N/A	None
79	79			Euler Buckling	Yes	** NA **	None
80	80			Euler Buckling	Yes	** NA **	None
81	81			Euler Buckling	Yes	** NA **	None
82	82			Euler Buckling	Yes	** NA **	None
83	83			Euler Buckling	Yes	** NA **	None
84	84			Euler Buckling	Yes	** NA **	None
85	85			Euler Buckling	Yes	** NA **	None
86	86			Euler Buckling	Yes	** NA **	None
87	87		OOOXOO		Yes	** NA **	None
88	88		OOOXOO		Yes	** NA **	None
89	89		OOOXOO		Yes	** NA **	None
90	90		OOOXOO		Yes	** NA **	None
91	91		OOOXOO		Yes	** NA **	None
92	92		OOOXOO		Yes	** NA **	None
93	93		OOOXOO		Yes	** NA **	None
94	94		OOOXOO		Yes	** NA **	None
95	95		OOOXOO		Yes	** NA **	None
96	96		OOOXOO		Yes	** NA **	None
97	97		OOOXOO		Yes	** NA **	None
98	98		OOOXOO		Yes	** NA **	None
99	99				Yes	** NA **	None
100	100				Yes	** NA **	None
101	101				Yes	** NA **	None
102	102				Yes	** NA **	None
103	103				Yes	** NA **	None
104	104				Yes	** NA **	None
105	105				Yes	** NA **	None
106	106				Yes	** NA **	None
107	107				Yes	** NA **	None
108	108				Yes	** NA **	None
109	109				Yes	** NA **	None
110	110				Yes	** NA **	None
111	111				Yes	** NA **	None
112	112				Yes	** NA **	None
113	113				Yes	** NA **	None
114	114				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
115	115				Yes	** NA **	None
116	116				Yes	** NA **	None
117	117				Yes	** NA **	None
118	118				Yes	** NA **	None
119	119				Yes	** NA **	None
120	120				Yes	** NA **	None
121	121				Yes	** NA **	None
122	122				Yes	** NA **	None
123	123			Compression Only	Yes	** NA **	None
124	124				Yes	** NA **	None
125	125				Yes	** NA **	None
126	126				Yes	** NA **	None
127	127				Yes	** NA **	None
128	128				Yes	** NA **	None
129	129				Yes	** NA **	None
130	130				Yes	** NA **	None
131	131				Yes	** NA **	None
132	132				Yes	** NA **	None
133	133				Yes	** NA **	None
134	134				Yes	** NA **	None
135	135				Yes	** NA **	None
136	136				Yes	** NA **	None
137	137				Yes	** NA **	None
138	138				Yes	** NA **	None
139	139				Yes	** NA **	None
140	140				Yes	** NA **	None
141	141				Yes	** NA **	None
142	142				Yes	** NA **	None
143	143				Yes	** NA **	None
144	144				Yes	** NA **	None
145	145				Yes	** NA **	None
146	146				Yes	** NA **	None
147	147				Yes	** NA **	None
148	148				Yes	** NA **	None
149	149				Yes	** NA **	None
150	150				Yes	** NA **	None
151	151				Yes	** NA **	None
152	152				Yes	** NA **	None
153	153				Yes	** NA **	None
154	154				Yes	** NA **	None
155	155				Yes	** NA **	None
156	156				Yes	** NA **	None
157	157				Yes	** NA **	None
158	158				Yes	** NA **	None
159	159				Yes	** NA **	None
160	160				Yes	** NA **	None
161	161				Yes	** NA **	None
162	162				Yes	** NA **	None
163	163				Yes	** NA **	None
164	164				Yes	** NA **	None
165	165				Yes	** NA **	None
166	166				Yes	** NA **	None
167	167				Yes	** NA **	None
168	168				Yes	** NA **	None
169	169				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
170	170				Yes	** NA **	None
171	171				Yes	** NA **	None
172	172				Yes	** NA **	None
173	173				Yes	** NA **	None
174	174				Yes	** NA **	None
175	175				Yes	** NA **	None
176	176				Yes	** NA **	None
177	177				Yes	** NA **	None
178	178				Yes	** NA **	None
179	179				Yes	** NA **	None
180	180				Yes	** NA **	None
181	181				Yes	** NA **	None
182	182				Yes	** NA **	None
183	183				Yes	** NA **	None
184	184				Yes	** NA **	None
185	185				Yes	** NA **	None
186	186				Yes	** NA **	None
187	187				Yes	** NA **	None
188	188				Yes	** NA **	None
189	189				Yes	N/A	None
190	190				Yes	Default	None
191	191				Yes	N/A	None
192	192				Yes	** NA **	None
193	193				Yes	** NA **	None
194	194				Yes	** NA **	None
195	195				Yes	** NA **	None
196	196				Yes	** NA **	None
197	197				Yes	** NA **	None
198	198				Yes	** NA **	None
199	199				Yes	** NA **	None
200	200				Yes	** NA **	None
201	201				Yes	** NA **	None
202	202				Yes	** NA **	None
203	203				Yes	** NA **	None
204	204				Yes	** NA **	None
205	205				Yes	** NA **	None
206	206				Yes	** NA **	None
207	207				Yes	** NA **	None
208	208				Yes	** NA **	None
209	209				Yes	** NA **	None
210	210				Yes	** NA **	None
211	211				Yes	** NA **	None
212	212				Yes	** NA **	None
213	213				Yes	** NA **	None
214	214				Yes	** NA **	None
215	215				Yes	** NA **	None
216	216				Yes	** NA **	None
217	217				Yes	** NA **	None
218	218	BenPIN	BenPIN		Yes	Default	None
219	219	BenPIN	BenPIN		Yes	Default	None
220	220	BenPIN	BenPIN		Yes	Default	None
221	221				Yes	** NA **	None
222	222				Yes	** NA **	None
223	223				Yes	** NA **	None
224	224				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
225	225				Yes	** NA **	None
226	226				Yes	** NA **	None
227	227				Yes	** NA **	None
228	228				Yes	** NA **	None
229	229				Yes	** NA **	None
230	230				Yes	** NA **	None
231	231				Yes	** NA **	None
232	232				Yes	** NA **	None
233	233				Yes	N/A	None
234	234				Yes	N/A	None
235	235				Yes	N/A	None
236	236				Yes	N/A	None
237	237				Yes	N/A	None
238	238				Yes	N/A	None
239	239				Yes	N/A	None
240	240				Yes	N/A	None
241	241				Yes	N/A	None
242	242				Yes	N/A	None
243	243				Yes	N/A	None
244	244				Yes	N/A	None
245	245				Yes	N/A	None
246	246				Yes	N/A	None
247	247				Yes	N/A	None
248	248				Yes	N/A	None
249	249				Yes	N/A	None
250	250				Yes	N/A	None
251	251				Yes	N/A	None
252	252				Yes	N/A	None
253	253				Yes	N/A	None
254	254				Yes	** NA **	None
255	255				Yes	** NA **	None
256	256				Yes	** NA **	None
257	257				Yes	** NA **	None
258	258				Yes	** NA **	None
259	259				Yes	** NA **	None
260	260				Yes	** NA **	None
261	261				Yes	** NA **	None
262	262			Euler Buckling	Yes	N/A	None
263	263			Euler Buckling	Yes	N/A	None
264	264			Euler Buckling	Yes	N/A	None
265	265			Euler Buckling	Yes	N/A	None
266	266			Euler Buckling	Yes	N/A	None
267	267			Euler Buckling	Yes	N/A	None
268	268			Euler Buckling	Yes	N/A	None
269	269			Euler Buckling	Yes	** NA **	None
270	270			Euler Buckling	Yes	** NA **	None
271	271			Euler Buckling	Yes	** NA **	None
272	272			Euler Buckling	Yes	** NA **	None
273	273			Euler Buckling	Yes	** NA **	None
274	274			Euler Buckling	Yes	** NA **	None
275	275			Euler Buckling	Yes	** NA **	None
276	276			Euler Buckling	Yes	** NA **	None
277	277				Yes	** NA **	None
278	278				Yes	** NA **	None
279	279				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
280	280				Yes	** NA **	None
281	281				Yes	** NA **	None
282	282				Yes	** NA **	None
283	283				Yes	** NA **	None
284	284				Yes	** NA **	None
285	285				Yes	** NA **	None
286	286				Yes	** NA **	None
287	287				Yes	** NA **	None
288	288				Yes	** NA **	None
289	289				Yes	** NA **	None
290	290				Yes	** NA **	None
291	291				Yes	** NA **	None
292	292				Yes	** NA **	None
293	293				Yes	** NA **	None
294	294				Yes	** NA **	None
295	295				Yes	** NA **	None
296	296				Yes	** NA **	None
297	297				Yes	** NA **	None
298	298				Yes	** NA **	None
299	299				Yes	** NA **	None
300	300			Compression Only	Yes	** NA **	None
301	301				Yes	** NA **	None
302	302				Yes	** NA **	None
303	303				Yes	** NA **	None
304	304				Yes	** NA **	None
305	305				Yes	** NA **	None
306	306				Yes	N/A	None
307	307				Yes	N/A	None
308	308				Yes	N/A	None
309	309				Yes	N/A	None
310	310				Yes	N/A	None
311	311				Yes	N/A	None
312	312				Yes	N/A	None
313	313				Yes	N/A	None
314	314				Yes	N/A	None
315	315				Yes	N/A	None
316	316				Yes	N/A	None
317	317				Yes	N/A	None
318	318				Yes	N/A	None
319	319				Yes	N/A	None
320	320				Yes	N/A	None
321	321				Yes	N/A	None
322	322				Yes	N/A	None
323	323				Yes	N/A	None
324	324				Yes	N/A	None
325	325				Yes	N/A	None
326	326				Yes	N/A	None
327	327				Yes	** NA **	None
328	328				Yes	** NA **	None
329	329				Yes	** NA **	None
330	330				Yes	** NA **	None
331	331				Yes	** NA **	None
332	332				Yes	** NA **	None
333	333				Yes	** NA **	None
334	334				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
335	335			Euler Buckling	Yes	N/A	None
336	336			Euler Buckling	Yes	N/A	None
337	337			Euler Buckling	Yes	N/A	None
338	338			Euler Buckling	Yes	N/A	None
339	339			Euler Buckling	Yes	N/A	None
340	340			Euler Buckling	Yes	N/A	None
341	341			Euler Buckling	Yes	N/A	None
342	342			Euler Buckling	Yes	** NA **	None
343	343			Euler Buckling	Yes	** NA **	None
344	344			Euler Buckling	Yes	** NA **	None
345	345			Euler Buckling	Yes	** NA **	None
346	346			Euler Buckling	Yes	** NA **	None
347	347			Euler Buckling	Yes	** NA **	None
348	348			Euler Buckling	Yes	** NA **	None
349	349			Euler Buckling	Yes	** NA **	None
350	350				Yes	** NA **	None
351	351				Yes	** NA **	None
352	352				Yes	** NA **	None
353	353				Yes	** NA **	None
354	354				Yes	** NA **	None
355	355				Yes	** NA **	None
356	356				Yes	** NA **	None
357	357				Yes	** NA **	None
358	358				Yes	** NA **	None
359	359				Yes	** NA **	None
360	360				Yes	** NA **	None
361	361				Yes	** NA **	None
362	362				Yes	** NA **	None
363	363				Yes	** NA **	None
364	364				Yes	** NA **	None
365	365				Yes	** NA **	None
366	366				Yes	** NA **	None
367	367				Yes	** NA **	None
368	368				Yes	** NA **	None
369	369				Yes	** NA **	None
370	370				Yes	** NA **	None
371	371				Yes	** NA **	None
372	372				Yes	** NA **	None
373	373			Compression Only	Yes	** NA **	None
374	374				Yes	** NA **	None
375	375				Yes	** NA **	None
376	376				Yes	** NA **	None
377	377				Yes	** NA **	None
378	378				Yes	** NA **	None

Hot Rolled Steel Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
1	1	FH-Pipe	12.5			Lbyy	N/A	N/A	Lateral
2	2	FH-Pipe	12.5			Lbyy	N/A	N/A	Lateral
3	3	FH-Pipe	12.5			Lbyy	N/A	N/A	Lateral
4	4	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
5	5	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
6	6	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
7	7	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
8	8	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
9	9	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
10	10	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
11	11	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
12	12	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
13	13	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
14	14	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
15	15	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
16	16	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
17	17	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
18	18	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
19	19	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
20	20	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
21	21	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
22	22	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
23	23	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
24	24	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
25	25	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
26	26	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
27	27	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
28	28	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
29	29	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
30	30	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
31	31	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
32	32	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
33	33	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
34	34	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
35	35	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
36	36	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
37	37	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
38	38	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
39	39	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
40	40	PS-Tube	4.244			Lbyy	N/A	N/A	Lateral
41	41	PS-Tube	4.244			Lbyy	N/A	N/A	Lateral
42	42	PS-Tube	4.244			Lbyy	N/A	N/A	Lateral
43	43	SA-BotChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
44	44	SA-BotChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
45	45	SA-BotChord-Plate	0.742			Lbyy	N/A	N/A	Lateral
46	46	SA-BotChord-Plate	0.667			Lbyy	N/A	N/A	Lateral
47	47	SA-BotChord-Plate	1.045			Lbyy	N/A	N/A	Lateral
48	48	SA-BotChord-Plate	0.741			Lbyy	N/A	N/A	Lateral
49	49	SA-BotChord-Plate	0.748			Lbyy	N/A	N/A	Lateral
50	50	SA-TopChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
51	51	SA-TopChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
52	52	SA-TopChord-Plate	0.718			Lbyy	N/A	N/A	Lateral
53	53	SA-TopChord-Plate	0.648			Lbyy	N/A	N/A	Lateral
54	54	SA-TopChord-Plate	1.023			Lbyy	N/A	N/A	Lateral
55	55	SA-TopChord-Plate	0.725			Lbyy	N/A	N/A	Lateral
56	56	SA-TopChord-Plate	0.761			Lbyy	N/A	N/A	Lateral
57	57	SA-WebChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
58	58	SA-WebChord-Plate	0.957			Lbyy	N/A	N/A	Lateral
59	59	SA-WebChord-Plate	0.731			Lbyy	N/A	N/A	Lateral
60	60	SA-WebChord-Plate	0.667			Lbyy	N/A	N/A	Lateral
61	61	SA-WebChord-Plate	1.045			Lbyy	N/A	N/A	Lateral
62	62	SA-WebChord-Plate	0.741			Lbyy	N/A	N/A	Lateral
63	63	SA-WebChord-Plate	0.759			Lbyy	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
64	64	SA-WebDiag-Plate	1.264			Lbyy	N/A	N/A	Lateral
65	65	SA-WebDiag-Plate	1.294			Lbyy	N/A	N/A	Lateral
66	66	SA-WebDiag-Plate	1.013			Lbyy	N/A	N/A	Lateral
67	67	SA-WebDiag-Plate	0.872			Lbyy	N/A	N/A	Lateral
68	68	SA-WebDiag-Rod#1	0.727			Lbyy	N/A	N/A	Lateral
69	69	SA-WebDiag-Rod#2	0.595			Lbyy	N/A	N/A	Lateral
70	70	SA-WebDiag-Rod#2	0.487			Lbyy	N/A	N/A	Lateral
71	71	SA-WebDiag.Rod#3	0.397			Lbyy	N/A	N/A	Lateral
72	72	SA-WebChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
73	73	SA-WebChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
74	74	SA-WebChord-Plate	0.718			Lbyy	N/A	N/A	Lateral
75	75	SA-WebChord-Plate	0.648			Lbyy	N/A	N/A	Lateral
76	76	SA-WebChord-Plate	1.023			Lbyy	N/A	N/A	Lateral
77	77	SA-WebChord-Plate	0.725			Lbyy	N/A	N/A	Lateral
78	78	SA-WebChord-Plate	0.761			Lbyy	N/A	N/A	Lateral
79	79	SA-WebVert-Plate	0.871			Lbyy	N/A	N/A	Lateral
80	80	SA-WebVert-Plate	0.871			Lbyy	N/A	N/A	Lateral
81	81	SA-WebVert-Plate	0.871			Lbyy	N/A	N/A	Lateral
82	82	SA-WebVert-Plate	0.719			Lbyy	N/A	N/A	Lateral
83	83	F1-S8	0.583			Lbyy	N/A	N/A	Lateral
84	84	F1-S9	0.467			Lbyy	N/A	N/A	Lateral
85	85	F1-S9	0.37			Lbyy	N/A	N/A	Lateral
86	86	F1-S7	0.288			Lbyy	N/A	N/A	Lateral
87	189	Support Rail	12.5			Lbyy	N/A	N/A	Lateral
88	190	Support Rail	12.5			Lbyy	N/A	N/A	Lateral
89	191	Support Rail	12.5			Lbyy	N/A	N/A	Lateral
90	193	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
91	196	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
92	199	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
93	202	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
94	207	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
95	210	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
96	213	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
97	216	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
98	218	SR-CA1	2.437			Lbyy	N/A	N/A	Lateral
99	219	SR-CA1	2.437			Lbyy	N/A	N/A	Lateral
100	220	SR-CA1	2.437			Lbyy	N/A	N/A	Lateral
101	222	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
102	225	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
103	228	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
104	231	AM-Pipe	10.5			Lbyy	N/A	N/A	Lateral
105	233	SA-BotChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
106	234	SA-BotChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
107	235	SA-BotChord-Plate	0.742			Lbyy	N/A	N/A	Lateral
108	236	SA-BotChord-Plate	0.667			Lbyy	N/A	N/A	Lateral
109	237	SA-BotChord-Plate	1.045			Lbyy	N/A	N/A	Lateral
110	238	SA-BotChord-Plate	0.741			Lbyy	N/A	N/A	Lateral
111	239	SA-BotChord-Plate	0.748			Lbyy	N/A	N/A	Lateral
112	240	SA-TopChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
113	241	SA-TopChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
114	242	SA-TopChord-Plate	0.718			Lbyy	N/A	N/A	Lateral
115	243	SA-TopChord-Plate	0.648			Lbyy	N/A	N/A	Lateral
116	244	SA-TopChord-Plate	1.023			Lbyy	N/A	N/A	Lateral
117	245	SA-TopChord-Plate	0.725			Lbyy	N/A	N/A	Lateral
118	246	SA-TopChord-Plate	0.761			Lbyy	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
119	247	SA-WebChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
120	248	SA-WebChord-Plate	0.957			Lbyy	N/A	N/A	Lateral
121	249	SA-WebChord-Plate	0.731			Lbyy	N/A	N/A	Lateral
122	250	SA-WebChord-Plate	0.667			Lbyy	N/A	N/A	Lateral
123	251	SA-WebChord-Plate	1.045			Lbyy	N/A	N/A	Lateral
124	252	SA-WebChord-Plate	0.741			Lbyy	N/A	N/A	Lateral
125	253	SA-WebChord-Plate	0.759			Lbyy	N/A	N/A	Lateral
126	254	SA-WebDiag-Plate	1.264			Lbyy	N/A	N/A	Lateral
127	255	SA-WebDiag-Plate	1.294			Lbyy	N/A	N/A	Lateral
128	256	SA-WebDiag-Plate	1.013			Lbyy	N/A	N/A	Lateral
129	257	SA-WebDiag-Plate	0.872			Lbyy	N/A	N/A	Lateral
130	258	SA-WebDiag-Rod#1	0.727			Lbyy	N/A	N/A	Lateral
131	259	SA-WebDiag-Rod#2	0.595			Lbyy	N/A	N/A	Lateral
132	260	SA-WebDiag-Rod#2	0.487			Lbyy	N/A	N/A	Lateral
133	261	SA-WebDiag.Rod#3	0.397			Lbyy	N/A	N/A	Lateral
134	262	SA-WebChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
135	263	SA-WebChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
136	264	SA-WebChord-Plate	0.718			Lbyy	N/A	N/A	Lateral
137	265	SA-WebChord-Plate	0.648			Lbyy	N/A	N/A	Lateral
138	266	SA-WebChord-Plate	1.023			Lbyy	N/A	N/A	Lateral
139	267	SA-WebChord-Plate	0.725			Lbyy	N/A	N/A	Lateral
140	268	SA-WebChord-Plate	0.761			Lbyy	N/A	N/A	Lateral
141	269	SA-WebVert-Plate	0.871			Lbyy	N/A	N/A	Lateral
142	270	SA-WebVert-Plate	0.871			Lbyy	N/A	N/A	Lateral
143	271	SA-WebVert-Plate	0.871			Lbyy	N/A	N/A	Lateral
144	272	SA-WebVert-Plate	0.719			Lbyy	N/A	N/A	Lateral
145	273	F1-S8	0.583			Lbyy	N/A	N/A	Lateral
146	274	F1-S9	0.467			Lbyy	N/A	N/A	Lateral
147	275	F1-S9	0.37			Lbyy	N/A	N/A	Lateral
148	276	F1-S7	0.288			Lbyy	N/A	N/A	Lateral
149	306	SA-BotChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
150	307	SA-BotChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
151	308	SA-BotChord-Plate	0.742			Lbyy	N/A	N/A	Lateral
152	309	SA-BotChord-Plate	0.667			Lbyy	N/A	N/A	Lateral
153	310	SA-BotChord-Plate	1.045			Lbyy	N/A	N/A	Lateral
154	311	SA-BotChord-Plate	0.741			Lbyy	N/A	N/A	Lateral
155	312	SA-BotChord-Plate	0.748			Lbyy	N/A	N/A	Lateral
156	313	SA-TopChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
157	314	SA-TopChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
158	315	SA-TopChord-Plate	0.718			Lbyy	N/A	N/A	Lateral
159	316	SA-TopChord-Plate	0.648			Lbyy	N/A	N/A	Lateral
160	317	SA-TopChord-Plate	1.023			Lbyy	N/A	N/A	Lateral
161	318	SA-TopChord-Plate	0.725			Lbyy	N/A	N/A	Lateral
162	319	SA-TopChord-Plate	0.761			Lbyy	N/A	N/A	Lateral
163	320	SA-WebChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
164	321	SA-WebChord-Plate	0.957			Lbyy	N/A	N/A	Lateral
165	322	SA-WebChord-Plate	0.731			Lbyy	N/A	N/A	Lateral
166	323	SA-WebChord-Plate	0.667			Lbyy	N/A	N/A	Lateral
167	324	SA-WebChord-Plate	1.045			Lbyy	N/A	N/A	Lateral
168	325	SA-WebChord-Plate	0.741			Lbyy	N/A	N/A	Lateral
169	326	SA-WebChord-Plate	0.759			Lbyy	N/A	N/A	Lateral
170	327	SA-WebDiag-Plate	1.264			Lbyy	N/A	N/A	Lateral
171	328	SA-WebDiag-Plate	1.294			Lbyy	N/A	N/A	Lateral
172	329	SA-WebDiag-Plate	1.013			Lbyy	N/A	N/A	Lateral
173	330	SA-WebDiag-Plate	0.872			Lbyy	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
174	331	SA-WebDiag-Rod#1	0.727			Lbyy	N/A	N/A	Lateral
175	332	SA-WebDiag-Rod#2	0.595			Lbyy	N/A	N/A	Lateral
176	333	SA-WebDiag-Rod#2	0.487			Lbyy	N/A	N/A	Lateral
177	334	SA-WebDiag.Rod#3	0.397			Lbyy	N/A	N/A	Lateral
178	335	SA-WebChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
179	336	SA-WebChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
180	337	SA-WebChord-Plate	0.718			Lbyy	N/A	N/A	Lateral
181	338	SA-WebChord-Plate	0.648			Lbyy	N/A	N/A	Lateral
182	339	SA-WebChord-Plate	1.023			Lbyy	N/A	N/A	Lateral
183	340	SA-WebChord-Plate	0.725			Lbyy	N/A	N/A	Lateral
184	341	SA-WebChord-Plate	0.761			Lbyy	N/A	N/A	Lateral
185	342	SA-WebVert-Plate	0.871			Lbyy	N/A	N/A	Lateral
186	343	SA-WebVert-Plate	0.871			Lbyy	N/A	N/A	Lateral
187	344	SA-WebVert-Plate	0.871			Lbyy	N/A	N/A	Lateral
188	345	SA-WebVert-Plate	0.719			Lbyy	N/A	N/A	Lateral
189	346	F1-S8	0.583			Lbyy	N/A	N/A	Lateral
190	347	F1-S9	0.467			Lbyy	N/A	N/A	Lateral
191	348	F1-S9	0.37			Lbyy	N/A	N/A	Lateral
192	349	F1-S7	0.288			Lbyy	N/A	N/A	Lateral

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	Y	-0.132	%15
2	193	Y	-0.132	%85
3	193	Y	-0.075	%20
4	193	Y	-0.072	%50
5	193	Y	0	0
6	196	Y	-0.041	%25
7	196	Y	-0.041	%55
8	196	Y	0	0
9	196	Y	0	0
10	196	Y	0	0
11	213	Y	-0.091	%15
12	213	Y	-0.091	%85
13	213	Y	-0.075	%20
14	213	Y	-0.072	%50
15	213	Y	0	0
16	228	Y	-0.041	%25
17	228	Y	-0.041	%55
18	228	Y	0	0
19	228	Y	0	0
20	228	Y	0	0
21	207	Y	-0.132	%15
22	207	Y	-0.132	%85
23	207	Y	-0.075	%20
24	207	Y	-0.072	%50
25	207	Y	0	0
26	222	Y	-0.041	%25
27	222	Y	-0.041	%55
28	222	Y	0	0
29	222	Y	0	0
30	222	Y	0	0
31	240	Y	-0.032	%20
32	240	Y	0	0
33	240	Y	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
34	240	Y	0	0
35	240	Y	0	0

Member Point Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	Z	-0.329	%15
2	193	Z	-0.329	%85
3	193	Z	-0.055	%20
4	193	Z	-0.055	%50
5	193	Z	0	0
6	196	Z	-0.069	%25
7	196	Z	-0.069	%55
8	196	Z	0	0
9	196	Z	0	0
10	196	Z	0	0
11	213	Z	-0.295	%15
12	213	Z	-0.295	%85
13	213	Z	-0.055	%20
14	213	Z	-0.055	%50
15	213	Z	0	0
16	228	Z	-0.069	%25
17	228	Z	-0.069	%55
18	228	Z	0	0
19	228	Z	0	0
20	228	Z	0	0
21	207	Z	-0.329	%15
22	207	Z	-0.329	%85
23	207	Z	-0.055	%20
24	207	Z	-0.055	%50
25	207	Z	0	0
26	222	Z	-0.069	%25
27	222	Z	-0.069	%55
28	222	Z	0	0
29	222	Z	0	0
30	222	Z	0	0
31	240	Z	-0.119	%20
32	240	Z	0	0
33	240	Z	0	0
34	240	Z	0	0
35	240	Z	0	0

Member Point Loads (BLC 3 : 90 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	X	-0.17	%15
2	193	X	-0.17	%85
3	193	X	-0.037	%20
4	193	X	-0.033	%50
5	193	X	0	0
6	196	X	-0.024	%25
7	196	X	-0.024	%55
8	196	X	0	0
9	196	X	0	0
10	196	X	0	0

Member Point Loads (BLC 3 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
11	213	X	-0.202	%15
12	213	X	-0.202	%85
13	213	X	-0.037	%20
14	213	X	-0.033	%50
15	213	X	0	0
16	228	X	-0.024	%25
17	228	X	-0.024	%55
18	228	X	0	0
19	228	X	0	0
20	228	X	0	0
21	207	X	-0.17	%15
22	207	X	-0.17	%85
23	207	X	-0.037	%20
24	207	X	-0.033	%50
25	207	X	0	0
26	222	X	-0.024	%25
27	222	X	-0.024	%55
28	222	X	0	0
29	222	X	0	0
30	222	X	0	0
31	240	X	-0.091	%20
32	240	X	0	0
33	240	X	0	0
34	240	X	0	0
35	240	X	0	0

Member Point Loads (BLC 4 : 0 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	Z	-0.07	%15
2	193	Z	-0.07	%85
3	193	Z	-0.01	%20
4	193	Z	-0.01	%50
5	193	Z	0	0
6	196	Z	-0.013	%25
7	196	Z	-0.013	%55
8	196	Z	0	0
9	196	Z	0	0
10	196	Z	0	0
11	213	Z	-0.065	%15
12	213	Z	-0.065	%85
13	213	Z	-0.01	%20
14	213	Z	-0.01	%50
15	213	Z	0	0
16	228	Z	-0.013	%25
17	228	Z	-0.013	%55
18	228	Z	0	0
19	228	Z	0	0
20	228	Z	0	0
21	207	Z	-0.07	%15
22	207	Z	-0.07	%85
23	207	Z	-0.01	%20
24	207	Z	-0.01	%50
25	207	Z	0	0
26	222	Z	-0.013	%25
27	222	Z	-0.013	%55

Member Point Loads (BLC 4 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
28	222	Z	0	0
29	222	Z	0	0
30	222	Z	0	0
31	240	Z	-0.023	%20
32	240	Z	0	0
33	240	Z	0	0
34	240	Z	0	0
35	240	Z	0	0

Member Point Loads (BLC 5 : 90 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	X	-0.039	%15
2	193	X	-0.039	%85
3	193	X	-0.007	%20
4	193	X	-0.006	%50
5	193	X	0	0
6	196	X	-0.004	%25
7	196	X	-0.004	%55
8	196	X	0	0
9	196	X	0	0
10	196	X	0	0
11	213	X	-0.047	%15
12	213	X	-0.047	%85
13	213	X	-0.007	%20
14	213	X	-0.006	%50
15	213	X	0	0
16	228	X	-0.004	%25
17	228	X	-0.004	%55
18	228	X	0	0
19	228	X	0	0
20	228	X	0	0
21	207	X	-0.039	%15
22	207	X	-0.039	%85
23	207	X	-0.007	%20
24	207	X	-0.006	%50
25	207	X	0	0
26	222	X	-0.004	%25
27	222	X	-0.004	%55
28	222	X	0	0
29	222	X	0	0
30	222	X	0	0
31	240	X	-0.017	%20
32	240	X	0	0
33	240	X	0	0
34	240	X	0	0
35	240	X	0	0

Member Point Loads (BLC 6 : 0 Wind - Service)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	Z	-0.022	%15
2	193	Z	-0.022	%85
3	193	Z	-0.004	%20
4	193	Z	-0.004	%50

Member Point Loads (BLC 6 : 0 Wind - Service) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
5	193	Z	0	0
6	196	Z	-0.005	%25
7	196	Z	-0.005	%55
8	196	Z	0	0
9	196	Z	0	0
10	196	Z	0	0
11	213	Z	-0.02	%15
12	213	Z	-0.02	%85
13	213	Z	-0.004	%20
14	213	Z	-0.004	%50
15	213	Z	0	0
16	228	Z	-0.005	%25
17	228	Z	-0.005	%55
18	228	Z	0	0
19	228	Z	0	0
20	228	Z	0	0
21	207	Z	-0.022	%15
22	207	Z	-0.022	%85
23	207	Z	-0.004	%20
24	207	Z	-0.004	%50
25	207	Z	0	0
26	222	Z	-0.005	%25
27	222	Z	-0.005	%55
28	222	Z	0	0
29	222	Z	0	0
30	222	Z	0	0
31	240	Z	-0.008	%20
32	240	Z	0	0
33	240	Z	0	0
34	240	Z	0	0
35	240	Z	0	0

Member Point Loads (BLC 7 : 90 Wind - Service)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	X	-0.011	%15
2	193	X	-0.011	%85
3	193	X	-0.003	%20
4	193	X	-0.002	%50
5	193	X	0	0
6	196	X	-0.002	%25
7	196	X	-0.002	%55
8	196	X	0	0
9	196	X	0	0
10	196	X	0	0
11	213	X	-0.014	%15
12	213	X	-0.014	%85
13	213	X	-0.003	%20
14	213	X	-0.002	%50
15	213	X	0	0
16	228	X	-0.002	%25
17	228	X	-0.002	%55
18	228	X	0	0
19	228	X	0	0
20	228	X	0	0
21	207	X	-0.011	%15

Member Point Loads (BLC 7 : 90 Wind - Service) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
22	207	X	-0.011	%85
23	207	X	-0.003	%20
24	207	X	-0.002	%50
25	207	X	0	0
26	222	X	-0.002	%25
27	222	X	-0.002	%55
28	222	X	0	0
29	222	X	0	0
30	222	X	0	0
31	240	X	-0.006	%20
32	240	X	0	0
33	240	X	0	0
34	240	X	0	0
35	240	X	0	0

Member Point Loads (BLC 8 : Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	Y	-0.344	%15
2	193	Y	-0.344	%85
3	193	Y	-0.033	%20
4	193	Y	-0.032	%50
5	193	Y	0	0
6	196	Y	-0.037	%25
7	196	Y	-0.037	%55
8	196	Y	0	0
9	196	Y	0	0
10	196	Y	0	0
11	213	Y	-0.272	%15
12	213	Y	-0.272	%85
13	213	Y	-0.033	%20
14	213	Y	-0.032	%50
15	213	Y	0	0
16	228	Y	-0.037	%25
17	228	Y	-0.037	%55
18	228	Y	0	0
19	228	Y	0	0
20	228	Y	0	0
21	207	Y	-0.344	%15
22	207	Y	-0.344	%85
23	207	Y	-0.033	%20
24	207	Y	-0.032	%50
25	207	Y	0	0
26	222	Y	-0.037	%25
27	222	Y	-0.037	%55
28	222	Y	0	0
29	222	Y	0	0
30	222	Y	0	0
31	240	Y	-0.075	%20
32	240	Y	0	0
33	240	Y	0	0
34	240	Y	0	0
35	240	Y	0	0

Member Point Loads (BLC 9 : 0 Seismic)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	Z	-0.029	%15
2	193	Z	-0.029	%85
3	193	Z	-0.016	%20
4	193	Z	-0.016	%50
5	193	Z	0	0
6	196	Z	-0.018	%25
7	196	Z	-0.018	%55
8	196	Z	0	0
9	196	Z	0	0
10	196	Z	0	0
11	213	Z	-0.02	%15
12	213	Z	-0.02	%85
13	213	Z	-0.016	%20
14	213	Z	-0.016	%50
15	213	Z	0	0
16	228	Z	-0.018	%25
17	228	Z	-0.018	%55
18	228	Z	0	0
19	228	Z	0	0
20	228	Z	0	0
21	207	Z	-0.029	%15
22	207	Z	-0.029	%85
23	207	Z	-0.016	%20
24	207	Z	-0.016	%50
25	207	Z	0	0
26	222	Z	-0.018	%25
27	222	Z	-0.018	%55
28	222	Z	0	0
29	222	Z	0	0
30	222	Z	0	0
31	240	Z	-0.007	%20
32	240	Z	0	0
33	240	Z	0	0
34	240	Z	0	0
35	240	Z	0	0

Member Point Loads (BLC 10 : 90 Seismic)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	193	X	-0.029	%15
2	193	X	-0.029	%85
3	193	X	-0.016	%20
4	193	X	-0.016	%50
5	193	X	0	0
6	196	X	-0.018	%25
7	196	X	-0.018	%55
8	196	X	0	0
9	196	X	0	0
10	196	X	0	0
11	213	X	-0.02	%15
12	213	X	-0.02	%85
13	213	X	-0.016	%20
14	213	X	-0.016	%50
15	213	X	0	0
16	228	X	-0.018	%25

Member Point Loads (BLC 10 : 90 Seismic) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
17	228	X	-0.018	%55
18	228	X	0	0
19	228	X	0	0
20	228	X	0	0
21	207	X	-0.029	%15
22	207	X	-0.029	%85
23	207	X	-0.016	%20
24	207	X	-0.016	%50
25	207	X	0	0
26	222	X	-0.018	%25
27	222	X	-0.018	%55
28	222	X	0	0
29	222	X	0	0
30	222	X	0	0
31	240	X	-0.007	%20
32	240	X	0	0
33	240	X	0	0
34	240	X	0	0
35	240	X	0	0

Member Point Loads (BLC 15 : Maint LL 1)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	189	Y	-0.25	%5

Member Point Loads (BLC 16 : Maint LL 2)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	1	Y	-0.25	%5

Member Point Loads (BLC 17 : Maint LL 3)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	191	Y	-0.25	%5

Member Point Loads (BLC 18 : Maint LL 4)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	3	Y	-0.25	%5

Member Point Loads (BLC 19 : Maint LL 5)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	190	Y	-0.25	%5

Member Point Loads (BLC 20 : Maint LL 6)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	2	Y	-0.25	%5

Member Point Loads (BLC 21 : Maint LL 7)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	189	Y	-0.25	%95

Member Point Loads (BLC 22 : Maint LL 8)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	1	Y	-0.25	%95

Member Point Loads (BLC 23 : Maint LL 9)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	191	Y	-0.25	%95

Member Point Loads (BLC 24 : Maint LL 10)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	3	Y	-0.25	%95

Member Point Loads (BLC 25 : Maint LL 11)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	190	Y	-0.25	%95

Member Point Loads (BLC 26 : Maint LL 12)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	2	Y	-0.25	%95

Member Point Loads (BLC 27 : Maint LL 13)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	40	Y	-0.25	%5

Member Point Loads (BLC 28 : Maint LL 14)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	42	Y	-0.25	%5

Member Point Loads (BLC 29 : Maint LL 15)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	41	Y	-0.25	%5

Member Distributed Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.009	-0.009	0	%100
2	2	Z	-0.009	-0.009	0	%100
3	3	Z	-0.009	-0.009	0	%100
4	4	Z	-0.002	-0.002	0	%100
5	5	Z	-0.002	-0.002	0	%100
6	6	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
7	7	Z	-0.002	-0.002	0	%100
8	8	Z	-0.002	-0.002	0	%100
9	9	Z	-0.002	-0.002	0	%100
10	10	Z	-0.011	-0.011	0	%100
11	11	Z	-0.011	-0.011	0	%100
12	12	Z	-0.011	-0.011	0	%100
13	13	Z	-0.011	-0.011	0	%100
14	14	Z	-0.011	-0.011	0	%100
15	15	Z	-0.011	-0.011	0	%100
16	16	Z	-0.011	-0.011	0	%100
17	17	Z	-0.011	-0.011	0	%100
18	18	Z	-0.011	-0.011	0	%100
19	19	Z	-0.011	-0.011	0	%100
20	20	Z	-0.011	-0.011	0	%100
21	21	Z	-0.011	-0.011	0	%100
22	22	Z	-0.008	-0.008	0	%100
23	23	Z	-0.008	-0.008	0	%100
24	24	Z	-0.008	-0.008	0	%100
25	25	Z	-0.008	-0.008	0	%100
26	26	Z	-0.007	-0.007	0	%100
27	27	Z	-0.007	-0.007	0	%100
28	28	Z	-0.008	-0.008	0	%100
29	29	Z	-0.008	-0.008	0	%100
30	30	Z	-0.008	-0.008	0	%100
31	31	Z	-0.008	-0.008	0	%100
32	32	Z	-0.007	-0.007	0	%100
33	33	Z	-0.007	-0.007	0	%100
34	34	Z	-0.008	-0.008	0	%100
35	35	Z	-0.008	-0.008	0	%100
36	36	Z	-0.008	-0.008	0	%100
37	37	Z	-0.008	-0.008	0	%100
38	38	Z	-0.007	-0.007	0	%100
39	39	Z	-0.007	-0.007	0	%100
40	40	Z	-0.013	-0.013	0	%100
41	41	Z	-0.013	-0.013	0	%100
42	42	Z	-0.013	-0.013	0	%100
43	43	Z	-0.002	-0.002	0	%100
44	44	Z	-0.002	-0.002	0	%100
45	45	Z	-0.002	-0.002	0	%100
46	46	Z	-0.002	-0.002	0	%100
47	47	Z	-0.002	-0.002	0	%100
48	48	Z	-0.002	-0.002	0	%100
49	49	Z	-0.002	-0.002	0	%100
50	50	Z	-0.002	-0.002	0	%100
51	51	Z	-0.002	-0.002	0	%100
52	52	Z	-0.002	-0.002	0	%100
53	53	Z	-0.002	-0.002	0	%100
54	54	Z	-0.002	-0.002	0	%100
55	55	Z	-0.002	-0.002	0	%100
56	56	Z	-0.002	-0.002	0	%100
57	57	Z	-0.004	-0.004	0	%100
58	58	Z	-0.004	-0.004	0	%100
59	59	Z	-0.004	-0.004	0	%100
60	60	Z	-0.003	-0.003	0	%100
61	61	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
62	62	Z	-0.004	-0.004	0	%100
63	63	Z	-0.004	-0.004	0	%100
64	64	Z	-0.004	-0.004	0	%100
65	65	Z	-0.004	-0.004	0	%100
66	66	Z	-0.004	-0.004	0	%100
67	67	Z	-0.004	-0.004	0	%100
68	68	Z	-0.003	-0.003	0	%100
69	69	Z	-0.003	-0.003	0	%100
70	70	Z	-0.003	-0.003	0	%100
71	71	Z	-0.002	-0.002	0	%100
72	72	Z	-0.004	-0.004	0	%100
73	73	Z	-0.004	-0.004	0	%100
74	74	Z	-0.004	-0.004	0	%100
75	75	Z	-0.003	-0.003	0	%100
76	76	Z	-0.004	-0.004	0	%100
77	77	Z	-0.004	-0.004	0	%100
78	78	Z	-0.004	-0.004	0	%100
79	79	Z	-0.004	-0.004	0	%100
80	80	Z	-0.004	-0.004	0	%100
81	81	Z	-0.004	-0.004	0	%100
82	82	Z	-0.004	-0.004	0	%100
83	83	Z	-0.003	-0.003	0	%100
84	84	Z	-0.003	-0.003	0	%100
85	85	Z	-0.002	-0.002	0	%100
86	86	Z	-0.002	-0.002	0	%100
87	189	Z	-0.007	-0.007	0	%100
88	190	Z	-0.007	-0.007	0	%100
89	191	Z	-0.007	-0.007	0	%100
90	193	Z	-0.007	-0.007	0	%100
91	196	Z	-0.007	-0.007	0	%100
92	199	Z	-0.007	-0.007	0	%100
93	202	Z	-0.007	-0.007	0	%100
94	207	Z	-0.007	-0.007	0	%100
95	210	Z	-0.007	-0.007	0	%100
96	213	Z	-0.007	-0.007	0	%100
97	216	Z	-0.007	-0.007	0	%100
98	218	Z	-0.013	-0.013	0	%100
99	219	Z	-0.013	-0.013	0	%100
100	220	Z	-0.013	-0.013	0	%100
101	222	Z	-0.007	-0.007	0	%100
102	225	Z	-0.007	-0.007	0	%100
103	228	Z	-0.007	-0.007	0	%100
104	231	Z	-0.007	-0.007	0	%100
105	233	Z	-0.002	-0.002	0	%100
106	234	Z	-0.002	-0.002	0	%100
107	235	Z	-0.002	-0.002	0	%100
108	236	Z	-0.002	-0.002	0	%100
109	237	Z	-0.002	-0.002	0	%100
110	238	Z	-0.002	-0.002	0	%100
111	239	Z	-0.002	-0.002	0	%100
112	240	Z	-0.002	-0.002	0	%100
113	241	Z	-0.002	-0.002	0	%100
114	242	Z	-0.002	-0.002	0	%100
115	243	Z	-0.002	-0.002	0	%100
116	244	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
117	245	Z	-0.002	-0.002	0	%100
118	246	Z	-0.002	-0.002	0	%100
119	247	Z	-0.004	-0.004	0	%100
120	248	Z	-0.004	-0.004	0	%100
121	249	Z	-0.004	-0.004	0	%100
122	250	Z	-0.003	-0.003	0	%100
123	251	Z	-0.004	-0.004	0	%100
124	252	Z	-0.004	-0.004	0	%100
125	253	Z	-0.004	-0.004	0	%100
126	254	Z	-0.004	-0.004	0	%100
127	255	Z	-0.004	-0.004	0	%100
128	256	Z	-0.004	-0.004	0	%100
129	257	Z	-0.004	-0.004	0	%100
130	258	Z	-0.003	-0.003	0	%100
131	259	Z	-0.003	-0.003	0	%100
132	260	Z	-0.003	-0.003	0	%100
133	261	Z	-0.002	-0.002	0	%100
134	262	Z	-0.004	-0.004	0	%100
135	263	Z	-0.004	-0.004	0	%100
136	264	Z	-0.004	-0.004	0	%100
137	265	Z	-0.003	-0.003	0	%100
138	266	Z	-0.004	-0.004	0	%100
139	267	Z	-0.004	-0.004	0	%100
140	268	Z	-0.004	-0.004	0	%100
141	269	Z	-0.004	-0.004	0	%100
142	270	Z	-0.004	-0.004	0	%100
143	271	Z	-0.004	-0.004	0	%100
144	272	Z	-0.004	-0.004	0	%100
145	273	Z	-0.003	-0.003	0	%100
146	274	Z	-0.003	-0.003	0	%100
147	275	Z	-0.002	-0.002	0	%100
148	276	Z	-0.002	-0.002	0	%100
149	306	Z	-0.002	-0.002	0	%100
150	307	Z	-0.002	-0.002	0	%100
151	308	Z	-0.002	-0.002	0	%100
152	309	Z	-0.002	-0.002	0	%100
153	310	Z	-0.002	-0.002	0	%100
154	311	Z	-0.002	-0.002	0	%100
155	312	Z	-0.002	-0.002	0	%100
156	313	Z	-0.002	-0.002	0	%100
157	314	Z	-0.002	-0.002	0	%100
158	315	Z	-0.002	-0.002	0	%100
159	316	Z	-0.002	-0.002	0	%100
160	317	Z	-0.002	-0.002	0	%100
161	318	Z	-0.002	-0.002	0	%100
162	319	Z	-0.002	-0.002	0	%100
163	320	Z	-0.004	-0.004	0	%100
164	321	Z	-0.004	-0.004	0	%100
165	322	Z	-0.004	-0.004	0	%100
166	323	Z	-0.003	-0.003	0	%100
167	324	Z	-0.004	-0.004	0	%100
168	325	Z	-0.004	-0.004	0	%100
169	326	Z	-0.004	-0.004	0	%100
170	327	Z	-0.004	-0.004	0	%100
171	328	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
172	329	Z	-0.004	-0.004	0	%100
173	330	Z	-0.004	-0.004	0	%100
174	331	Z	-0.003	-0.003	0	%100
175	332	Z	-0.003	-0.003	0	%100
176	333	Z	-0.003	-0.003	0	%100
177	334	Z	-0.002	-0.002	0	%100
178	335	Z	-0.004	-0.004	0	%100
179	336	Z	-0.004	-0.004	0	%100
180	337	Z	-0.004	-0.004	0	%100
181	338	Z	-0.003	-0.003	0	%100
182	339	Z	-0.004	-0.004	0	%100
183	340	Z	-0.004	-0.004	0	%100
184	341	Z	-0.004	-0.004	0	%100
185	342	Z	-0.004	-0.004	0	%100
186	343	Z	-0.004	-0.004	0	%100
187	344	Z	-0.004	-0.004	0	%100
188	345	Z	-0.004	-0.004	0	%100
189	346	Z	-0.003	-0.003	0	%100
190	347	Z	-0.003	-0.003	0	%100
191	348	Z	-0.002	-0.002	0	%100
192	349	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 3 : 90 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.009	-0.009	0	%100
2	2	X	-0.009	-0.009	0	%100
3	3	X	-0.009	-0.009	0	%100
4	4	X	-0.002	-0.002	0	%100
5	5	X	-0.002	-0.002	0	%100
6	6	X	-0.002	-0.002	0	%100
7	7	X	-0.002	-0.002	0	%100
8	8	X	-0.002	-0.002	0	%100
9	9	X	-0.002	-0.002	0	%100
10	10	X	-0.011	-0.011	0	%100
11	11	X	-0.011	-0.011	0	%100
12	12	X	-0.011	-0.011	0	%100
13	13	X	-0.011	-0.011	0	%100
14	14	X	-0.011	-0.011	0	%100
15	15	X	-0.011	-0.011	0	%100
16	16	X	-0.011	-0.011	0	%100
17	17	X	-0.011	-0.011	0	%100
18	18	X	-0.011	-0.011	0	%100
19	19	X	-0.011	-0.011	0	%100
20	20	X	-0.011	-0.011	0	%100
21	21	X	-0.011	-0.011	0	%100
22	22	X	-0.008	-0.008	0	%100
23	23	X	-0.008	-0.008	0	%100
24	24	X	-0.008	-0.008	0	%100
25	25	X	-0.008	-0.008	0	%100
26	26	X	-0.007	-0.007	0	%100
27	27	X	-0.007	-0.007	0	%100
28	28	X	-0.008	-0.008	0	%100
29	29	X	-0.008	-0.008	0	%100
30	30	X	-0.008	-0.008	0	%100
31	31	X	-0.008	-0.008	0	%100

Member Distributed Loads (BLC 3 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
32	32	X	-0.007	-0.007	0	%100
33	33	X	-0.007	-0.007	0	%100
34	34	X	-0.008	-0.008	0	%100
35	35	X	-0.008	-0.008	0	%100
36	36	X	-0.008	-0.008	0	%100
37	37	X	-0.008	-0.008	0	%100
38	38	X	-0.007	-0.007	0	%100
39	39	X	-0.007	-0.007	0	%100
40	40	X	-0.013	-0.013	0	%100
41	41	X	-0.013	-0.013	0	%100
42	42	X	-0.013	-0.013	0	%100
43	43	X	-0.002	-0.002	0	%100
44	44	X	-0.002	-0.002	0	%100
45	45	X	-0.002	-0.002	0	%100
46	46	X	-0.002	-0.002	0	%100
47	47	X	-0.002	-0.002	0	%100
48	48	X	-0.002	-0.002	0	%100
49	49	X	-0.002	-0.002	0	%100
50	50	X	-0.002	-0.002	0	%100
51	51	X	-0.002	-0.002	0	%100
52	52	X	-0.002	-0.002	0	%100
53	53	X	-0.002	-0.002	0	%100
54	54	X	-0.002	-0.002	0	%100
55	55	X	-0.002	-0.002	0	%100
56	56	X	-0.002	-0.002	0	%100
57	57	X	-0.004	-0.004	0	%100
58	58	X	-0.004	-0.004	0	%100
59	59	X	-0.004	-0.004	0	%100
60	60	X	-0.003	-0.003	0	%100
61	61	X	-0.004	-0.004	0	%100
62	62	X	-0.004	-0.004	0	%100
63	63	X	-0.004	-0.004	0	%100
64	64	X	-0.004	-0.004	0	%100
65	65	X	-0.004	-0.004	0	%100
66	66	X	-0.004	-0.004	0	%100
67	67	X	-0.004	-0.004	0	%100
68	68	X	-0.003	-0.003	0	%100
69	69	X	-0.003	-0.003	0	%100
70	70	X	-0.003	-0.003	0	%100
71	71	X	-0.002	-0.002	0	%100
72	72	X	-0.004	-0.004	0	%100
73	73	X	-0.004	-0.004	0	%100
74	74	X	-0.004	-0.004	0	%100
75	75	X	-0.003	-0.003	0	%100
76	76	X	-0.004	-0.004	0	%100
77	77	X	-0.004	-0.004	0	%100
78	78	X	-0.004	-0.004	0	%100
79	79	X	-0.004	-0.004	0	%100
80	80	X	-0.004	-0.004	0	%100
81	81	X	-0.004	-0.004	0	%100
82	82	X	-0.004	-0.004	0	%100
83	83	X	-0.003	-0.003	0	%100
84	84	X	-0.003	-0.003	0	%100
85	85	X	-0.002	-0.002	0	%100
86	86	X	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 3 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
87	189	X	-0.007	-0.007	0	%100
88	190	X	-0.007	-0.007	0	%100
89	191	X	-0.007	-0.007	0	%100
90	193	X	-0.007	-0.007	0	%100
91	196	X	-0.007	-0.007	0	%100
92	199	X	-0.007	-0.007	0	%100
93	202	X	-0.007	-0.007	0	%100
94	207	X	-0.007	-0.007	0	%100
95	210	X	-0.007	-0.007	0	%100
96	213	X	-0.007	-0.007	0	%100
97	216	X	-0.007	-0.007	0	%100
98	218	X	-0.013	-0.013	0	%100
99	219	X	-0.013	-0.013	0	%100
100	220	X	-0.013	-0.013	0	%100
101	222	X	-0.007	-0.007	0	%100
102	225	X	-0.007	-0.007	0	%100
103	228	X	-0.007	-0.007	0	%100
104	231	X	-0.007	-0.007	0	%100
105	233	X	-0.002	-0.002	0	%100
106	234	X	-0.002	-0.002	0	%100
107	235	X	-0.002	-0.002	0	%100
108	236	X	-0.002	-0.002	0	%100
109	237	X	-0.002	-0.002	0	%100
110	238	X	-0.002	-0.002	0	%100
111	239	X	-0.002	-0.002	0	%100
112	240	X	-0.002	-0.002	0	%100
113	241	X	-0.002	-0.002	0	%100
114	242	X	-0.002	-0.002	0	%100
115	243	X	-0.002	-0.002	0	%100
116	244	X	-0.002	-0.002	0	%100
117	245	X	-0.002	-0.002	0	%100
118	246	X	-0.002	-0.002	0	%100
119	247	X	-0.004	-0.004	0	%100
120	248	X	-0.004	-0.004	0	%100
121	249	X	-0.004	-0.004	0	%100
122	250	X	-0.003	-0.003	0	%100
123	251	X	-0.004	-0.004	0	%100
124	252	X	-0.004	-0.004	0	%100
125	253	X	-0.004	-0.004	0	%100
126	254	X	-0.004	-0.004	0	%100
127	255	X	-0.004	-0.004	0	%100
128	256	X	-0.004	-0.004	0	%100
129	257	X	-0.004	-0.004	0	%100
130	258	X	-0.003	-0.003	0	%100
131	259	X	-0.003	-0.003	0	%100
132	260	X	-0.003	-0.003	0	%100
133	261	X	-0.002	-0.002	0	%100
134	262	X	-0.004	-0.004	0	%100
135	263	X	-0.004	-0.004	0	%100
136	264	X	-0.004	-0.004	0	%100
137	265	X	-0.003	-0.003	0	%100
138	266	X	-0.004	-0.004	0	%100
139	267	X	-0.004	-0.004	0	%100
140	268	X	-0.004	-0.004	0	%100
141	269	X	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 3 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
142	270	X	-0.004	-0.004	0	%100
143	271	X	-0.004	-0.004	0	%100
144	272	X	-0.004	-0.004	0	%100
145	273	X	-0.003	-0.003	0	%100
146	274	X	-0.003	-0.003	0	%100
147	275	X	-0.002	-0.002	0	%100
148	276	X	-0.002	-0.002	0	%100
149	306	X	-0.002	-0.002	0	%100
150	307	X	-0.002	-0.002	0	%100
151	308	X	-0.002	-0.002	0	%100
152	309	X	-0.002	-0.002	0	%100
153	310	X	-0.002	-0.002	0	%100
154	311	X	-0.002	-0.002	0	%100
155	312	X	-0.002	-0.002	0	%100
156	313	X	-0.002	-0.002	0	%100
157	314	X	-0.002	-0.002	0	%100
158	315	X	-0.002	-0.002	0	%100
159	316	X	-0.002	-0.002	0	%100
160	317	X	-0.002	-0.002	0	%100
161	318	X	-0.002	-0.002	0	%100
162	319	X	-0.002	-0.002	0	%100
163	320	X	-0.004	-0.004	0	%100
164	321	X	-0.004	-0.004	0	%100
165	322	X	-0.004	-0.004	0	%100
166	323	X	-0.003	-0.003	0	%100
167	324	X	-0.004	-0.004	0	%100
168	325	X	-0.004	-0.004	0	%100
169	326	X	-0.004	-0.004	0	%100
170	327	X	-0.004	-0.004	0	%100
171	328	X	-0.004	-0.004	0	%100
172	329	X	-0.004	-0.004	0	%100
173	330	X	-0.004	-0.004	0	%100
174	331	X	-0.003	-0.003	0	%100
175	332	X	-0.003	-0.003	0	%100
176	333	X	-0.003	-0.003	0	%100
177	334	X	-0.002	-0.002	0	%100
178	335	X	-0.004	-0.004	0	%100
179	336	X	-0.004	-0.004	0	%100
180	337	X	-0.004	-0.004	0	%100
181	338	X	-0.003	-0.003	0	%100
182	339	X	-0.004	-0.004	0	%100
183	340	X	-0.004	-0.004	0	%100
184	341	X	-0.004	-0.004	0	%100
185	342	X	-0.004	-0.004	0	%100
186	343	X	-0.004	-0.004	0	%100
187	344	X	-0.004	-0.004	0	%100
188	345	X	-0.004	-0.004	0	%100
189	346	X	-0.003	-0.003	0	%100
190	347	X	-0.003	-0.003	0	%100
191	348	X	-0.002	-0.002	0	%100
192	349	X	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 4 : 0 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.002	-0.002	0	%100
2	2	Z	-0.002	-0.002	0	%100
3	3	Z	-0.002	-0.002	0	%100
4	4	Z	-0.003	-0.003	0	%100
5	5	Z	-0.003	-0.003	0	%100
6	6	Z	-0.003	-0.003	0	%100
7	7	Z	-0.003	-0.003	0	%100
8	8	Z	-0.003	-0.003	0	%100
9	9	Z	-0.003	-0.003	0	%100
10	10	Z	-0.004	-0.004	0	%100
11	11	Z	-0.004	-0.004	0	%100
12	12	Z	-0.004	-0.004	0	%100
13	13	Z	-0.004	-0.004	0	%100
14	14	Z	-0.004	-0.004	0	%100
15	15	Z	-0.004	-0.004	0	%100
16	16	Z	-0.004	-0.004	0	%100
17	17	Z	-0.004	-0.004	0	%100
18	18	Z	-0.004	-0.004	0	%100
19	19	Z	-0.004	-0.004	0	%100
20	20	Z	-0.004	-0.004	0	%100
21	21	Z	-0.004	-0.004	0	%100
22	22	Z	-0.003	-0.003	0	%100
23	23	Z	-0.003	-0.003	0	%100
24	24	Z	-0.003	-0.003	0	%100
25	25	Z	-0.003	-0.003	0	%100
26	26	Z	-0.004	-0.004	0	%100
27	27	Z	-0.004	-0.004	0	%100
28	28	Z	-0.003	-0.003	0	%100
29	29	Z	-0.003	-0.003	0	%100
30	30	Z	-0.003	-0.003	0	%100
31	31	Z	-0.003	-0.003	0	%100
32	32	Z	-0.004	-0.004	0	%100
33	33	Z	-0.004	-0.004	0	%100
34	34	Z	-0.003	-0.003	0	%100
35	35	Z	-0.003	-0.003	0	%100
36	36	Z	-0.003	-0.003	0	%100
37	37	Z	-0.003	-0.003	0	%100
38	38	Z	-0.004	-0.004	0	%100
39	39	Z	-0.004	-0.004	0	%100
40	40	Z	-0.004	-0.004	0	%100
41	41	Z	-0.004	-0.004	0	%100
42	42	Z	-0.004	-0.004	0	%100
43	43	Z	-0.003	-0.003	0	%100
44	44	Z	-0.003	-0.003	0	%100
45	45	Z	-0.003	-0.003	0	%100
46	46	Z	-0.003	-0.003	0	%100
47	47	Z	-0.003	-0.003	0	%100
48	48	Z	-0.003	-0.003	0	%100
49	49	Z	-0.003	-0.003	0	%100
50	50	Z	-0.003	-0.003	0	%100
51	51	Z	-0.003	-0.003	0	%100
52	52	Z	-0.003	-0.003	0	%100
53	53	Z	-0.003	-0.003	0	%100
54	54	Z	-0.003	-0.003	0	%100
55	55	Z	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 4 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
56	56	Z	-0.003	-0.003	0	%100
57	57	Z	-0.003	-0.003	0	%100
58	58	Z	-0.003	-0.003	0	%100
59	59	Z	-0.003	-0.003	0	%100
60	60	Z	-0.003	-0.003	0	%100
61	61	Z	-0.003	-0.003	0	%100
62	62	Z	-0.003	-0.003	0	%100
63	63	Z	-0.003	-0.003	0	%100
64	64	Z	-0.003	-0.003	0	%100
65	65	Z	-0.003	-0.003	0	%100
66	66	Z	-0.003	-0.003	0	%100
67	67	Z	-0.003	-0.003	0	%100
68	68	Z	-0.003	-0.003	0	%100
69	69	Z	-0.003	-0.003	0	%100
70	70	Z	-0.003	-0.003	0	%100
71	71	Z	-0.003	-0.003	0	%100
72	72	Z	-0.003	-0.003	0	%100
73	73	Z	-0.003	-0.003	0	%100
74	74	Z	-0.003	-0.003	0	%100
75	75	Z	-0.003	-0.003	0	%100
76	76	Z	-0.003	-0.003	0	%100
77	77	Z	-0.003	-0.003	0	%100
78	78	Z	-0.003	-0.003	0	%100
79	79	Z	-0.003	-0.003	0	%100
80	80	Z	-0.003	-0.003	0	%100
81	81	Z	-0.003	-0.003	0	%100
82	82	Z	-0.003	-0.003	0	%100
83	83	Z	-0.003	-0.003	0	%100
84	84	Z	-0.003	-0.003	0	%100
85	85	Z	-0.003	-0.003	0	%100
86	86	Z	-0.003	-0.003	0	%100
87	189	Z	-0.001	-0.001	0	%100
88	190	Z	-0.001	-0.001	0	%100
89	191	Z	-0.001	-0.001	0	%100
90	193	Z	-0.001	-0.001	0	%100
91	196	Z	-0.001	-0.001	0	%100
92	199	Z	-0.001	-0.001	0	%100
93	202	Z	-0.001	-0.001	0	%100
94	207	Z	-0.001	-0.001	0	%100
95	210	Z	-0.001	-0.001	0	%100
96	213	Z	-0.001	-0.001	0	%100
97	216	Z	-0.001	-0.001	0	%100
98	218	Z	-0.004	-0.004	0	%100
99	219	Z	-0.004	-0.004	0	%100
100	220	Z	-0.004	-0.004	0	%100
101	222	Z	-0.001	-0.001	0	%100
102	225	Z	-0.001	-0.001	0	%100
103	228	Z	-0.001	-0.001	0	%100
104	231	Z	-0.001	-0.001	0	%100
105	233	Z	-0.003	-0.003	0	%100
106	234	Z	-0.003	-0.003	0	%100
107	235	Z	-0.003	-0.003	0	%100
108	236	Z	-0.003	-0.003	0	%100
109	237	Z	-0.003	-0.003	0	%100
110	238	Z	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 4 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
111	239	Z	-0.003	-0.003	0	%100
112	240	Z	-0.003	-0.003	0	%100
113	241	Z	-0.003	-0.003	0	%100
114	242	Z	-0.003	-0.003	0	%100
115	243	Z	-0.003	-0.003	0	%100
116	244	Z	-0.003	-0.003	0	%100
117	245	Z	-0.003	-0.003	0	%100
118	246	Z	-0.003	-0.003	0	%100
119	247	Z	-0.003	-0.003	0	%100
120	248	Z	-0.003	-0.003	0	%100
121	249	Z	-0.003	-0.003	0	%100
122	250	Z	-0.003	-0.003	0	%100
123	251	Z	-0.003	-0.003	0	%100
124	252	Z	-0.003	-0.003	0	%100
125	253	Z	-0.003	-0.003	0	%100
126	254	Z	-0.003	-0.003	0	%100
127	255	Z	-0.003	-0.003	0	%100
128	256	Z	-0.003	-0.003	0	%100
129	257	Z	-0.003	-0.003	0	%100
130	258	Z	-0.003	-0.003	0	%100
131	259	Z	-0.003	-0.003	0	%100
132	260	Z	-0.003	-0.003	0	%100
133	261	Z	-0.003	-0.003	0	%100
134	262	Z	-0.003	-0.003	0	%100
135	263	Z	-0.003	-0.003	0	%100
136	264	Z	-0.003	-0.003	0	%100
137	265	Z	-0.003	-0.003	0	%100
138	266	Z	-0.003	-0.003	0	%100
139	267	Z	-0.003	-0.003	0	%100
140	268	Z	-0.003	-0.003	0	%100
141	269	Z	-0.003	-0.003	0	%100
142	270	Z	-0.003	-0.003	0	%100
143	271	Z	-0.003	-0.003	0	%100
144	272	Z	-0.003	-0.003	0	%100
145	273	Z	-0.003	-0.003	0	%100
146	274	Z	-0.003	-0.003	0	%100
147	275	Z	-0.003	-0.003	0	%100
148	276	Z	-0.003	-0.003	0	%100
149	306	Z	-0.003	-0.003	0	%100
150	307	Z	-0.003	-0.003	0	%100
151	308	Z	-0.003	-0.003	0	%100
152	309	Z	-0.003	-0.003	0	%100
153	310	Z	-0.003	-0.003	0	%100
154	311	Z	-0.003	-0.003	0	%100
155	312	Z	-0.003	-0.003	0	%100
156	313	Z	-0.003	-0.003	0	%100
157	314	Z	-0.003	-0.003	0	%100
158	315	Z	-0.003	-0.003	0	%100
159	316	Z	-0.003	-0.003	0	%100
160	317	Z	-0.003	-0.003	0	%100
161	318	Z	-0.003	-0.003	0	%100
162	319	Z	-0.003	-0.003	0	%100
163	320	Z	-0.003	-0.003	0	%100
164	321	Z	-0.003	-0.003	0	%100
165	322	Z	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 4 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
166	323	Z	-0.003	-0.003	0	%100
167	324	Z	-0.003	-0.003	0	%100
168	325	Z	-0.003	-0.003	0	%100
169	326	Z	-0.003	-0.003	0	%100
170	327	Z	-0.003	-0.003	0	%100
171	328	Z	-0.003	-0.003	0	%100
172	329	Z	-0.003	-0.003	0	%100
173	330	Z	-0.003	-0.003	0	%100
174	331	Z	-0.003	-0.003	0	%100
175	332	Z	-0.003	-0.003	0	%100
176	333	Z	-0.003	-0.003	0	%100
177	334	Z	-0.003	-0.003	0	%100
178	335	Z	-0.003	-0.003	0	%100
179	336	Z	-0.003	-0.003	0	%100
180	337	Z	-0.003	-0.003	0	%100
181	338	Z	-0.003	-0.003	0	%100
182	339	Z	-0.003	-0.003	0	%100
183	340	Z	-0.003	-0.003	0	%100
184	341	Z	-0.003	-0.003	0	%100
185	342	Z	-0.003	-0.003	0	%100
186	343	Z	-0.003	-0.003	0	%100
187	344	Z	-0.003	-0.003	0	%100
188	345	Z	-0.003	-0.003	0	%100
189	346	Z	-0.003	-0.003	0	%100
190	347	Z	-0.003	-0.003	0	%100
191	348	Z	-0.003	-0.003	0	%100
192	349	Z	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.002	-0.002	0	%100
2	2	X	-0.002	-0.002	0	%100
3	3	X	-0.002	-0.002	0	%100
4	4	X	-0.003	-0.003	0	%100
5	5	X	-0.003	-0.003	0	%100
6	6	X	-0.003	-0.003	0	%100
7	7	X	-0.003	-0.003	0	%100
8	8	X	-0.003	-0.003	0	%100
9	9	X	-0.003	-0.003	0	%100
10	10	X	-0.004	-0.004	0	%100
11	11	X	-0.004	-0.004	0	%100
12	12	X	-0.004	-0.004	0	%100
13	13	X	-0.004	-0.004	0	%100
14	14	X	-0.004	-0.004	0	%100
15	15	X	-0.004	-0.004	0	%100
16	16	X	-0.004	-0.004	0	%100
17	17	X	-0.004	-0.004	0	%100
18	18	X	-0.004	-0.004	0	%100
19	19	X	-0.004	-0.004	0	%100
20	20	X	-0.004	-0.004	0	%100
21	21	X	-0.004	-0.004	0	%100
22	22	X	-0.003	-0.003	0	%100
23	23	X	-0.003	-0.003	0	%100
24	24	X	-0.003	-0.003	0	%100
25	25	X	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
26	26	X	-0.004	-0.004	0	%100
27	27	X	-0.004	-0.004	0	%100
28	28	X	-0.003	-0.003	0	%100
29	29	X	-0.003	-0.003	0	%100
30	30	X	-0.003	-0.003	0	%100
31	31	X	-0.003	-0.003	0	%100
32	32	X	-0.004	-0.004	0	%100
33	33	X	-0.004	-0.004	0	%100
34	34	X	-0.003	-0.003	0	%100
35	35	X	-0.003	-0.003	0	%100
36	36	X	-0.003	-0.003	0	%100
37	37	X	-0.003	-0.003	0	%100
38	38	X	-0.004	-0.004	0	%100
39	39	X	-0.004	-0.004	0	%100
40	40	X	-0.004	-0.004	0	%100
41	41	X	-0.004	-0.004	0	%100
42	42	X	-0.004	-0.004	0	%100
43	43	X	-0.003	-0.003	0	%100
44	44	X	-0.003	-0.003	0	%100
45	45	X	-0.003	-0.003	0	%100
46	46	X	-0.003	-0.003	0	%100
47	47	X	-0.003	-0.003	0	%100
48	48	X	-0.003	-0.003	0	%100
49	49	X	-0.003	-0.003	0	%100
50	50	X	-0.003	-0.003	0	%100
51	51	X	-0.003	-0.003	0	%100
52	52	X	-0.003	-0.003	0	%100
53	53	X	-0.003	-0.003	0	%100
54	54	X	-0.003	-0.003	0	%100
55	55	X	-0.003	-0.003	0	%100
56	56	X	-0.003	-0.003	0	%100
57	57	X	-0.003	-0.003	0	%100
58	58	X	-0.003	-0.003	0	%100
59	59	X	-0.003	-0.003	0	%100
60	60	X	-0.003	-0.003	0	%100
61	61	X	-0.003	-0.003	0	%100
62	62	X	-0.003	-0.003	0	%100
63	63	X	-0.003	-0.003	0	%100
64	64	X	-0.003	-0.003	0	%100
65	65	X	-0.003	-0.003	0	%100
66	66	X	-0.003	-0.003	0	%100
67	67	X	-0.003	-0.003	0	%100
68	68	X	-0.003	-0.003	0	%100
69	69	X	-0.003	-0.003	0	%100
70	70	X	-0.003	-0.003	0	%100
71	71	X	-0.003	-0.003	0	%100
72	72	X	-0.003	-0.003	0	%100
73	73	X	-0.003	-0.003	0	%100
74	74	X	-0.003	-0.003	0	%100
75	75	X	-0.003	-0.003	0	%100
76	76	X	-0.003	-0.003	0	%100
77	77	X	-0.003	-0.003	0	%100
78	78	X	-0.003	-0.003	0	%100
79	79	X	-0.003	-0.003	0	%100
80	80	X	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
81	81	X	-0.003	-0.003	0	%100
82	82	X	-0.003	-0.003	0	%100
83	83	X	-0.003	-0.003	0	%100
84	84	X	-0.003	-0.003	0	%100
85	85	X	-0.003	-0.003	0	%100
86	86	X	-0.003	-0.003	0	%100
87	189	X	-0.001	-0.001	0	%100
88	190	X	-0.001	-0.001	0	%100
89	191	X	-0.001	-0.001	0	%100
90	193	X	-0.001	-0.001	0	%100
91	196	X	-0.001	-0.001	0	%100
92	199	X	-0.001	-0.001	0	%100
93	202	X	-0.001	-0.001	0	%100
94	207	X	-0.001	-0.001	0	%100
95	210	X	-0.001	-0.001	0	%100
96	213	X	-0.001	-0.001	0	%100
97	216	X	-0.001	-0.001	0	%100
98	218	X	-0.004	-0.004	0	%100
99	219	X	-0.004	-0.004	0	%100
100	220	X	-0.004	-0.004	0	%100
101	222	X	-0.001	-0.001	0	%100
102	225	X	-0.001	-0.001	0	%100
103	228	X	-0.001	-0.001	0	%100
104	231	X	-0.001	-0.001	0	%100
105	233	X	-0.003	-0.003	0	%100
106	234	X	-0.003	-0.003	0	%100
107	235	X	-0.003	-0.003	0	%100
108	236	X	-0.003	-0.003	0	%100
109	237	X	-0.003	-0.003	0	%100
110	238	X	-0.003	-0.003	0	%100
111	239	X	-0.003	-0.003	0	%100
112	240	X	-0.003	-0.003	0	%100
113	241	X	-0.003	-0.003	0	%100
114	242	X	-0.003	-0.003	0	%100
115	243	X	-0.003	-0.003	0	%100
116	244	X	-0.003	-0.003	0	%100
117	245	X	-0.003	-0.003	0	%100
118	246	X	-0.003	-0.003	0	%100
119	247	X	-0.003	-0.003	0	%100
120	248	X	-0.003	-0.003	0	%100
121	249	X	-0.003	-0.003	0	%100
122	250	X	-0.003	-0.003	0	%100
123	251	X	-0.003	-0.003	0	%100
124	252	X	-0.003	-0.003	0	%100
125	253	X	-0.003	-0.003	0	%100
126	254	X	-0.003	-0.003	0	%100
127	255	X	-0.003	-0.003	0	%100
128	256	X	-0.003	-0.003	0	%100
129	257	X	-0.003	-0.003	0	%100
130	258	X	-0.003	-0.003	0	%100
131	259	X	-0.003	-0.003	0	%100
132	260	X	-0.003	-0.003	0	%100
133	261	X	-0.003	-0.003	0	%100
134	262	X	-0.003	-0.003	0	%100
135	263	X	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
136	264	X	-0.003	-0.003	0	%100
137	265	X	-0.003	-0.003	0	%100
138	266	X	-0.003	-0.003	0	%100
139	267	X	-0.003	-0.003	0	%100
140	268	X	-0.003	-0.003	0	%100
141	269	X	-0.003	-0.003	0	%100
142	270	X	-0.003	-0.003	0	%100
143	271	X	-0.003	-0.003	0	%100
144	272	X	-0.003	-0.003	0	%100
145	273	X	-0.003	-0.003	0	%100
146	274	X	-0.003	-0.003	0	%100
147	275	X	-0.003	-0.003	0	%100
148	276	X	-0.003	-0.003	0	%100
149	306	X	-0.003	-0.003	0	%100
150	307	X	-0.003	-0.003	0	%100
151	308	X	-0.003	-0.003	0	%100
152	309	X	-0.003	-0.003	0	%100
153	310	X	-0.003	-0.003	0	%100
154	311	X	-0.003	-0.003	0	%100
155	312	X	-0.003	-0.003	0	%100
156	313	X	-0.003	-0.003	0	%100
157	314	X	-0.003	-0.003	0	%100
158	315	X	-0.003	-0.003	0	%100
159	316	X	-0.003	-0.003	0	%100
160	317	X	-0.003	-0.003	0	%100
161	318	X	-0.003	-0.003	0	%100
162	319	X	-0.003	-0.003	0	%100
163	320	X	-0.003	-0.003	0	%100
164	321	X	-0.003	-0.003	0	%100
165	322	X	-0.003	-0.003	0	%100
166	323	X	-0.003	-0.003	0	%100
167	324	X	-0.003	-0.003	0	%100
168	325	X	-0.003	-0.003	0	%100
169	326	X	-0.003	-0.003	0	%100
170	327	X	-0.003	-0.003	0	%100
171	328	X	-0.003	-0.003	0	%100
172	329	X	-0.003	-0.003	0	%100
173	330	X	-0.003	-0.003	0	%100
174	331	X	-0.003	-0.003	0	%100
175	332	X	-0.003	-0.003	0	%100
176	333	X	-0.003	-0.003	0	%100
177	334	X	-0.003	-0.003	0	%100
178	335	X	-0.003	-0.003	0	%100
179	336	X	-0.003	-0.003	0	%100
180	337	X	-0.003	-0.003	0	%100
181	338	X	-0.003	-0.003	0	%100
182	339	X	-0.003	-0.003	0	%100
183	340	X	-0.003	-0.003	0	%100
184	341	X	-0.003	-0.003	0	%100
185	342	X	-0.003	-0.003	0	%100
186	343	X	-0.003	-0.003	0	%100
187	344	X	-0.003	-0.003	0	%100
188	345	X	-0.003	-0.003	0	%100
189	346	X	-0.003	-0.003	0	%100
190	347	X	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
191	348	X	-0.003	-0.003	0	%100
192	349	X	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 6 : 0 Wind - Service)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.0003	-0.0003	0	%100
2	2	Z	-0.0003	-0.0003	0	%100
3	3	Z	-0.0003	-0.0003	0	%100
4	4	Z	-0.0001	-0.0001	0	%100
5	5	Z	-0.0001	-0.0001	0	%100
6	6	Z	-0.0001	-0.0001	0	%100
7	7	Z	-0.0001	-0.0001	0	%100
8	8	Z	-0.0001	-0.0001	0	%100
9	9	Z	-0.0001	-0.0001	0	%100
10	10	Z	-0.0008	-0.0008	0	%100
11	11	Z	-0.0008	-0.0008	0	%100
12	12	Z	-0.0007	-0.0007	0	%100
13	13	Z	-0.0007	-0.0007	0	%100
14	14	Z	-0.0008	-0.0008	0	%100
15	15	Z	-0.0008	-0.0008	0	%100
16	16	Z	-0.0007	-0.0007	0	%100
17	17	Z	-0.0007	-0.0007	0	%100
18	18	Z	-0.0008	-0.0008	0	%100
19	19	Z	-0.0008	-0.0008	0	%100
20	20	Z	-0.0007	-0.0007	0	%100
21	21	Z	-0.0007	-0.0007	0	%100
22	22	Z	-0.0005	-0.0005	0	%100
23	23	Z	-0.0005	-0.0005	0	%100
24	24	Z	-0.0006	-0.0006	0	%100
25	25	Z	-0.0006	-0.0006	0	%100
26	26	Z	-0.0005	-0.0005	0	%100
27	27	Z	-0.0005	-0.0005	0	%100
28	28	Z	-0.0005	-0.0005	0	%100
29	29	Z	-0.0005	-0.0005	0	%100
30	30	Z	-0.0006	-0.0006	0	%100
31	31	Z	-0.0006	-0.0006	0	%100
32	32	Z	-0.0005	-0.0005	0	%100
33	33	Z	-0.0005	-0.0005	0	%100
34	34	Z	-0.0005	-0.0005	0	%100
35	35	Z	-0.0005	-0.0005	0	%100
36	36	Z	-0.0006	-0.0006	0	%100
37	37	Z	-0.0006	-0.0006	0	%100
38	38	Z	-0.0005	-0.0005	0	%100
39	39	Z	-0.0005	-0.0005	0	%100
40	40	Z	-0.0009	-0.0009	0	%100
41	41	Z	-0.0009	-0.0009	0	%100
42	42	Z	-0.0009	-0.0009	0	%100
43	43	Z	-0.0001	-0.0001	0	%100
44	44	Z	-0.0001	-0.0001	0	%100
45	45	Z	-0.0001	-0.0001	0	%100
46	46	Z	-0.0001	-0.0001	0	%100
47	47	Z	-0.0001	-0.0001	0	%100
48	48	Z	-0.0001	-0.0001	0	%100
49	49	Z	-0.0001	-0.0001	0	%100
50	50	Z	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 6 : 0 Wind - Service) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
51	51	Z	-0.0002	-0.0002	0	%100
52	52	Z	-0.0001	-0.0001	0	%100
53	53	Z	-0.0001	-0.0001	0	%100
54	54	Z	-0.0002	-0.0002	0	%100
55	55	Z	-0.0001	-0.0001	0	%100
56	56	Z	-0.0001	-0.0001	0	%100
57	57	Z	-0.0003	-0.0003	0	%100
58	58	Z	-0.0003	-0.0003	0	%100
59	59	Z	-0.0002	-0.0002	0	%100
60	60	Z	-0.0002	-0.0002	0	%100
61	61	Z	-0.0003	-0.0003	0	%100
62	62	Z	-0.0002	-0.0002	0	%100
63	63	Z	-0.0002	-0.0002	0	%100
64	64	Z	-0.0003	-0.0003	0	%100
65	65	Z	-0.0003	-0.0003	0	%100
66	66	Z	-0.0003	-0.0003	0	%100
67	67	Z	-0.0002	-0.0002	0	%100
68	68	Z	-0.0002	-0.0002	0	%100
69	69	Z	-0.0002	-0.0002	0	%100
70	70	Z	-0.0002	-0.0002	0	%100
71	71	Z	-0.0001	-0.0001	0	%100
72	72	Z	-0.0003	-0.0003	0	%100
73	73	Z	-0.0003	-0.0003	0	%100
74	74	Z	-0.0002	-0.0002	0	%100
75	75	Z	-0.0002	-0.0002	0	%100
76	76	Z	-0.0003	-0.0003	0	%100
77	77	Z	-0.0002	-0.0002	0	%100
78	78	Z	-0.0002	-0.0002	0	%100
79	79	Z	-0.0002	-0.0002	0	%100
80	80	Z	-0.0002	-0.0002	0	%100
81	81	Z	-0.0002	-0.0002	0	%100
82	82	Z	-0.0002	-0.0002	0	%100
83	83	Z	-0.0002	-0.0002	0	%100
84	84	Z	-0.0002	-0.0002	0	%100
85	85	Z	-0.0002	-0.0002	0	%100
86	86	Z	-0.0001	-0.0001	0	%100
87	189	Z	-0.0002	-0.0002	0	%100
88	190	Z	-0.0002	-0.0002	0	%100
89	191	Z	-0.0002	-0.0002	0	%100
90	193	Z	-0.0002	-0.0002	0	%100
91	196	Z	-0.0002	-0.0002	0	%100
92	199	Z	-0.0002	-0.0002	0	%100
93	202	Z	-0.0002	-0.0002	0	%100
94	207	Z	-0.0002	-0.0002	0	%100
95	210	Z	-0.0002	-0.0002	0	%100
96	213	Z	-0.0002	-0.0002	0	%100
97	216	Z	-0.0002	-0.0002	0	%100
98	218	Z	-0.0009	-0.0009	0	%100
99	219	Z	-0.0009	-0.0009	0	%100
100	220	Z	-0.0009	-0.0009	0	%100
101	222	Z	-0.0002	-0.0002	0	%100
102	225	Z	-0.0002	-0.0002	0	%100
103	228	Z	-0.0002	-0.0002	0	%100
104	231	Z	-0.0002	-0.0002	0	%100
105	233	Z	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 6 : 0 Wind - Service) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
106	234	Z	-0.0001	-0.0001	0	%100
107	235	Z	-0.0001	-0.0001	0	%100
108	236	Z	-0.0001	-0.0001	0	%100
109	237	Z	-0.0001	-0.0001	0	%100
110	238	Z	-0.0001	-0.0001	0	%100
111	239	Z	-0.0001	-0.0001	0	%100
112	240	Z	-0.0002	-0.0002	0	%100
113	241	Z	-0.0002	-0.0002	0	%100
114	242	Z	-0.0001	-0.0001	0	%100
115	243	Z	-0.0001	-0.0001	0	%100
116	244	Z	-0.0002	-0.0002	0	%100
117	245	Z	-0.0001	-0.0001	0	%100
118	246	Z	-0.0001	-0.0001	0	%100
119	247	Z	-0.0003	-0.0003	0	%100
120	248	Z	-0.0003	-0.0003	0	%100
121	249	Z	-0.0002	-0.0002	0	%100
122	250	Z	-0.0002	-0.0002	0	%100
123	251	Z	-0.0003	-0.0003	0	%100
124	252	Z	-0.0002	-0.0002	0	%100
125	253	Z	-0.0002	-0.0002	0	%100
126	254	Z	-0.0003	-0.0003	0	%100
127	255	Z	-0.0003	-0.0003	0	%100
128	256	Z	-0.0003	-0.0003	0	%100
129	257	Z	-0.0002	-0.0002	0	%100
130	258	Z	-0.0002	-0.0002	0	%100
131	259	Z	-0.0002	-0.0002	0	%100
132	260	Z	-0.0002	-0.0002	0	%100
133	261	Z	-0.0001	-0.0001	0	%100
134	262	Z	-0.0003	-0.0003	0	%100
135	263	Z	-0.0003	-0.0003	0	%100
136	264	Z	-0.0002	-0.0002	0	%100
137	265	Z	-0.0002	-0.0002	0	%100
138	266	Z	-0.0003	-0.0003	0	%100
139	267	Z	-0.0002	-0.0002	0	%100
140	268	Z	-0.0002	-0.0002	0	%100
141	269	Z	-0.0002	-0.0002	0	%100
142	270	Z	-0.0002	-0.0002	0	%100
143	271	Z	-0.0002	-0.0002	0	%100
144	272	Z	-0.0002	-0.0002	0	%100
145	273	Z	-0.0002	-0.0002	0	%100
146	274	Z	-0.0002	-0.0002	0	%100
147	275	Z	-0.0002	-0.0002	0	%100
148	276	Z	-0.0001	-0.0001	0	%100
149	306	Z	-0.0001	-0.0001	0	%100
150	307	Z	-0.0001	-0.0001	0	%100
151	308	Z	-0.0001	-0.0001	0	%100
152	309	Z	-0.0001	-0.0001	0	%100
153	310	Z	-0.0001	-0.0001	0	%100
154	311	Z	-0.0001	-0.0001	0	%100
155	312	Z	-0.0001	-0.0001	0	%100
156	313	Z	-0.0002	-0.0002	0	%100
157	314	Z	-0.0002	-0.0002	0	%100
158	315	Z	-0.0001	-0.0001	0	%100
159	316	Z	-0.0001	-0.0001	0	%100
160	317	Z	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 6 : 0 Wind - Service) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
161	318	Z	-0.0001	-0.0001	0	%100
162	319	Z	-0.0001	-0.0001	0	%100
163	320	Z	-0.0003	-0.0003	0	%100
164	321	Z	-0.0003	-0.0003	0	%100
165	322	Z	-0.0002	-0.0002	0	%100
166	323	Z	-0.0002	-0.0002	0	%100
167	324	Z	-0.0003	-0.0003	0	%100
168	325	Z	-0.0002	-0.0002	0	%100
169	326	Z	-0.0002	-0.0002	0	%100
170	327	Z	-0.0003	-0.0003	0	%100
171	328	Z	-0.0003	-0.0003	0	%100
172	329	Z	-0.0003	-0.0003	0	%100
173	330	Z	-0.0002	-0.0002	0	%100
174	331	Z	-0.0002	-0.0002	0	%100
175	332	Z	-0.0002	-0.0002	0	%100
176	333	Z	-0.0002	-0.0002	0	%100
177	334	Z	-0.0001	-0.0001	0	%100
178	335	Z	-0.0003	-0.0003	0	%100
179	336	Z	-0.0003	-0.0003	0	%100
180	337	Z	-0.0002	-0.0002	0	%100
181	338	Z	-0.0002	-0.0002	0	%100
182	339	Z	-0.0003	-0.0003	0	%100
183	340	Z	-0.0002	-0.0002	0	%100
184	341	Z	-0.0002	-0.0002	0	%100
185	342	Z	-0.0002	-0.0002	0	%100
186	343	Z	-0.0002	-0.0002	0	%100
187	344	Z	-0.0002	-0.0002	0	%100
188	345	Z	-0.0002	-0.0002	0	%100
189	346	Z	-0.0002	-0.0002	0	%100
190	347	Z	-0.0002	-0.0002	0	%100
191	348	Z	-0.0002	-0.0002	0	%100
192	349	Z	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.0003	-0.0003	0	%100
2	2	X	-0.0003	-0.0003	0	%100
3	3	X	-0.0003	-0.0003	0	%100
4	4	X	-0.0001	-0.0001	0	%100
5	5	X	-0.0001	-0.0001	0	%100
6	6	X	-0.0001	-0.0001	0	%100
7	7	X	-0.0001	-0.0001	0	%100
8	8	X	-0.0001	-0.0001	0	%100
9	9	X	-0.0001	-0.0001	0	%100
10	10	X	-0.0008	-0.0008	0	%100
11	11	X	-0.0008	-0.0008	0	%100
12	12	X	-0.0007	-0.0007	0	%100
13	13	X	-0.0007	-0.0007	0	%100
14	14	X	-0.0008	-0.0008	0	%100
15	15	X	-0.0008	-0.0008	0	%100
16	16	X	-0.0007	-0.0007	0	%100
17	17	X	-0.0007	-0.0007	0	%100
18	18	X	-0.0008	-0.0008	0	%100
19	19	X	-0.0008	-0.0008	0	%100
20	20	X	-0.0007	-0.0007	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
21	21	X	-0.0007	-0.0007	0	%100
22	22	X	-0.0005	-0.0005	0	%100
23	23	X	-0.0005	-0.0005	0	%100
24	24	X	-0.0006	-0.0006	0	%100
25	25	X	-0.0006	-0.0006	0	%100
26	26	X	-0.0005	-0.0005	0	%100
27	27	X	-0.0005	-0.0005	0	%100
28	28	X	-0.0005	-0.0005	0	%100
29	29	X	-0.0005	-0.0005	0	%100
30	30	X	-0.0006	-0.0006	0	%100
31	31	X	-0.0006	-0.0006	0	%100
32	32	X	-0.0005	-0.0005	0	%100
33	33	X	-0.0005	-0.0005	0	%100
34	34	X	-0.0005	-0.0005	0	%100
35	35	X	-0.0005	-0.0005	0	%100
36	36	X	-0.0006	-0.0006	0	%100
37	37	X	-0.0006	-0.0006	0	%100
38	38	X	-0.0005	-0.0005	0	%100
39	39	X	-0.0005	-0.0005	0	%100
40	40	X	-0.0009	-0.0009	0	%100
41	41	X	-0.0009	-0.0009	0	%100
42	42	X	-0.0009	-0.0009	0	%100
43	43	X	-0.0001	-0.0001	0	%100
44	44	X	-0.0001	-0.0001	0	%100
45	45	X	-0.0001	-0.0001	0	%100
46	46	X	-0.0001	-0.0001	0	%100
47	47	X	-0.0001	-0.0001	0	%100
48	48	X	-0.0001	-0.0001	0	%100
49	49	X	-0.0001	-0.0001	0	%100
50	50	X	-0.0002	-0.0002	0	%100
51	51	X	-0.0002	-0.0002	0	%100
52	52	X	-0.0001	-0.0001	0	%100
53	53	X	-0.0001	-0.0001	0	%100
54	54	X	-0.0002	-0.0002	0	%100
55	55	X	-0.0001	-0.0001	0	%100
56	56	X	-0.0001	-0.0001	0	%100
57	57	X	-0.0003	-0.0003	0	%100
58	58	X	-0.0003	-0.0003	0	%100
59	59	X	-0.0002	-0.0002	0	%100
60	60	X	-0.0002	-0.0002	0	%100
61	61	X	-0.0003	-0.0003	0	%100
62	62	X	-0.0002	-0.0002	0	%100
63	63	X	-0.0002	-0.0002	0	%100
64	64	X	-0.0003	-0.0003	0	%100
65	65	X	-0.0003	-0.0003	0	%100
66	66	X	-0.0003	-0.0003	0	%100
67	67	X	-0.0002	-0.0002	0	%100
68	68	X	-0.0002	-0.0002	0	%100
69	69	X	-0.0002	-0.0002	0	%100
70	70	X	-0.0002	-0.0002	0	%100
71	71	X	-0.0001	-0.0001	0	%100
72	72	X	-0.0003	-0.0003	0	%100
73	73	X	-0.0003	-0.0003	0	%100
74	74	X	-0.0002	-0.0002	0	%100
75	75	X	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
76	76	X	-0.0003	-0.0003	0	%100
77	77	X	-0.0002	-0.0002	0	%100
78	78	X	-0.0002	-0.0002	0	%100
79	79	X	-0.0002	-0.0002	0	%100
80	80	X	-0.0002	-0.0002	0	%100
81	81	X	-0.0002	-0.0002	0	%100
82	82	X	-0.0002	-0.0002	0	%100
83	83	X	-0.0002	-0.0002	0	%100
84	84	X	-0.0002	-0.0002	0	%100
85	85	X	-0.0002	-0.0002	0	%100
86	86	X	-0.0001	-0.0001	0	%100
87	189	X	-0.0002	-0.0002	0	%100
88	190	X	-0.0002	-0.0002	0	%100
89	191	X	-0.0002	-0.0002	0	%100
90	193	X	-0.0002	-0.0002	0	%100
91	196	X	-0.0002	-0.0002	0	%100
92	199	X	-0.0002	-0.0002	0	%100
93	202	X	-0.0002	-0.0002	0	%100
94	207	X	-0.0002	-0.0002	0	%100
95	210	X	-0.0002	-0.0002	0	%100
96	213	X	-0.0002	-0.0002	0	%100
97	216	X	-0.0002	-0.0002	0	%100
98	218	X	-0.0009	-0.0009	0	%100
99	219	X	-0.0009	-0.0009	0	%100
100	220	X	-0.0009	-0.0009	0	%100
101	222	X	-0.0002	-0.0002	0	%100
102	225	X	-0.0002	-0.0002	0	%100
103	228	X	-0.0002	-0.0002	0	%100
104	231	X	-0.0002	-0.0002	0	%100
105	233	X	-0.0001	-0.0001	0	%100
106	234	X	-0.0001	-0.0001	0	%100
107	235	X	-0.0001	-0.0001	0	%100
108	236	X	-0.0001	-0.0001	0	%100
109	237	X	-0.0001	-0.0001	0	%100
110	238	X	-0.0001	-0.0001	0	%100
111	239	X	-0.0001	-0.0001	0	%100
112	240	X	-0.0002	-0.0002	0	%100
113	241	X	-0.0002	-0.0002	0	%100
114	242	X	-0.0001	-0.0001	0	%100
115	243	X	-0.0001	-0.0001	0	%100
116	244	X	-0.0002	-0.0002	0	%100
117	245	X	-0.0001	-0.0001	0	%100
118	246	X	-0.0001	-0.0001	0	%100
119	247	X	-0.0003	-0.0003	0	%100
120	248	X	-0.0003	-0.0003	0	%100
121	249	X	-0.0002	-0.0002	0	%100
122	250	X	-0.0002	-0.0002	0	%100
123	251	X	-0.0003	-0.0003	0	%100
124	252	X	-0.0002	-0.0002	0	%100
125	253	X	-0.0002	-0.0002	0	%100
126	254	X	-0.0003	-0.0003	0	%100
127	255	X	-0.0003	-0.0003	0	%100
128	256	X	-0.0003	-0.0003	0	%100
129	257	X	-0.0002	-0.0002	0	%100
130	258	X	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
131	259	X	-0.0002	-0.0002	0	%100
132	260	X	-0.0002	-0.0002	0	%100
133	261	X	-0.0001	-0.0001	0	%100
134	262	X	-0.0003	-0.0003	0	%100
135	263	X	-0.0003	-0.0003	0	%100
136	264	X	-0.0002	-0.0002	0	%100
137	265	X	-0.0002	-0.0002	0	%100
138	266	X	-0.0003	-0.0003	0	%100
139	267	X	-0.0002	-0.0002	0	%100
140	268	X	-0.0002	-0.0002	0	%100
141	269	X	-0.0002	-0.0002	0	%100
142	270	X	-0.0002	-0.0002	0	%100
143	271	X	-0.0002	-0.0002	0	%100
144	272	X	-0.0002	-0.0002	0	%100
145	273	X	-0.0002	-0.0002	0	%100
146	274	X	-0.0002	-0.0002	0	%100
147	275	X	-0.0002	-0.0002	0	%100
148	276	X	-0.0001	-0.0001	0	%100
149	306	X	-0.0001	-0.0001	0	%100
150	307	X	-0.0001	-0.0001	0	%100
151	308	X	-0.0001	-0.0001	0	%100
152	309	X	-0.0001	-0.0001	0	%100
153	310	X	-0.0001	-0.0001	0	%100
154	311	X	-0.0001	-0.0001	0	%100
155	312	X	-0.0001	-0.0001	0	%100
156	313	X	-0.0002	-0.0002	0	%100
157	314	X	-0.0002	-0.0002	0	%100
158	315	X	-0.0001	-0.0001	0	%100
159	316	X	-0.0001	-0.0001	0	%100
160	317	X	-0.0002	-0.0002	0	%100
161	318	X	-0.0001	-0.0001	0	%100
162	319	X	-0.0001	-0.0001	0	%100
163	320	X	-0.0003	-0.0003	0	%100
164	321	X	-0.0003	-0.0003	0	%100
165	322	X	-0.0002	-0.0002	0	%100
166	323	X	-0.0002	-0.0002	0	%100
167	324	X	-0.0003	-0.0003	0	%100
168	325	X	-0.0002	-0.0002	0	%100
169	326	X	-0.0002	-0.0002	0	%100
170	327	X	-0.0003	-0.0003	0	%100
171	328	X	-0.0003	-0.0003	0	%100
172	329	X	-0.0003	-0.0003	0	%100
173	330	X	-0.0002	-0.0002	0	%100
174	331	X	-0.0002	-0.0002	0	%100
175	332	X	-0.0002	-0.0002	0	%100
176	333	X	-0.0002	-0.0002	0	%100
177	334	X	-0.0001	-0.0001	0	%100
178	335	X	-0.0003	-0.0003	0	%100
179	336	X	-0.0003	-0.0003	0	%100
180	337	X	-0.0002	-0.0002	0	%100
181	338	X	-0.0002	-0.0002	0	%100
182	339	X	-0.0003	-0.0003	0	%100
183	340	X	-0.0002	-0.0002	0	%100
184	341	X	-0.0002	-0.0002	0	%100
185	342	X	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
186	343	X	-0.0002	-0.0002	0	%100
187	344	X	-0.0002	-0.0002	0	%100
188	345	X	-0.0002	-0.0002	0	%100
189	346	X	-0.0002	-0.0002	0	%100
190	347	X	-0.0002	-0.0002	0	%100
191	348	X	-0.0002	-0.0002	0	%100
192	349	X	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 8 : Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Y	-0.006	-0.006	0	%100
2	2	Y	-0.006	-0.006	0	%100
3	3	Y	-0.006	-0.006	0	%100
4	4	Y	-0.006	-0.006	0	%100
5	5	Y	-0.006	-0.006	0	%100
6	6	Y	-0.006	-0.006	0	%100
7	7	Y	-0.006	-0.006	0	%100
8	8	Y	-0.006	-0.006	0	%100
9	9	Y	-0.006	-0.006	0	%100
10	10	Y	-0.007	-0.007	0	%100
11	11	Y	-0.007	-0.007	0	%100
12	12	Y	-0.007	-0.007	0	%100
13	13	Y	-0.007	-0.007	0	%100
14	14	Y	-0.007	-0.007	0	%100
15	15	Y	-0.007	-0.007	0	%100
16	16	Y	-0.007	-0.007	0	%100
17	17	Y	-0.007	-0.007	0	%100
18	18	Y	-0.007	-0.007	0	%100
19	19	Y	-0.007	-0.007	0	%100
20	20	Y	-0.007	-0.007	0	%100
21	21	Y	-0.007	-0.007	0	%100
22	22	Y	-0.005	-0.005	0	%100
23	23	Y	-0.005	-0.005	0	%100
24	24	Y	-0.005	-0.005	0	%100
25	25	Y	-0.005	-0.005	0	%100
26	26	Y	-0.005	-0.005	0	%100
27	27	Y	-0.005	-0.005	0	%100
28	28	Y	-0.005	-0.005	0	%100
29	29	Y	-0.005	-0.005	0	%100
30	30	Y	-0.005	-0.005	0	%100
31	31	Y	-0.005	-0.005	0	%100
32	32	Y	-0.005	-0.005	0	%100
33	33	Y	-0.005	-0.005	0	%100
34	34	Y	-0.005	-0.005	0	%100
35	35	Y	-0.005	-0.005	0	%100
36	36	Y	-0.005	-0.005	0	%100
37	37	Y	-0.005	-0.005	0	%100
38	38	Y	-0.005	-0.005	0	%100
39	39	Y	-0.005	-0.005	0	%100
40	40	Y	-0.009	-0.009	0	%100
41	41	Y	-0.009	-0.009	0	%100
42	42	Y	-0.009	-0.009	0	%100
43	43	Y	-0.007	-0.007	0	%100
44	44	Y	-0.007	-0.007	0	%100
45	45	Y	-0.007	-0.007	0	%100

Member Distributed Loads (BLC 8 : Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
46	46	Y	-0.007	-0.007	0	%100
47	47	Y	-0.007	-0.007	0	%100
48	48	Y	-0.007	-0.007	0	%100
49	49	Y	-0.007	-0.007	0	%100
50	50	Y	-0.007	-0.007	0	%100
51	51	Y	-0.007	-0.007	0	%100
52	52	Y	-0.007	-0.007	0	%100
53	53	Y	-0.007	-0.007	0	%100
54	54	Y	-0.007	-0.007	0	%100
55	55	Y	-0.007	-0.007	0	%100
56	56	Y	-0.007	-0.007	0	%100
57	57	Y	-0.003	-0.003	0	%100
58	58	Y	-0.003	-0.003	0	%100
59	59	Y	-0.003	-0.003	0	%100
60	60	Y	-0.003	-0.003	0	%100
61	61	Y	-0.003	-0.003	0	%100
62	62	Y	-0.003	-0.003	0	%100
63	63	Y	-0.003	-0.003	0	%100
64	64	Y	-0.003	-0.003	0	%100
65	65	Y	-0.003	-0.003	0	%100
66	66	Y	-0.003	-0.003	0	%100
67	67	Y	-0.003	-0.003	0	%100
68	68	Y	-0.003	-0.003	0	%100
69	69	Y	-0.003	-0.003	0	%100
70	70	Y	-0.003	-0.003	0	%100
71	71	Y	-0.003	-0.003	0	%100
72	72	Y	-0.003	-0.003	0	%100
73	73	Y	-0.003	-0.003	0	%100
74	74	Y	-0.003	-0.003	0	%100
75	75	Y	-0.003	-0.003	0	%100
76	76	Y	-0.003	-0.003	0	%100
77	77	Y	-0.003	-0.003	0	%100
78	78	Y	-0.003	-0.003	0	%100
79	79	Y	-0.003	-0.003	0	%100
80	80	Y	-0.003	-0.003	0	%100
81	81	Y	-0.003	-0.003	0	%100
82	82	Y	-0.003	-0.003	0	%100
83	83	Y	-0.003	-0.003	0	%100
84	84	Y	-0.003	-0.003	0	%100
85	85	Y	-0.003	-0.003	0	%100
86	86	Y	-0.003	-0.003	0	%100
87	189	Y	-0.005	-0.005	0	%100
88	190	Y	-0.005	-0.005	0	%100
89	191	Y	-0.005	-0.005	0	%100
90	193	Y	-0.005	-0.005	0	%100
91	196	Y	-0.005	-0.005	0	%100
92	199	Y	-0.005	-0.005	0	%100
93	202	Y	-0.005	-0.005	0	%100
94	207	Y	-0.005	-0.005	0	%100
95	210	Y	-0.005	-0.005	0	%100
96	213	Y	-0.005	-0.005	0	%100
97	216	Y	-0.005	-0.005	0	%100
98	218	Y	-0.008	-0.008	0	%100
99	219	Y	-0.008	-0.008	0	%100
100	220	Y	-0.008	-0.008	0	%100

Member Distributed Loads (BLC 8 : Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
101	222	Y	-0.005	-0.005	0	%100
102	225	Y	-0.005	-0.005	0	%100
103	228	Y	-0.005	-0.005	0	%100
104	231	Y	-0.005	-0.005	0	%100
105	233	Y	-0.007	-0.007	0	%100
106	234	Y	-0.007	-0.007	0	%100
107	235	Y	-0.007	-0.007	0	%100
108	236	Y	-0.007	-0.007	0	%100
109	237	Y	-0.007	-0.007	0	%100
110	238	Y	-0.007	-0.007	0	%100
111	239	Y	-0.007	-0.007	0	%100
112	240	Y	-0.007	-0.007	0	%100
113	241	Y	-0.007	-0.007	0	%100
114	242	Y	-0.007	-0.007	0	%100
115	243	Y	-0.007	-0.007	0	%100
116	244	Y	-0.007	-0.007	0	%100
117	245	Y	-0.007	-0.007	0	%100
118	246	Y	-0.007	-0.007	0	%100
119	247	Y	-0.003	-0.003	0	%100
120	248	Y	-0.003	-0.003	0	%100
121	249	Y	-0.003	-0.003	0	%100
122	250	Y	-0.003	-0.003	0	%100
123	251	Y	-0.003	-0.003	0	%100
124	252	Y	-0.003	-0.003	0	%100
125	253	Y	-0.003	-0.003	0	%100
126	254	Y	-0.003	-0.003	0	%100
127	255	Y	-0.003	-0.003	0	%100
128	256	Y	-0.003	-0.003	0	%100
129	257	Y	-0.003	-0.003	0	%100
130	258	Y	-0.003	-0.003	0	%100
131	259	Y	-0.003	-0.003	0	%100
132	260	Y	-0.003	-0.003	0	%100
133	261	Y	-0.003	-0.003	0	%100
134	262	Y	-0.003	-0.003	0	%100
135	263	Y	-0.003	-0.003	0	%100
136	264	Y	-0.003	-0.003	0	%100
137	265	Y	-0.003	-0.003	0	%100
138	266	Y	-0.003	-0.003	0	%100
139	267	Y	-0.003	-0.003	0	%100
140	268	Y	-0.003	-0.003	0	%100
141	269	Y	-0.003	-0.003	0	%100
142	270	Y	-0.003	-0.003	0	%100
143	271	Y	-0.003	-0.003	0	%100
144	272	Y	-0.003	-0.003	0	%100
145	273	Y	-0.003	-0.003	0	%100
146	274	Y	-0.003	-0.003	0	%100
147	275	Y	-0.003	-0.003	0	%100
148	276	Y	-0.003	-0.003	0	%100
149	306	Y	-0.007	-0.007	0	%100
150	307	Y	-0.007	-0.007	0	%100
151	308	Y	-0.007	-0.007	0	%100
152	309	Y	-0.007	-0.007	0	%100
153	310	Y	-0.007	-0.007	0	%100
154	311	Y	-0.007	-0.007	0	%100
155	312	Y	-0.007	-0.007	0	%100

Member Distributed Loads (BLC 8 : Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
156	313	Y	-0.007	-0.007	0	%100
157	314	Y	-0.007	-0.007	0	%100
158	315	Y	-0.007	-0.007	0	%100
159	316	Y	-0.007	-0.007	0	%100
160	317	Y	-0.007	-0.007	0	%100
161	318	Y	-0.007	-0.007	0	%100
162	319	Y	-0.007	-0.007	0	%100
163	320	Y	-0.003	-0.003	0	%100
164	321	Y	-0.003	-0.003	0	%100
165	322	Y	-0.003	-0.003	0	%100
166	323	Y	-0.003	-0.003	0	%100
167	324	Y	-0.003	-0.003	0	%100
168	325	Y	-0.003	-0.003	0	%100
169	326	Y	-0.003	-0.003	0	%100
170	327	Y	-0.003	-0.003	0	%100
171	328	Y	-0.003	-0.003	0	%100
172	329	Y	-0.003	-0.003	0	%100
173	330	Y	-0.003	-0.003	0	%100
174	331	Y	-0.003	-0.003	0	%100
175	332	Y	-0.003	-0.003	0	%100
176	333	Y	-0.003	-0.003	0	%100
177	334	Y	-0.003	-0.003	0	%100
178	335	Y	-0.003	-0.003	0	%100
179	336	Y	-0.003	-0.003	0	%100
180	337	Y	-0.003	-0.003	0	%100
181	338	Y	-0.003	-0.003	0	%100
182	339	Y	-0.003	-0.003	0	%100
183	340	Y	-0.003	-0.003	0	%100
184	341	Y	-0.003	-0.003	0	%100
185	342	Y	-0.003	-0.003	0	%100
186	343	Y	-0.003	-0.003	0	%100
187	344	Y	-0.003	-0.003	0	%100
188	345	Y	-0.003	-0.003	0	%100
189	346	Y	-0.003	-0.003	0	%100
190	347	Y	-0.003	-0.003	0	%100
191	348	Y	-0.003	-0.003	0	%100
192	349	Y	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 9 : 0 Seismic)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.001	-0.001	0	%100
2	2	Z	-0.001	-0.001	0	%100
3	3	Z	-0.001	-0.001	0	%100
4	4	Z	-0.0008	-0.0008	0	%100
5	5	Z	-0.0008	-0.0008	0	%100
6	6	Z	-0.0008	-0.0008	0	%100
7	7	Z	-0.0008	-0.0008	0	%100
8	8	Z	-0.0008	-0.0008	0	%100
9	9	Z	-0.0008	-0.0008	0	%100
10	10	Z	-0.002	-0.002	0	%100
11	11	Z	-0.002	-0.002	0	%100
12	12	Z	-0.002	-0.002	0	%100
13	13	Z	-0.002	-0.002	0	%100
14	14	Z	-0.002	-0.002	0	%100
15	15	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 9 : 0 Seismic) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
16	16	Z	-0.002	-0.002	0	%100
17	17	Z	-0.002	-0.002	0	%100
18	18	Z	-0.002	-0.002	0	%100
19	19	Z	-0.002	-0.002	0	%100
20	20	Z	-0.002	-0.002	0	%100
21	21	Z	-0.002	-0.002	0	%100
22	22	Z	-0.0006	-0.0006	0	%100
23	23	Z	-0.0006	-0.0006	0	%100
24	24	Z	-0.0006	-0.0006	0	%100
25	25	Z	-0.0006	-0.0006	0	%100
26	26	Z	-0.0006	-0.0006	0	%100
27	27	Z	-0.0006	-0.0006	0	%100
28	28	Z	-0.0006	-0.0006	0	%100
29	29	Z	-0.0006	-0.0006	0	%100
30	30	Z	-0.0006	-0.0006	0	%100
31	31	Z	-0.0006	-0.0006	0	%100
32	32	Z	-0.0006	-0.0006	0	%100
33	33	Z	-0.0006	-0.0006	0	%100
34	34	Z	-0.0006	-0.0006	0	%100
35	35	Z	-0.0006	-0.0006	0	%100
36	36	Z	-0.0006	-0.0006	0	%100
37	37	Z	-0.0006	-0.0006	0	%100
38	38	Z	-0.0006	-0.0006	0	%100
39	39	Z	-0.0006	-0.0006	0	%100
40	40	Z	-0.002	-0.002	0	%100
41	41	Z	-0.002	-0.002	0	%100
42	42	Z	-0.002	-0.002	0	%100
43	43	Z	-0.001	-0.001	0	%100
44	44	Z	-0.001	-0.001	0	%100
45	45	Z	-0.001	-0.001	0	%100
46	46	Z	-0.001	-0.001	0	%100
47	47	Z	-0.001	-0.001	0	%100
48	48	Z	-0.001	-0.001	0	%100
49	49	Z	-0.001	-0.001	0	%100
50	50	Z	-0.001	-0.001	0	%100
51	51	Z	-0.001	-0.001	0	%100
52	52	Z	-0.001	-0.001	0	%100
53	53	Z	-0.001	-0.001	0	%100
54	54	Z	-0.001	-0.001	0	%100
55	55	Z	-0.001	-0.001	0	%100
56	56	Z	-0.001	-0.001	0	%100
57	57	Z	-0.0003	-0.0003	0	%100
58	58	Z	-0.0003	-0.0003	0	%100
59	59	Z	-0.0003	-0.0003	0	%100
60	60	Z	-0.0003	-0.0003	0	%100
61	61	Z	-0.0003	-0.0003	0	%100
62	62	Z	-0.0003	-0.0003	0	%100
63	63	Z	-0.0003	-0.0003	0	%100
64	64	Z	-0.0003	-0.0003	0	%100
65	65	Z	-0.0003	-0.0003	0	%100
66	66	Z	-0.0003	-0.0003	0	%100
67	67	Z	-0.0003	-0.0003	0	%100
68	68	Z	-0.0002	-0.0002	0	%100
69	69	Z	-0.0002	-0.0002	0	%100
70	70	Z	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 9 : 0 Seismic) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
71	71	Z	-0.0002	-0.0002	0	%100
72	72	Z	-0.0003	-0.0003	0	%100
73	73	Z	-0.0003	-0.0003	0	%100
74	74	Z	-0.0003	-0.0003	0	%100
75	75	Z	-0.0003	-0.0003	0	%100
76	76	Z	-0.0003	-0.0003	0	%100
77	77	Z	-0.0003	-0.0003	0	%100
78	78	Z	-0.0003	-0.0003	0	%100
79	79	Z	-0.0003	-0.0003	0	%100
80	80	Z	-0.0003	-0.0003	0	%100
81	81	Z	-0.0003	-0.0003	0	%100
82	82	Z	-0.0003	-0.0003	0	%100
83	83	Z	-0.0002	-0.0002	0	%100
84	84	Z	-0.0002	-0.0002	0	%100
85	85	Z	-0.0002	-0.0002	0	%100
86	86	Z	-0.0002	-0.0002	0	%100
87	189	Z	-0.0008	-0.0008	0	%100
88	190	Z	-0.0008	-0.0008	0	%100
89	191	Z	-0.0008	-0.0008	0	%100
90	193	Z	-0.0008	-0.0008	0	%100
91	196	Z	-0.0008	-0.0008	0	%100
92	199	Z	-0.0008	-0.0008	0	%100
93	202	Z	-0.0008	-0.0008	0	%100
94	207	Z	-0.0008	-0.0008	0	%100
95	210	Z	-0.0008	-0.0008	0	%100
96	213	Z	-0.0008	-0.0008	0	%100
97	216	Z	-0.0008	-0.0008	0	%100
98	218	Z	-0.002	-0.002	0	%100
99	219	Z	-0.002	-0.002	0	%100
100	220	Z	-0.002	-0.002	0	%100
101	222	Z	-0.0008	-0.0008	0	%100
102	225	Z	-0.0008	-0.0008	0	%100
103	228	Z	-0.0008	-0.0008	0	%100
104	231	Z	-0.0008	-0.0008	0	%100
105	233	Z	-0.001	-0.001	0	%100
106	234	Z	-0.001	-0.001	0	%100
107	235	Z	-0.001	-0.001	0	%100
108	236	Z	-0.001	-0.001	0	%100
109	237	Z	-0.001	-0.001	0	%100
110	238	Z	-0.001	-0.001	0	%100
111	239	Z	-0.001	-0.001	0	%100
112	240	Z	-0.001	-0.001	0	%100
113	241	Z	-0.001	-0.001	0	%100
114	242	Z	-0.001	-0.001	0	%100
115	243	Z	-0.001	-0.001	0	%100
116	244	Z	-0.001	-0.001	0	%100
117	245	Z	-0.001	-0.001	0	%100
118	246	Z	-0.001	-0.001	0	%100
119	247	Z	-0.0003	-0.0003	0	%100
120	248	Z	-0.0003	-0.0003	0	%100
121	249	Z	-0.0003	-0.0003	0	%100
122	250	Z	-0.0003	-0.0003	0	%100
123	251	Z	-0.0003	-0.0003	0	%100
124	252	Z	-0.0003	-0.0003	0	%100
125	253	Z	-0.0003	-0.0003	0	%100

Member Distributed Loads (BLC 9 : 0 Seismic) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
126	254	Z	-0.0003	-0.0003	0	%100
127	255	Z	-0.0003	-0.0003	0	%100
128	256	Z	-0.0003	-0.0003	0	%100
129	257	Z	-0.0003	-0.0003	0	%100
130	258	Z	-0.0002	-0.0002	0	%100
131	259	Z	-0.0002	-0.0002	0	%100
132	260	Z	-0.0002	-0.0002	0	%100
133	261	Z	-0.0002	-0.0002	0	%100
134	262	Z	-0.0003	-0.0003	0	%100
135	263	Z	-0.0003	-0.0003	0	%100
136	264	Z	-0.0003	-0.0003	0	%100
137	265	Z	-0.0003	-0.0003	0	%100
138	266	Z	-0.0003	-0.0003	0	%100
139	267	Z	-0.0003	-0.0003	0	%100
140	268	Z	-0.0003	-0.0003	0	%100
141	269	Z	-0.0003	-0.0003	0	%100
142	270	Z	-0.0003	-0.0003	0	%100
143	271	Z	-0.0003	-0.0003	0	%100
144	272	Z	-0.0003	-0.0003	0	%100
145	273	Z	-0.0002	-0.0002	0	%100
146	274	Z	-0.0002	-0.0002	0	%100
147	275	Z	-0.0002	-0.0002	0	%100
148	276	Z	-0.0002	-0.0002	0	%100
149	306	Z	-0.001	-0.001	0	%100
150	307	Z	-0.001	-0.001	0	%100
151	308	Z	-0.001	-0.001	0	%100
152	309	Z	-0.001	-0.001	0	%100
153	310	Z	-0.001	-0.001	0	%100
154	311	Z	-0.001	-0.001	0	%100
155	312	Z	-0.001	-0.001	0	%100
156	313	Z	-0.001	-0.001	0	%100
157	314	Z	-0.001	-0.001	0	%100
158	315	Z	-0.001	-0.001	0	%100
159	316	Z	-0.001	-0.001	0	%100
160	317	Z	-0.001	-0.001	0	%100
161	318	Z	-0.001	-0.001	0	%100
162	319	Z	-0.001	-0.001	0	%100
163	320	Z	-0.0003	-0.0003	0	%100
164	321	Z	-0.0003	-0.0003	0	%100
165	322	Z	-0.0003	-0.0003	0	%100
166	323	Z	-0.0003	-0.0003	0	%100
167	324	Z	-0.0003	-0.0003	0	%100
168	325	Z	-0.0003	-0.0003	0	%100
169	326	Z	-0.0003	-0.0003	0	%100
170	327	Z	-0.0003	-0.0003	0	%100
171	328	Z	-0.0003	-0.0003	0	%100
172	329	Z	-0.0003	-0.0003	0	%100
173	330	Z	-0.0003	-0.0003	0	%100
174	331	Z	-0.0002	-0.0002	0	%100
175	332	Z	-0.0002	-0.0002	0	%100
176	333	Z	-0.0002	-0.0002	0	%100
177	334	Z	-0.0002	-0.0002	0	%100
178	335	Z	-0.0003	-0.0003	0	%100
179	336	Z	-0.0003	-0.0003	0	%100
180	337	Z	-0.0003	-0.0003	0	%100

Member Distributed Loads (BLC 9 : 0 Seismic) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
181	338	Z	-0.0003	-0.0003	0	%100
182	339	Z	-0.0003	-0.0003	0	%100
183	340	Z	-0.0003	-0.0003	0	%100
184	341	Z	-0.0003	-0.0003	0	%100
185	342	Z	-0.0003	-0.0003	0	%100
186	343	Z	-0.0003	-0.0003	0	%100
187	344	Z	-0.0003	-0.0003	0	%100
188	345	Z	-0.0003	-0.0003	0	%100
189	346	Z	-0.0002	-0.0002	0	%100
190	347	Z	-0.0002	-0.0002	0	%100
191	348	Z	-0.0002	-0.0002	0	%100
192	349	Z	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 10 : 90 Seismic)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.001	-0.001	0	%100
2	2	X	-0.001	-0.001	0	%100
3	3	X	-0.001	-0.001	0	%100
4	4	X	-0.0008	-0.0008	0	%100
5	5	X	-0.0008	-0.0008	0	%100
6	6	X	-0.0008	-0.0008	0	%100
7	7	X	-0.0008	-0.0008	0	%100
8	8	X	-0.0008	-0.0008	0	%100
9	9	X	-0.0008	-0.0008	0	%100
10	10	X	-0.002	-0.002	0	%100
11	11	X	-0.002	-0.002	0	%100
12	12	X	-0.002	-0.002	0	%100
13	13	X	-0.002	-0.002	0	%100
14	14	X	-0.002	-0.002	0	%100
15	15	X	-0.002	-0.002	0	%100
16	16	X	-0.002	-0.002	0	%100
17	17	X	-0.002	-0.002	0	%100
18	18	X	-0.002	-0.002	0	%100
19	19	X	-0.002	-0.002	0	%100
20	20	X	-0.002	-0.002	0	%100
21	21	X	-0.002	-0.002	0	%100
22	22	X	-0.0006	-0.0006	0	%100
23	23	X	-0.0006	-0.0006	0	%100
24	24	X	-0.0006	-0.0006	0	%100
25	25	X	-0.0006	-0.0006	0	%100
26	26	X	-0.0006	-0.0006	0	%100
27	27	X	-0.0006	-0.0006	0	%100
28	28	X	-0.0006	-0.0006	0	%100
29	29	X	-0.0006	-0.0006	0	%100
30	30	X	-0.0006	-0.0006	0	%100
31	31	X	-0.0006	-0.0006	0	%100
32	32	X	-0.0006	-0.0006	0	%100
33	33	X	-0.0006	-0.0006	0	%100
34	34	X	-0.0006	-0.0006	0	%100
35	35	X	-0.0006	-0.0006	0	%100
36	36	X	-0.0006	-0.0006	0	%100
37	37	X	-0.0006	-0.0006	0	%100
38	38	X	-0.0006	-0.0006	0	%100
39	39	X	-0.0006	-0.0006	0	%100
40	40	X	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 10 : 90 Seismic) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
41	41	X	-0.002	-0.002	0	%100
42	42	X	-0.002	-0.002	0	%100
43	43	X	-0.001	-0.001	0	%100
44	44	X	-0.001	-0.001	0	%100
45	45	X	-0.001	-0.001	0	%100
46	46	X	-0.001	-0.001	0	%100
47	47	X	-0.001	-0.001	0	%100
48	48	X	-0.001	-0.001	0	%100
49	49	X	-0.001	-0.001	0	%100
50	50	X	-0.001	-0.001	0	%100
51	51	X	-0.001	-0.001	0	%100
52	52	X	-0.001	-0.001	0	%100
53	53	X	-0.001	-0.001	0	%100
54	54	X	-0.001	-0.001	0	%100
55	55	X	-0.001	-0.001	0	%100
56	56	X	-0.001	-0.001	0	%100
57	57	X	-0.0003	-0.0003	0	%100
58	58	X	-0.0003	-0.0003	0	%100
59	59	X	-0.0003	-0.0003	0	%100
60	60	X	-0.0003	-0.0003	0	%100
61	61	X	-0.0003	-0.0003	0	%100
62	62	X	-0.0003	-0.0003	0	%100
63	63	X	-0.0003	-0.0003	0	%100
64	64	X	-0.0003	-0.0003	0	%100
65	65	X	-0.0003	-0.0003	0	%100
66	66	X	-0.0003	-0.0003	0	%100
67	67	X	-0.0003	-0.0003	0	%100
68	68	X	-0.0002	-0.0002	0	%100
69	69	X	-0.0002	-0.0002	0	%100
70	70	X	-0.0002	-0.0002	0	%100
71	71	X	-0.0002	-0.0002	0	%100
72	72	X	-0.0003	-0.0003	0	%100
73	73	X	-0.0003	-0.0003	0	%100
74	74	X	-0.0003	-0.0003	0	%100
75	75	X	-0.0003	-0.0003	0	%100
76	76	X	-0.0003	-0.0003	0	%100
77	77	X	-0.0003	-0.0003	0	%100
78	78	X	-0.0003	-0.0003	0	%100
79	79	X	-0.0003	-0.0003	0	%100
80	80	X	-0.0003	-0.0003	0	%100
81	81	X	-0.0003	-0.0003	0	%100
82	82	X	-0.0003	-0.0003	0	%100
83	83	X	-0.0002	-0.0002	0	%100
84	84	X	-0.0002	-0.0002	0	%100
85	85	X	-0.0002	-0.0002	0	%100
86	86	X	-0.0002	-0.0002	0	%100
87	189	X	-0.0008	-0.0008	0	%100
88	190	X	-0.0008	-0.0008	0	%100
89	191	X	-0.0008	-0.0008	0	%100
90	193	X	-0.0008	-0.0008	0	%100
91	196	X	-0.0008	-0.0008	0	%100
92	199	X	-0.0008	-0.0008	0	%100
93	202	X	-0.0008	-0.0008	0	%100
94	207	X	-0.0008	-0.0008	0	%100
95	210	X	-0.0008	-0.0008	0	%100

Member Distributed Loads (BLC 10 : 90 Seismic) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
96	213	X	-0.0008	-0.0008	0	%100
97	216	X	-0.0008	-0.0008	0	%100
98	218	X	-0.002	-0.002	0	%100
99	219	X	-0.002	-0.002	0	%100
100	220	X	-0.002	-0.002	0	%100
101	222	X	-0.0008	-0.0008	0	%100
102	225	X	-0.0008	-0.0008	0	%100
103	228	X	-0.0008	-0.0008	0	%100
104	231	X	-0.0008	-0.0008	0	%100
105	233	X	-0.001	-0.001	0	%100
106	234	X	-0.001	-0.001	0	%100
107	235	X	-0.001	-0.001	0	%100
108	236	X	-0.001	-0.001	0	%100
109	237	X	-0.001	-0.001	0	%100
110	238	X	-0.001	-0.001	0	%100
111	239	X	-0.001	-0.001	0	%100
112	240	X	-0.001	-0.001	0	%100
113	241	X	-0.001	-0.001	0	%100
114	242	X	-0.001	-0.001	0	%100
115	243	X	-0.001	-0.001	0	%100
116	244	X	-0.001	-0.001	0	%100
117	245	X	-0.001	-0.001	0	%100
118	246	X	-0.001	-0.001	0	%100
119	247	X	-0.0003	-0.0003	0	%100
120	248	X	-0.0003	-0.0003	0	%100
121	249	X	-0.0003	-0.0003	0	%100
122	250	X	-0.0003	-0.0003	0	%100
123	251	X	-0.0003	-0.0003	0	%100
124	252	X	-0.0003	-0.0003	0	%100
125	253	X	-0.0003	-0.0003	0	%100
126	254	X	-0.0003	-0.0003	0	%100
127	255	X	-0.0003	-0.0003	0	%100
128	256	X	-0.0003	-0.0003	0	%100
129	257	X	-0.0003	-0.0003	0	%100
130	258	X	-0.0002	-0.0002	0	%100
131	259	X	-0.0002	-0.0002	0	%100
132	260	X	-0.0002	-0.0002	0	%100
133	261	X	-0.0002	-0.0002	0	%100
134	262	X	-0.0003	-0.0003	0	%100
135	263	X	-0.0003	-0.0003	0	%100
136	264	X	-0.0003	-0.0003	0	%100
137	265	X	-0.0003	-0.0003	0	%100
138	266	X	-0.0003	-0.0003	0	%100
139	267	X	-0.0003	-0.0003	0	%100
140	268	X	-0.0003	-0.0003	0	%100
141	269	X	-0.0003	-0.0003	0	%100
142	270	X	-0.0003	-0.0003	0	%100
143	271	X	-0.0003	-0.0003	0	%100
144	272	X	-0.0003	-0.0003	0	%100
145	273	X	-0.0002	-0.0002	0	%100
146	274	X	-0.0002	-0.0002	0	%100
147	275	X	-0.0002	-0.0002	0	%100
148	276	X	-0.0002	-0.0002	0	%100
149	306	X	-0.001	-0.001	0	%100
150	307	X	-0.001	-0.001	0	%100

Member Distributed Loads (BLC 10 : 90 Seismic) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
151	308	X	-0.001	-0.001	0	%100
152	309	X	-0.001	-0.001	0	%100
153	310	X	-0.001	-0.001	0	%100
154	311	X	-0.001	-0.001	0	%100
155	312	X	-0.001	-0.001	0	%100
156	313	X	-0.001	-0.001	0	%100
157	314	X	-0.001	-0.001	0	%100
158	315	X	-0.001	-0.001	0	%100
159	316	X	-0.001	-0.001	0	%100
160	317	X	-0.001	-0.001	0	%100
161	318	X	-0.001	-0.001	0	%100
162	319	X	-0.001	-0.001	0	%100
163	320	X	-0.0003	-0.0003	0	%100
164	321	X	-0.0003	-0.0003	0	%100
165	322	X	-0.0003	-0.0003	0	%100
166	323	X	-0.0003	-0.0003	0	%100
167	324	X	-0.0003	-0.0003	0	%100
168	325	X	-0.0003	-0.0003	0	%100
169	326	X	-0.0003	-0.0003	0	%100
170	327	X	-0.0003	-0.0003	0	%100
171	328	X	-0.0003	-0.0003	0	%100
172	329	X	-0.0003	-0.0003	0	%100
173	330	X	-0.0003	-0.0003	0	%100
174	331	X	-0.0002	-0.0002	0	%100
175	332	X	-0.0002	-0.0002	0	%100
176	333	X	-0.0002	-0.0002	0	%100
177	334	X	-0.0002	-0.0002	0	%100
178	335	X	-0.0003	-0.0003	0	%100
179	336	X	-0.0003	-0.0003	0	%100
180	337	X	-0.0003	-0.0003	0	%100
181	338	X	-0.0003	-0.0003	0	%100
182	339	X	-0.0003	-0.0003	0	%100
183	340	X	-0.0003	-0.0003	0	%100
184	341	X	-0.0003	-0.0003	0	%100
185	342	X	-0.0003	-0.0003	0	%100
186	343	X	-0.0003	-0.0003	0	%100
187	344	X	-0.0003	-0.0003	0	%100
188	345	X	-0.0003	-0.0003	0	%100
189	346	X	-0.0002	-0.0002	0	%100
190	347	X	-0.0002	-0.0002	0	%100
191	348	X	-0.0002	-0.0002	0	%100
192	349	X	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	10	Y	-0.003	-0.002	0	0.583
2	10	Y	-0.002	-0.002	0.583	1.166
3	10	Y	-0.002	-0.003	1.166	1.749
4	10	Y	-0.003	-0.002	1.749	2.332
5	10	Y	-0.002	-2.275e-5	2.332	2.914
6	11	Y	-0.003	-0.002	0	0.583
7	11	Y	-0.002	-0.002	0.583	1.166
8	11	Y	-0.002	-0.003	1.166	1.749
9	11	Y	-0.003	-0.002	1.749	2.332
10	11	Y	-0.002	-2.332e-5	2.332	2.914

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
11	24	Y	-0.005	-0.006	0	0.332
12	24	Y	-0.006	-0.006	0.332	0.664
13	24	Y	-0.006	-0.006	0.664	0.995
14	24	Y	-0.006	-0.004	0.995	1.327
15	24	Y	-0.004	-0.003	1.327	1.659
16	25	Y	-0.004	-0.006	0	0.332
17	25	Y	-0.006	-0.006	0.332	0.664
18	25	Y	-0.006	-0.005	0.664	0.995
19	25	Y	-0.005	-0.004	0.995	1.327
20	25	Y	-0.004	-0.004	1.327	1.659
21	26	Y	-0.0004545	-0.005	0	0.117
22	26	Y	-0.005	-0.008	0.117	0.233
23	26	Y	-0.008	-0.006	0.233	0.35
24	26	Y	-0.006	-0.005	0.35	0.467
25	26	Y	-0.005	-0.008	0.467	0.583
26	27	Y	-0.0004475	-0.005	0	0.117
27	27	Y	-0.005	-0.008	0.117	0.233
28	27	Y	-0.008	-0.006	0.233	0.35
29	27	Y	-0.006	-0.005	0.35	0.467
30	27	Y	-0.005	-0.008	0.467	0.583
31	40	Y	-0.002	-0.003	0	0.594
32	40	Y	-0.003	-0.006	0.594	1.188
33	40	Y	-0.006	-0.005	1.188	1.783
34	40	Y	-0.005	-0.001	1.783	2.377
35	40	Y	-0.001	-6.965e-5	2.377	2.971
36	148	Y	-0.001	-0.001	0.009	0.161
37	149	Y	-0.002	-0.001	0	0.167
38	151	Y	-0.009	-0.005	0	0.142
39	151	Y	-0.005	-7.032e-5	0.142	0.285
40	152	Y	-0.001	-0.002	0	0.095
41	152	Y	-0.002	-0.002	0.095	0.189
42	152	Y	-0.002	-0.0001828	0.189	0.284
43	154	Y	-0.0009467	-0.0009467	0	0.167
44	156	Y	-0.001	-0.001	0.005	0.167
45	157	Y	-0.002	-0.001	0	0.167
46	159	Y	-0.009	-0.005	0	0.142
47	159	Y	-0.005	4.025e-7	0.142	0.285
48	160	Y	-0.001	-0.002	0	0.095
49	160	Y	-0.002	-0.002	0.095	0.189
50	160	Y	-0.002	-0.0001829	0.189	0.284
51	162	Y	-0.0009471	-0.0009471	0	0.167
52	4	Y	-0.003	-0.003	0	0.604
53	5	Y	-0.003	-0.003	0	0.604
54	12	Y	-0.001	-0.001	1.518	2.386
55	13	Y	-0.001	-0.001	1.518	2.386
56	22	Y	-0.001	-0.001	0.24	1.124
57	23	Y	-0.001	-0.001	0.24	1.124
58	24	Y	-0.003	-0.003	0	0.829
59	24	Y	-0.003	-0.003	0.829	1.659
60	25	Y	-0.003	-0.003	0	0.829
61	25	Y	-0.003	-0.003	0.829	1.659
62	40	Y	-0.01	-0.01	2.229	2.834
63	153	Y	-0.004	-0.004	0	0.285
64	161	Y	-0.004	-0.004	0	0.284
65	12	Y	-0.003	-0.003	0	0.477

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
66	12	Y	-0.003	-0.002	0.477	0.954
67	12	Y	-0.002	-0.002	0.954	1.431
68	12	Y	-0.002	-0.002	1.431	1.909
69	12	Y	-0.002	-0.0005493	1.909	2.386
70	13	Y	-0.003	-0.003	0	0.477
71	13	Y	-0.003	-0.002	0.477	0.954
72	13	Y	-0.002	-0.002	0.954	1.431
73	13	Y	-0.002	-0.002	1.431	1.909
74	13	Y	-0.002	-0.0005502	1.909	2.386
75	22	Y	-0.004	-0.007	0	0.225
76	22	Y	-0.007	-0.006	0.225	0.45
77	22	Y	-0.006	-0.005	0.45	0.674
78	22	Y	-0.005	-0.006	0.674	0.899
79	22	Y	-0.006	-0.004	0.899	1.124
80	23	Y	-0.004	-0.007	0	0.225
81	23	Y	-0.007	-0.006	0.225	0.45
82	23	Y	-0.006	-0.005	0.45	0.674
83	23	Y	-0.005	-0.006	0.674	0.899
84	23	Y	-0.006	-0.004	0.899	1.124
85	40	Y	-6.111e-5	-0.0008514	2.122	2.547
86	40	Y	-0.0008514	-0.002	2.547	2.971
87	40	Y	-0.002	-0.004	2.971	3.395
88	40	Y	-0.004	-0.003	3.395	3.82
89	40	Y	-0.003	-6.111e-5	3.82	4.244
90	150	Y	-0.003	-0.0008514	0	0.167
91	153	Y	-0.006	-0.004	0	0.071
92	153	Y	-0.004	-0.002	0.071	0.142
93	153	Y	-0.002	-0.002	0.142	0.213
94	153	Y	-0.002	-0.002	0.213	0.285
95	155	Y	-0.0009189	-0.0009189	0	0.167
96	158	Y	-0.003	-0.0009189	0	0.167
97	161	Y	-0.009	-0.003	0	0.095
98	161	Y	-0.003	-0.0007438	0.095	0.19
99	161	Y	-0.0007438	-0.003	0.19	0.284
100	163	Y	-0.0009192	-0.0009192	0	0.167
101	18	Y	-0.003	-0.002	0	0.583
102	18	Y	-0.002	-0.002	0.583	1.166
103	18	Y	-0.002	-0.003	1.166	1.749
104	18	Y	-0.003	-0.002	1.749	2.332
105	18	Y	-0.002	-2.275e-5	2.332	2.914
106	19	Y	-0.003	-0.002	0	0.583
107	19	Y	-0.002	-0.002	0.583	1.166
108	19	Y	-0.002	-0.003	1.166	1.749
109	19	Y	-0.003	-0.002	1.749	2.332
110	19	Y	-0.002	-2.332e-5	2.332	2.914
111	36	Y	-0.005	-0.006	0	0.332
112	36	Y	-0.006	-0.006	0.332	0.664
113	36	Y	-0.006	-0.006	0.664	0.995
114	36	Y	-0.006	-0.004	0.995	1.327
115	36	Y	-0.004	-0.003	1.327	1.659
116	37	Y	-0.004	-0.006	0	0.332
117	37	Y	-0.006	-0.007	0.332	0.664
118	37	Y	-0.007	-0.006	0.664	0.995
119	37	Y	-0.006	-0.004	0.995	1.327
120	37	Y	-0.004	-0.003	1.327	1.659

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
121	38	Y	-0.0004544	-0.005	0	0.117
122	38	Y	-0.005	-0.008	0.117	0.233
123	38	Y	-0.008	-0.006	0.233	0.35
124	38	Y	-0.006	-0.005	0.35	0.467
125	38	Y	-0.005	-0.008	0.467	0.583
126	39	Y	-0.0004436	-0.005	0	0.117
127	39	Y	-0.005	-0.008	0.117	0.233
128	39	Y	-0.008	-0.006	0.233	0.35
129	39	Y	-0.006	-0.005	0.35	0.467
130	39	Y	-0.005	-0.008	0.467	0.583
131	42	Y	-0.002	-0.003	0	0.594
132	42	Y	-0.003	-0.006	0.594	1.188
133	42	Y	-0.006	-0.005	1.188	1.783
134	42	Y	-0.005	-0.001	1.783	2.377
135	42	Y	-0.001	-6.965e-5	2.377	2.971
136	124	Y	-0.001	-0.001	0.009	0.161
137	125	Y	-0.002	-0.001	0	0.167
138	127	Y	-0.009	-0.005	0	0.142
139	127	Y	-0.005	-5.095e-5	0.142	0.285
140	128	Y	-0.001	-0.002	0	0.095
141	128	Y	-0.002	-0.002	0.095	0.189
142	128	Y	-0.002	-0.0001828	0.189	0.284
143	130	Y	-0.0009467	-0.0009467	0	0.167
144	135	Y	-0.001	-0.001	0.005	0.167
145	136	Y	-0.002	-0.001	0	0.167
146	138	Y	-0.009	-0.005	0	0.142
147	138	Y	-0.005	4.022e-7	0.142	0.285
148	140	Y	-0.001	-0.002	0	0.095
149	140	Y	-0.002	-0.002	0.095	0.189
150	140	Y	-0.002	-0.0001829	0.189	0.284
151	144	Y	-0.0009471	-0.0009471	0	0.167
152	8	Y	-0.003	-0.003	0	0.604
153	9	Y	-0.003	-0.003	0	0.604
154	20	Y	-0.001	-0.001	1.518	2.386
155	21	Y	-0.001	-0.001	1.518	2.386
156	34	Y	-0.001	-0.001	0.24	1.124
157	35	Y	-0.001	-0.001	0.24	1.124
158	36	Y	-0.003	-0.003	0	0.829
159	36	Y	-0.003	-0.003	0.829	1.659
160	37	Y	-0.003	-0.003	0	0.829
161	37	Y	-0.003	-0.003	0.829	1.659
162	42	Y	-0.01	-0.01	2.229	2.834
163	129	Y	-0.004	-0.004	0	0.284
164	142	Y	-0.004	-0.004	0	0.285
165	20	Y	-0.003	-0.003	0	0.477
166	20	Y	-0.003	-0.002	0.477	0.954
167	20	Y	-0.002	-0.002	0.954	1.431
168	20	Y	-0.002	-0.002	1.431	1.909
169	20	Y	-0.002	-0.0005492	1.909	2.386
170	21	Y	-0.003	-0.003	0	0.477
171	21	Y	-0.003	-0.002	0.477	0.954
172	21	Y	-0.002	-0.002	0.954	1.431
173	21	Y	-0.002	-0.002	1.431	1.909
174	21	Y	-0.002	-0.0005492	1.909	2.386
175	34	Y	-0.004	-0.007	0	0.225

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
176	34	Y	-0.007	-0.006	0.225	0.45
177	34	Y	-0.006	-0.005	0.45	0.674
178	34	Y	-0.005	-0.006	0.674	0.899
179	34	Y	-0.006	-0.004	0.899	1.124
180	35	Y	-0.004	-0.007	0	0.225
181	35	Y	-0.007	-0.006	0.225	0.45
182	35	Y	-0.006	-0.005	0.45	0.674
183	35	Y	-0.005	-0.006	0.674	0.899
184	35	Y	-0.006	-0.004	0.899	1.124
185	42	Y	-6.111e-5	-0.0008514	2.122	2.547
186	42	Y	-0.0008514	-0.002	2.547	2.971
187	42	Y	-0.002	-0.004	2.971	3.395
188	42	Y	-0.004	-0.003	3.395	3.82
189	42	Y	-0.003	-6.111e-5	3.82	4.244
190	126	Y	-0.003	-0.0008514	0	0.167
191	129	Y	-0.007	-0.003	0	0.095
192	129	Y	-0.003	-0.001	0.095	0.19
193	129	Y	-0.001	-0.003	0.19	0.284
194	132	Y	-0.0009189	-0.0009189	0	0.167
195	137	Y	-0.003	-0.0009189	0	0.167
196	142	Y	-0.009	-0.003	0	0.095
197	142	Y	-0.003	-0.0007445	0.095	0.19
198	142	Y	-0.0007445	-0.003	0.19	0.285
199	145	Y	-0.0009192	-0.0009192	0	0.167
200	14	Y	-0.003	-0.002	0	0.583
201	14	Y	-0.002	-0.002	0.583	1.166
202	14	Y	-0.002	-0.003	1.166	1.749
203	14	Y	-0.003	-0.002	1.749	2.332
204	14	Y	-0.002	-2.237e-5	2.332	2.914
205	15	Y	-0.003	-0.002	0	0.583
206	15	Y	-0.002	-0.002	0.583	1.166
207	15	Y	-0.002	-0.003	1.166	1.749
208	15	Y	-0.003	-0.002	1.749	2.332
209	15	Y	-0.002	-2.294e-5	2.332	2.914
210	30	Y	-0.005	-0.006	0	0.332
211	30	Y	-0.006	-0.006	0.332	0.664
212	30	Y	-0.006	-0.006	0.664	0.995
213	30	Y	-0.006	-0.004	0.995	1.327
214	30	Y	-0.004	-0.003	1.327	1.659
215	31	Y	-0.004	-0.006	0	0.332
216	31	Y	-0.006	-0.007	0.332	0.664
217	31	Y	-0.007	-0.006	0.664	0.995
218	31	Y	-0.006	-0.004	0.995	1.327
219	31	Y	-0.004	-0.003	1.327	1.659
220	32	Y	-0.000456	-0.005	0	0.117
221	32	Y	-0.005	-0.008	0.117	0.233
222	32	Y	-0.008	-0.006	0.233	0.35
223	32	Y	-0.006	-0.005	0.35	0.467
224	32	Y	-0.005	-0.008	0.467	0.583
225	33	Y	-0.000445	-0.005	0	0.117
226	33	Y	-0.005	-0.008	0.117	0.233
227	33	Y	-0.008	-0.006	0.233	0.35
228	33	Y	-0.006	-0.005	0.35	0.467
229	33	Y	-0.005	-0.008	0.467	0.583
230	41	Y	-0.002	-0.003	0	0.594

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
231	41	Y	-0.003	-0.006	0.594	1.188
232	41	Y	-0.006	-0.005	1.188	1.783
233	41	Y	-0.005	-0.001	1.783	2.377
234	41	Y	-0.001	-6.965e-5	2.377	2.971
235	131	Y	-0.001	-0.001	0.005	0.167
236	133	Y	-0.002	-0.001	0	0.167
237	139	Y	-0.009	-0.005	0	0.142
238	139	Y	-0.005	-2.257e-5	0.142	0.285
239	141	Y	-0.001	-0.002	0	0.095
240	141	Y	-0.002	-0.002	0.095	0.189
241	141	Y	-0.002	-0.0001827	0.189	0.284
242	146	Y	-0.0009471	-0.0009471	0	0.167
243	164	Y	-0.001	-0.001	0.009	0.161
244	165	Y	-0.002	-0.001	0	0.167
245	167	Y	-0.009	-0.004	0	0.142
246	167	Y	-0.004	-5.044e-5	0.142	0.285
247	168	Y	-0.001	-0.002	0	0.095
248	168	Y	-0.002	-0.002	0.095	0.189
249	168	Y	-0.002	-0.0001827	0.189	0.284
250	170	Y	-0.0009467	-0.0009467	0	0.167
251	6	Y	-0.003	-0.003	0	0.604
252	7	Y	-0.003	-0.003	0	0.604
253	16	Y	-0.001	-0.001	1.518	2.386
254	17	Y	-0.001	-0.001	1.518	2.386
255	28	Y	-0.001	-0.001	0.24	1.124
256	29	Y	-0.001	-0.001	0.24	1.124
257	30	Y	-0.003	-0.003	0	0.829
258	30	Y	-0.003	-0.003	0.829	1.659
259	31	Y	-0.003	-0.003	0	0.829
260	31	Y	-0.003	-0.003	0.829	1.659
261	41	Y	-0.01	-0.01	2.229	2.834
262	143	Y	-0.004	-0.004	0	0.285
263	169	Y	-0.004	-0.004	0	0.285
264	16	Y	-0.003	-0.003	0	0.477
265	16	Y	-0.003	-0.002	0.477	0.954
266	16	Y	-0.002	-0.002	0.954	1.431
267	16	Y	-0.002	-0.002	1.431	1.909
268	16	Y	-0.002	-0.0005496	1.909	2.386
269	17	Y	-0.003	-0.003	0	0.477
270	17	Y	-0.003	-0.002	0.477	0.954
271	17	Y	-0.002	-0.002	0.954	1.431
272	17	Y	-0.002	-0.002	1.431	1.909
273	17	Y	-0.002	-0.0005475	1.909	2.386
274	28	Y	-0.004	-0.007	0	0.225
275	28	Y	-0.007	-0.006	0.225	0.45
276	28	Y	-0.006	-0.005	0.45	0.674
277	28	Y	-0.005	-0.006	0.674	0.899
278	28	Y	-0.006	-0.004	0.899	1.124
279	29	Y	-0.004	-0.007	0	0.225
280	29	Y	-0.007	-0.006	0.225	0.45
281	29	Y	-0.006	-0.005	0.45	0.674
282	29	Y	-0.005	-0.006	0.674	0.899
283	29	Y	-0.006	-0.004	0.899	1.124
284	41	Y	-6.081e-5	-0.0008585	2.122	2.547
285	41	Y	-0.0008585	-0.002	2.547	2.971

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
286	41	Y	-0.002	-0.004	2.971	3.395
287	41	Y	-0.004	-0.003	3.395	3.82
288	41	Y	-0.003	-6.081e-5	3.82	4.244
289	134	Y	-0.003	-0.0008585	0	0.167
290	143	Y	-0.009	-0.003	0	0.095
291	143	Y	-0.003	-0.0007513	0.095	0.19
292	143	Y	-0.0007513	-0.003	0.19	0.285
293	147	Y	-0.0009159	-0.0009159	0	0.167
294	166	Y	-0.003	-0.0009159	0	0.167
295	169	Y	-0.006	-0.004	0	0.071
296	169	Y	-0.004	-0.002	0.071	0.142
297	169	Y	-0.002	-0.002	0.142	0.213
298	169	Y	-0.002	-0.002	0.213	0.285
299	171	Y	-0.0009156	-0.0009156	0	0.167

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	14	Y	-0.001	-0.001	1.166	1.749
2	14	Y	-0.001	-0.0009372	1.749	2.332
3	14	Y	-0.0009372	-1.119e-5	2.332	2.914
4	15	Y	-0.001	-0.0008658	0	0.583
5	15	Y	-0.0008658	-0.001	0.583	1.166
6	15	Y	-0.001	-0.001	1.166	1.749
7	15	Y	-0.001	-0.0009388	1.749	2.332
8	15	Y	-0.0009388	-1.147e-5	2.332	2.914
9	30	Y	-0.002	-0.003	0	0.332
10	30	Y	-0.003	-0.003	0.332	0.664
11	30	Y	-0.003	-0.003	0.664	0.995
12	30	Y	-0.003	-0.002	0.995	1.327
13	30	Y	-0.002	-0.001	1.327	1.659
14	31	Y	-0.002	-0.003	0	0.332
15	31	Y	-0.003	-0.003	0.332	0.664
16	31	Y	-0.003	-0.003	0.664	0.995
17	31	Y	-0.003	-0.002	0.995	1.327
18	31	Y	-0.002	-0.001	1.327	1.659
19	32	Y	-0.000228	-0.003	0	0.117
20	32	Y	-0.003	-0.004	0.117	0.233
21	32	Y	-0.004	-0.003	0.233	0.35
22	32	Y	-0.003	-0.003	0.35	0.467
23	32	Y	-0.003	-0.004	0.467	0.583
24	33	Y	-0.0002225	-0.003	0	0.117
25	33	Y	-0.003	-0.004	0.117	0.233
26	33	Y	-0.004	-0.003	0.233	0.35
27	33	Y	-0.003	-0.003	0.35	0.467
28	33	Y	-0.003	-0.004	0.467	0.583
29	41	Y	-0.0007524	-0.001	0	0.594
30	41	Y	-0.001	-0.003	0.594	1.188
31	41	Y	-0.003	-0.002	1.188	1.783
32	41	Y	-0.002	-0.000556	1.783	2.377
33	41	Y	-0.000556	-3.482e-5	2.377	2.971
34	131	Y	-0.0006252	-0.0006252	0.005	0.167
35	133	Y	-0.001	-0.0006252	0	0.167
36	139	Y	-0.005	-0.002	0	0.142
37	139	Y	-0.002	-1.128e-5	0.142	0.285
38	141	Y	-0.0007241	-0.001	0	0.095

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
39	141	Y	-0.001	-0.0009084	0.095	0.189
40	141	Y	-0.0009084	-9.136e-5	0.189	0.284
41	146	Y	-0.0004736	-0.0004736	0	0.167
42	164	Y	-0.0006645	-0.0006645	0.009	0.161
43	165	Y	-0.001	-0.0006645	0	0.167
44	167	Y	-0.004	-0.002	0	0.142
45	167	Y	-0.002	-2.522e-5	0.142	0.285
46	168	Y	-0.0007242	-0.001	0	0.095
47	168	Y	-0.001	-0.0009083	0.095	0.189
48	168	Y	-0.0009083	-9.135e-5	0.189	0.284
49	170	Y	-0.0004733	-0.0004733	0	0.167
50	6	Y	-0.002	-0.002	0	0.604
51	7	Y	-0.002	-0.002	0	0.604
52	16	Y	-0.0006448	-0.0006448	1.518	2.386
53	17	Y	-0.0006448	-0.0006448	1.518	2.386
54	28	Y	-0.0007187	-0.0007187	0.24	1.124
55	29	Y	-0.0007187	-0.0007187	0.24	1.124
56	30	Y	-0.001	-0.001	0	0.829
57	30	Y	-0.001	-0.001	0.829	1.659
58	31	Y	-0.001	-0.001	0	0.829
59	31	Y	-0.001	-0.001	0.829	1.659
60	41	Y	-0.005	-0.005	2.229	2.834
61	143	Y	-0.002	-0.002	0	0.285
62	169	Y	-0.002	-0.002	0	0.285
63	16	Y	-0.002	-0.001	0	0.477
64	16	Y	-0.001	-0.0009186	0.477	0.954
65	16	Y	-0.0009186	-0.0009169	0.954	1.431
66	16	Y	-0.0009169	-0.0008826	1.431	1.909
67	16	Y	-0.0008826	-0.0002748	1.909	2.386
68	17	Y	-0.002	-0.001	0	0.477
69	17	Y	-0.001	-0.0009194	0.477	0.954
70	17	Y	-0.0009194	-0.0009187	0.954	1.431
71	17	Y	-0.0009187	-0.0008828	1.431	1.909
72	17	Y	-0.0008828	-0.0002737	1.909	2.386
73	28	Y	-0.002	-0.003	0	0.225
74	28	Y	-0.003	-0.003	0.225	0.45
75	28	Y	-0.003	-0.003	0.45	0.674
76	28	Y	-0.003	-0.003	0.674	0.899
77	28	Y	-0.003	-0.002	0.899	1.124
78	29	Y	-0.002	-0.003	0	0.225
79	29	Y	-0.003	-0.003	0.225	0.45
80	29	Y	-0.003	-0.003	0.45	0.674
81	29	Y	-0.003	-0.003	0.674	0.899
82	29	Y	-0.003	-0.002	0.899	1.124
83	41	Y	-3.041e-5	-0.0004292	2.122	2.547
84	41	Y	-0.0004292	-0.0008637	2.547	2.971
85	41	Y	-0.0008637	-0.002	2.971	3.395
86	41	Y	-0.002	-0.001	3.395	3.82
87	41	Y	-0.001	-3.041e-5	3.82	4.244
88	134	Y	-0.002	-0.0004292	0	0.167
89	143	Y	-0.004	-0.001	0	0.095
90	143	Y	-0.001	-0.0003756	0.095	0.19
91	143	Y	-0.0003756	-0.002	0.19	0.285
92	147	Y	-0.000458	-0.000458	0	0.167
93	166	Y	-0.002	-0.000458	0	0.167

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
94	169	Y	-0.003	-0.002	0	0.071
95	169	Y	-0.002	-0.001	0.071	0.142
96	169	Y	-0.001	-0.0008827	0.142	0.213
97	169	Y	-0.0008827	-0.0008604	0.213	0.285
98	171	Y	-0.0004578	-0.0004578	0	0.167
99	10	Y	-0.002	-0.0009409	0	0.583
100	10	Y	-0.0009409	-0.001	0.583	1.166
101	10	Y	-0.001	-0.002	1.166	1.749
102	10	Y	-0.002	-0.001	1.749	2.332
103	10	Y	-0.001	-1.236e-5	2.332	2.914
104	11	Y	-0.002	-0.0009412	0	0.583
105	11	Y	-0.0009412	-0.001	0.583	1.166
106	11	Y	-0.001	-0.002	1.166	1.749
107	11	Y	-0.002	-0.001	1.749	2.332
108	11	Y	-0.001	-1.267e-5	2.332	2.914
109	24	Y	-0.002	-0.003	0	0.332
110	24	Y	-0.003	-0.004	0.332	0.664
111	24	Y	-0.004	-0.003	0.664	0.995
112	24	Y	-0.003	-0.002	0.995	1.327
113	24	Y	-0.002	-0.001	1.327	1.659
114	25	Y	-0.002	-0.003	0	0.332
115	25	Y	-0.003	-0.004	0.332	0.664
116	25	Y	-0.004	-0.003	0.664	0.995
117	25	Y	-0.003	-0.002	0.995	1.327
118	25	Y	-0.002	-0.002	1.327	1.659
119	26	Y	-0.000247	-0.003	0	0.117
120	26	Y	-0.003	-0.004	0.117	0.233
121	26	Y	-0.004	-0.003	0.233	0.35
122	26	Y	-0.003	-0.003	0.35	0.467
123	26	Y	-0.003	-0.005	0.467	0.583
124	27	Y	-0.0002431	-0.003	0	0.117
125	27	Y	-0.003	-0.004	0.117	0.233
126	27	Y	-0.004	-0.003	0.233	0.35
127	27	Y	-0.003	-0.003	0.35	0.467
128	27	Y	-0.003	-0.005	0.467	0.583
129	40	Y	-0.0008177	-0.002	0	0.594
130	40	Y	-0.002	-0.003	0.594	1.188
131	40	Y	-0.003	-0.003	1.188	1.783
132	40	Y	-0.003	-0.0006044	1.783	2.377
133	40	Y	-0.0006044	-3.785e-5	2.377	2.971
134	148	Y	-0.0007222	-0.0007222	0.009	0.161
135	149	Y	-0.001	-0.0007222	0	0.167
136	151	Y	-0.005	-0.002	0	0.142
137	151	Y	-0.002	-3.821e-5	0.142	0.285
138	152	Y	-0.0007905	-0.001	0	0.095
139	152	Y	-0.001	-0.0009886	0.095	0.189
140	152	Y	-0.0009886	-9.932e-5	0.189	0.284
141	154	Y	-0.0005144	-0.0005144	0	0.167
142	156	Y	-0.0006795	-0.0006795	0.005	0.167
143	157	Y	-0.001	-0.0006795	0	0.167
144	159	Y	-0.005	-0.002	0	0.142
145	159	Y	-0.002	2.187e-7	0.142	0.285
146	160	Y	-0.0007901	-0.001	0	0.095
147	160	Y	-0.001	-0.0009888	0.095	0.189
148	160	Y	-0.0009888	-9.936e-5	0.189	0.284

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
149	162	Y	-0.0005147	-0.0005147	0	0.167
150	4	Y	-0.002	-0.002	0	0.604
151	5	Y	-0.002	-0.002	0	0.604
152	12	Y	-0.0006448	-0.0006448	1.518	2.386
153	13	Y	-0.0006448	-0.0006448	1.518	2.386
154	22	Y	-0.0007187	-0.0007187	0.24	1.124
155	23	Y	-0.0007187	-0.0007187	0.24	1.124
156	24	Y	-0.001	-0.001	0	0.829
157	24	Y	-0.001	-0.001	0.829	1.659
158	25	Y	-0.001	-0.001	0	0.829
159	25	Y	-0.001	-0.001	0.829	1.659
160	40	Y	-0.005	-0.005	2.229	2.834
161	153	Y	-0.002	-0.002	0	0.285
162	161	Y	-0.002	-0.002	0	0.284
163	12	Y	-0.002	-0.001	0	0.477
164	12	Y	-0.001	-0.0009186	0.477	0.954
165	12	Y	-0.0009186	-0.0009169	0.954	1.431
166	12	Y	-0.0009169	-0.0008826	1.431	1.909
167	12	Y	-0.0008826	-0.0002747	1.909	2.386
168	13	Y	-0.002	-0.001	0	0.477
169	13	Y	-0.001	-0.0009201	0.477	0.954
170	13	Y	-0.0009201	-0.0009188	0.954	1.431
171	13	Y	-0.0009188	-0.0008824	1.431	1.909
172	13	Y	-0.0008824	-0.0002751	1.909	2.386
173	22	Y	-0.002	-0.003	0	0.225
174	22	Y	-0.003	-0.003	0.225	0.45
175	22	Y	-0.003	-0.003	0.45	0.674
176	22	Y	-0.003	-0.003	0.674	0.899
177	22	Y	-0.003	-0.002	0.899	1.124
178	23	Y	-0.002	-0.003	0	0.225
179	23	Y	-0.003	-0.003	0.225	0.45
180	23	Y	-0.003	-0.003	0.45	0.674
181	23	Y	-0.003	-0.003	0.674	0.899
182	23	Y	-0.003	-0.002	0.899	1.124
183	40	Y	-3.056e-5	-0.0004257	2.122	2.547
184	40	Y	-0.0004257	-0.0008578	2.547	2.971
185	40	Y	-0.0008578	-0.002	2.971	3.395
186	40	Y	-0.002	-0.001	3.395	3.82
187	40	Y	-0.001	-3.056e-5	3.82	4.244
188	150	Y	-0.002	-0.0004257	0	0.167
189	153	Y	-0.003	-0.002	0	0.071
190	153	Y	-0.002	-0.001	0.071	0.142
191	153	Y	-0.001	-0.0008809	0.142	0.213
192	153	Y	-0.0008809	-0.0008694	0.213	0.285
193	155	Y	-0.0004594	-0.0004594	0	0.167
194	158	Y	-0.002	-0.0004594	0	0.167
195	161	Y	-0.004	-0.001	0	0.095
196	161	Y	-0.001	-0.0003719	0.095	0.19
197	161	Y	-0.0003719	-0.002	0.19	0.284
198	163	Y	-0.0004596	-0.0004596	0	0.167
199	18	Y	-0.001	-0.0008658	0	0.583
200	18	Y	-0.0008658	-0.001	0.583	1.166
201	18	Y	-0.001	-0.001	1.166	1.749
202	18	Y	-0.001	-0.0009402	1.749	2.332
203	18	Y	-0.0009402	-1.138e-5	2.332	2.914

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
204	19	Y	-0.001	-0.000866	0	0.583
205	19	Y	-0.000866	-0.001	0.583	1.166
206	19	Y	-0.001	-0.001	1.166	1.749
207	19	Y	-0.001	-0.0009339	1.749	2.332
208	19	Y	-0.0009339	-1.166e-5	2.332	2.914
209	36	Y	-0.002	-0.003	0	0.332
210	36	Y	-0.003	-0.003	0.332	0.664
211	36	Y	-0.003	-0.003	0.664	0.995
212	36	Y	-0.003	-0.002	0.995	1.327
213	36	Y	-0.002	-0.001	1.327	1.659
214	37	Y	-0.002	-0.003	0	0.332
215	37	Y	-0.003	-0.003	0.332	0.664
216	37	Y	-0.003	-0.003	0.664	0.995
217	37	Y	-0.003	-0.002	0.995	1.327
218	37	Y	-0.002	-0.001	1.327	1.659
219	38	Y	-0.0002272	-0.003	0	0.117
220	38	Y	-0.003	-0.004	0.117	0.233
221	38	Y	-0.004	-0.003	0.233	0.35
222	38	Y	-0.003	-0.003	0.35	0.467
223	38	Y	-0.003	-0.004	0.467	0.583
224	39	Y	-0.0002218	-0.003	0	0.117
225	39	Y	-0.003	-0.004	0.117	0.233
226	39	Y	-0.004	-0.003	0.233	0.35
227	39	Y	-0.003	-0.003	0.35	0.467
228	39	Y	-0.003	-0.004	0.467	0.583
229	42	Y	-0.0007524	-0.001	0	0.594
230	42	Y	-0.001	-0.003	0.594	1.188
231	42	Y	-0.003	-0.002	1.188	1.783
232	42	Y	-0.002	-0.0005562	1.783	2.377
233	42	Y	-0.0005562	-3.483e-5	2.377	2.971
234	124	Y	-0.0006645	-0.0006645	0.009	0.161
235	125	Y	-0.001	-0.0006645	0	0.167
236	127	Y	-0.004	-0.002	0	0.142
237	127	Y	-0.002	-2.547e-5	0.142	0.285
238	128	Y	-0.0007274	-0.001	0	0.095
239	128	Y	-0.001	-0.0009097	0.095	0.189
240	128	Y	-0.0009097	-9.138e-5	0.189	0.284
241	130	Y	-0.0004733	-0.0004733	0	0.167
242	135	Y	-0.0006252	-0.0006252	0.005	0.167
243	136	Y	-0.001	-0.0006252	0	0.167
244	138	Y	-0.005	-0.002	0	0.142
245	138	Y	-0.002	2.011e-7	0.142	0.285
246	140	Y	-0.000727	-0.001	0	0.095
247	140	Y	-0.001	-0.0009099	0.095	0.189
248	140	Y	-0.0009099	-9.143e-5	0.189	0.284
249	144	Y	-0.0004736	-0.0004736	0	0.167
250	8	Y	-0.002	-0.002	0	0.604
251	9	Y	-0.002	-0.002	0	0.604
252	20	Y	-0.0006448	-0.0006448	1.518	2.386
253	21	Y	-0.0006448	-0.0006448	1.518	2.386
254	34	Y	-0.0007187	-0.0007187	0.24	1.124
255	35	Y	-0.0007187	-0.0007187	0.24	1.124
256	36	Y	-0.001	-0.001	0	0.829
257	36	Y	-0.001	-0.001	0.829	1.659
258	37	Y	-0.001	-0.001	0	0.829

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
259	37	Y	-0.001	-0.001	0.829	1.659
260	42	Y	-0.005	-0.005	2.229	2.834
261	129	Y	-0.002	-0.002	0	0.284
262	142	Y	-0.002	-0.002	0	0.285
263	20	Y	-0.002	-0.001	0	0.477
264	20	Y	-0.001	-0.0009188	0.477	0.954
265	20	Y	-0.0009188	-0.0009171	0.954	1.431
266	20	Y	-0.0009171	-0.0008826	1.431	1.909
267	20	Y	-0.0008826	-0.0002746	1.909	2.386
268	21	Y	-0.002	-0.001	0	0.477
269	21	Y	-0.001	-0.0009187	0.477	0.954
270	21	Y	-0.0009187	-0.0009186	0.954	1.431
271	21	Y	-0.0009186	-0.0008839	1.431	1.909
272	21	Y	-0.0008839	-0.0002746	1.909	2.386
273	34	Y	-0.002	-0.003	0	0.225
274	34	Y	-0.003	-0.003	0.225	0.45
275	34	Y	-0.003	-0.003	0.45	0.674
276	34	Y	-0.003	-0.003	0.674	0.899
277	34	Y	-0.003	-0.002	0.899	1.124
278	35	Y	-0.002	-0.003	0	0.225
279	35	Y	-0.003	-0.003	0.225	0.45
280	35	Y	-0.003	-0.003	0.45	0.674
281	35	Y	-0.003	-0.003	0.674	0.899
282	35	Y	-0.003	-0.002	0.899	1.124
283	42	Y	-3.056e-5	-0.0004257	2.122	2.547
284	42	Y	-0.0004257	-0.0008578	2.547	2.971
285	42	Y	-0.0008578	-0.002	2.971	3.395
286	42	Y	-0.002	-0.001	3.395	3.82
287	42	Y	-0.001	-3.056e-5	3.82	4.244
288	126	Y	-0.002	-0.0004257	0	0.167
289	129	Y	-0.004	-0.001	0	0.095
290	129	Y	-0.001	-0.0006769	0.095	0.19
291	129	Y	-0.0006769	-0.001	0.19	0.284
292	132	Y	-0.0004594	-0.0004594	0	0.167
293	137	Y	-0.002	-0.0004594	0	0.167
294	142	Y	-0.004	-0.001	0	0.095
295	142	Y	-0.001	-0.0003722	0.095	0.19
296	142	Y	-0.0003722	-0.002	0.19	0.285
297	145	Y	-0.0004596	-0.0004596	0	0.167
298	14	Y	-0.001	-0.0008656	0	0.583
299	14	Y	-0.0008656	-0.001	0.583	1.166

Member Area Loads (BLC 1 : Dead)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	102	90	91	103	Y	Two Way	-0.01
2	91	107	106	103	Y	Two Way	-0.01
3	106	104	92	107	Y	Two Way	-0.01
4	63	51	52	64	Y	Two Way	-0.01
5	52	67	66	64	Y	Two Way	-0.01
6	66	65	53	67	Y	Two Way	-0.01
7	29	17	18	30	Y	Two Way	-0.01
8	18	33	32	30	Y	Two Way	-0.01
9	32	31	19	33	Y	Two Way	-0.01

Member Area Loads (BLC 8 : Ice)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	102	90	91	103	Y	Two Way	-0.005
2	91	107	106	103	Y	Two Way	-0.005
3	106	104	92	107	Y	Two Way	-0.005
4	63	51	52	64	Y	Two Way	-0.005
5	52	67	66	64	Y	Two Way	-0.005
6	66	65	53	67	Y	Two Way	-0.005
7	29	17	18	30	Y	Two Way	-0.005
8	18	33	32	30	Y	Two Way	-0.005
9	32	31	19	33	Y	Two Way	-0.005

Node Loads and Enforced Displacements (BLC 11 : Live Load a)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	230	L	Y	-0.5
2	244	L	Y	-0.5
3	256	L	Y	-0.5

Node Loads and Enforced Displacements (BLC 12 : Live Load b)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	224	L	Y	-0.5
2	274	L	Y	-0.5
3	286	L	Y	-0.5

Node Loads and Enforced Displacements (BLC 13 : Live Load c)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	218	L	Y	-0.5
2	268	L	Y	-0.5
3	280	L	Y	-0.5

Node Loads and Enforced Displacements (BLC 14 : Live Load d)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	212	L	Y	-0.5
2	238	L	Y	-0.5
3	250	L	Y	-0.5

Basic Load Cases

	BLC Description	Category	Y Gravity	Nodal	Point	Distributed	Area(Member)
1	Dead	DL	-1		35		9
2	0 Wind - No Ice	WLZ			35	192	
3	90 Wind - No Ice	WLX			35	192	
4	0 Wind - Ice	WLZ			35	192	
5	90 Wind - Ice	WLX			35	192	
6	0 Wind - Service	WLZ			35	192	
7	90 Wind - Service	WLX			35	192	
8	Ice	OL1			35	192	9
9	0 Seismic	ELZ			35	192	
10	90 Seismic	ELX			35	192	
11	Live Load a	LL		3			
12	Live Load b	LL		3			

Basic Load Cases (Continued)

	BLC Description	Category	Y Gravity	Nodal	Point	Distributed	Area(Member)
13	Live Load c	LL		3			
14	Live Load d	LL		3			
15	Maint LL 1	LL			1		
16	Maint LL 2	LL			1		
17	Maint LL 3	LL			1		
18	Maint LL 4	LL			1		
19	Maint LL 5	LL			1		
20	Maint LL 6	LL			1		
21	Maint LL 7	LL			1		
22	Maint LL 8	LL			1		
23	Maint LL 9	LL			1		
24	Maint LL 10	LL			1		
25	Maint LL 11	LL			1		
26	Maint LL 12	LL			1		
27	Maint LL 13	LL			1		
28	Maint LL 14	LL			1		
29	Maint LL 15	LL			1		
30	BLC 1 Transient Area Loads	None				299	
31	BLC 8 Transient Area Loads	None				299	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4 Dead	Yes	Y	1	1.4						
2	1.2 D + 1.0 - 0 W	Yes	Y	1	1.2	2	1				
3	1.2 D + 1.0 - 30 W	Yes	Y	1	1.2	2	0.866	3	0.5		
4	1.2 D + 1.0 - 60 W	Yes	Y	1	1.2	3	0.866	2	0.5		
5	1.2 D + 1.0 - 90 W	Yes	Y	1	1.2	3	1				
6	1.2 D + 1.0 - 120 W	Yes	Y	1	1.2	3	0.866	2	-0.5		
7	1.2 D + 1.0 - 150 W	Yes	Y	1	1.2	2	-0.866	3	0.5		
8	1.2 D + 1.0 - 180 W	Yes	Y	1	1.2	2	-1				
9	1.2 D + 1.0 - 210 W	Yes	Y	1	1.2	2	-0.866	3	-0.5		
10	1.2 D + 1.0 - 240 W	Yes	Y	1	1.2	3	-0.866	2	-0.5		
11	1.2 D + 1.0 - 270 W	Yes	Y	1	1.2	3	-1				
12	1.2 D + 1.0 - 300 W	Yes	Y	1	1.2	3	-0.866	2	0.5		
13	1.2 D + 1.0 - 330 W	Yes	Y	1	1.2	2	0.866	3	-0.5		
14	1.2 D + 1.0 - 0 W/Ice	Yes	Y	1	1.2	4	1			8	1
15	1.2 D + 1.0 - 30 W/Ice	Yes	Y	1	1.2	4	0.866	5	0.5	8	1
16	1.2 D + 1.0 - 60 W/Ice	Yes	Y	1	1.2	5	0.866	4	0.5	8	1
17	1.2 D + 1.0 - 90 W/Ice	Yes	Y	1	1.2	5	1			8	1
18	1.2 D + 1.0 - 120 W/Ice	Yes	Y	1	1.2	5	0.866	4	-0.5	8	1
19	1.2 D + 1.0 - 150 W/Ice	Yes	Y	1	1.2	4	-0.866	5	0.5	8	1
20	1.2 D + 1.0 - 180 W/Ice	Yes	Y	1	1.2	4	-1			8	1
21	1.2 D + 1.0 - 210 W/Ice	Yes	Y	1	1.2	4	-0.866	5	-0.5	8	1
22	1.2 D + 1.0 - 240 W/Ice	Yes	Y	1	1.2	5	-0.866	4	-0.5	8	1
23	1.2 D + 1.0 - 270 W/Ice	Yes	Y	1	1.2	5	-1			8	1
24	1.2 D + 1.0 - 300 W/Ice	Yes	Y	1	1.2	5	-0.866	4	0.5	8	1
25	1.2 D + 1.0 - 330 W/Ice	Yes	Y	1	1.2	4	0.866	5	-0.5	8	1
26	1.2 D + 1.0 E - 0	Yes	Y	1	1.2	9	1				
27	1.2 D + 1.0 E - 30	Yes	Y	1	1.2	9	0.866	10	0.5		
28	1.2 D + 1.0 E - 60	Yes	Y	1	1.2	10	0.866	9	0.5		
29	1.2 D + 1.0 E - 90	Yes	Y	1	1.2	10	1				
30	1.2 D + 1.0 E - 120	Yes	Y	1	1.2	10	0.866	9	-0.5		
31	1.2 D + 1.0 E - 150	Yes	Y	1	1.2	9	-0.866	10	0.5		
32	1.2 D + 1.0 E - 180	Yes	Y	1	1.2	9	-1				
33	1.2 D + 1.0 E - 210	Yes	Y	1	1.2	9	-0.866	10	-0.5		

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
34	1.2 D + 1.0 E - 240	Yes	Y	1	1.2	10	-0.866	9	-0.5		
35	1.2 D + 1.0 E - 270	Yes	Y	1	1.2	10	-1				
36	1.2 D + 1.0 E - 300	Yes	Y	1	1.2	10	-0.866	9	0.5		
37	1.2 D + 1.0 E - 330	Yes	Y	1	1.2	9	0.866	10	-0.5		
38	1.2 D + 1.5 LL a + Service - 0 W	Yes	Y	1	1.2	6	1			11	1.5
39	1.2 D + 1.5 LL a + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	11	1.5
40	1.2 D + 1.5 LL a + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	11	1.5
41	1.2 D + 1.5 LL a + Service - 90 W	Yes	Y	1	1.2	7	1			11	1.5
42	1.2 D + 1.5 LL a + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	11	1.5
43	1.2 D + 1.5 LL a + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	11	1.5
44	1.2 D + 1.5 LL a + Service - 180 W	Yes	Y	1	1.2	6	-1			11	1.5
45	1.2 D + 1.5 LL a + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	11	1.5
46	1.2 D + 1.5 LL a + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	11	1.5
47	1.2 D + 1.5 LL a + Service - 270 W	Yes	Y	1	1.2	7	-1			11	1.5
48	1.2 D + 1.5 LL a + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	11	1.5
49	1.2 D + 1.5 LL a + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	11	1.5
50	1.2 D + 1.5 LL b + Service - 0 W	Yes	Y	1	1.2	6	1			12	1.5
51	1.2 D + 1.5 LL b + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	12	1.5
52	1.2 D + 1.5 LL b + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	12	1.5
53	1.2 D + 1.5 LL b + Service - 90 W	Yes	Y	1	1.2	7	1			12	1.5
54	1.2 D + 1.5 LL b + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	12	1.5
55	1.2 D + 1.5 LL b + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	12	1.5
56	1.2 D + 1.5 LL b + Service - 180 W	Yes	Y	1	1.2	6	-1			12	1.5
57	1.2 D + 1.5 LL b + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	12	1.5
58	1.2 D + 1.5 LL b + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	12	1.5
59	1.2 D + 1.5 LL b + Service - 270 W	Yes	Y	1	1.2	7	-1			12	1.5
60	1.2 D + 1.5 LL b + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	12	1.5
61	1.2 D + 1.5 LL b + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	12	1.5
62	1.2 D + 1.5 LL c + Service - 0 W	Yes	Y	1	1.2	6	1			13	1.5
63	1.2 D + 1.5 LL c + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	13	1.5
64	1.2 D + 1.5 LL c + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	13	1.5
65	1.2 D + 1.5 LL c + Service - 90 W	Yes	Y	1	1.2	7	1			13	1.5
66	1.2 D + 1.5 LL c + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	13	1.5
67	1.2 D + 1.5 LL c + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	13	1.5
68	1.2 D + 1.5 LL c + Service - 180 W	Yes	Y	1	1.2	6	-1			13	1.5
69	1.2 D + 1.5 LL c + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	13	1.5
70	1.2 D + 1.5 LL c + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	13	1.5
71	1.2 D + 1.5 LL c + Service - 270 W	Yes	Y	1	1.2	7	-1			13	1.5
72	1.2 D + 1.5 LL c + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	13	1.5
73	1.2 D + 1.5 LL c + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	13	1.5
74	1.2 D + 1.5 LL d + Service - 0 W	Yes	Y	1	1.2	6	1			14	1.5
75	1.2 D + 1.5 LL d + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	14	1.5
76	1.2 D + 1.5 LL d + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	14	1.5
77	1.2 D + 1.5 LL d + Service - 90 W	Yes	Y	1	1.2	7	1			14	1.5
78	1.2 D + 1.5 LL d + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	14	1.5
79	1.2 D + 1.5 LL d + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	14	1.5
80	1.2 D + 1.5 LL d + Service - 180 W	Yes	Y	1	1.2	6	-1			14	1.5
81	1.2 D + 1.5 LL d + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	14	1.5
82	1.2 D + 1.5 LL d + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	14	1.5
83	1.2 D + 1.5 LL d + Service - 270 W	Yes	Y	1	1.2	7	-1			14	1.5
84	1.2 D + 1.5 LL d + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	14	1.5
85	1.2 D + 1.5 LL d + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	14	1.5
86	1.2 D + 1.5 LL Maint (1)	Yes	Y	1	1.2					15	1.5
87	1.2 D + 1.5 LL Maint (2)	Yes	Y	1	1.2					16	1.5
88	1.2 D + 1.5 LL Maint (3)	Yes	Y	1	1.2					17	1.5

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
89	1.2 D + 1.5 LL Maint (4)	Yes	Y	1	1.2					18	1.5
90	1.2 D + 1.5 LL Maint (5)	Yes	Y	1	1.2					19	1.5
91	1.2 D + 1.5 LL Maint (6)	Yes	Y	1	1.2					20	1.5
92	1.2 D + 1.5 LL Maint (7)	Yes	Y	1	1.2					21	1.5
93	1.2 D + 1.5 LL Maint (8)	Yes	Y	1	1.2					22	1.5
94	1.2 D + 1.5 LL Maint (9)	Yes	Y	1	1.2					23	1.5
95	1.2 D + 1.5 LL Maint (10)	Yes	Y	1	1.2					24	1.5
96	1.2 D + 1.5 LL Maint (11)	Yes	Y	1	1.2					25	1.5
97	1.2 D + 1.5 LL Maint (12)	Yes	Y	1	1.2					26	1.5
98	1.2 D + 1.5 LL Maint (13)	Yes	Y	1	1.2					27	1.5
99	1.2 D + 1.5 LL Maint (14)	Yes	Y	1	1.2					28	1.5
100	1.2 D + 1.5 LL Maint (15)	Yes	Y	1	1.2					29	1.5

Envelope Node Reactions

	Node Label		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	186	max	0.688	6	2.955	14	13.515	2	0.032	8	0.803	11	0.033	12
2		min	-0.789	12	0.298	8	-3.428	8	-0.143	2	-0.677	5	-0.022	6
3	187	max	0.172	13	0.111	14	-0.098	8	0.003	8	0.241	6	0.004	11
4		min	-0.094	6	0.018	8	-14.223	14	-0.108	14	-0.4	13	-0.003	5
5	329	max	9.758	6	2.804	18	1.22	13	0.072	5	0.97	3	0.101	7
6		min	-1.963	12	0.468	12	-5.64	7	-0.018	11	-0.845	9	-0.019	13
7	330	max	-0.772	12	0.108	19	6.255	18	0.048	18	0.251	9	0.08	18
8		min	-10.971	18	0.025	12	0.458	12	0.001	12	-0.332	4	0.003	12
9	378	max	1.308	4	2.973	22	1.242	3	0.057	23	1.141	7	0.021	3
10		min	-10.937	22	0.563	4	-6.585	21	-0.007	5	-1.007	2	-0.128	21
11	379	max	12.223	22	0.112	22	7.187	22	0.053	22	0.294	2	-0.006	4
12		min	1.293	4	0.029	4	0.688	4	0.004	4	-0.435	8	-0.094	21
13	Totals:	max	4.075	5	8.537	19	5.315	2						
14		min	-4.075	11	3.953	13	-5.315	8						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
1	1	PIPE_2.5	0.206	3.255	2	0.254	3.255		2	14.559	50.715	3.596	3.596	1	H3-6
2	2	PIPE_2.5	0.212	4.297	13	0.225	11.849		12	14.559	50.715	3.596	3.596	1	H1-1b
3	3	PIPE_2.5	0.217	4.297	9	0.294	11.849		8	14.559	50.715	3.596	3.596	1	H1-1b
4	4	PL3/8"X3"_HRB	0.061	0	5	0.081	0	y	7	36.436	50.625	0.396	3.164	1.636	H1-1b
5	5	PL3/8"X3"_HRB	0.05	0	2	0.046	0	y	55	36.436	50.625	0.396	3.164	1.192	H1-1b
6	6	PL3/8"X3"_HRB	0.078	0	13	0.091	0	y	2	36.436	50.625	0.396	3.164	1.693	H1-1b
7	7	PL3/8"X3"_HRB	0.049	0.605	12	0.042	0	y	50	36.436	50.625	0.396	3.164	1.38	H1-1b
8	8	PL3/8"X3"_HRB	0.088	0	8	0.079	0	y	22	36.436	50.625	0.396	3.164	1.302	H1-1b
9	9	PL3/8"X3"_HRB	0.067	0.605	8	0.044	0	y	58	36.436	50.625	0.396	3.164	1.336	H1-1b
10	10	L3X3X6	0.226	0.88	18	0.287	1.214	y	3	65.297	66.465	2.243	5.174	1.473	H2-1
11	11	L3X3X6	0.268	0.88	75	0.31	1.214	z	4	65.297	66.465	2.243	5.174	1.5	H2-1
12	12	L3X3X6	0.387	2.137	3	0.126	2.386	z	9	66.061	66.465	2.243	5.174	1.441	H2-1
13	13	L3X3X6	0.31	2.137	4	0.127	2.386	y	4	66.061	66.465	2.243	5.174	1.204	H2-1
14	14	L3X3X6	0.254	0.88	14	0.241	1.214	y	12	65.297	66.465	2.243	5.174	1.479	H2-1
15	15	L3X3X6	0.305	0.88	24	0.334	1.214	z	12	65.297	66.465	2.243	5.174	1.5	H2-1
16	16	L3X3X6	0.296	2.137	11	0.108	1.64	z	2	66.061	66.465	2.243	5.174	1.5	H2-1
17	17	L3X3X6	0.384	2.137	13	0.145	2.162	y	13	66.061	66.465	2.243	5.174	1.155	H2-1
18	18	L3X3X6	0.265	0.88	21	0.337	1.214	y	8	65.297	66.465	2.243	5.174	1.485	H2-1
19	19	L3X3X6	0.308	0.88	20	0.403	1.214	z	8	65.297	66.465	2.243	5.174	1.5	H2-1
20	20	L3X3X6	0.401	2.137	7	0.131	2.386	z	13	66.061	66.465	2.243	5.174	1.5	H2-1
21	21	L3X3X6	0.437	2.137	8	0.172	2.386	y	8	66.061	66.465	2.243	5.174	1.219	H2-1

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
22	22	PL3/8"X2-3/8"	0.132	0	7	0.031	0	y	9	32.767	40.68	0.323	2.018	1.267	H1-1b
23	23	PL3/8"X2-3/8"	0.115	0	7	0.029	0	y	5	32.767	40.68	0.323	2.018	1.393	H1-1b
24	24	PL3/8"X2-3/8"	0.137	0	7	0.022	0	y	18	32.767	40.68	0.323	2.018	1.727	H1-1b
25	25	PL3/8"X2-3/8"	0.107	0	7	0.014	0	y	16	32.767	40.68	0.323	2.018	1.728	H1-1b
26	26	PL3/8"X2-3/8"	0.153	0	8	0.044	0	y	16	32.767	40.68	0.323	2.018	1.122	H1-1b
27	27	PL3/8"X2-3/8"	0.146	0	18	0.042	0.583	y	3	32.767	40.68	0.323	2.018	1.158	H1-1b
28	28	PL3/8"X2-3/8"	0.136	0	2	0.025	0	y	11	32.767	40.68	0.323	2.018	1.312	H1-1b
29	29	PL3/8"X2-3/8"	0.119	0	2	0.037	0	y	13	32.767	40.68	0.323	2.018	1.358	H1-1b
30	30	PL3/8"X2-3/8"	0.132	0	3	0.026	0	y	13	32.767	40.68	0.323	2.018	1.808	H1-1b
31	31	PL3/8"X2-3/8"	0.125	0	2	0.017	0	y	25	32.767	40.68	0.323	2.018	1.576	H1-1b
32	32	PL3/8"X2-3/8"	0.151	0	15	0.051	0	y	13	32.767	40.68	0.323	2.018	1.378	H1-1b
33	33	PL3/8"X2-3/8"	0.172	0	2	0.044	0	y	25	32.767	40.68	0.323	2.018	1.139	H1-1b
34	34	PL3/8"X2-3/8"	0.136	0	22	0.034	0	y	7	32.767	40.68	0.323	2.018	1.334	H1-1b
35	35	PL3/8"X2-3/8"	0.112	0	60	0.037	0	y	8	32.767	40.68	0.323	2.018	1.355	H1-1b
36	36	PL3/8"X2-3/8"	0.136	0	24	0.026	0	y	21	32.767	40.68	0.323	2.018	1.869	H1-1b
37	37	PL3/8"X2-3/8"	0.116	0	22	0.017	0	y	20	32.767	40.68	0.323	2.018	1.619	H1-1b
38	38	PL3/8"X2-3/8"	0.155	0	23	0.055	0	y	8	32.767	40.68	0.323	2.018	1.37	H1-1b
39	39	PL3/8"X2-3/8"	0.167	0.583	8	0.047	0.583	y	7	32.767	40.68	0.323	2.018	1.122	H1-1b
40	40	HSS4X3X4	0.097	4.023	8	0.101	0.531	z	16	83.04	91.665	8.19	10.001	2.124	H1-1b
41	41	HSS4X3X4	0.121	4.023	13	0.128	0.531	z	25	83.04	91.665	8.19	10.001	1.535	H1-1b
42	42	HSS4X3X4	0.118	4.023	9	0.129	0.531	z	20	83.04	91.665	8.19	10.001	1.498	H1-1b
43	43	PL3/8"X4"	0.439	0.917	14	0.014	0	y	12	31.728	67.5	0.527	5.625	1.216	H1-1a
44	44	PL3/8"X4"	0.381	0.958	14	0.016	0	y	12	29.576	67.5	0.527	5.625	1.493	H1-1a
45	45	PL3/8"X4"	0.174	0	14	0.036	0	y	12	41.15	67.5	0.527	5.625	2.16	H1-1b*
46	46	PL3/8"X4"	0.135	0	14	0.035	0	y	12	45.284	67.5	0.527	5.625	1.287	H1-1b*
47	47	PL3/8"X4"	0.197	0.479	14	0.036	0	y	12	25.241	67.5	0.527	5.625	1.207	H1-1b*
48	48	PL3/8"X4"	0.121	0	13	0.034	0.339	y	12	41.24	67.5	0.527	5.625	1.115	H1-1b
49	49	PL3/8"X4"	0.066	0	25	0.031	0	y	12	40.841	67.5	0.527	5.625	3	H1-1b
50	50	PL1/2"X4"	0.179	0.917	12	0.067	0.917	y	12	59.059	90	0.938	7.5	1.564	H1-1b
51	51	PL1/2"X4"	0.138	0	13	0.075	0.958	y	12	56.789	90	0.938	7.5	1.75	H1-1b
52	52	PL1/2"X4"	0.214	0.337	13	0.091	0.718	y	12	69.487	90	0.938	7.5	1.308	H1-1b
53	53	PL1/2"X4"	0.054	0.648	25	0.015	0	y	12	72.914	90	0.938	7.5	2.024	H1-1b
54	54	PL1/2"X4"	0.059	0.469	13	0.051	0.437	y	7	53.245	90	0.938	7.5	1.585	H1-1b
55	55	PL1/2"X4"	0.063	0	13	0.025	0.332	y	7	69.154	90	0.938	7.5	1.464	H1-1b
56	56	PL1/2"X4"	0.062	0.499	25	0.033	0.499	y	12	67.337	90	0.938	7.5	2.48	H1-1b
57	57	PL3/8"X1"	0.408	0.917	14	0.015	0.917	y	24	8.73	17.1	0.135	0.356	2.27	H1-1a
58	58	PL3/8"X1"	0.392	0.957	14	0.02	0.957	y	24	8.217	17.1	0.135	0.356	2.277	H1-1a
59	59	PL3/8"X1"	0.148	0.731	14	0.035	0.731	y	12	11.151	17.1	0.135	0.356	2.24	H1-1b
60	60	PL3/8"X1"	0.124	0.667	14	0.034	0.667	y	13	11.984	17.1	0.135	0.356	2.261	H1-1b
61	61	PL3/8"X1"	0.174	0.479	14	0.04	1.045	y	13	7.134	17.1	0.135	0.356	1.972	H1-1b*
62	62	PL3/8"X1"	0.087	0.332	25	0.032	0.741	y	12	11.026	17.1	0.135	0.356	2.754	H1-1b
63	63	PL3/8"X1"	0.32	0	14	0.136	0.221	y	14	10.789	17.1	0.135	0.356	2.9	H1-1b
64	64	PL3/8"X1"	0.273	1.264	14	0.007	0	y	2	4.908	17.1	0.135	0.356	2.261	H1-1a
65	65	PL3/8"X1"	0.274	0	14	0.026	0	y	12	4.686	17.1	0.135	0.356	2.235	H1-1a
66	66	PL3/8"X1"	0.094	0	14	0.04	1.013	y	12	7.518	17.1	0.135	0.356	1.865	H1-1b*
67	67	PL3/8"X1"	0.099	0	14	0.036	0.872	y	12	9.308	17.1	0.135	0.356	2.263	H1-1b*
68	68	PL3/8"X7/8"	0.131	0.727	14	0.034	0	y	7	9.357	14.76	0.116	0.27	2.171	H1-1b*
69	69	PL3/8"X3/4"	0.053	0.595	7	0.045	0.595	y	7	8.914	12.645	0.096	0.199	2.268	H1-1b
70	70	PL3/8"X3/4"	0.053	0.487	14	0.028	0.487	y	7	10.006	12.645	0.096	0.199	1.37	H1-1b*
71	71	PL3/8"X5/8"	0.057	0.397	14	0.01	0.397	y	7	9.25	10.53	0.082	0.139	2.184	H1-1b*
72	72	PL3/8"X1"	0.089	0.917	2	0.041	0.917	y	12	8.73	17.1	0.135	0.356	2.24	H1-1b*
73	73	PL3/8"X1"	0.076	0.958	2	0.045	0.958	y	12	8.2	17.1	0.135	0.356	2.255	H1-1b*
74	74	PL3/8"X1"	0.054	0.718	2	0.026	0.718	y	12	11.316	17.1	0.135	0.356	2.217	H1-1b*
75	75	PL3/8"X1"	0.038	0.648	2	0.013	0.648	y	25	12.22	17.1	0.135	0.356	2.246	H1-1b*
76	76	PL3/8"X1"	0.039	0.458	2	0.025	0.458	y	7	7.399	17.1	0.135	0.356	2.082	H1-1b*

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
77	77	PL3/8"X1"	0.025	0.325	2	0.019	0.725	y	7	11.23	17.1	0.135	0.356	2.58	H1-1b*
78	78	PL3/8"X1"	0.012	0.499	2	0.021	0.499	y	25	10.763	17.1	0.135	0.356	2.475	H1-1b*
79	79	PL3/8"X1"	0	0.871	20	0	0.871	y	8	9.322	17.1	0.135	0.356	2.381	H1-1b*
80	80	PL3/8"X1"	0	0.871	100	0.027	0.871	y	12	9.322	17.1	0.135	0.356	1.365	H1-1a
81	81	PL3/8"X1"	0	0.871	100	0.025	0	y	12	9.322	17.1	0.135	0.356	1.101	H1-1a
82	82	PL3/8"X1"	0	0.719	100	0.021	0.719	y	12	11.302	17.1	0.135	0.356	2.18	H1-1a
83	83	PL3/8"X7/8"	0.017	0.583	8	0.025	0.583	y	12	11.003	14.76	0.116	0.27	1.973	H1-1b*
84	84	PL3/8"X3/4"	0.025	0.467	8	0.032	0.467	y	13	10.197	12.645	0.096	0.199	2.199	H1-1b*
85	85	PL3/8"X3/4"	0.005	0.37	8	0.032	0.37	y	12	11.05	12.645	0.096	0.199	1.793	H1-1b*
86	86	PL3/8"X5/8"	0	0.288	9	0.025	0.288	y	12	9.838	10.53	0.082	0.139	2.132	H1-1b*
87	189	PIPE_2.0	0.314	0.26	10	0.232	0.521		7	6.295	32.13	1.872	1.872	1	H1-1b
88	190	PIPE_2.0	0.362	0.26	13	0.209	0.521		3	6.295	32.13	1.872	1.872	1	H1-1b
89	191	PIPE_2.0	0.461	0.26	2	0.175	12.24		9	6.295	32.13	1.872	1.872	1	H1-1b
90	193	PIPE_2.0	0.646	7.219	2	0.132	7.219		7	8.922	32.13	1.872	1.872	1	H1-1b
91	196	PIPE_2.0	0.475	7.219	2	0.127	7.219		7	8.922	32.13	1.872	1.872	1	H1-1b
92	199	PIPE_2.0	0.409	7.219	4	0.129	7.219		6	8.922	32.13	1.872	1.872	1	H1-1b
93	202	PIPE_2.0	0.374	7.219	4	0.1	7.219		5	8.922	32.13	1.872	1.872	1	H1-1b
94	207	PIPE_2.0	0.488	7.219	6	0.091	7.219		11	8.922	32.13	1.872	1.872	1	H1-1b
95	210	PIPE_2.0	0.492	7.219	8	0.126	7.219		9	8.922	32.13	1.872	1.872	1	H1-1b
96	213	PIPE_2.0	0.544	7.219	9	0.122	7.219		3	8.922	32.13	1.872	1.872	1	H1-1b
97	216	PIPE_2.0	0.378	7.219	12	0.126	7.219		13	8.922	32.13	1.872	1.872	1	H1-1b
98	218	WT4X2.25X0.38	0.011	1.219	6	0.138	2.437	y	4	63.333	71.381	4.228	1.315	1	H1-1b
99	219	WT4X2.25X0.38	0.012	1.219	2	0.142	2.437	y	12	63.333	71.381	4.228	1.315	1	H1-1b
100	220	WT4X2.25X0.38	0.012	1.219	10	0.187	2.437	y	8	63.333	71.381	4.228	1.315	1	H1-1b
101	222	PIPE_2.0	0.531	7.219	8	0.12	7.219		9	8.922	32.13	1.872	1.872	1	H1-1b
102	225	PIPE_2.0	0.547	7.219	8	0.157	7.219		9	8.922	32.13	1.872	1.872	1	H1-1b
103	228	PIPE_2.0	0.423	7.219	8	0.154	7.219		2	8.922	32.13	1.872	1.872	1	H1-1b
104	231	PIPE_2.0	0.465	7.219	13	0.164	7.219		2	8.922	32.13	1.872	1.872	1	H1-1b
105	233	PL3/8"X4"	0.378	0.917	18	0.015	0	y	3	31.728	67.5	0.527	5.625	1.228	H1-1a
106	234	PL3/8"X4"	0.327	0.958	18	0.017	0	y	3	29.576	67.5	0.527	5.625	1.543	H1-1a
107	235	PL3/8"X4"	0.15	0	18	0.032	0	y	3	41.15	67.5	0.527	5.625	2.004	H1-1b*
108	236	PL3/8"X4"	0.115	0	18	0.031	0	y	3	45.284	67.5	0.527	5.625	1.267	H1-1b*
109	237	PL3/8"X4"	0.165	0.479	18	0.032	0	y	3	25.241	67.5	0.527	5.625	1.207	H1-1b*
110	238	PL3/8"X4"	0.099	0	4	0.03	0.339	y	3	41.24	67.5	0.527	5.625	1.117	H1-1b
111	239	PL3/8"X4"	0.05	0	16	0.028	0	y	3	40.841	67.5	0.527	5.625	2.967	H1-1b
112	240	PL1/2"X4"	0.179	0.917	4	0.07	0.917	y	3	59.059	90	0.938	7.5	1.568	H1-1b
113	241	PL1/2"X4"	0.123	0	4	0.074	0.958	y	3	56.789	90	0.938	7.5	1.874	H1-1b
114	242	PL1/2"X4"	0.167	0.337	4	0.088	0.718	y	3	69.487	90	0.938	7.5	1.319	H1-1b
115	243	PL1/2"X4"	0.048	0.648	17	0.014	0	y	3	72.914	90	0.938	7.5	1.964	H1-1b
116	244	PL1/2"X4"	0.046	0.469	5	0.035	0.437	y	3	53.245	90	0.938	7.5	1.584	H1-1b
117	245	PL1/2"X4"	0.052	0	4	0.022	0.725	y	4	69.154	90	0.938	7.5	1.477	H1-1b
118	246	PL1/2"X4"	0.051	0	16	0.03	0.499	y	3	67.337	90	0.938	7.5	2.461	H1-1b
119	247	PL3/8"X1"	0.366	0.917	18	0.015	0.917	y	16	8.73	17.1	0.135	0.356	2.273	H1-1a
120	248	PL3/8"X1"	0.347	0.957	18	0.019	0.957	y	16	8.217	17.1	0.135	0.356	2.278	H1-1a
121	249	PL3/8"X1"	0.131	0.731	18	0.03	0.731	y	4	11.151	17.1	0.135	0.356	2.245	H1-1b
122	250	PL3/8"X1"	0.108	0.667	18	0.029	0.667	y	4	11.984	17.1	0.135	0.356	2.265	H1-1b
123	251	PL3/8"X1"	0.15	1.045	18	0.032	1.045	y	4	7.134	17.1	0.135	0.356	1.969	H1-1b
124	252	PL3/8"X1"	0.071	0.332	17	0.028	0.741	y	4	11.026	17.1	0.135	0.356	2.771	H1-1b
125	253	PL3/8"X1"	0.274	0	18	0.115	0.221	y	18	10.789	17.1	0.135	0.356	2.915	H1-1b
126	254	PL3/8"X1"	0.258	1.264	19	0.005	1.264	y	21	4.908	17.1	0.135	0.356	2.271	H1-1a
127	255	PL3/8"X1"	0.252	0	19	0.022	1.294	y	3	4.686	17.1	0.135	0.356	2.231	H1-1a
128	256	PL3/8"X1"	0.089	0	19	0.036	1.013	y	3	7.518	17.1	0.135	0.356	1.221	H1-1b*
129	257	PL3/8"X1"	0.09	0	19	0.032	0	y	3	9.308	17.1	0.135	0.356	2.265	H1-1b*
130	258	PL3/8"X7/8"	0.119	0.727	19	0.023	0.727	y	3	9.357	14.76	0.116	0.27	2.156	H1-1b*
131	259	PL3/8"X3/4"	0.049	0.595	20	0.021	0	y	9	8.914	12.645	0.096	0.199	2.18	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
132	260	PL3/8"X3/4"	0.046	0.487	18	0.011	0	y	9	10.006	12.645	0.096	0.199	1.484	H1-1b*
133	261	PL3/8"X5/8"	0.05	0.397	18	0.004	0.397	y	17	9.25	10.53	0.082	0.139	2.174	H1-1b*
134	262	PL3/8"X1"	0.073	0.917	6	0.037	0.917	y	4	8.73	17.1	0.135	0.356	2.244	H1-1b*
135	263	PL3/8"X1"	0.06	0.958	6	0.041	0.958	y	4	8.2	17.1	0.135	0.356	2.256	H1-1b*
136	264	PL3/8"X1"	0.045	0.718	6	0.023	0.718	y	4	11.316	17.1	0.135	0.356	2.231	H1-1b*
137	265	PL3/8"X1"	0.03	0.648	6	0.011	0.648	y	17	12.22	17.1	0.135	0.356	2.246	H1-1b*
138	266	PL3/8"X1"	0.032	0.458	6	0.018	1.023	y	4	7.399	17.1	0.135	0.356	2.065	H1-1b*
139	267	PL3/8"X1"	0.02	0.325	6	0.016	0.325	y	17	11.23	17.1	0.135	0.356	2.591	H1-1b*
140	268	PL3/8"X1"	0.01	0.499	6	0.018	0.499	y	17	10.763	17.1	0.135	0.356	2.486	H1-1b*
141	269	PL3/8"X1"	0	0.871	24	0	0.871	y	12	9.322	17.1	0.135	0.356	2.381	H1-1b*
142	270	PL3/8"X1"	0	0.871	100	0.028	0.871	y	3	9.322	17.1	0.135	0.356	1.17	H1-1a
143	271	PL3/8"X1"	0	0.871	100	0.024	0.871	y	3	9.322	17.1	0.135	0.356	1.272	H1-1a
144	272	PL3/8"X1"	0	0.719	100	0.018	0.719	y	4	11.302	17.1	0.135	0.356	2.268	H1-1a
145	273	PL3/8"X7/8"	0.005	0.583	12	0.021	0.583	y	4	11.003	14.76	0.116	0.27	2.466	H1-1b*
146	274	PL3/8"X3/4"	0.008	0.467	12	0.027	0.467	y	4	10.197	12.645	0.096	0.199	2.225	H1-1b*
147	275	PL3/8"X3/4"	0.002	0.37	12	0.029	0.37	y	4	11.05	12.645	0.096	0.199	2.333	H1-1b*
148	276	PL3/8"X5/8"	0	0.288	100	0.022	0.288	y	4	9.838	10.53	0.082	0.139	2.26	H1-1a
149	306	PL3/8"X4"	0.437	0.917	21	0.02	0	y	8	31.728	67.5	0.527	5.625	1.209	H1-1a
150	307	PL3/8"X4"	0.379	0.958	21	0.026	0	y	8	29.576	67.5	0.527	5.625	1.479	H1-1a
151	308	PL3/8"X4"	0.172	0	22	0.039	0	y	8	41.15	67.5	0.527	5.625	2.154	H1-1b*
152	309	PL3/8"X4"	0.133	0	22	0.04	0	y	8	45.284	67.5	0.527	5.625	1.283	H1-1b*
153	310	PL3/8"X4"	0.194	1.045	21	0.043	0	y	8	25.241	67.5	0.527	5.625	1.216	H1-1b*
154	311	PL3/8"X4"	0.134	0	8	0.04	0.339	y	8	41.24	67.5	0.527	5.625	1.108	H1-1b
155	312	PL3/8"X4"	0.066	0	8	0.037	0	y	8	40.841	67.5	0.527	5.625	2.754	H1-1b
156	313	PL1/2"X4"	0.226	0.917	8	0.084	0.917	y	8	59.059	90	0.938	7.5	1.495	H1-1b
157	314	PL1/2"X4"	0.152	0	8	0.094	0.958	y	8	56.789	90	0.938	7.5	2.024	H1-1b
158	315	PL1/2"X4"	0.225	0.337	8	0.115	0.718	y	8	69.487	90	0.938	7.5	1.321	H1-1b
159	316	PL1/2"X4"	0.055	0.648	21	0.019	0	y	8	72.914	90	0.938	7.5	2.043	H1-1b
160	317	PL1/2"X4"	0.059	0.469	9	0.058	0.437	y	3	53.245	90	0.938	7.5	1.553	H1-1b
161	318	PL1/2"X4"	0.068	0	8	0.029	0.725	y	8	69.154	90	0.938	7.5	1.491	H1-1b
162	319	PL1/2"X4"	0.062	0.499	21	0.04	0.499	y	8	67.337	90	0.938	7.5	2.519	H1-1b
163	320	PL3/8"X1"	0.407	0.917	22	0.019	0.917	y	8	8.73	17.1	0.135	0.356	2.27	H1-1a
164	321	PL3/8"X1"	0.391	0.957	22	0.026	0.957	y	8	8.217	17.1	0.135	0.356	2.277	H1-1a
165	322	PL3/8"X1"	0.148	0.731	21	0.037	0.731	y	8	11.151	17.1	0.135	0.356	2.24	H1-1b
166	323	PL3/8"X1"	0.124	0.667	21	0.038	0.667	y	8	11.984	17.1	0.135	0.356	2.261	H1-1b
167	324	PL3/8"X1"	0.173	1.045	21	0.043	1.045	y	8	7.134	17.1	0.135	0.356	1.971	H1-1b
168	325	PL3/8"X1"	0.086	0.332	21	0.037	0.741	y	8	11.026	17.1	0.135	0.356	2.759	H1-1b
169	326	PL3/8"X1"	0.317	0	22	0.136	0.221	y	21	10.789	17.1	0.135	0.356	2.904	H1-1b
170	327	PL3/8"X1"	0.274	1.264	22	0.006	1.264	y	24	4.908	17.1	0.135	0.356	2.261	H1-1a
171	328	PL3/8"X1"	0.276	0	22	0.026	0	y	8	4.686	17.1	0.135	0.356	2.234	H1-1a
172	329	PL3/8"X1"	0.096	0	22	0.046	1.013	y	8	7.518	17.1	0.135	0.356	1.677	H1-1b*
173	330	PL3/8"X1"	0.099	0	22	0.043	0.872	y	8	9.308	17.1	0.135	0.356	2.259	H1-1b*
174	331	PL3/8"X7/8"	0.132	0.727	22	0.038	0.727	y	3	9.357	14.76	0.116	0.27	2.17	H1-1b*
175	332	PL3/8"X3/4"	0.052	0.595	24	0.049	0.595	y	3	8.914	12.645	0.096	0.199	2.184	H1-1b
176	333	PL3/8"X3/4"	0.052	0.487	22	0.031	0.487	y	3	10.006	12.645	0.096	0.199	1.397	H1-1b*
177	334	PL3/8"X5/8"	0.057	0.397	22	0.011	0.397	y	3	9.25	10.53	0.082	0.139	2.182	H1-1b*
178	335	PL3/8"X1"	0.077	0.917	10	0.049	0.917	y	8	8.73	17.1	0.135	0.356	2.241	H1-1b*
179	336	PL3/8"X1"	0.065	0.958	10	0.054	0.958	y	8	8.2	17.1	0.135	0.356	2.255	H1-1b*
180	337	PL3/8"X1"	0.051	0.718	22	0.032	0.718	y	8	11.316	17.1	0.135	0.356	2.263	H1-1b*
181	338	PL3/8"X1"	0.032	0.648	10	0.013	0.648	y	21	12.22	17.1	0.135	0.356	2.245	H1-1b*
182	339	PL3/8"X1"	0.034	0.458	22	0.026	0.458	y	3	7.399	17.1	0.135	0.356	2.077	H1-1b*
183	340	PL3/8"X1"	0.021	0.325	22	0.02	0.725	y	3	11.23	17.1	0.135	0.356	2.657	H1-1b*
184	341	PL3/8"X1"	0.01	0.499	10	0.021	0.499	y	21	10.763	17.1	0.135	0.356	2.473	H1-1b*
185	342	PL3/8"X1"	0	0.871	16	0	0.871	y	4	9.322	17.1	0.135	0.356	2.381	H1-1b*
186	343	PL3/8"X1"	0	0.871	100	0.035	0.871	y	8	9.322	17.1	0.135	0.356	1.423	H1-1a

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
187	344	PL3/8"X1"	0	0.871	100	0.032	0	y	8	9.322	17.1	0.135	0.356	1.162	H1-1a
188	345	PL3/8"X1"	0	0.719	100	0.026	0.719	y	8	11.302	17.1	0.135	0.356	2.21	H1-1a
189	346	PL3/8"X7/8"	0	0.583	100	0.03	0.583	y	8	11.003	14.76	0.116	0.27	2.231	H1-1a
190	347	PL3/8"X3/4"	0	0.467	100	0.037	0.467	y	8	10.197	12.645	0.096	0.199	2.206	H1-1a
191	348	PL3/8"X3/4"	0.001	0.37	3	0.038	0.37	y	8	11.05	12.645	0.096	0.199	2.413	H1-1b*
192	349	PL3/8"X5/8"	0	0.288	100	0.029	0.288	y	8	9.838	10.53	0.082	0.139	2.26	H1-1a

APPENDIX D

ADDITIONAL CALCUATIONS

PROJECT	**152945.003.01.0001 - Woodbury Pap KSC**				
SUBJECT	**Platform Mount Analysis**				
DATE	**09/07/22**	PAGE	1	OF	1

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

[REF: AISC 360-05]

Reactions at Bolted Connection

Tension	:	13.52	k
Vertical Shear	:	2.955	k
Horizontal Shear	:	0.791	k
Torsion	:	0.033	k.ft
Moment from Horizontal Forces	:	0.805	k.ft
Moment from Vertical Forces	:	0.143	k.ft

Bolt Parameters

Bolt Grade	:	A325	
Bolt Diameter	:	0.625	in
Nominal Bolt Area	:	0.307	in^2
Bolt spacing, Horizontal	:	6	in
Bolt spacing, Vertical	:	6	in
Bolt edge distance, plate height	:	1.5	in
Bolt edge distance, plate width	:	1.5	in
Total Number of Bolts	:	4	bolts

Summary of Forces

Shear Resultant Force	:	3.06	k
Force from Horz. Moment	:	1.46	k
Force from Vert. Moment	:	0.26	k
Shear Load / Bolt	:	0.76	k
Tension Load / Bolt	:	3.38	k
Resultant from Moments / Bolt	:	0.74	k

Bolt Checks

Nominal Tensile Stress, F_{nt}	:	90.00	ksi	[AISC Table J3.2]
Available Tensile Stress, ΦR_{nt}	:	20.72	k/bolt	[Eq. J3-1]
Unity Check, Bolt Tension	:	**19.88%**		**OKAY**
Nominal Shear Stress, F_{nv}	:	48.00	ksi	[AISC Table J3.2]
Available Shear Stress, ΦR_{nv}	:	11.05	k/bolt	[Eq. J3-1]
Unity Check, Bolt Shear	:	**37.50%**		**OKAY**
Unity Check, Combined	:	**57.39%**		**OKAY**
Available Bearing Strength, ΦR_n	:	34.66	k/bolt	
Unity Check, Bolt Bearing	:	**2.21%**		**OKAY**

PROJECT	**152945.003.01.0001 - Woodbury Pap**				**KSC**
SUBJECT	**Platform Mount Analysis**				
DATE	**09/07/22**	PAGE	1	OF	1

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

[REF: AISC 360-05]

Connecting Member Parameters

Plate Yield Strength, F_y	:	36.00	ksi	[AISC Table 2-5]
Plate Tensile Strength, F_u	:	58.00	ksi	[AISC Table 2-5]
Plate Height	:	9.00	in	
Plate Width	:	9.00	in	
Plate Thickness	:	0.50	in	
Edge Distance	:	1.06	in	
Gross Tension Area, A_{gt}	:	4.50	in^2	
Gross Shear Area, A_{gv}	:	0.75	in^2	
Net Area for tension, A_{nv}	:	4.16	in^2	
Net Area for shear, A_{nt}	:	3.00	in^2	

Plate Check

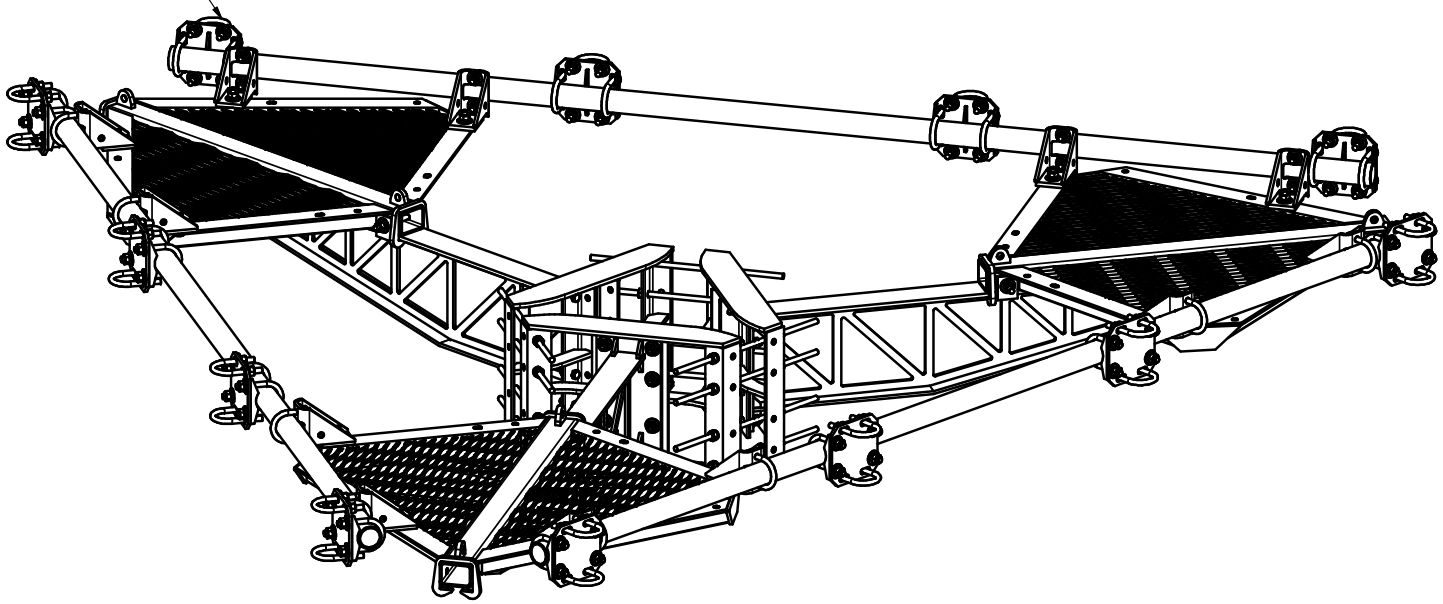
Available Tensile Yield	:	145.80	k	[Eq. J4-1]
Available Tensile Rupture	:	180.80	k	[Eq. J4-2]
Unity Check, Plate Tension	:	**2.83%**		**OKAY**
Available Shear Yield	:	16.20	k	[Eq. J4-3]
Available Shear Rupture	:	104.40	k	[Eq. J4-4]
Unity Check, Plate Shear	:	**18.88%**		**OKAY**
Available Block Shear, ΦRn	:	77.40	k	[Eq. J4-5]
Unity Check, Block Shear	:	**3.95%**		**OKAY**

APPENDIX E

SUPPLEMENTAL DRAWINGS

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LPP-CW	LOW PROFILE PLATFORM CORNER WELDMENT		198.75	596.26
2	3	X-LPP-SA12	SIDE ARM WELDMENT FOR 12' LOW PROFILE PLATFORMS		119.21	357.63
3	3	X-RM3HD	WELDMENT FOR 3-SIDED HEAVY DUTY RING MOUNT		84.42	253.25
4	12	X-LPP-PC	FACE PIPE CONNECTION BRACKET FORTRESS PLATFORM		7.01	84.11
5	12	X-SCX3-FR	FORTRESS CROSSOVER PLATE		6.61	79.37
6	12	X-LPP-A7	CORNER WELDMENT ATTACHMENT ANGLE	2 1/2 in	1.27	15.25
7	3	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	230.81
8	12	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	4.79
8	12	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	4.79
9	6	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	4.18
10	48	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	55.17
11	24	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	24.00
12	12	X-UB5304	5/8" X 3" X 4-1/4" X 2-1/2" U-BOLT (HDG.)		0.98	11.70
13	36	G58214	5/8" x 2-1/4" HDG HEX BOLT GR5		0.29	10.49
14	168	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	11.84
15	192	G58LW	5/8" HDG LOCKWASHER		0.03	5.01
16	192	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	24.94
					TOTAL WT. #	1839.28

2-3/8" TO 2-7/8"
ANTENNA MOUNTING PIPES
(ORDERED SEPARATELY)



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION
12' FORTRESS™
TRI-PLATFORM MOUNT

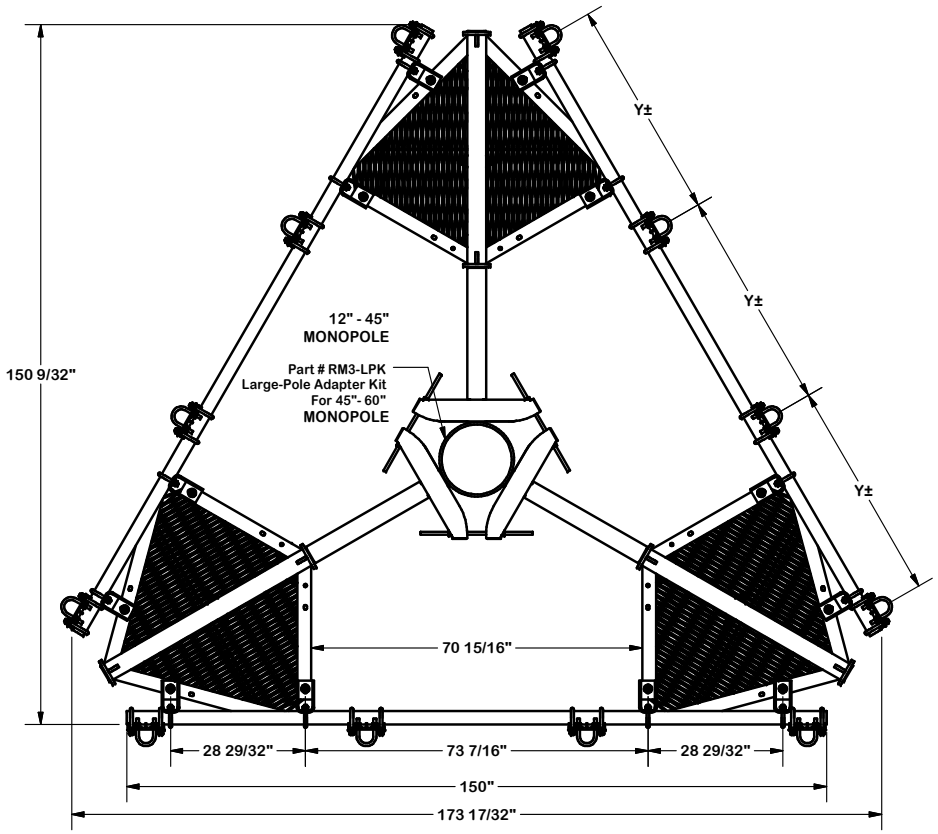
SITE PRO 1
A valmont COMPANY

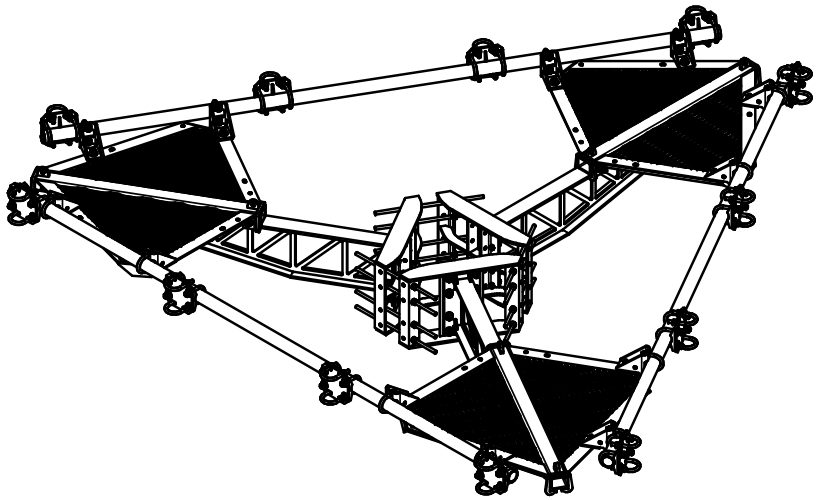
Engineering Support Team:
1-888-753-7446

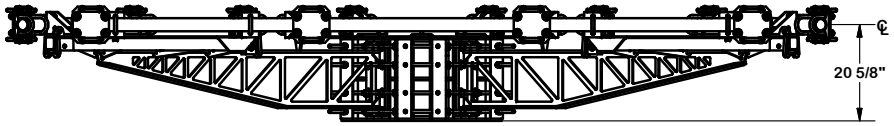
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

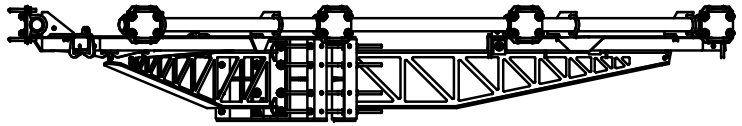
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 8/9/2017		F3P-12

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 8/30/2017	F3P-12









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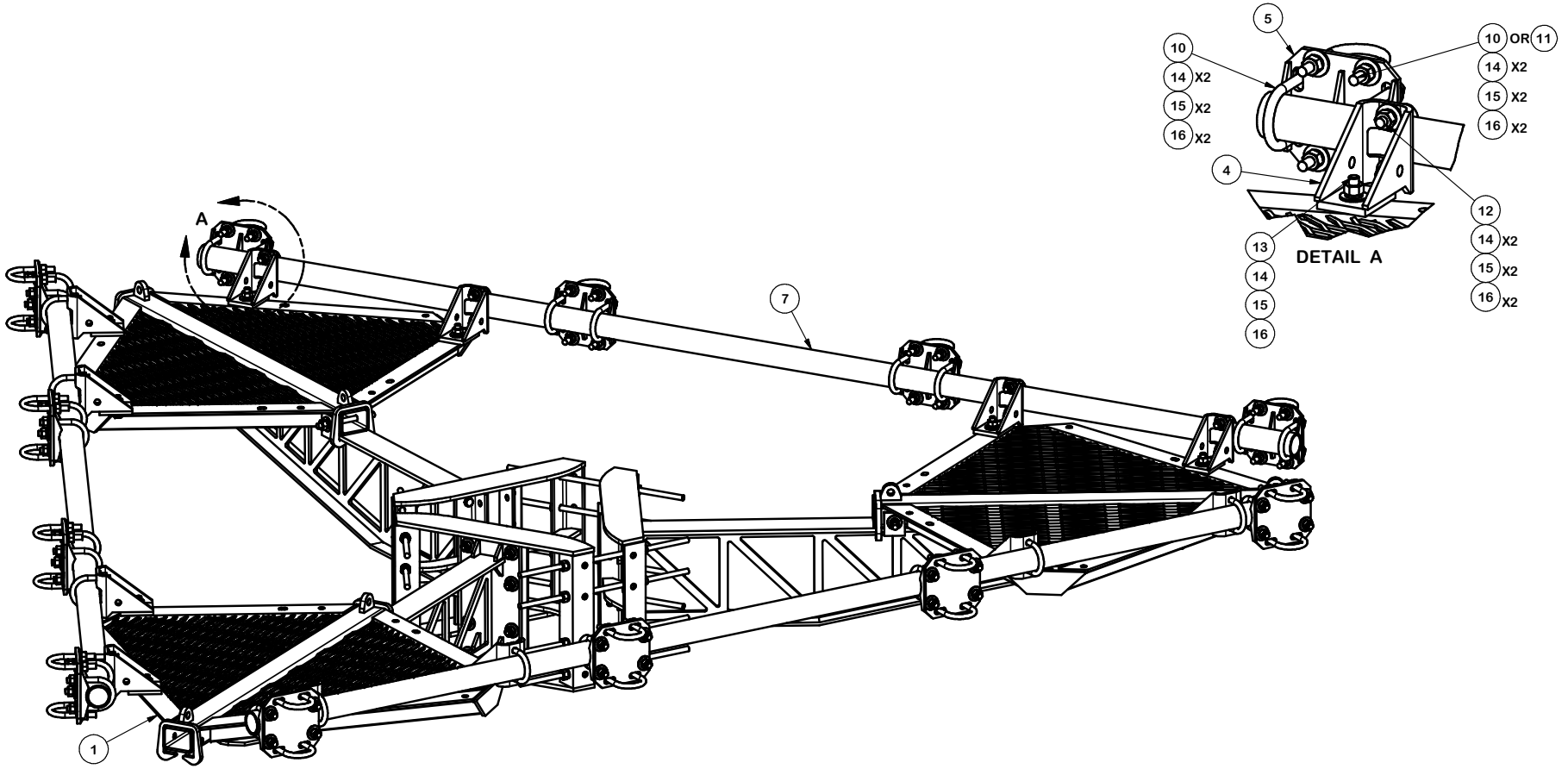
	CEK 8/9/2017		F3P-12

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 8/30/2017	F3P-12



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
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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
12' FORTRESS™
TRI-PLATFORM MOUNT

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A valmont COMPANY

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1-888-753-7446

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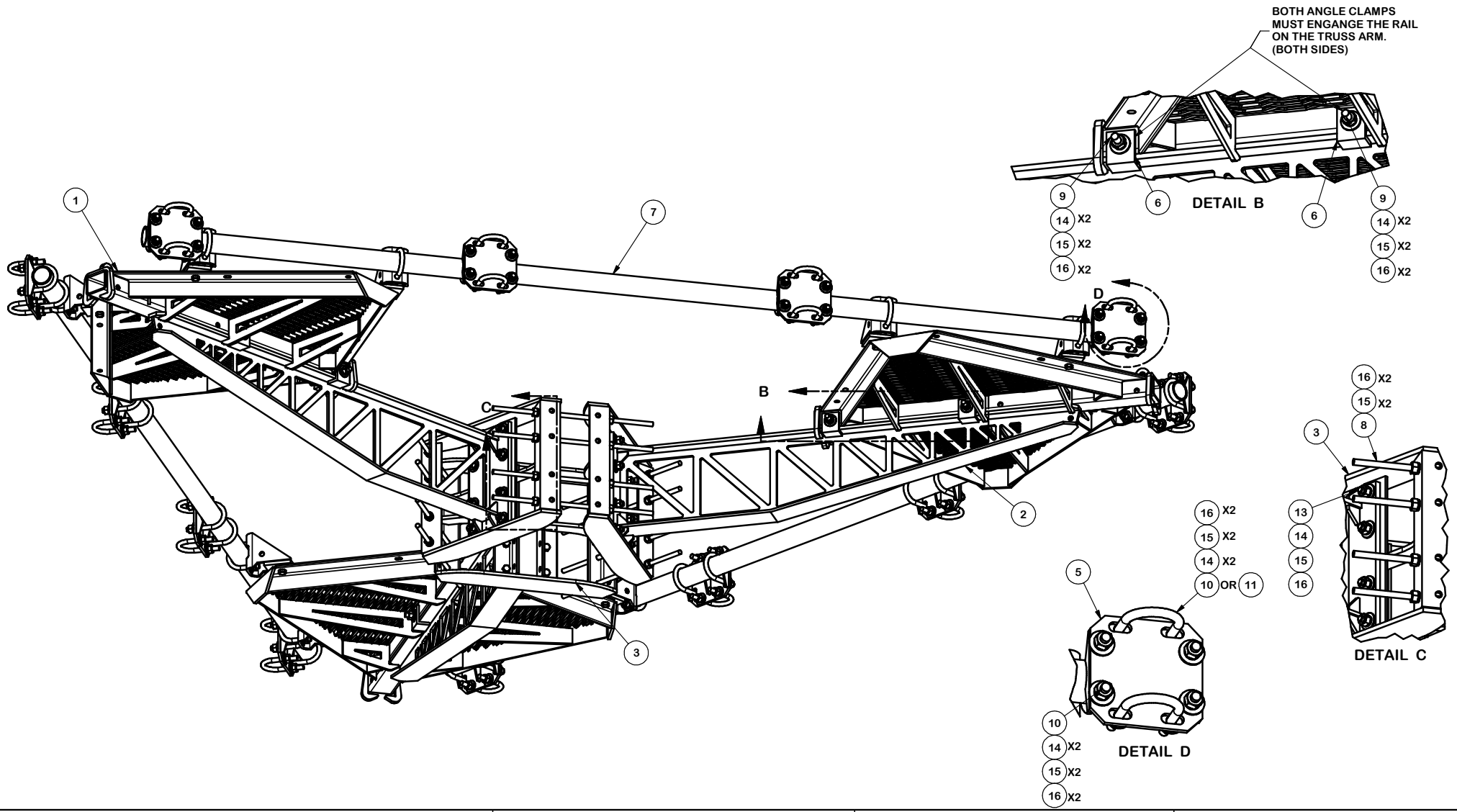
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 8/9/2017		F3P-12

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 8/30/2017	F3P-12



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ***(± 0.030")***
DRILLED AND GAS CUT HOLES ***(± 0.030")*** **- NO CONING OF HOLES**
LASER CUT EDGES AND HOLES ***(± 0.010")*** **- NO CONING OF HOLES**
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING ***(± 0.030")***
ALL OTHER ASSEMBLY ***(± 0.060")***

DESCRIPTION
12' FORTRESS™
TRI-PLATFORM MOUNT

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

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 8/9/2017		F3P-12

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 8/30/2017	F3P-12

Exhibit F

Power Density/RF Emissions Report

Site Name: ***Woodbury NW CT***
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	1820	7279	118	0.0188	0.5007	3.75%
VZW CDMA	876.03	4	0	0	118	0.0000	0.5840	0.00%
VZW Cellular	874	4	851	3405	118	0.0088	0.5827	1.51%
VZW PCS	1980	4	3236	12944	118	0.0334	1.0000	3.34%
VZW AWS	2120	4	3981	15924	118	0.0411	1.0000	4.11%
VZW CBRS	3625	4	0	0	118	0.0000	1.0000	0.00%
VZW CBAND	3730.08	2	12735	25470	118	0.0658	1.0000	6.58%
Total Percentage of Maximum Permissible Exposure								19.30%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.