Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

August 24, 2021

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

RE: **Notice of Exempt Modification for Verizon:**
Crown Site BU: 826768
171 Town Hill Road, Plymouth, CT 06786
Latitude: 41° 40′ 6.20″ / Longitude: -73° 1′ 11.84″

Dear Ms. Bachman:

Verizon currently maintains twelve (12) total antennas at the 142-foot centerline on the existing 169- foot monopole tower, located at 171 Town Hill Road, Plymouth, CT. The property is owned by Terryville Country Fair Inc. and the tower is owned by Crown Castle. Verizon now intends to swap six (6) RRHs, modify the platform mount, install three (3) antennas and three (3) side-by-side antenna mounts.

Tower modifications:
- Swap six (6) RRHs
- Modify platform mount
-Install three (3) antennas
- Install three (3) side-by-side antenna mounts

Ground modifications:
- None

The facility was approved by the Town of Plymouth Planning and Zoning Commission on June 22, 2000 by way of a Special Permit issuance. The approval was given with conditions which this exempt modification follows.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to David V. Merchant, Mayor for the Town of Plymouth, Margus T. Laan, Director of Planning, Crown Castle as the tower owner, and Terryville Country Fair Inc., the property owner.

Additionally:

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

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

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

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

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

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

For the foregoing reasons, Verizon respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j72(b)(2). Please send approval/rejection letter to my attention at the address listed below.

Sincerely,

S. Snell

Sarah Snell
Site Acquisition Specialist
1800 W. Park Drive
Westborough, MA 01581
T: 508-621-9146
Sarah.Snell@crowncastle.com

Attachments

cc: David V. Merchant, Mayor Town of Plymouth
Town Hall – Mayor's Office
80 Main Street
Terryville, CT 06786
860-585-4001

Margus T. Laan, Planning Director
Town of Plymouth
Town Hall – Land Use Office

80 Main Street
Terryville, CT 06786
860-585-4001

Terryville Country Fair Inc.
171 Town Hill Road
PO Box 72
Terryville, CT 06786

Crown Castle, Tower Owner

Snell, Sarah

From: TrackingUpdates@fedex.com
Sent: Wednesday, August 25, 2021 10:15 AM
To: Snell, Sarah
Subject: FedEx Shipment 774621109017: Your package has been delivered

Hi. Your package was delivered Wed, 08/25/2021 at 10:13am.

Delivered to 80 MAIN ST, TERRYVILLE, CT 06786
Received by S.URBANSKI

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 774621109017

FROM Sarah Snell
1800 West Park Drive
Suite 200
WESTBOROUGH, MA, US, 01581

TO	Town of Plymouth Margus T. Laan, Planning Director 80 Main St. TERRYVILLE, CT, US, 06786
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 8/24/2021 06:36 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	TERRYVILLE, CT, US, 06786
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

Snell, Sarah

From: TrackingUpdates@fedex.com
Sent: Wednesday, August 25, 2021 10:15 AM
To: Snell, Sarah
Subject: FedEx Shipment 774621084020: Your package has been delivered

Hi. Your package was delivered Wed, 08/25/2021 at 10:13am.

Delivered to 80 MAIN ST, TERRYVILLE, CT 06786
Received by S.URBANSKI

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 774621084020

FROM Sarah Snell
1800 West Park Drive
Suite 200
WESTBOROUGH, MA, US, 01581

TO	Town of Plymouth David V. Merchant, Mayor 80 Main St. TERRYVILLE, CT, US, 06786
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 8/24/2021 06:36 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	TERRYVILLE, CT, US, 06786
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

Snell, Sarah

From: TrackingUpdates@fedex.com
Sent: Wednesday, August 25, 2021 10:17 AM
To: Snell, Sarah
Subject: FedEx Shipment 774621131008: Your package has been delivered

Hi. Your package was delivered Wed, 08/25/2021 at 10:15am.

Delivered to 171 TOWN HILL RD, TERRYVILLE, CT 06786
Received by N.HALE

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 774621131008

FROM
Sarah Snell
1800 West Park Drive
Suite 200
WESTBOROUGH, MA, US, 01581

TO	Terryville Country Fair Inc. 171 Town Hill Road TERRYVILLE, CT, US, 06786
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Tue 8/24/2021 06:36 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	TERRYVILLE, CT, US, 06786
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

Exhibit A

Original Facility Approval

TOWN OF PLYMOUTH, CONNECTICUT

ZONING PERMIT NO. 00-201
Fee Paid: $ 100.00 # 058194
Date: July 5 19 2000

Permission is hereby granted to Terryville Lions Club & Omnipoint (fair Grounds)
to erect a Telecommunication Tower on the east side of Town Hill Rd
as follows: Size ____ ft. long, ____ ft. wide, ____ stories high; distance from
road center line ____ ft; distance from each lot line: E ____ ft.; W ____ ft.; S ____ ft.;
N ____ ft.; for the use of the facility as a Telecommunication Tower
as approved by PtZ on 6/22/2000 with stipulations

PLANNING AND ZONING COMMISSION, TOWN OF PLYMOUTH
CONNECTICUT

Ronald J Morneau
Agent of the Planning and Zoning Commission

* See approved Site Plan
dated 3/2000 Received 6/22/2000
3/6/2000
3/16/2006

The recipient of this permit accepts this permit on the condition that he, as owner or as representing the owner, agrees to comply with all applicable ordinances and regulations of the Town of Plymouth and the State of Connecticut regarding the use, occupancy and type of activity to be instituted. It is furthermore understood that the facility can not be used until a Certificate of Occupancy has been issued by the Planning and Zoning Commission and that any change of use similarly does require a new Certificate of Occupancy. Before a Certificate of Occupancy will be issued a plot plan drawn to a scale of 1" - 50' prepared and certified by a licensed engineer or land surveyor must be submitted to the Planning and Zoning Commission showing all boundaries of the line of any public or private right-of-way, sanitary facilities and water supply. This permit shall be valid for one year.

MOTION: Gaye Zukauskas made a motion to add Town Hill Road/Lions back on the agenda. Steve Panasuk seconded. VOTE: S. Panasuk – Aye, G. Zukauskas – Aye, W. Radke – Aye and Chairman Herzing so voted.

MOTION: Patrick Herzing made a motion for a 5-minute recess at 9:23 p.m. VOTE: All in favor.

Chairman Patrick Herzing called the meeting back to order at 9:28 p.m.

Town Hill Road/Lions - Special Permit – Telecommunication Tower – Omnipoint – MOTION: Gaye Zukauskas made a motion to approve the application for the telecommunication tower-Town Hill Road-Lions Club and Omnipoint-State ID #CT-11417C consisting of 5 sheets, cover dated 6/20/00, vicinity plan dated 3/8/00, sheet C-1, C-2 and C-3 all dated 6/20/00 with the only stipulation that Plymouth emergency services to have free access as needed with no charge to the Town. Any additional carriers to come in for a special permit. Bond to be set by Public Works in the event of abandonment. Steve Panasuk seconded. VOTE: S. Panasuk - Aye, G. Zukauskas – Aye, W. Radke – Aye and Chairman Herzing so voted.

11. Town Hill/Washington Roads – Pines Subdivision – Bond Reduction – CT Water Co. – CT Water Co. has sold most of the lots in the subdivision to Mr. Zappone. Discussion was had. **MOTION:** Wayne Radke made a motion to reduce the bond as requested and get a new bond from Mr. Zappone before reduction of CT Water Co.'s bond. Gaye Zukauskas seconded. VOTE: S. Panasuk – Aye, G. Zukauskas – Aye, W. Radke – Aye and Chairman Herzing so voted.

16. Plymouth Housing Authority – Section 8-24 Review – Yefko Property – Mr. Kuehn read the memo dated 6/21 from Anthony A. Lorenzetti, PE into the record. He is in support of this proposal. It would be a solution to the parking situation at Gosinski Park. Half of it would be for off street parking and the other half for a minimum 20,000 sq. ft. residential parcel for a low/moderate income housing. The resolution should be 39,100 not 29,100. Mr. Kuehn read the resolution into the record. **MOTION:** Gaye Zukauskas made a motion to accept the resolution for an 8-24 review. Wayne Radke seconded. VOTE: S. Panasuk – Aye, G. Zukauskas – Aye, W. Radke – Aye and Chairman Herzing so voted.

18. Land Use Corner – Gaye strikes again. The final revision has been faxed to the Plymouth News. Gaye suggested that Mr. Kuehn do one next month on industrial property.

21. Correspondence from ZBA Chairman Mike Cole – Patrick Herzing will call Mike Cole and get a time set up – probably in September to get together to discuss the zoning regulations. It was suggested to have Mike come up with an agenda of issues to look at ahead of time.

22. Proposed ordinance for zoning violations – The Town Council tabled this item at their last meeting so no public hearing has been scheduled. It recommends a $150 fine per violation. Maybe we can not issue any permits to people who have not finished and cleaned up their last items.

STAFF COMMENTS –Mr. Kuehn informed the Commission that 36 signs will be going up in the industrial park for the public hearing.

Exhibit B

Property Card

Town of Plymouth
Property Listing Report

Parcel ID 048-073B-012 Account 00041600

Property Information

Owner	TERRYVILLE COUNTRY FAIR INC
Address	171 TOWN HILL RD
Mailing Address	PO BOX 72 TERRYVILLE , CT 06786
Land Use	-
Land Class	E

Census Tract	4254
Neighborhood	103
Zoning	RA1
Acreage	20.46
Utilities	
Lot Setting/ Desc	/ 1

Photo

PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	83250	
Outbuildings		
Improvements		
Extras		
Land	0	
Total	1042260	729580
Previous		

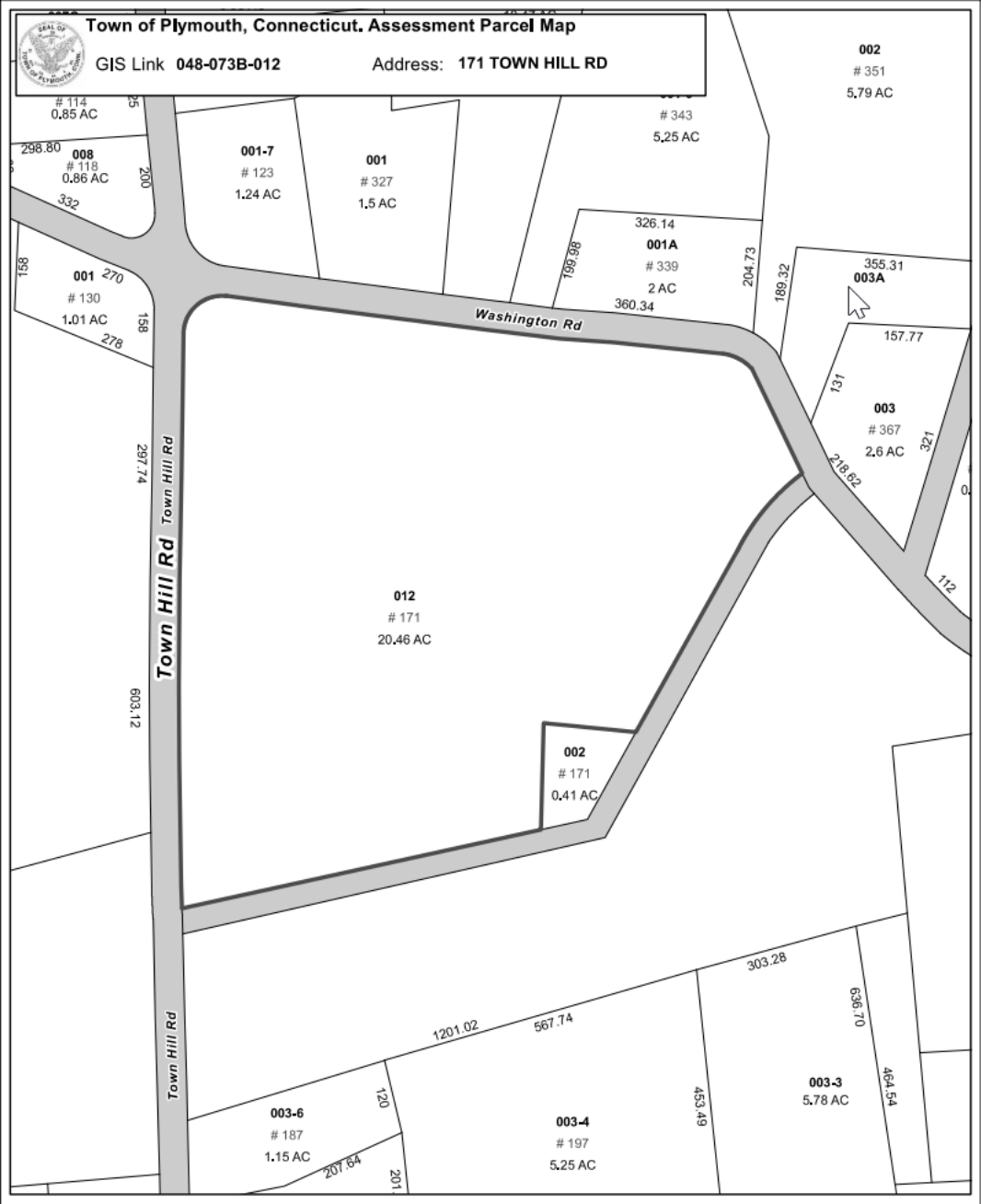
Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Total Rooms	
Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

EXTERIOR WALLS:	
Primary	
Secondary	
INTERIOR WALLS:	
Primary	
Secondary	
FLOORS:	
Primary	
Secondary	
HEATING/AC:	
Heating Type	
Heating Fuel	
AC Type	

BUILDING AREA:	
Effective Building Area	
Gross Building Area	
Total Living Area	

SALES HISTORY:	
Sale Date	0
Sale Price	0
Book/ Page	152/643



1 inch = 200 feet

0 100 200 300 400 Feet

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

Map Produced: November 2018

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER: 468084
VERIZON SITE NAME: PLYMOUTH CT
VERIZON FUZE ID: 16244611
SITE TYPE: MONOPOLE
TOWER HEIGHT: 169'-0"

BUSINESS UNIT #: 826768
SITE ADDRESS: 171 TOWN HILL ROAD PLYMOUTH, CT 06786
COUNTY: LITCHFIELD
JURISDICTION: TOWN OF PLYMOUTH

VERIZON MODIFICATION;4G_850,4G_AWS,4G_PCS,5G_L-SUB6-PREP

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	PLYMOUTH/RT 6
SITE ADDRESS:	171 TOWN HILL ROAD PLYMOUTH, CT 06786
COUNTY:	LITCHFIELD
MAP/PARCEL #:	048-073B-012
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 40' 6.20" (41.668386)
LONGITUDE:	-73° 1' 11.84" (-73.019886)
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	882 FT
CURRENT ZONING:	RA1
JURISDICTION:	TOWN OF PLYMOUTH
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TERRYVILLE COUNTRY FAIR INC PO BOX 72 TERRYVILLE, CT 06786
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	CONNECTICUT LIGHT & POWER CO (800) 286-2000
TELCO PROVIDER:	AT&T (800) 331-0500

PROJECT TEAM

A&E FIRM:	TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH, NC 27603 (919) 661-6351 JOSEPH T. CRESS - PROJECT MANAGER GRAHAM M. ANDRES - CIVIL ENGINEER
CROWN CASTLE USA INC. DISTRICT CONTACTS:	6325 ARDREY KELL ROAD, SUITE 600 CHARLOTTE, NC 28277 SARA REA LOADHOLDT - A&E SPECIALIST (704) 405-6548

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	EQUIPMENT SCHEDULES
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT DETAILS
C-6	COLOR CODE MATRIX
C-7	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
ATTACHED	MOUNT MODIFICATION DRAWINGS

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.

APPROVALS

SIGNATURE	DATE

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT	https://pmi.vxwsmart.com
SMART TOOL VENDOR PROJECT NUMBER	16244611
VzW LOCATION CODE (PSLC)	**468084**

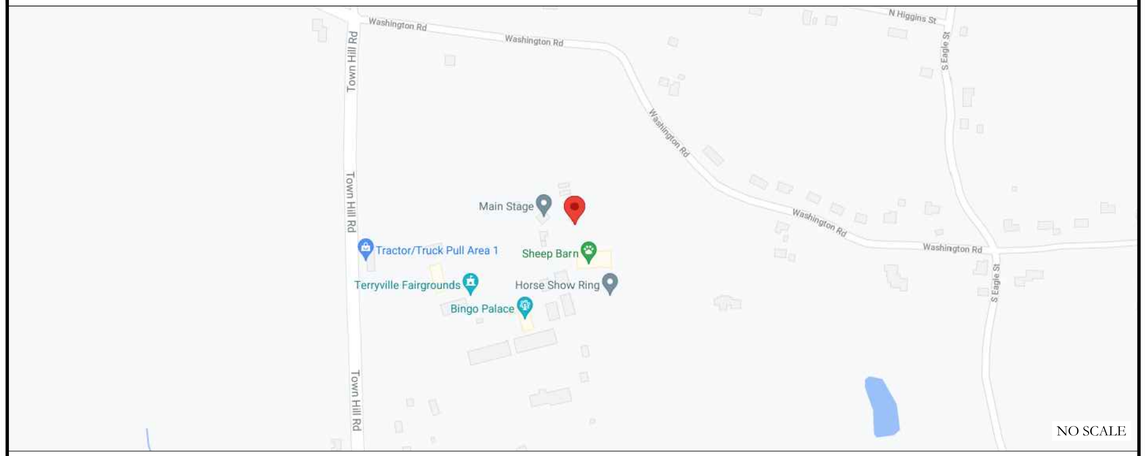
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED	**Y**

VzW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VzW SMART KIT APPROVED VENDORS

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS FROM DISTRICT OFFICE : I84- TAKE EXIT 20 ON THE LEFT TO MERGE ONTO CT-8 N TOWARD TORRINGTON 8.4 MI 14. CONTINUE ONTO CT-8 N/US-6 E 0.9 MI 15. TAKE EXIT 39 FOR US-6 E TOWARD CT-222/THOMASTON/BRISTOL/TERRYVILLE/FAIRGROUNDS 0.2 MI 16. TURN RIGHT ONTO US-6 E/E MAIN ST 2.2 MI 17. TURN RIGHT ONTO TOWN HILL RD DESTINATION WILL BE ON THE LEFT 0.7 MI 171 TOWN HILL RD PLYMOUTH, CT 06786 LOCK COMBO 2500

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 STATE BUILDING CODE (2015 IBC)
MECHANICAL	2018 CONNECTICUT STATE MECHANICAL CODE (2015 IMC)
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	TOWER ENGINEERING PROFESSIONALS
DATED:	05/23/21
MOUNT ANALYSIS:	TOWER ENGINEERING PROFESSIONALS 06/18/21
RFDS REVISION:	0
DATED:	04/18/21
ORDER ID:	570318
REVISION:	0

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

PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:
- REMOVE (6) RRHs
- MODIFY PLATFORM MOUNT
- INSTALL (3) ANTENNAS
- INSTALL (6) RRHs
- INSTALL (3) SIDE-BY-SIDE ANTENNA MOUNT

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

verizon
20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351
TEP JOB #: 25661.587818

VERIZON SITE NUMBER:
468084

BU #: **826768**
PLYMOUTH/RT 6

171 TOWN HILL ROAD
PLYMOUTH, CT 06786

EXISTING 169'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/17/21	JCH	CONSTRUCTION	JTC
1	08/20/21	JCH	CONSTRUCTION	JTC

STATE OF CONNECTICUT GRAHAM M. ANDRES 29538 LICENSED PROFESSIONAL ENGINEER

08/20/21

SHEET NUMBER:	REVISION:
T-1	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

verizon
20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351
TEP JOB #: 25661.587818

VERIZON SITE NUMBER: 468084

BU #: **826768**
PLYMOUTH/RT 6

171 TOWN HILL ROAD
PLYMOUTH, CT 06786

EXISTING 169'-0" MONOPOLE

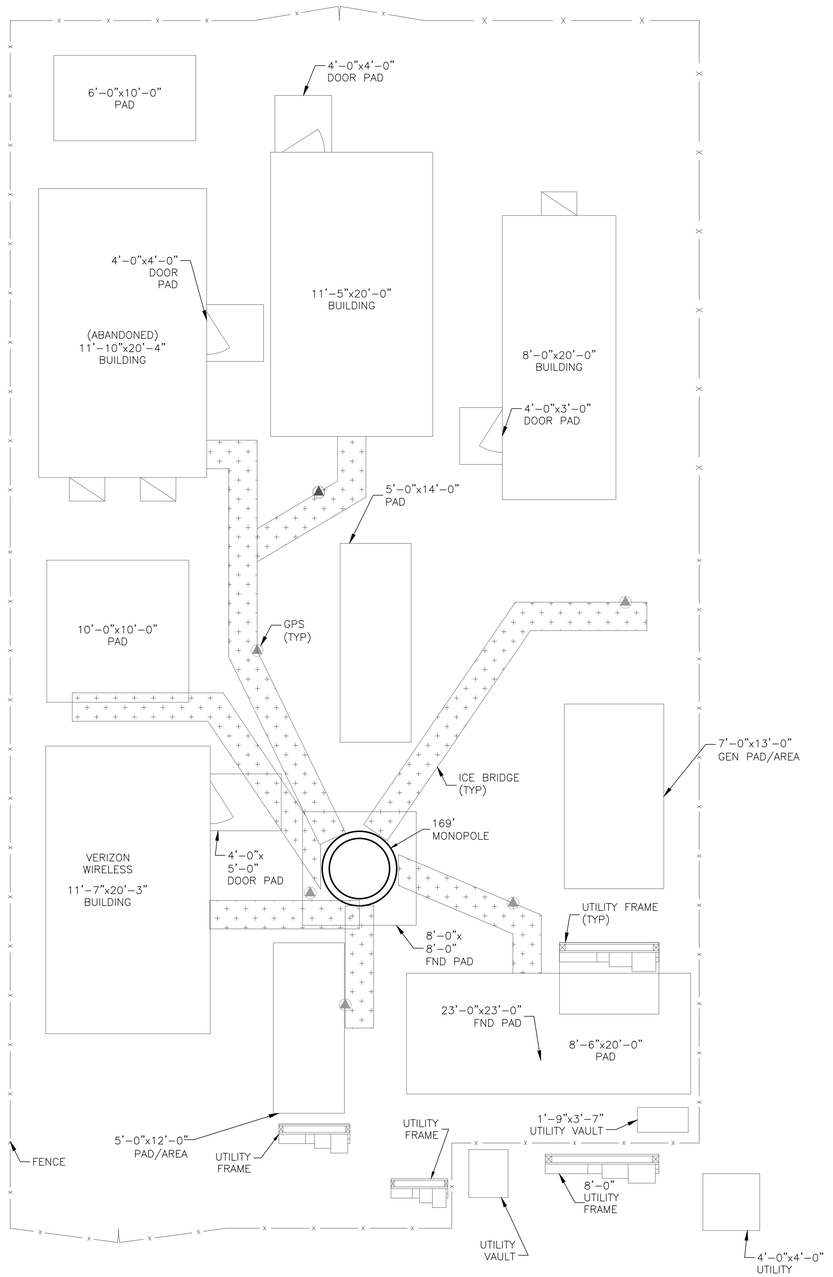
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/17/21	JCH	CONSTRUCTION	JTC

08/17/21

SHEET NUMBER: T-2

REVISION: 0



1 SITE PLAN

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

N

verizon
20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

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171 TOWN HILL ROAD
PLYMOUTH, CT 06786

EXISTING 169'-0" MONOPOLE

ISSUED FOR:

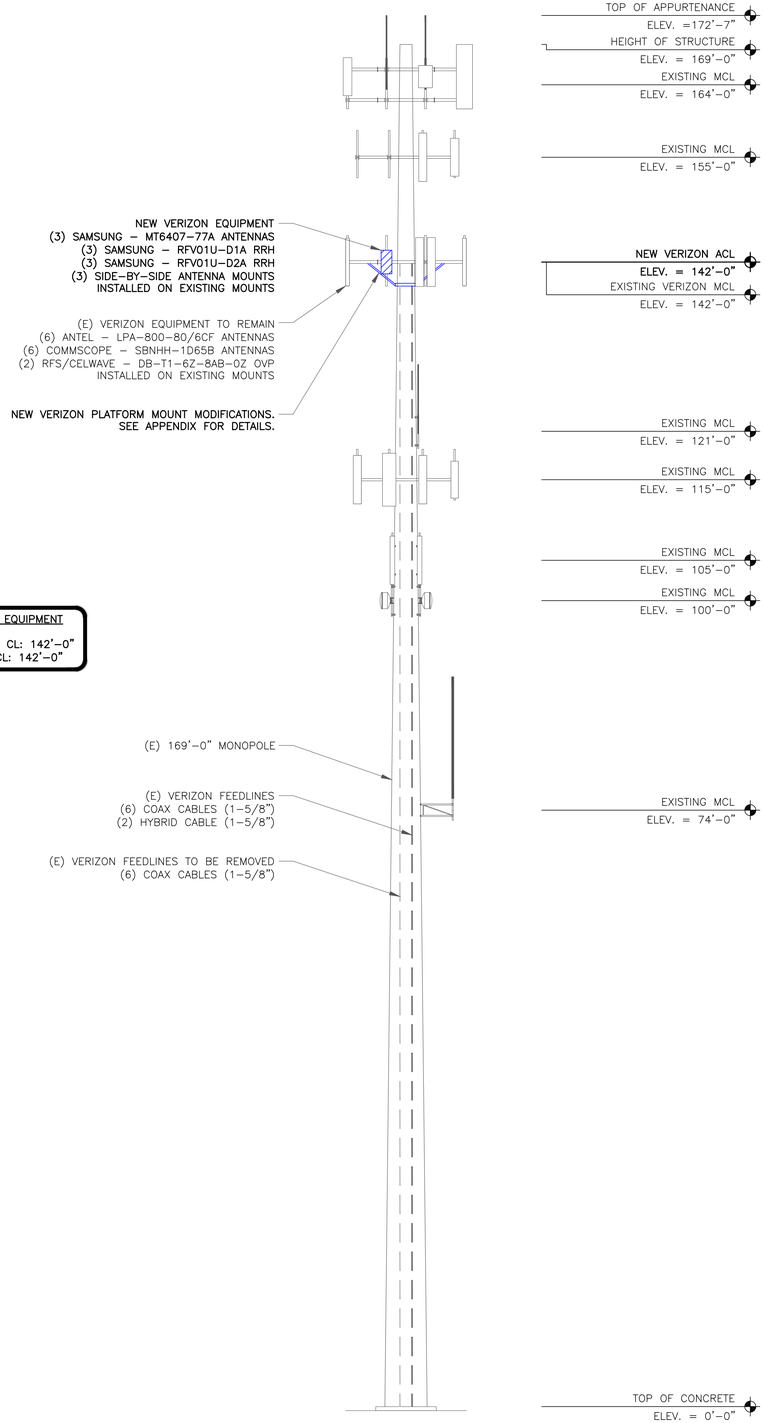
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/17/21	JCH	CONSTRUCTION	JTC

GRAHAM M. JONES
CONNECTICUT
29538
LICENSED
PROFESSIONAL ENGINEER

08/17/21

SHEET NUMBER: C-1

REVISION: 0



1 TOWER ELEVATION
SCALE: NOT TO SCALE

INSTALLER NOTE:

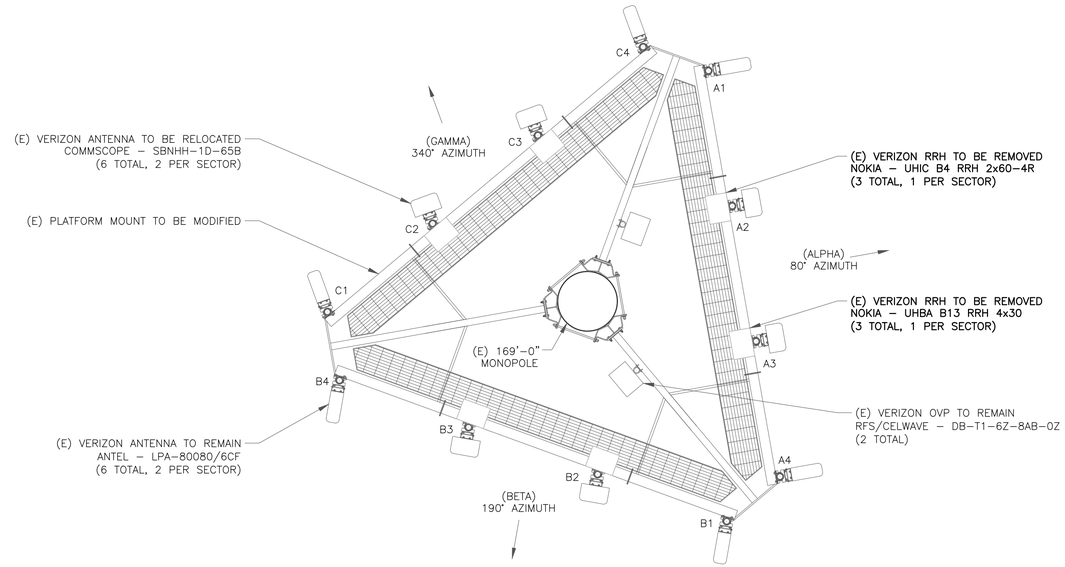
EXISTING AND PROPOSED ANTENNA/ EQUIPMENT POSITIONING SHOWN PER RFDS. FIELD CONDITIONS MAY VARY.

TOWER ANALYSIS NOTES:

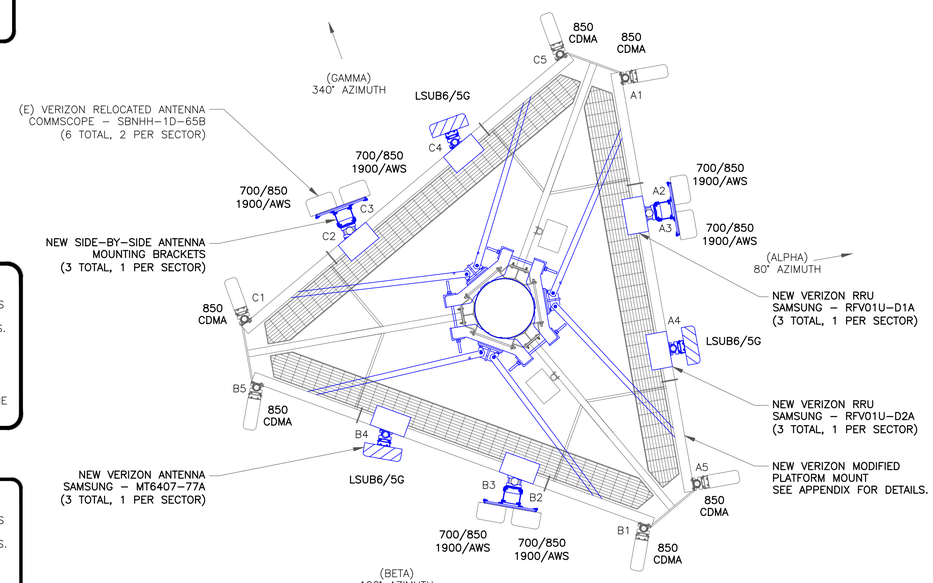
1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING TOWER ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE TOWER ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED TOWER MODIFICATION DESIGN OR TOWER REPLACEMENT SHALL BE APPROVED BY EOR.

MOUNT ANALYSIS NOTES:

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EOR.



2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

verizon
20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351
TEP JOB #: 25661.587818

VERIZON SITE NUMBER:
468084

BU #: **826768**
PLYMOUTH/RT 6

171 TOWN HILL ROAD
PLYMOUTH, CT 06786

EXISTING 169'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/17/21	JCH	CONSTRUCTION	JTC
1	08/20/21	JCH	CONSTRUCTION	JTC

GRAHAM C. ANDRES
CONNECTICUT
20538
LICENSED
PROFESSIONAL ENGINEER
08/20/21

SHEET NUMBER: C-2

REVISION: 1

ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	EXISTING	ANTEL	LPA-80080-6CF	142'-0"	80°	*	*	RFS/CELWAVE	(1) DB-T1-6Z-8AB-0Z OVP
A2	EXISTING	COMMSCOPE	SBNHH-1D65B	142'-0"	80°	*	*	SAMSUNG	(1) RFV01U-D1A RRH
A3	EXISTING	COMMSCOPE	SBNHH-1D65B	142'-0"	80°	*	*	–	–
A4	**NEW**	**SAMSUNG**	**MT6407-77A**	**142'-0"**	**80°**	*	*	SAMSUNG	(1) RFV01U-D2A RRH
A5	EXISTING	ANTEL	LPA-80080-6CF	142'-0"	80°	*	*	–	–
B1	EXISTING	ANTEL	LPA-80080-6CF	142'-0"	190°	*	*	RFS/CELWAVE	(1) DB-T1-6Z-8AB-0Z OVP
B2	EXISTING	COMMSCOPE	SBNHH-1D65B	142'-0"	190°	*	*	SAMSUNG	(1) RFV01U-D1A RRH
B3	EXISTING	COMMSCOPE	SBNHH-1D65B	142'-0"	190°	*	*	–	–
B4	**NEW**	**SAMSUNG**	**MT6407-77A**	**142'-0"**	**190°**	*	*	SAMSUNG	(1) RFV01U-D2A RRH
B5	EXISTING	ANTEL	LPA-80080-6CF	142'-0"	190°	*	*	–	–
C1	EXISTING	ANTEL	LPA-80080-6CF	142'-0"	340°	*	*	–	–
C2	EXISTING	COMMSCOPE	SBNHH-1D65B	142'-0"	340°	*	*	SAMSUNG	(1) RFV01U-D1A RRH
C3	EXISTING	COMMSCOPE	SBNHH-1D65B	142'-0"	340°	*	*	–	–
C4	**NEW**	**SAMSUNG**	**MT6407-77A**	**142'-0"**	**340°**	*	*	SAMSUNG	(1) RFV01U-D2A RRH
C5	EXISTING	ANTEL	LPA-80080-6CF	142'-0"	340°	*	*	–	–

NOTE – NEW ANTENNA/EQUIPMENT SHOWN IN BOLD

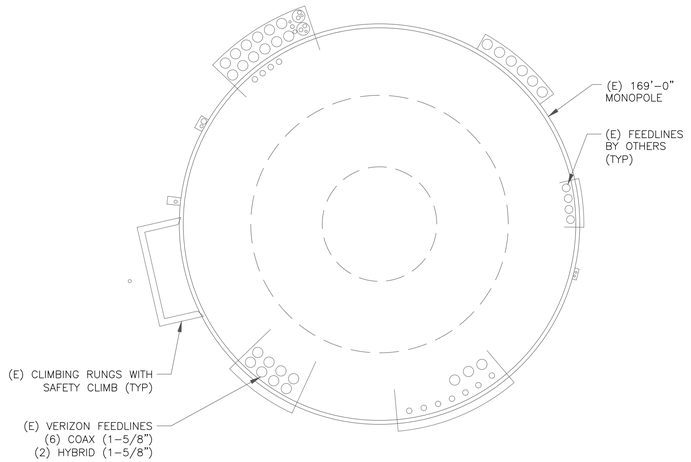
* – CONTRACTOR TO REFERENCE MOST RECENT RFDS FOR MECHANICAL AND ELECTRICAL DOWNTILTS

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	MANUFACTURER (MODEL #)	SIZE	LENGTH	QTY
EXISTING	COAX	ANDREW (LDF7-50A)	1-5/8"	192'-0"±	**6
EXISTING	COAX	ANDREW (LDF7-50A)	1-5/8"	192'-0"±	6
EXISTING	HYBRID	RFS/CELWAVE (HB158-1-08U8-S8J18)	1-5/8"	192'-0"±	2
				TOTAL CABLE QTY:	8

** – EXISTING COAX CABLE TO BE REMOVED



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

N

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CROWN CASTLE
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VERIZON SITE NUMBER:
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PLYMOUTH/RT 6

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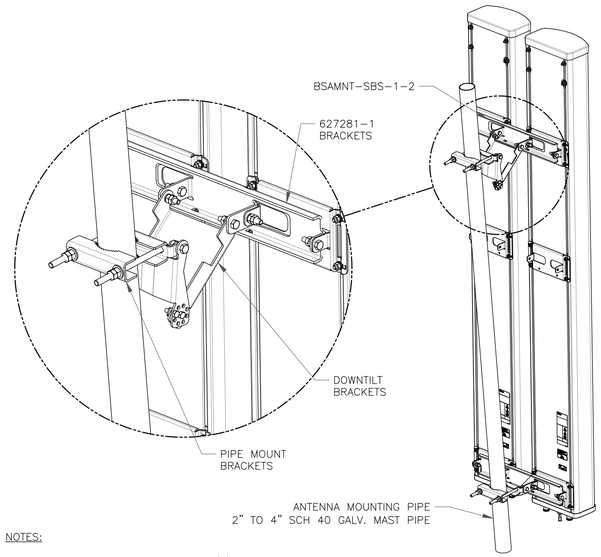
STATE OF CONNECTICUT
GRAHAM M. ANDRES
20538
LICENSED
PROFESSIONAL ENGINEER

08/20/21

SHEET NUMBER: C-3

REVISION: 1

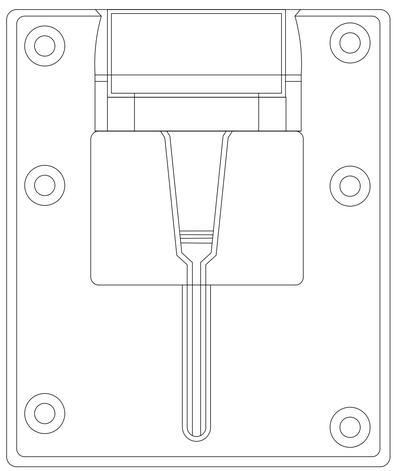


NOTES:

- BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

1 COMMSCOPE – BSAMNT-SBS-1-2
SCALE: NOT TO SCALE

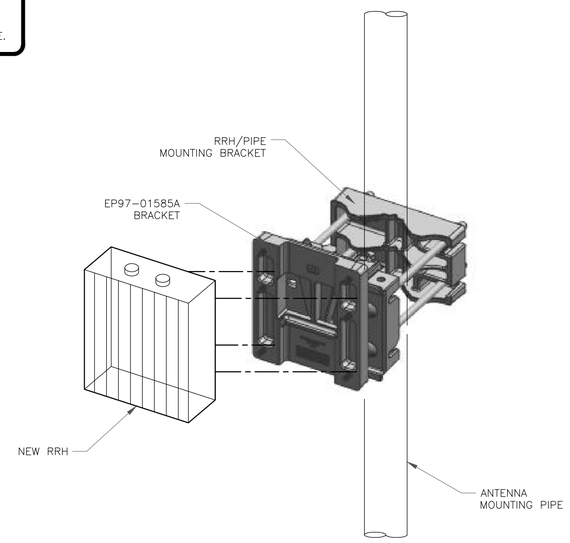
2 NOT USED
SCALE: NOT TO SCALE



3 SAMSUNG – EP97-01585A BRACKET DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

ALL PIPES BRACKETS AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



4 ANTENNA & RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

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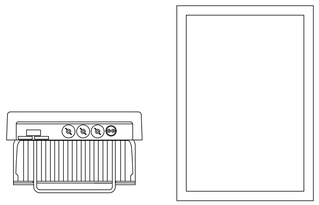
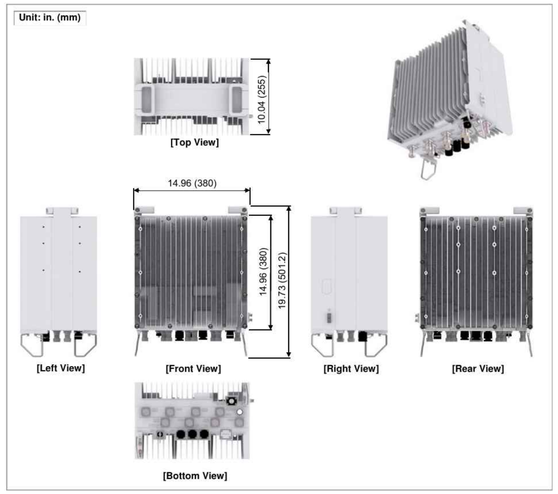
STATE OF CONNECTICUT
GREGORY T. ANDRES
29538
LICENSED PROFESSIONAL ENGINEER
08/17/21

SHEET NUMBER: C-4
REVISION: 0



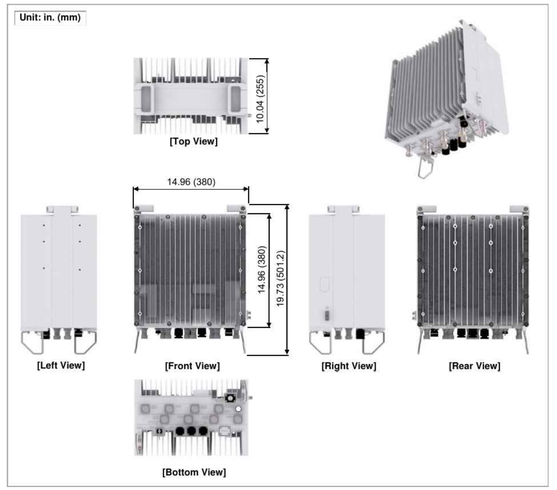
SAMSUNG TELECOMMUNICATIONS – MT6407–77A ANTENNA
WEIGHT: 81.57 LBS
SIZE (HxWxD): 35.06x16.06x5.51 IN.

2 SAMSUNG – MT6407–77A
SCALE: NOT TO SCALE



SAMSUNG – RFV01U–D1A
WEIGHT: 84.40 LBS
SIZE (HxWxD): 15.00x15.00x10.00 IN.

2 SAMSUNG TELECOMMUNICATIONS / RFV01U–D1A
SCALE: NOT TO SCALE



SAMSUNG – RFV01U–D2A
WEIGHT: 70.30 LBS
SIZE (HxWxD): 15.00x15.00x8.10 IN.

3 SAMSUNG TELECOMMUNICATIONS / RFV01U–D2A
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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GRAHAM M. MORES
CONNECTICUT
20538
LICENSED
PROFESSIONAL ENGINEER
08/20/21

SHEET NUMBER: C-5

REVISION: 1

COLOR CODE MATRIX

Azimuth (1) Alpha					
Cell (850 CDMA)	Red				
PCS2 (1900 LTE)	Pink	Red	Pink		
700 LTE	Lt. Green	Red	Lt. Green		
850 LTE	Purple	Red	Purple		
2100 LTE	Orange	Red	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Red	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Red	Lt. Green	Purple
5G	Brown	Red	Brown		
LAA	Gray	Red	Gray		
CBRS	White	Red	White		

Azimuth (2) Beta					
Cell (850 CDMA)	Blue				
PCS2 (1900 LTE)	Pink	Blue	Pink		
700 LTE	Lt. Green	Blue	Lt. Green		
850 LTE	Purple	Blue	Purple		
2100 LTE	Orange	Blue	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Blue	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Blue	Lt. Green	Purple
5G	Brown	Blue	Brown		
LAA	Gray	Blue	Gray		
CBRS	White	Blue	White		

Azimuth (3) Gamma					
Cell (850 CDMA)	Yellow				
PCS2 (1900 LTE)	Pink	Yellow	Pink		
700 LTE	Lt. Green	Yellow	Lt. Green		
850 LTE	Purple	Yellow	Purple		
2100 LTE	Orange	Yellow	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Yellow	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Yellow	Lt. Green	Purple
5G	Brown	Yellow	Brown		
LAA	Gray	Yellow	Gray		
CBRS	White	Yellow	White		

COLOR CODE MATRIX

Azimuth (4) Delta					
Cell (850 CDMA)	Orange				
PCS2 (1900 LTE)	Pink	Orange	Pink		
700 LTE	Lt. Green	Orange	Lt. Green		
850 LTE	Purple	Orange	Purple		
2100 LTE	Orange	Orange	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Orange	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Orange	Lt. Green	Purple
5G	Brown	Orange	Brown		
LAA	Gray	Orange	Gray		
CBRS	White	Orange	White		

Azimuth (5) Epsilon					
Cell (850 CDMA)	White				
PCS2 (1900 LTE)	Pink	White	Pink		
700 LTE	Lt. Green	White	Lt. Green		
850 LTE	Purple	White	Purple		
2100 LTE	Orange	White	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	White	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	White	Lt. Green	Purple
5G	Brown	White	Brown		
LAA	Gray	White	Gray		
CBRS	White	White	White		

Azimuth (6) Zeta					
Cell (850 CDMA)	Gray				
PCS2 (1900 LTE)	Pink	Gray	Pink		
700 LTE	Lt. Green	Gray	Lt. Green		
850 LTE	Purple	Gray	Purple		
2100 LTE	Orange	Gray	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Gray	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Gray	Lt. Green	Purple
5G	Brown	Gray	Brown		
LAA	Gray	Gray	Gray		
CBRS	White	Gray	White		

1 COLOR CODE MATRIX
SCALE: NOT TO SCALE

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SHEET NUMBER: C-6

REVISION: 0

- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.

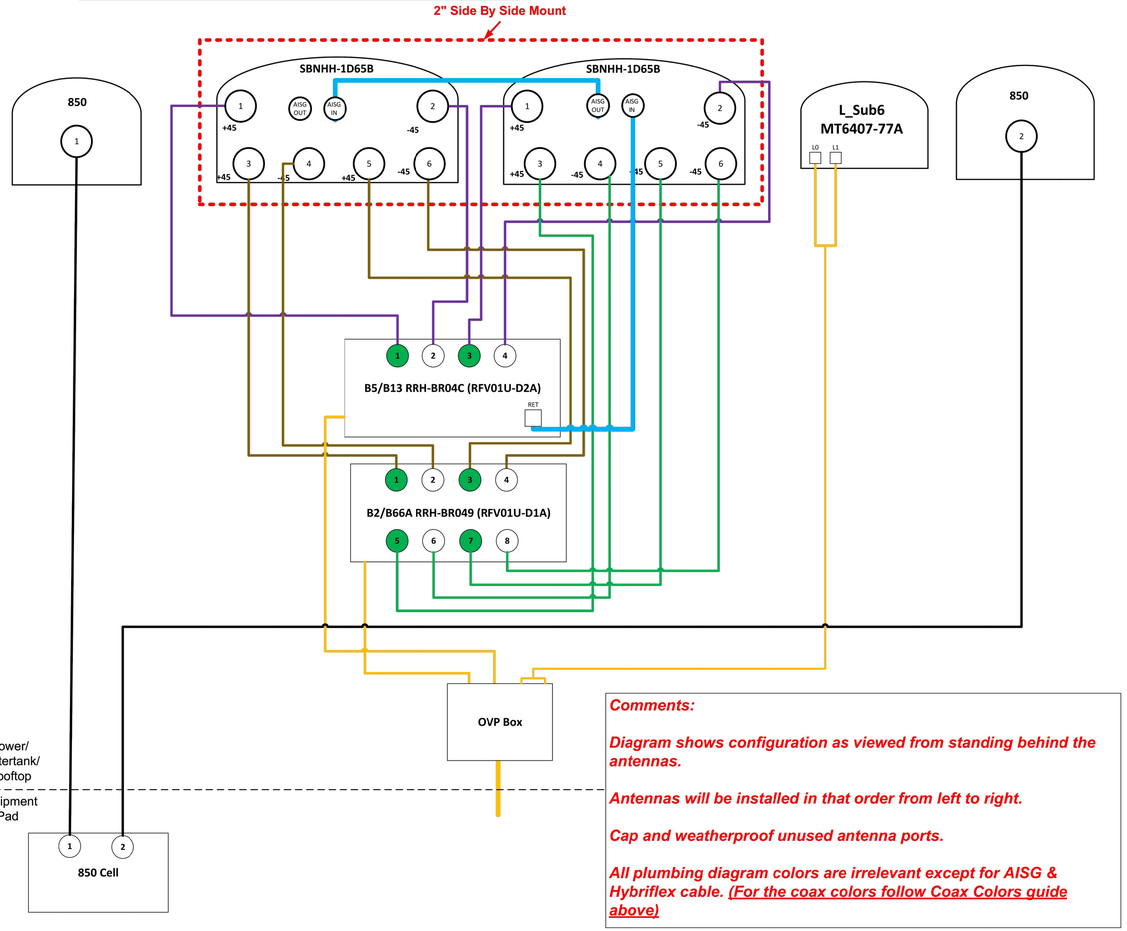
RET DC signal pass for RET
(Port that will control RET)

DC signal capable Port

AISG Cable

RET DC signal pass for RET
(Port that will control RET)

Hybriflex cables



Comments:

Diagram shows configuration as viewed from standing behind the antennas.

Antennas will be installed in that order from left to right.

Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)

1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

verizon
20 ALEXANDER DRIVE, 2ND FLOOR
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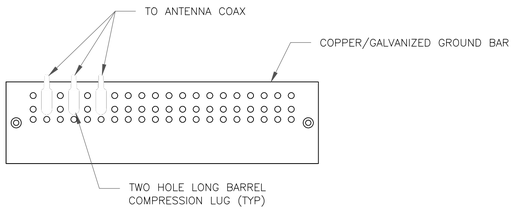
08/17/21

SHEET NUMBER: C-7

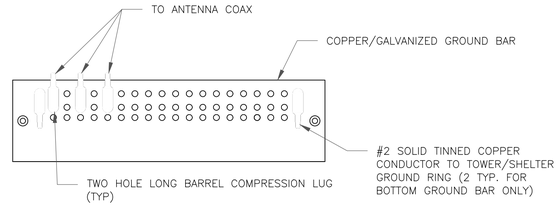
REVISION: 0



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

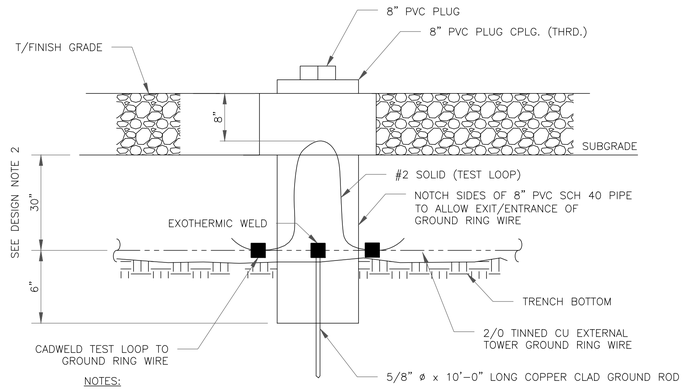
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

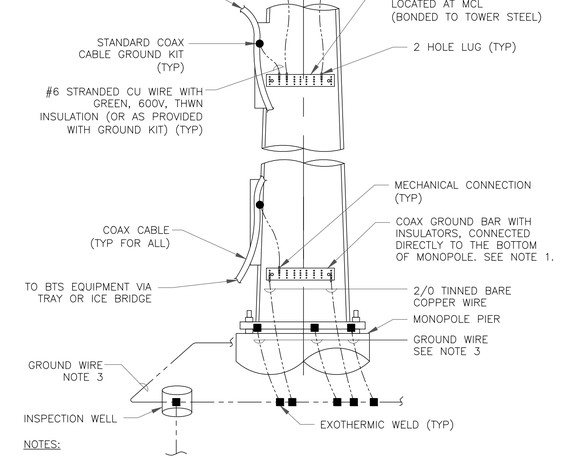
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

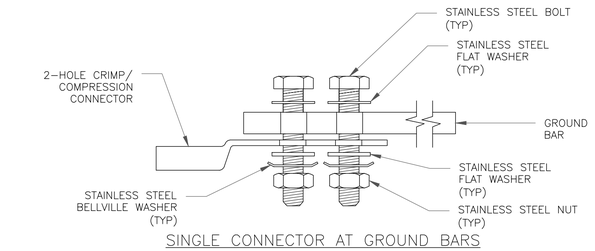
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



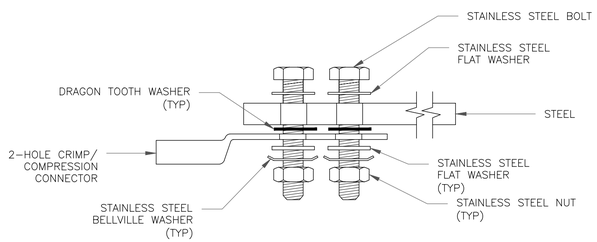
NOTES:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

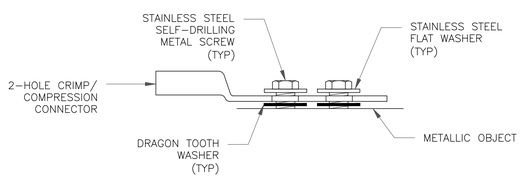
4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

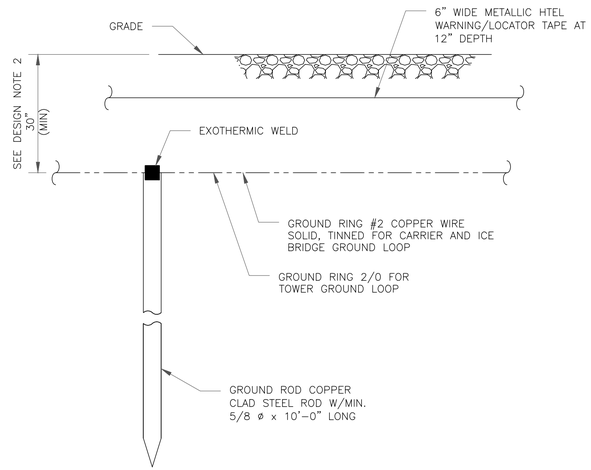


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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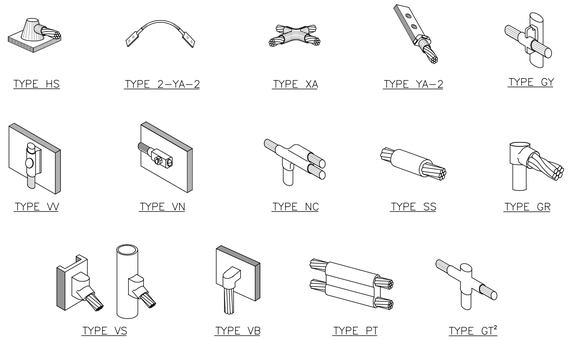
STATE OF CONNECTICUT · GRAHAM M. ANDRES · 29538 · LICENSED PROFESSIONAL ENGINEER

08/17/21

SHEET NUMBER: G-1

REVISION: 0

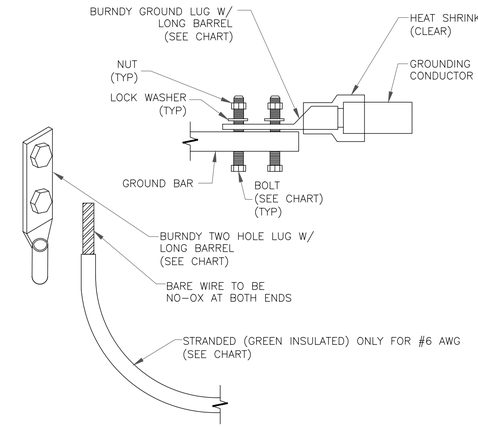


NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

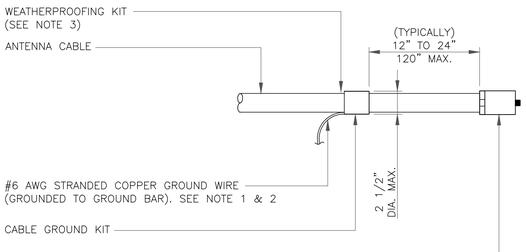
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER,GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

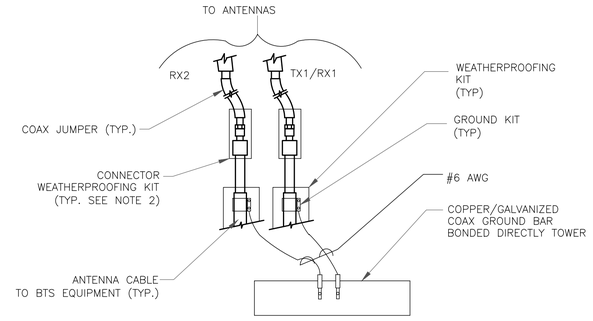
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

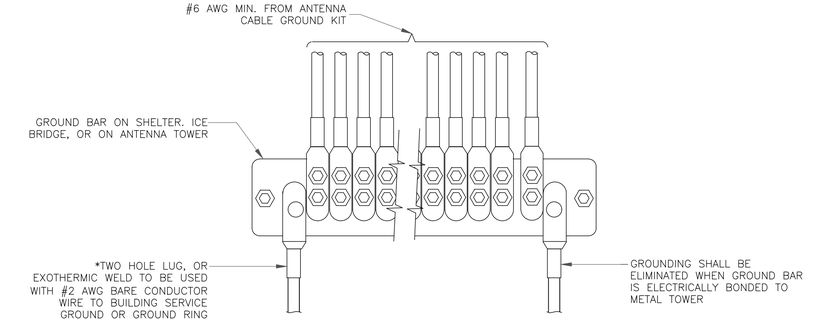
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



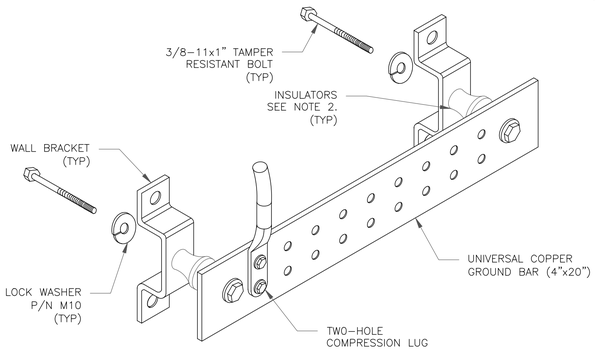
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



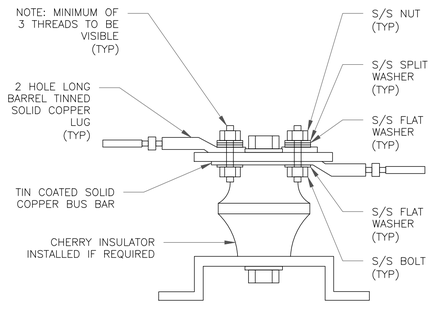
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



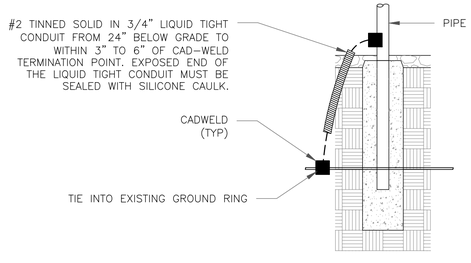
NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

verizon
20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

TEP JOB #: 25661.587818

VERIZON SITE NUMBER:
468084

BU #: **826768**
PLYMOUTH/RT 6

171 TOWN HILL ROAD
PLYMOUTH, CT 06786

EXISTING 169'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/17/21	JCH	CONSTRUCTION	JTC

08/17/21

SHEET NUMBER: G-2

REVISION: 0

MOUNT DESIGN DRAWINGS

SITE NAME:

PLYMOUTH/RT 6

CROWN CASTLE BU NUMBER:

826768

SITE ADDRESS:

171 TOWN HILL ROAD
PLYMOUTH, CT 06786
(LITCHFIELD COUNTY)
N 41°40'06.20", W 73°01'11.84"

MODIFICATION PROVISIONS

THE MODIFICATIONS DEPICTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE MOUNT MODIFICATION ANALYSIS REPORT COMPLETED BY TEP, JOB NO.: 25661.584643 DATED AUGUST 13, 2021 (REV 0).

ATTENTION ALL CONTRACTORS, ANYTIME YOU ACCESS A CROWN SITE FOR ANY REASON YOU ARE TO CALL THE CROWN NOC UPON ARRIVAL AND DEPARTURE, DAILY AT 800-788-7011.

QUALIFIED ENGINEERING SERVICES ARE AVAILABLE FROM TEP TO ASSIST CONTRACTORS IN CLASS IV RIGGING PLAN REVIEWS. FOR REQUESTED QUALIFIED ENGINEERING SERVICES, CONTACT TEP FOR QUOTE AT RIGGING@TEPGROUP.NET

SAFETY CLIMB: 'LOOK UP'

LOOK UP!

THE INTEGRITY OF THE WIRE ROPE SAFETY CLIMB SYSTEM SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. MOUNT REINFORCEMENTS AND EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF ANY WIRE ROPE SAFETY CLIMB 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, OR IMPACT TO THE ANCHORAGE POINTS IN ANY WAY. ANY COMPROMISED SAFETY CLIMB MUST BE REPORTED TO YOUR CROWN POC FOR RESOLUTION, INCLUDING EXISTING CONDITIONS.

INDEX OF SHEETS

PROJECT INFORMATION

TOWER HEIGHT:	169.0-FT
MOUNT ELEVATION:	142.0-FT
MOUNT WIDTH/TYPE:	13.5-FT/PLATFORM
JDE JOB NO.:	669335
ORDER NO.:	570318 REV. 0
DESIGN BUILDING CODE:	2018 CONNECTICUT STATE BUILDING CODE
DESIGN STANDARD:	TIA-222-H

PROJECT TEAM

CCI MODIFICATION PROJECT MANAGER:

NAME	CROWN CASTLE
CONTACT	DARCY TARR
PHONE	(704) 405-6589
EMAIL	DARCY.TARR@CROWNCASTLE.COM

ENGINEERING FIRM PROJECT MANAGER:

NAME	TOWER ENGINEERING PROFESSIONALS, INC.
CONTACT	RYAN W. TSCHETTER, P.E.
PHONE	(480) 750-9063
EMAIL	RWTSCHETTER@TEPGROUP.NET

PLANS PREPARED FOR:

CROWN CASTLE

6325 ARDREY KELL ROAD, SUITE 600
CHARLOTTE, NC 28277

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

STATE OF CONNECTICUT
AARON THOMAS RUCKER
32608
LICENSED
PROFESSIONAL ENGINEER

Electronic Copy

August 13, 2021

REV	DATE	ISSUED FOR:
0	08-13-21	MODIFICATION DRAWINGS

DRAWN BY: SCW | CHECKED BY: PHX

SHEET TITLE:

TITLE SHEET

SHEET NUMBER: **T-1**

REVISION: **0**

TEP#: 25661.584643

GENERAL NOTES:

1. THE CONTRACT DOCUMENTS ARE THE PROPERTY OF CROWN CASTLE (CROWN). THEY ARE PROVIDED TO THE GC AND ITS LOWER TIER CONTRACTORS AND MATERIAL SUPPLIERS FOR THE LIMITED PURPOSE OF USE IN COMPLETING THE WORK FOR THIS SITE, AND SHALL BE KEPT IN STRICT CONFIDENCE AND NOT DISCLOSED TO ANY THIRD PARTIES. THE CONTRACT DOCUMENTS SHALL NOT BE USED FOR ANY OTHER PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF CROWN.
2. DETAIL DRAWINGS, INCLUDING NOTES AND TABLES, SHALL GOVERN OVER GENERAL NOTES AND TYPICAL DETAILS. CONTACT THE CROWN POINT OF CONTACT (POC) AND ENGINEER OF RECORD (EOR) FOR CLARIFICATION AS NEEDED.
3. DO NOT SCALE DRAWINGS.
4. ANY WORK PERFORMED WITHOUT A PREFABRICATION MAPPING IS DONE AT THE RISK OF THE GC AND/OR FABRICATOR. ALL DIMENSIONS OF EXISTING STRUCTURAL ELEMENTS ARE ASSUMED BASED ON THE AVAILABLE DOCUMENTATION AND ARE PRELIMINARY UNTIL FIELD-VERIFIED BY THE GC, UNLESS NOTED OTHERWISE (UNO). WHERE DISCREPANCIES ARE FOUND, GC SHALL CONTACT THE CROWN POC AND EOR THROUGH RFI.
5. FOR THIS ANALYSIS AND MODIFICATION, THE MOUNT HAS BEEN ASSUMED TO BE IN GOOD CONDITION WITHOUT ANY STRUCTURAL DEFECTS, UNO. IF THE GC DISCOVERS ANY INDICATION OF AN EXISTING STRUCTURAL DEFECT, CONTACT THE CROWN POC AND EOR IMMEDIATELY.
6. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS, SHALL BE THE RESPONSIBILITY OF THE GC 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 STANDARD CED-STD-10253, "RIGGING PROGRAM", INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA-322 (LATEST EDITION).
7. THE STRUCTURAL INTEGRITY OF THE MODIFICATION DESIGN EXTENDS TO THE COMPLETE CONDITION ONLY. THE GC MUST BE COGNIZANT THAT THE REMOVAL OF ANY STRUCTURAL COMPONENT OF AN EXISTING TOWER HAS THE POTENTIAL TO CAUSE THE PARTIAL OR COMPLETE COLLAPSE OF THE STRUCTURE. ALL NECESSARY PRECAUTIONS MUST BE TAKEN TO ENSURE STRUCTURAL INTEGRITY, INCLUDING, BUT NOT LIMITED TO, ENGINEERING ASSESSMENT OF CONSTRUCTION STRESSES WITH INSTALLATION MAXIMUM WIND SPEED AND/OR TEMPORARY BRACING AND SHORING.
8. AERIAL AND UNDERGROUND UTILITIES AND FACILITIES MAY OR MAY NOT BE SHOWN ON THE DRAWINGS. THE GC SHALL TAKE EVERY PRECAUTION TO PRESERVE AND PROTECT THESE ITEMS, WHICH MAY INCLUDE AERIAL OR UNDERGROUND POWER LINES, TELEPHONE LINES, WATER LINES, SEWER LINES, CABLE TELEVISION FACILITIES, PIPELINES, STRUCTURES AND OTHER PUBLIC AND PRIVATE IMPROVEMENTS WITHIN OR ADJACENT TO THE WORK AREA. THE RESPONSIBILITY FOR DETERMINING THE ACTUAL ON-SITE LOCATION OF THESE ITEMS SHALL REST EXCLUSIVELY WITH THE GC.
9. ALL MANUFACTURER'S HARDWARE ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED, UNO. CONFLICTING NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR AND THE CROWN POC.
10. THE GC SHALL FABRICATE ALL REQUIRED ITEMS PER THE MATERIALS SPECIFIED BELOW, UNO ON THE DETAIL DRAWING SHEETS. IF THE GC FINDS FOR ANY COMPONENT THAT THE MATERIALS HAVE NOT BEEN CLEARLY SPECIFIED, THE GC SHALL SUBMIT AN RFI TO THE EOR TO CONFIRM THE REQUIRED MATERIAL.
11. CONTRACTOR PERSONNEL SHALL NOT DRILL HOLES IN ANY NEW OR EXISTING STRUCTURAL MEMBERS, OTHER THAN THOSE DRILLES HOLES SHOWN ON STRUCTURAL DRAWINGS, WITHOUT THE APPROVAL OF THE EOR.
12. FOR A LIST OF CROWN-APPROVED COLD GALVANIZING COMPOUNDS, REFER TO THE ENG-STD-10149, "TOWER PROTECTIVE COATINGS GUIDELINES".
13. ALL EXPOSES STRUCTURAL STEEL AS THE RESULT OF THIS SCOPE OF WORK INCLUDING BUT NOT LIMITED TO: FIELD DRILLED HOLES, AND SHAFT INTERIORS (WERE ACCESSIBLE), SHALL BE CLEANED AND TWO (2) COATS COLD GALVANIZING SHALL BE APPLIED BY BRUSH IN ACCORDANCE WITH ENG-STD-10149, "TOWER PROTECTIVE COATINGS GUIDELINES".
14. ALL TOWER GROUNDING AFFECTED BY THE WORK SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH OPS-STD-10090, "TOWER GROUNDING", AND OPS-BUL-10133, "GROUNDING REPAIR RECOMMENDATION".
15. ANY HARDWARE REMOVED FROM THE EXISTING TOWER SHALL BE REPLACED WITH NEW HARDWARE OF EQUAL SIZE AND QUALITY, UNO. NO EXISTING FASTENERS SHALL BE REUSED.
16. ALL JOINTS USING ASTM A325 OR A490 BOLTS, U-BOLTS, V-BOLTS, AND THREADED RODS SHALL BE SNUG TIGHTENED, UNO.
17. A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED SNUG TIGHTENED ASTM A325 OR A490 BOLTS, U-BOLTS, V-BOLTS, AND THREADED RODS.
18. ALL JOINTS ARE BEARING TYPE CONNECTIONS UNO. IF NO BOLT LENGTH IS GIVEN IN THE BILL OF MATERIALS, THE CONNECTION MAY INCLUDE THREADS IN THE SHEAR PLANES, AND THE GC IS RESPONSIBLE FOR SIZING THE LENGTH OF THE BOLT.
19. IF ASTM A325 OR A490 BOLTS, AND/OR THREADED RODS ARE SPECIFIED TO BE PRE-TENSIONED, THESE SHALL BE INSTALLED AND TIGHTENED TO THE PRE-TENSIONED CONDITION ACCORDING TO THE REQUIREMENTS OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM HIGH STRENGTH BOLTS.
20. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

PLANS PREPARED FOR:

CROWN CASTLE

6325 ARDREY KELL ROAD, SUITE 600
CHARLOTTE, NC 28277

PROJECT INFORMATION:

PLYMOUTH/RT 6
BU #: 826768
CARRIER: VERIZON
171 TOWN HILL ROAD
PLYMOUTH, CT 06786
(LITCHFIELD COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

Electronic Copy

August 13, 2021

REV	DATE	ISSUED FOR:
0	08-13-21	MODIFICATION DRAWINGS

DRAWN BY: SCW | CHECKED BY: PHX

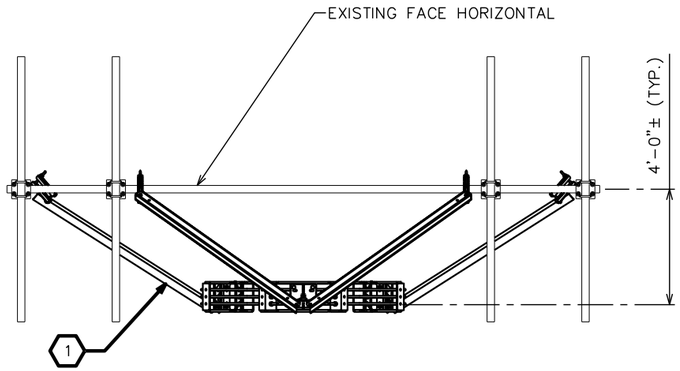
SHEET TITLE:

PROJECT NOTES

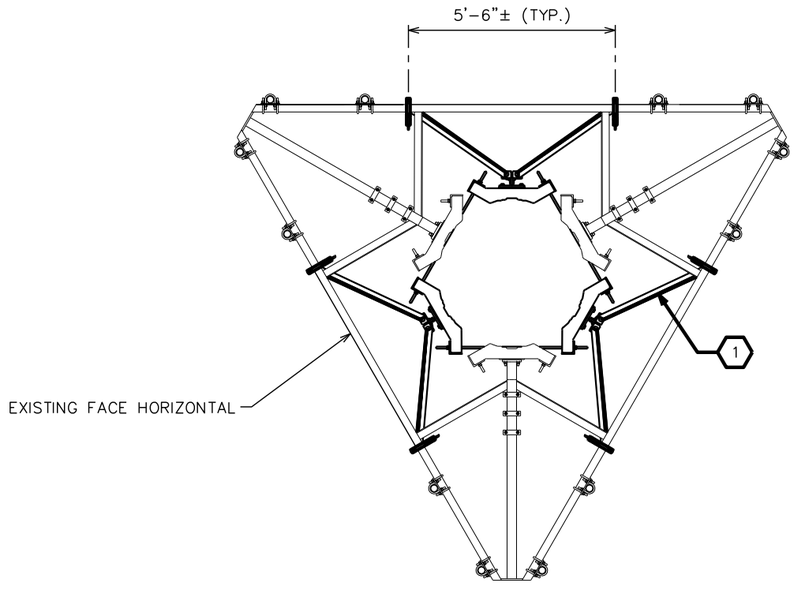
SHEET NUMBER: **N-1**

REVISION: **0**

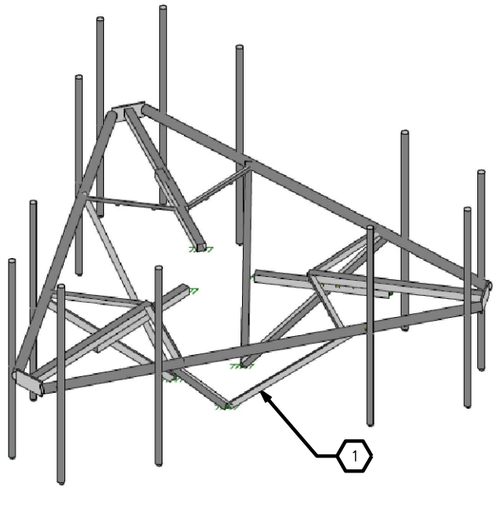
TEP#: 25661.584643



ELEVATION VIEW



PLAN VIEW



ISOMETRIC VIEW

MODIFICATION SCHEDULE

NO.	MODIFICATION DESCRIPTION	ELEVATION (FT.)	SHEET
1	ADD SITE PRO 1 PRK-SFS-L REINFORCEMENT KIT.	142	S-1

NOTES:

1. PRIOR TO FABRICATION, CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND QUANTITIES GIVEN. LENGTHS AND QUANTITIES PROVIDED ARE FOR QUOTING PURPOSES ONLY AND SHALL NOT BE USED FOR FABRICATION.
2. PROPER FIT-UP OF THE PROPOSED MODIFICATIONS MAY REQUIRE FIELD CUTTING/TRIMMING. CONTACT EOR FOR APPROVAL UNO.

BILL OF MATERIALS

MANUFACTURER	PART NUMBER	QUANTITY	NOTES
SITE PRO 1	PRK-SFS-L	1	1,2

NOTES:

1. CONTRACTOR MAY SUBSTITUTE EQUIVALENT PARTS WITH EOR APPROVAL.
2. UNO, CONNECTION HARDWARE IS INCLUDED WITH REINFORCEMENT KITS.

PLANS PREPARED FOR:

CROWN CASTLE

6325 ARDREY KELL ROAD, SUITE 600
CHARLOTTE, NC 28277

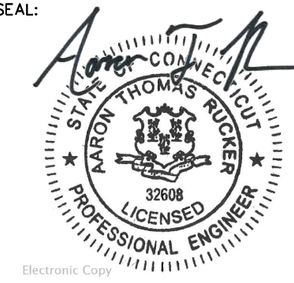
PROJECT INFORMATION:

PLYMOUTH/RT 6
BU #: 826768
CARRIER: VERIZON
171 TOWN HILL ROAD
PLYMOUTH, CT 06786
(LITCHFIELD COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



Electronic Copy

August 13, 2021

REV	DATE	ISSUED FOR:
0	08-13-21	MODIFICATION DRAWINGS

DRAWN BY: SCW | CHECKED BY: PHX

SHEET TITLE:

MOUNT MODIFICATION SCHEDULE

SHEET NUMBER: **S-1**

REVISION: **0**

TEP#: 25661.584643

Exhibit D

Structural Analysis Report

Date: **May 23, 2021**

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

Subject: Structural Analysis Report

Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	468084
	Site Name:	Plymouth CT
Crown Castle Designation:	**BU Number:**	826768
	Site Name:	Plymouth/RT 6
	JDE Job Number:	669335
	Work Order Number:	1967871
	Order Number:	570318 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	25661.548444
Site Data:	**171 Town Hill Road, Plymouth, Litchfield County, CT 06786**	
	Latitude *41° 40' 6.20"*, Longitude *-73° 1' 11.84"*	
	169 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:

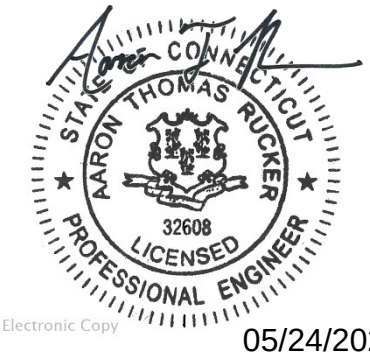
LC7: Proposed Equipment Configuration **Sufficient Capacity – 58.0%**

This analysis utilizes an ultimate 3-second gust wind speed of 120 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: Matthew G. Young, P.E. / CLT

Respectfully submitted by:

Aaron T. Rucker, P.E.



Electronic Copy

05/24/2021

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 169-ft monopole tower designed by Pirod, Inc.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 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)
142.0	142.0	3	Samsung Telecom.	MT6407-77A w/ Mount Pipe	8	1-5/8
		6	Antel	LPA-80080/6CF w/ Mount Pipe		
		6	Commscope	SBNHH-1D65B w/ Mount Pipe		
		3	Samsung Telecom.	RFV01U-D1A		
		3	Samsung Telecom.	RFV01U-D2A		
		2	RFS Celwave	DB-T1-6Z-8AB-0Z		
		3	Generic	Side by Side Mounting Kit		
		1	Tower Mounts	Platform Mount [LP 403-1]		

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)
164.0	168.0	3	RFI Antennas	COL45-70	7 3	7/8 1-5/8
	165.0	3	RFS Celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	Ericsson	AIR6449 B41 w/ Mount Pipe		
		3	Ericsson	AIR 32 B2A/B66AA w/ Mount Pipe		
		3	Ericsson	Radio 4449 B71 B85A_T-Mobile		
		3	Ericsson	RRUS 4415 B25		
	164.0	1	Tower Mounts	Platform Mount [LP 404-1_KCKR]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
155.0	155.0	3	RFS Celwave	APXVTM14-C-120 w/ Mount Pipe	4	1-1/4
		3	RFS Celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	Alcatel Lucent	TD-RRH8x20-25		
		3	Alcatel Lucent	800MHZ RRH		
		3	Alcatel Lucent	1900MHz RRH		
		1	Tower Mounts	Platform Mount [LP 305-1]		
121.0	125.0	1	RFS Celwave	201-4	1	1/2
	121.0	1	Tower Mounts	Side Arm Mount [SO 701-1]		
115.0	115.0	3	Powerwave Technologies	7770.00	3 6 12	3/8 5/8 1-5/8
		3	KMW Comm.	AM-X-CD-16-65-00T-RET		
		3	Kathrein	80010965		
		3	Quintel Technology	QS66512-2		
		6	Kaelus	DBCT108F1V92-1		
		3	Ericsson	RRUS 12 B2		
		3	CCI Antennas	DTMABP7819VG12A		
		3	Ericsson	RRUS 4478 B5		
		3	Ericsson	RRUS 4478 B14		
		3	Ericsson	WCS RRUS-32-B30		
		6	CCI Antennas	TPX-070821		
		3	Ericsson	RRUS 11		
		3	Ericsson	RRUS 4426 B66		
		2	Raycap	DC6-48-60-18-8F		
		1	Raycap	DC6-48-60-18-8C		
		1	Tower Mounts	Platform Mount [LP 301-1]		
105.0	105.0	3	RFS Celwave	APXV18-206517S-C w/ Mount Pipe	6	1-5/8
74.0	83.0	1	Decibel	DB810T3E-XT	1	7/8
	74.0	1	Tower Mounts	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Geotechnical Report	3491991	CCISites
Tower Foundation Drawings	3678682	CCISites
Tower Manufacturer Drawings	3491992	CCISites

3.1) Analysis Method

tnxTower (version 8.0.9.0), 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	169 - 164.25	Pole	TP26x18x0.25	1	-0.62	1060.11	1.1	Pass
L2	164.25 - 129.75	Pole	TP34.0625x21.5x0.3125	2	-15.79	1976.75	18.9	Pass
L3	129.75 - 96.08	Pole	TP41.75x32.1327x0.375	3	-28.15	2937.41	30.1	Pass
L4	96.08 - 63.25	Pole	TP49.0625x39.8023x0.375	4	-37.76	3460.30	41.8	Pass
L5	63.25 - 31.25	Pole	TP56.125x46.9543x0.375	5	-48.59	3964.20	50.3	Pass
L6	31.25 - 0	Pole	TP62.9375x53.8466x0.375	6	-63.20	4574.01	58.0	Pass
							Summary	
						Pole (L6)	58.0	Pass
						RATING =	**58.0**	**Pass**

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	-	55.7	Pass
1,2,3	Base Plate	-	58.0	Pass
1,2	Base Foundation Soil Interaction	-	39.5	Pass
1,2	Base Foundation Structural	-	51.0	Pass

Structure Rating (max from all components) =	**58.0%**

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
3) Base plates are assumed to have the same capacity as their respective splice bolts or shaft.

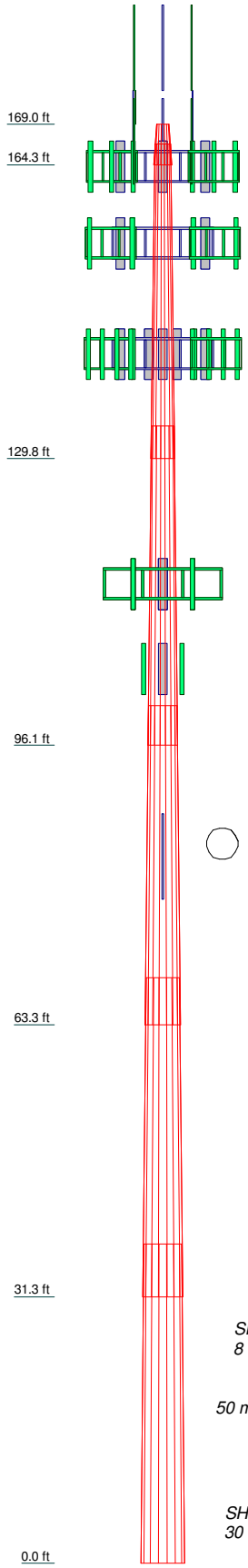
4.1) Recommendations

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	4.75	18	0.2500	2.38	18.0000	26.0000	A572-65	0.3
2	36.88	18	0.3125	3.83	21.5000	34.0625		3.4
3	37.50	18	0.3750	4.67	32.1327	41.7500		5.6
4	37.50	18	0.3750	5.50	39.8023	49.0625		6.7
5	37.50	18	0.3750	6.25	46.9543	56.1250		7.8
6	37.50	18	0.3750		53.8466	62.9375		8.8
								32.5



ALL REACTIONS ARE FACTORED

AXIAL 108 K

SHEAR 8 K

MOMENT 1026 kip-ft

TORQUE 1 kip-ft
50 mph WIND - 1.5000 in ICE

AXIAL 63 K

SHEAR 30 K

MOMENT 3475 kip-ft

TORQUE 2 kip-ft
REACTIONS - 120 mph WIND

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Litchfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 58%

Tower Engineering Professionals

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

Job: ***Plymouth/RT 6 (BU 826768)***			
Project: ***TEP No. 25661.548444***			
Client: Crown Castle	Drawn by: zschartraw	App'd:	
Code: TIA-222-H	Date: 05/23/21	Scale: NTS	
Path:		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 is located in Litchfield County, Connecticut.
Tower base elevation above sea level: 890.00 ft.
Basic wind speed of 120 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	169.00-164.25	4.75	2.38	18	18.0000	26.0000	0.2500	1.0000	A572-65 (65 ksi)
L2	164.25-129.75	36.88	3.83	18	21.5000	34.0625	0.3125	1.2500	A572-65 (65 ksi)
L3	129.75-96.08	37.50	4.67	18	32.1327	41.7500	0.3750	1.5000	A572-65 (65 ksi)
L4	96.08-63.25	37.50	5.50	18	39.8023	49.0625	0.3750	1.5000	A572-65 (65 ksi)
L5	63.25-31.25	37.50	6.25	18	46.9543	56.1250	0.3750	1.5000	A572-65 (65 ksi)
L6	31.25-0.00	37.50		18	53.8466	62.9375	0.3750	1.5000	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	18.2391	14.0846	560.6340	6.3012	9.1440	61.3117	1122.0058	7.0437	2.7280	10.912
	26.3625	20.4326	1711.6544	9.1412	13.2080	129.5922	3425.5610	10.2183	4.1360	16.544
L2	22.6051	21.0154	1191.8828	7.5216	10.9220	109.1268	2385.3338	10.5097	3.2340	10.349
	34.5398	33.4758	4817.4335	11.9812	17.3038	278.4040	9641.2058	16.7411	5.4450	17.424
L3	33.5680	37.7996	4816.4040	11.2740	16.3234	295.0611	9639.1455	18.9034	4.9954	13.321
	42.3362	49.2466	10650.9822	14.6881	21.2090	502.1916	21315.9793	24.6280	6.6880	17.835
L4	41.5295	46.9284	9216.5336	13.9967	20.2196	455.8222	18445.1946	23.4686	6.3452	16.921
	49.7615	57.9503	17355.1378	17.2841	24.9238	696.3293	34733.1119	28.9807	7.9750	21.267
L5	48.9866	55.4411	15196.9230	16.5357	23.8528	637.1126	30413.8426	27.7258	7.6040	20.277
	56.9330	66.3564	26056.1506	19.7913	28.5115	913.8821	52146.5865	33.1845	9.2180	24.581
L6	56.1579	63.6445	22990.2730	18.9824	27.3541	840.4705	46010.7971	31.8283	8.8170	23.512
	63.8506	74.4650	36822.8946	22.2097	31.9722	1151.7142	73694.2417	37.2396	10.4170	27.779

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 169.00-164.25				1	1	1			
L2 164.25-129.75				1	1	1			
L3 129.75-96.08				1	1	1			
L4 96.08-63.25				1	1	1			
L5 63.25-31.25				1	1	1			
L6 31.25-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
Safety Line 3/8	A	No	Surface Ar (CaAa)	169.00 - 0.00	1	1	-0.500 -0.500	0.3750		0.22
PiRod Ladder	A	No	Surface Af (CaAa)	169.00 - 0.00	1	1	-0.500 -0.500	0.5400	1.6965	2.00
*****121*****										
LDF4-50A(1/2)	A	No	Surface Ar (CaAa)	121.00 - 0.00	1	1	-0.250 -0.250	0.6250		0.15
LDF4-50A(1/2)	A	No	Surface Ar (CaAa)	121.00 - 0.00	1	1	0.000 0.000	0.6250		0.15
*****115*****										
LDF7-50A(1-5/8)	A	No	Surface Ar (CaAa)	115.00 - 0.00	12	6	0.250 0.250	1.9800		0.82
2" Flexible Conduit	A	No	Surface Ar (CaAa)	115.00 - 0.00	2	1	0.500 0.500	2.0000		0.34
*****105*****										
LDF7-50A(1-5/8)	B	No	Surface Ar (CaAa)	105.00 - 0.00	6	6	-0.250 -0.250	1.9800		0.82
*****74*****										
LDF5-50A(7/8)	A	No	Surface Ar (CaAa)	74.00 - 0.00	1	1	-0.250 -0.250	1.0900		0.33
*****										

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
*****164*****									
810921-701(7/8)	C	No	No	Inside Pole	164.00 - 0.00	7	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
HCS 6X12 4AWG(1-5/8)	C	No	No	Inside Pole	164.00 - 0.00	3	No Ice	0.00	2.40
							1/2" Ice	0.00	2.40
							1" Ice	0.00	2.40
							2" Ice	0.00	2.40
*****155*****									
HB114-1-08U4-M6 F(1-1/4)	C	No	No	Inside Pole	155.00 - 0.00	3	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30
HB114-21U3M12-X XXF(1-1/4)	C	No	No	Inside Pole	155.00 - 0.00	1	No Ice	0.00	1.22
							1/2" Ice	0.00	1.22
							1" Ice	0.00	1.22
							2" Ice	0.00	1.22
*****142*****									
HB158-1-08U8-S8J 18(1-5/8)	C	No	No	Inside Pole	142.00 - 0.00	2	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30
LDF7-50A(1-5/8)	C	No	No	Inside Pole	142.00 - 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)	A	No	No	Inside Pole	115.00 - 0.00	3	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
WR-VG82ST-BRD A(5/8) *****	A	No	No	Inside Pole	115.00 - 0.00	6	1" Ice	0.00	0.06
							2" Ice	0.00	0.06
							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

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	169.00-164.25	A	0.000	0.000	0.606	0.000	0.01
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
L2	164.25-129.75	A	0.000	0.000	4.399	0.000	0.08
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.55
L3	129.75-96.08	A	0.000	0.000	33.669	0.000	0.32
		B	0.000	0.000	10.597	0.000	0.04
		C	0.000	0.000	0.000	0.000	0.75
L4	96.08-63.25	A	0.000	0.000	55.029	0.000	0.50
		B	0.000	0.000	39.002	0.000	0.16
		C	0.000	0.000	0.000	0.000	0.73
L5	63.25-31.25	A	0.000	0.000	55.984	0.000	0.49
		B	0.000	0.000	38.016	0.000	0.16
		C	0.000	0.000	0.000	0.000	0.71
L6	31.25-0.00	A	0.000	0.000	54.672	0.000	0.48
		B	0.000	0.000	37.125	0.000	0.15
		C	0.000	0.000	0.000	0.000	0.69

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	169.00-164.25	A	1.499	0.000	0.000	3.454	0.000	0.05
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
L2	164.25-129.75	A	1.479	0.000	0.000	25.085	0.000	0.34
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.55
L3	129.75-96.08	A	1.441	0.000	0.000	86.554	0.000	1.45
		B		0.000	0.000	16.545	0.000	0.22
		C		0.000	0.000	0.000	0.000	0.75
L4	96.08-63.25	A	1.392	0.000	0.000	127.026	0.000	2.17
		B		0.000	0.000	60.582	0.000	0.78
		C		0.000	0.000	0.000	0.000	0.73
L5	63.25-31.25	A	1.322	0.000	0.000	130.078	0.000	2.14
		B		0.000	0.000	58.656	0.000	0.74

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
		C		0.000	0.000	0.000	0.000	0.71
L6	31.25-0.00	A	1.181	0.000	0.000	123.837	0.000	1.99
		B		0.000	0.000	56.731	0.000	0.69
		C		0.000	0.000	0.000	0.000	0.69

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	169.00-164.25	-0.4971	1.0572	-1.5012	2.3869
L2	164.25-129.75	-0.5039	1.0759	-1.6066	2.5624
L3	129.75-96.08	-1.8784	-5.1169	-3.1212	-3.1588
L4	96.08-63.25	-0.9946	-9.1788	-2.4285	-6.5648
L5	63.25-31.25	-1.3476	-9.6621	-3.0674	-6.9749
L6	31.25-0.00	-1.4132	-10.1642	-3.1913	-7.4693

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	1	Safety Line 3/8	164.25 - 169.00	1.0000	1.0000
L1	2	PiRod Ladder	164.25 - 169.00	1.0000	1.0000
L2	1	Safety Line 3/8	129.75 - 164.25	1.0000	1.0000
L2	2	PiRod Ladder	129.75 - 164.25	1.0000	1.0000
L3	1	Safety Line 3/8	96.08 - 129.75	1.0000	1.0000
L3	2	PiRod Ladder	96.08 - 129.75	1.0000	1.0000
L3	16	LDF4-50A(1/2)	96.08 - 121.00	1.0000	1.0000
L3	17	LDF4-50A(1/2)	96.08 - 121.00	1.0000	1.0000
L3	19	LDF7-50A(1-5/8)	96.08 - 115.00	1.0000	1.0000
L3	20	2" Flexible Conduit	96.08 - 115.00	1.0000	1.0000
L3	24	LDF7-50A(1-5/8)	96.08 - 105.00	1.0000	1.0000
L4	1	Safety Line 3/8	63.25 - 96.08	1.0000	1.0000
L4	2	PiRod Ladder	63.25 - 96.08	1.0000	1.0000
L4	16	LDF4-50A(1/2)	63.25 - 96.08	1.0000	1.0000
L4	17	LDF4-50A(1/2)	63.25 - 96.08	1.0000	1.0000
L4	19	LDF7-50A(1-5/8)	63.25 - 96.08	1.0000	1.0000
L4	20	2" Flexible Conduit	63.25 - 96.08	1.0000	1.0000
L4	24	LDF7-50A(1-5/8)	63.25 - 96.08	1.0000	1.0000
L4	26	LDF5-50A(7/8)	63.25 - 74.00	1.0000	1.0000
L5	1	Safety Line 3/8	31.25 - 63.25	1.0000	1.0000
L5	2	PiRod Ladder	31.25 - 63.25	1.0000	1.0000
L5	16	LDF4-50A(1/2)	31.25 - 63.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L5	17	LDF4-50A(1/2)	31.25 - 63.25	1.0000	1.0000
L5	19	LDF7-50A(1-5/8)	31.25 - 63.25	1.0000	1.0000
L5	20	2" Flexible Conduit	31.25 - 63.25	1.0000	1.0000
L5	24	LDF7-50A(1-5/8)	31.25 - 63.25	1.0000	1.0000
L5	26	LDF5-50A(7/8)	31.25 - 63.25	1.0000	1.0000
L6	1	Safety Line 3/8	0.00 - 31.25	1.0000	1.0000
L6	2	PiRod Ladder	0.00 - 31.25	1.0000	1.0000
L6	16	LDF4-50A(1/2)	0.00 - 31.25	1.0000	1.0000
L6	17	LDF4-50A(1/2)	0.00 - 31.25	1.0000	1.0000
L6	19	LDF7-50A(1-5/8)	0.00 - 31.25	1.0000	1.0000
L6	20	2" Flexible Conduit	0.00 - 31.25	1.0000	1.0000
L6	24	LDF7-50A(1-5/8)	0.00 - 31.25	1.0000	1.0000
L6	26	LDF5-50A(7/8)	0.00 - 31.25	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L1	2	PiRod Ladder	164.25 - 169.00	Manual	1.0000
L2	2	PiRod Ladder	129.75 - 164.25	Manual	1.0000
L3	2	PiRod Ladder	96.08 - 129.75	Manual	1.0000
L4	2	PiRod Ladder	63.25 - 96.08	Manual	1.0000
L5	2	PiRod Ladder	31.25 - 63.25	Manual	1.0000
L6	2	PiRod Ladder	0.00 - 31.25	Manual	1.0000

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
Lightning Rod 5/8"x4'	C	From Leg	3.00 0.00 2.00	0.0000	169.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.25 0.66 0.97 1.49	0.25 0.66 0.97 1.49	0.00 0.01 0.01 0.03
8'x3" Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.80 3.41 3.89 4.90	2.80 3.41 3.89 4.90	0.06 0.08 0.11 0.17
***									
15' Omni	A	From Leg	3.00	0.0000	167.00	No Ice	4.13	4.13	0.04

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
			0.00			1/2" Ice	5.66	5.66	0.07
			11.00			1" Ice	7.20	7.20	0.10
						2" Ice	10.35	10.35	0.21
15' Omni	B	From Leg	3.00	0.0000	167.00	No Ice	4.13	4.13	0.04
			0.00			1/2" Ice	5.66	5.66	0.07
			11.00			1" Ice	7.20	7.20	0.10
						2" Ice	10.35	10.35	0.21
15' Omni	C	From Leg	3.00	0.0000	167.00	No Ice	4.13	4.13	0.04
			0.00			1/2" Ice	5.66	5.66	0.07
			11.00			1" Ice	7.20	7.20	0.10
						2" Ice	10.35	10.35	0.21
2.4" Dia x 6-ft Pipe	A	From Leg	3.00	0.0000	167.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.93	1.93	0.03
			0.00			1" Ice	2.30	2.30	0.05
						2" Ice	3.06	3.06	0.09
2.4" Dia x 6-ft Pipe	B	From Leg	3.00	0.0000	167.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.93	1.93	0.03
			0.00			1" Ice	2.30	2.30	0.05
						2" Ice	3.06	3.06	0.09
2.4" Dia x 6-ft Pipe	C	From Leg	3.00	0.0000	167.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.93	1.93	0.03
			0.00			1" Ice	2.30	2.30	0.05
						2" Ice	3.06	3.06	0.09
Side Arm Mount [SO 701-3]	C	None		0.0000	167.00	No Ice	3.02	3.02	0.20
						1/2" Ice	4.18	4.18	0.24
						1" Ice	5.33	5.33	0.28
						2" Ice	7.63	7.63	0.36
*****164*****									
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Centroid-Face	4.00	0.0000	164.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			1.00			1" Ice	16.23	8.25	0.46
						2" Ice	17.82	9.67	0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Centroid-Face	4.00	0.0000	164.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			1.00			1" Ice	16.23	8.25	0.46
						2" Ice	17.82	9.67	0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Centroid-Face	4.00	0.0000	164.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			1.00			1" Ice	16.23	8.25	0.46
						2" Ice	17.82	9.67	0.79
AIR6449 B41 w/ Mount Pipe	A	From Centroid-Face	4.00	0.0000	164.00	No Ice	5.18	2.72	0.12
			0.00			1/2" Ice	5.59	3.05	0.16
			1.00			1" Ice	6.01	3.39	0.22
						2" Ice	6.90	4.13	0.34
AIR6449 B41 w/ Mount Pipe	B	From Centroid-Face	4.00	0.0000	164.00	No Ice	5.18	2.72	0.12
			0.00			1/2" Ice	5.59	3.05	0.16
			1.00			1" Ice	6.01	3.39	0.22
						2" Ice	6.90	4.13	0.34
AIR6449 B41 w/ Mount Pipe	C	From Centroid-Face	4.00	0.0000	164.00	No Ice	5.18	2.72	0.12
			0.00			1/2" Ice	5.59	3.05	0.16
			1.00			1" Ice	6.01	3.39	0.22
						2" Ice	6.90	4.13	0.34
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Centroid-Face	4.00	0.0000	164.00	No Ice	3.76	3.15	0.19
			0.00			1/2" Ice	4.12	3.49	0.25
			1.00			1" Ice	4.48	3.84	0.32
						2" Ice	5.24	4.58	0.48
AIR 32 B2A/B66AA w/	B	From	4.00	0.0000	164.00	No Ice	3.76	3.15	0.19

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
Mount Pipe		Centroid-Face	0.00 1.00			1/2" Ice 1" Ice 2" Ice	4.12 4.48 5.24	3.49 3.84 4.58	0.25 0.32 0.48
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Centroid-Face	4.00 0.00 1.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.76 4.12 4.48 5.24	3.15 3.49 3.84 4.58	0.19 0.25 0.32 0.48
RADIO 4449 B71 B85A_T-MOBILE	A	From Centroid-Face	4.00 0.00 1.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	B	From Centroid-Face	4.00 0.00 1.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	C	From Centroid-Face	4.00 0.00 1.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RRUS 4415 B25	A	From Centroid-Face	4.00 0.00 1.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.33	0.68 0.79 0.91 1.18	0.04 0.06 0.07 0.11
RRUS 4415 B25	B	From Centroid-Face	4.00 0.00 1.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.33	0.68 0.79 0.91 1.18	0.04 0.06 0.07 0.11
RRUS 4415 B25	C	From Centroid-Face	4.00 0.00 1.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.33	0.68 0.79 0.91 1.18	0.04 0.06 0.07 0.11
(2) 2.4" Dia x 4-ft Mount Pipe	A	From Centroid-Face	4.00 0.00 0.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.12 1.37 1.91	0.87 1.12 1.37 1.91	0.01 0.02 0.03 0.06
(2) 2.4" Dia x 4-ft Mount Pipe	B	From Centroid-Face	4.00 0.00 0.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.12 1.37 1.91	0.87 1.12 1.37 1.91	0.01 0.02 0.03 0.06
(2) 2.4" Dia x 4-ft Mount Pipe	C	From Centroid-Face	4.00 0.00 0.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.12 1.37 1.91	0.87 1.12 1.37 1.91	0.01 0.02 0.03 0.06
Platform Mount [LP 404-1_KCKR]	C	None		0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	35.82 45.85 55.76 75.77	35.82 45.85 55.76 75.77	2.32 3.02 3.89 6.14
Plymouth COL45-70	B	From Centroid-Face	4.00 0.00 4.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.38 2.32 3.27 4.82	1.38 2.32 3.27 4.82	0.01 0.02 0.03 0.09
COL45-70	B	From Centroid-Face	4.00 0.00 4.00	0.0000	164.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.38 2.32 3.27 4.82	1.38 2.32 3.27 4.82	0.01 0.02 0.03 0.09
COL45-70	A	From	4.00	0.0000	164.00	No Ice	1.38	1.38	0.01

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-Face	0.00 4.00			1/2" Ice 1" Ice 2" Ice	2.32 3.27 4.82	2.32 3.27 4.82	0.02 0.03 0.09
*****155*****									
APXVTM14-C-120 w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	0.08 0.13 0.19 0.33
APXVTM14-C-120 w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	0.08 0.13 0.19 0.33
APXVTM14-C-120 w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	0.08 0.13 0.19 0.33
APXVSPP18-C-A20 w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	0.10 0.16 0.23 0.42
APXVSPP18-C-A20 w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	0.10 0.16 0.23 0.42
APXVSPP18-C-A20 w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	0.10 0.16 0.23 0.42
TD-RRH8x20-25	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.70 3.95 4.20 4.72	1.29 1.46 1.64 2.02	0.07 0.09 0.12 0.18
TD-RRH8x20-25	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.70 3.95 4.20 4.72	1.29 1.46 1.64 2.02	0.07 0.09 0.12 0.18
TD-RRH8x20-25	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.70 3.95 4.20 4.72	1.29 1.46 1.64 2.02	0.07 0.09 0.12 0.18
800MHZ RRH	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	0.05 0.07 0.10 0.16
800MHZ RRH	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	0.05 0.07 0.10 0.16
800MHZ RRH	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	0.05 0.07 0.10 0.16
1900MHz RRH	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.49 2.70 2.91 3.35	3.26 3.48 3.72 4.21	0.04 0.08 0.11 0.19
1900MHz RRH	B	From	4.00	0.0000	155.00	No Ice	2.49	3.26	0.04

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	2.70 2.91 3.35	3.48 3.72 4.21	0.08 0.11 0.19
1900MHz RRH	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.49 2.70 2.91 3.35	3.26 3.48 3.72 4.21	0.04 0.08 0.11 0.19
2.4" Dia x 6-ft Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.93 2.30 3.06	1.43 1.93 2.30 3.06	0.02 0.03 0.05 0.09
2.4" Dia x 6-ft Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.93 2.30 3.06	1.43 1.93 2.30 3.06	0.02 0.03 0.05 0.09
2.4" Dia x 6-ft Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.93 2.30 3.06	1.43 1.93 2.30 3.06	0.02 0.03 0.05 0.09
Platform Mount [LP 305-1]	C	None		0.0000	155.00	No Ice 1/2" Ice 1" Ice 2" Ice	18.04 22.04 26.06 34.16	18.04 22.04 26.06 34.16	1.12 1.47 1.88 2.90
*****142*****									
MT6407-77A w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	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	142.00	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	142.00	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) LPA-80080/6CF w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.93 5.58 6.16 7.33	10.92 12.21 13.16 15.11	0.07 0.14 0.22 0.41
(2) LPA-80080/6CF w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.93 5.58 6.16 7.33	10.92 12.21 13.16 15.11	0.07 0.14 0.22 0.41
(2) LPA-80080/6CF w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.93 5.58 6.16 7.33	10.92 12.21 13.16 15.11	0.07 0.14 0.22 0.41
(2) SBNHH-1D65B w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.72	3.30 3.68 4.07 4.87	0.07 0.13 0.20 0.39
(2) SBNHH-1D65B w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.72	3.30 3.68 4.07 4.87	0.07 0.13 0.20 0.39
(2) SBNHH-1D65B w/	C	From	4.00	0.0000	142.00	No Ice	4.09	3.30	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
Mount Pipe		Centroid-Leg	0.00 0.00			1/2" Ice 1" Ice 2" Ice	4.49 4.89 5.72	3.68 4.07 4.87	0.13 0.20 0.39
(2) RFV01U-D1A	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18
(2) RFV01U-D2A	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
RFV01U-D1A	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18
RFV01U-D2A	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
DB-T1-6Z-8AB-0Z	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.80 5.07 5.35 5.93	2.00 2.19 2.39 2.81	0.04 0.08 0.12 0.21
DB-T1-6Z-8AB-0Z	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.80 5.07 5.35 5.93	2.00 2.19 2.39 2.81	0.04 0.08 0.12 0.21
Platform Mount [LP 403-1]	C	None		0.0000	142.00	No Ice 1/2" Ice 1" Ice 2" Ice	18.94 23.31 27.74 36.77	18.94 23.31 27.74 36.77	1.50 1.90 2.37 3.53
*****121*****									
201-4	A	From Leg	3.00 0.00 4.00	0.0000	121.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.13 2.00 2.90 4.31	1.13 2.00 2.90 4.31	0.00 0.01 0.03 0.08
2.4" Dia x 4-ft Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	121.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.12 1.37 1.91	0.87 1.12 1.37 1.91	0.01 0.02 0.03 0.06
Side Arm Mount [SO 701-1]	A	From Leg	1.50 0.00 0.00	0.0000	121.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.85 1.14 1.43 2.01	1.67 2.34 3.01 4.35	0.07 0.08 0.09 0.12
*****115*****									
7770.00	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.51 5.87 6.23 6.99	2.93 3.27 3.63 4.35	0.04 0.07 0.11 0.20
7770.00	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.51 5.87 6.23 6.99	2.93 3.27 3.63 4.35	0.04 0.07 0.11 0.20
7770.00	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.51 5.87 6.23 6.99	2.93 3.27 3.63 4.35	0.04 0.07 0.11 0.20

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
AM-X-CD-16-65-00T-RET	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.69 5.15 5.61 6.57	2.34 2.77 3.20 4.10	0.05 0.10 0.15 0.27
AM-X-CD-16-65-00T-RET	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.69 5.15 5.61 6.57	2.34 2.77 3.20 4.10	0.05 0.10 0.15 0.27
AM-X-CD-16-65-00T-RET	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.69 5.15 5.61 6.57	2.34 2.77 3.20 4.10	0.05 0.10 0.15 0.27
80010965	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.23 13.00 13.79 15.41	4.21 4.88 5.57 6.99	0.11 0.19 0.27 0.46
80010965	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.23 13.00 13.79 15.41	4.21 4.88 5.57 6.99	0.11 0.19 0.27 0.46
80010965	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.23 13.00 13.79 15.41	4.21 4.88 5.57 6.99	0.11 0.19 0.27 0.46
QS66512-2	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.01 4.41 4.81 5.65	3.37 3.76 4.15 4.97	0.11 0.17 0.23 0.38
QS66512-2	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.01 4.41 4.81 5.65	3.37 3.76 4.15 4.97	0.11 0.17 0.23 0.38
QS66512-2	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.01 4.41 4.81 5.65	3.37 3.76 4.15 4.97	0.11 0.17 0.23 0.38
(3) DBCT108F1V92-1	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.64 0.74 0.85 1.09	0.60 0.71 0.81 1.05	0.03 0.04 0.04 0.07
(2) DBCT108F1V92-1	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.64 0.74 0.85 1.09	0.60 0.71 0.81 1.05	0.03 0.04 0.04 0.07
DBCT108F1V92-1	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.64 0.74 0.85 1.09	0.60 0.71 0.81 1.05	0.03 0.04 0.04 0.07
RRUS 12 B2	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.15 3.36 3.59 4.07	1.29 1.44 1.60 1.95	0.05 0.07 0.10 0.16
RRUS 12 B2	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.15 3.36 3.59 4.07	1.29 1.44 1.60 1.95	0.05 0.07 0.10 0.16
RRUS 12 B2	C	From	4.00	0.0000	115.00	No Ice	3.15	1.29	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
		Centroid-Leg	0.00 0.00			1/2" Ice 1" Ice 2" Ice	3.36 3.59 4.07	1.44 1.60 1.95	0.07 0.10 0.16
DTMABP7819VG12A	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.98 1.10 1.23 1.52	0.34 0.42 0.51 0.71	0.02 0.03 0.04 0.06
DTMABP7819VG12A	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.98 1.10 1.23 1.52	0.34 0.42 0.51 0.71	0.02 0.03 0.04 0.06
DTMABP7819VG12A	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.98 1.10 1.23 1.52	0.34 0.42 0.51 0.71	0.02 0.03 0.04 0.06
RRUS 4478 B5	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	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 B5	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	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 B5	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	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	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	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
(2) RRUS 4478 B14	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	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
WCS RRUS-32-B30	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.31 3.56 3.81 4.33	2.42 2.64 2.86 3.32	0.08 0.10 0.14 0.21
WCS RRUS-32-B30	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.31 3.56 3.81 4.33	2.42 2.64 2.86 3.32	0.08 0.10 0.14 0.21
WCS RRUS-32-B30	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.31 3.56 3.81 4.33	2.42 2.64 2.86 3.32	0.08 0.10 0.14 0.21
(2) TPX-070821	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.47 0.56 0.66 0.87	0.10 0.15 0.20 0.33	0.01 0.01 0.02 0.03
(2) TPX-070821	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	115.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.47 0.56 0.66 0.87	0.10 0.15 0.20 0.33	0.01 0.01 0.02 0.03
(2) TPX-070821	C	From Centroid-Leg	4.00 0.00	0.0000	115.00	No Ice 1/2" Ice	0.47 0.56	0.10 0.15	0.01 0.01

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
		g	0.00			1" Ice	0.66	0.20	0.02
						2" Ice	0.87	0.33	0.03
(2) RRUS 11	B	From	4.00	0.0000	115.00	No Ice	2.79	1.19	0.05
		Centroid-Le	0.00			1/2" Ice	3.00	1.34	0.07
		g	0.00			1" Ice	3.21	1.50	0.10
						2" Ice	3.67	1.84	0.15
RRUS 11	C	From	4.00	0.0000	115.00	No Ice	2.79	1.19	0.05
		Centroid-Le	0.00			1/2" Ice	3.00	1.34	0.07
		g	0.00			1" Ice	3.21	1.50	0.10
						2" Ice	3.67	1.84	0.15
RRUS 4426 B66	B	From	4.00	0.0000	115.00	No Ice	1.64	0.73	0.05
		Centroid-Le	0.00			1/2" Ice	1.80	0.84	0.06
		g	0.00			1" Ice	1.97	0.97	0.08
						2" Ice	2.33	1.24	0.11
(2) RRUS 4426 B66	C	From	4.00	0.0000	115.00	No Ice	1.64	0.73	0.05
		Centroid-Le	0.00			1/2" Ice	1.80	0.84	0.06
		g	0.00			1" Ice	1.97	0.97	0.08
						2" Ice	2.33	1.24	0.11
DC6-48-60-18-8F	A	From	4.00	0.0000	115.00	No Ice	1.21	1.21	0.03
		Centroid-Le	0.00			1/2" Ice	1.89	1.89	0.05
		g	0.00			1" Ice	2.11	2.11	0.08
						2" Ice	2.57	2.57	0.14
DC6-48-60-18-8F	B	From	4.00	0.0000	115.00	No Ice	1.21	1.21	0.03
		Centroid-Le	0.00			1/2" Ice	1.89	1.89	0.05
		g	0.00			1" Ice	2.11	2.11	0.08
						2" Ice	2.57	2.57	0.14
DC6-48-60-18-8C	B	From	4.00	0.0000	115.00	No Ice	1.14	1.14	0.03
		Centroid-Le	0.00			1/2" Ice	1.79	1.79	0.05
		g	0.00			1" Ice	2.00	2.00	0.07
						2" Ice	2.45	2.45	0.13
2.4" Dia x 4-ft Mount Pipe	A	From Leg	1.00	0.0000	115.00	No Ice	0.87	0.87	0.01
			0.00			1/2" Ice	1.12	1.12	0.02
			0.00			1" Ice	1.37	1.37	0.03
						2" Ice	1.91	1.91	0.06
2.4" Dia x 4-ft Mount Pipe	B	From Leg	1.00	0.0000	115.00	No Ice	0.87	0.87	0.01
			0.00			1/2" Ice	1.12	1.12	0.02
			0.00			1" Ice	1.37	1.37	0.03
						2" Ice	1.91	1.91	0.06
2.4" Dia x 4-ft Mount Pipe	C	From Leg	1.00	0.0000	115.00	No Ice	0.87	0.87	0.01
			0.00			1/2" Ice	1.12	1.12	0.02
			0.00			1" Ice	1.37	1.37	0.03
						2" Ice	1.91	1.91	0.06
Platform Mount [LP 301-1]	C	None		0.0000	115.00	No Ice	23.81	23.81	1.59
						1/2" Ice	30.24	30.24	2.10
						1" Ice	36.33	36.33	2.73
						2" Ice	48.05	48.05	4.34
*****105*****									
APXV18-206517S-C w/ Mount Pipe	A	From Leg	1.00	0.0000	105.00	No Ice	3.79	3.16	0.05
			0.00			1/2" Ice	4.38	3.75	0.09
			0.00			1" Ice	4.99	4.35	0.15
						2" Ice	6.25	5.59	0.28
APXV18-206517S-C w/ Mount Pipe	B	From Leg	1.00	0.0000	105.00	No Ice	3.79	3.16	0.05
			0.00			1/2" Ice	4.38	3.75	0.09
			0.00			1" Ice	4.99	4.35	0.15
						2" Ice	6.25	5.59	0.28
APXV18-206517S-C w/ Mount Pipe	C	From Leg	1.00	0.0000	105.00	No Ice	3.79	3.16	0.05
			0.00			1/2" Ice	4.38	3.75	0.09

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
			0.00			1" Ice	4.99	4.35	0.15
						2" Ice	6.25	5.59	0.28
*****74*****									
DB810T3E-XT	A	From Leg	3.00	0.0000	74.00	No Ice	4.53	4.53	0.05
			0.00			1/2" Ice	6.07	6.07	0.08
			9.00			1" Ice	7.63	7.63	0.12
						2" Ice	10.79	10.79	0.24
2.4" Dia x 6-ft Pipe	A	From Leg	3.00	0.0000	74.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.93	1.93	0.03
			2.00			1" Ice	2.30	2.30	0.05
						2" Ice	3.06	3.06	0.09
Side Arm Mount [SO 701-1]	A	From Leg	1.50	0.0000	74.00	No Ice	0.85	1.67	0.07
			0.00			1/2" Ice	1.14	2.34	0.08
			0.00			1" Ice	1.43	3.01	0.09
						2" Ice	2.01	4.35	0.12
****									

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	169 - 164.25 (1)	TP26x18x0.25	4.75	0.00	0.0	17.2586	-0.62	1009.63	0.001
L2	164.25 - 129.75 (2)	TP34.0625x21.5x0.3125	36.88	0.00	0.0	32.1816	-15.79	1882.62	0.008
L3	129.75 - 96.08 (3)	TP41.75x32.1327x0.375	37.50	0.00	0.0	47.8211	-28.15	2797.53	0.010
L4	96.08 - 63.25 (4)	TP49.0625x39.8023x0.375	37.50	0.00	0.0	56.3337	-37.76	3295.52	0.011
L5	63.25 - 31.25 (5)	TP56.125x46.9543x0.375	37.50	0.00	0.0	64.5372	-48.59	3775.43	0.013
L6	31.25 - 0 (6)	TP62.9375x53.8466x0.375	37.50	0.00	0.0	74.4650	-63.20	4356.20	0.015

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	169 - 164.25 (1)	TP26x18x0.25	6.46	571.42	0.011	0.00	571.42	0.000
L2	164.25 -	TP34.0625x21.5x0.3125	294.81	1557.39	0.189	0.00	1557.39	0.000

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 $\frac{M_{uy}}{\phi M_{ny}}$
L3	129.75 (2) 129.75 - 96.08 (3)	TP41.75x32.1327x0.375	866.92	2842.24	0.305	0.00	2842.24	0.000
L4	96.08 - 63.25 (4)	TP49.0625x39.8023x0.375	1603.72	3754.93	0.427	0.00	3754.93	0.000
L5	63.25 - 31.25 (5)	TP56.125x46.9543x0.375	2411.44	4686.48	0.515	0.00	4686.48	0.000
L6	31.25 - 0 (6)	TP62.9375x53.8466x0.375	3474.68	5847.24	0.594	0.00	5847.24	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	169 - 164.25 (1)	TP26x18x0.25	1.09	302.89	0.004	0.00	576.93	0.000
L2	164.25 - 129.75 (2)	TP34.0625x21.5x0.3125	14.04	564.79	0.025	0.45	1604.78	0.000
L3	129.75 - 96.08 (3)	TP41.75x32.1327x0.375	21.54	839.26	0.026	0.62	2952.96	0.000
L4	96.08 - 63.25 (4)	TP49.0625x39.8023x0.375	24.55	988.66	0.025	1.61	4097.85	0.000
L5	63.25 - 31.25 (5)	TP56.125x46.9543x0.375	27.02	1132.63	0.024	1.61	5378.23	0.000
L6	31.25 - 0 (6)	TP62.9375x53.8466x0.375	29.60	1306.86	0.023	1.61	7160.17	0.000

Pole Interaction Design Data

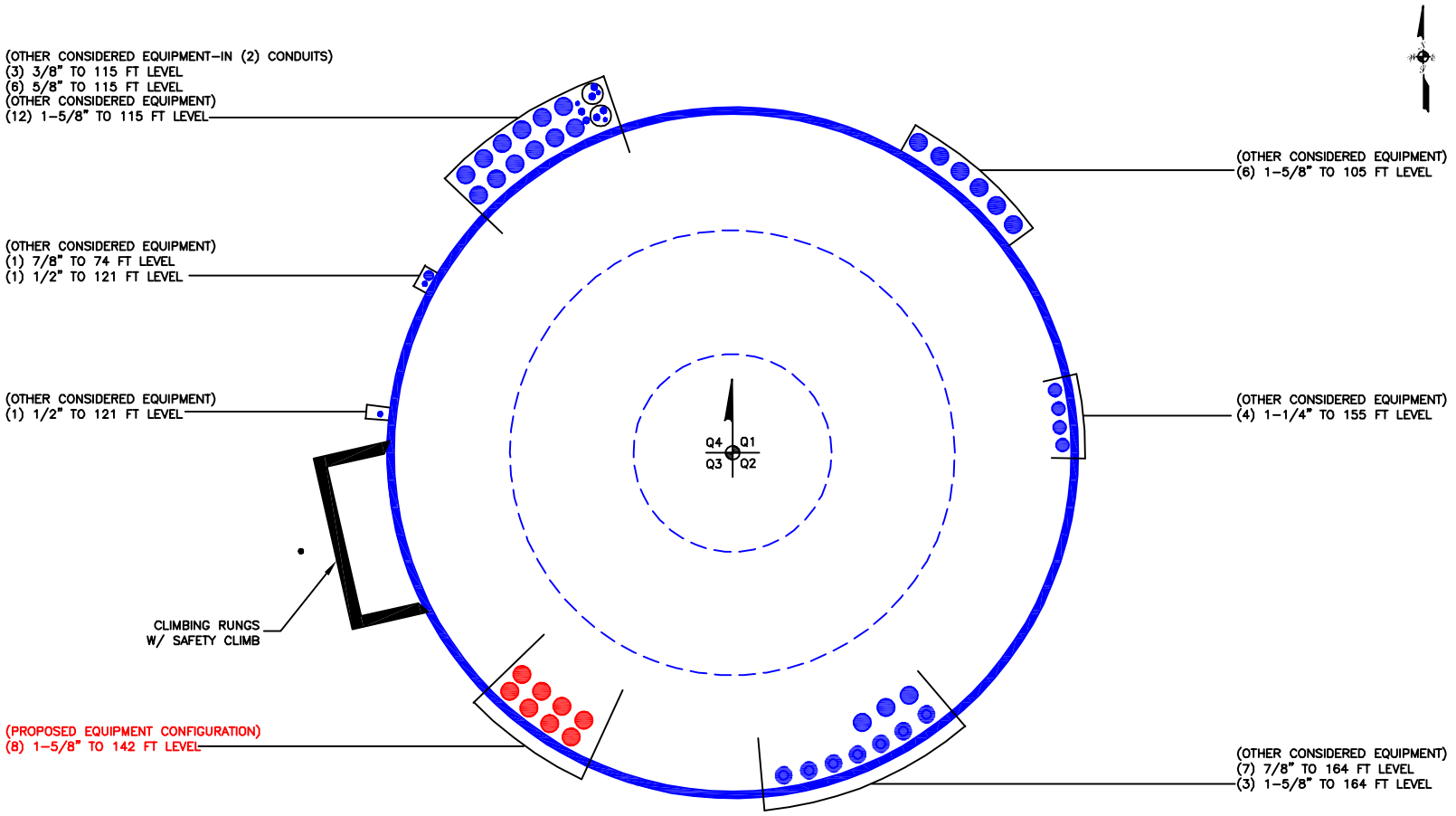
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	169 - 164.25 (1)	0.001	0.011	0.000	0.004	0.000	0.012	1.050	4.8.2
L2	164.25 - 129.75 (2)	0.008	0.189	0.000	0.025	0.000	0.198	1.050	4.8.2
L3	129.75 - 96.08 (3)	0.010	0.305	0.000	0.026	0.000	0.316	1.050	4.8.2
L4	96.08 - 63.25 (4)	0.011	0.427	0.000	0.025	0.000	0.439	1.050	4.8.2
L5	63.25 - 31.25 (5)	0.013	0.515	0.000	0.024	0.000	0.528	1.050	4.8.2
L6	31.25 - 0 (6)	0.015	0.594	0.000	0.023	0.000	0.609	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	169 - 164.25	Pole	TP26x18x0.25	1	-0.62	1060.11	1.1	Pass
L2	164.25 - 129.75	Pole	TP34.0625x21.5x0.3125	2	-15.79	1976.75	18.9	Pass
L3	129.75 - 96.08	Pole	TP41.75x32.1327x0.375	3	-28.15	2937.41	30.1	Pass
L4	96.08 - 63.25	Pole	TP49.0625x39.8023x0.375	4	-37.76	3460.30	41.8	Pass
L5	63.25 - 31.25	Pole	TP56.125x46.9543x0.375	5	-48.59	3964.20	50.3	Pass
L6	31.25 - 0	Pole	TP62.9375x53.8466x0.375	6	-63.20	4574.01	58.0	Pass
							Summary	
						Pole (L6)	58.0	Pass
						RATING =	**58.0**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


(OTHER CONSIDERED EQUIPMENT–IN (2) CONDUITS)
(3) 3/8" TO 115 FT LEVEL
(6) 5/8" TO 115 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(12) 1–5/8" TO 115 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(6) 1–5/8" TO 105 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 7/8" TO 74 FT LEVEL
(1) 1/2" TO 121 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 121 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(4) 1–1/4" TO 155 FT LEVEL
Q4 Q1
Q3 Q2
CLIMBING RUNGS
W/ SAFETY CLIMB
(PROPOSED EQUIPMENT CONFIGURATION)
(8) 1–5/8" TO 142 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(7) 7/8" TO 164 FT LEVEL
(3) 1–5/8" TO 164 FT LEVEL

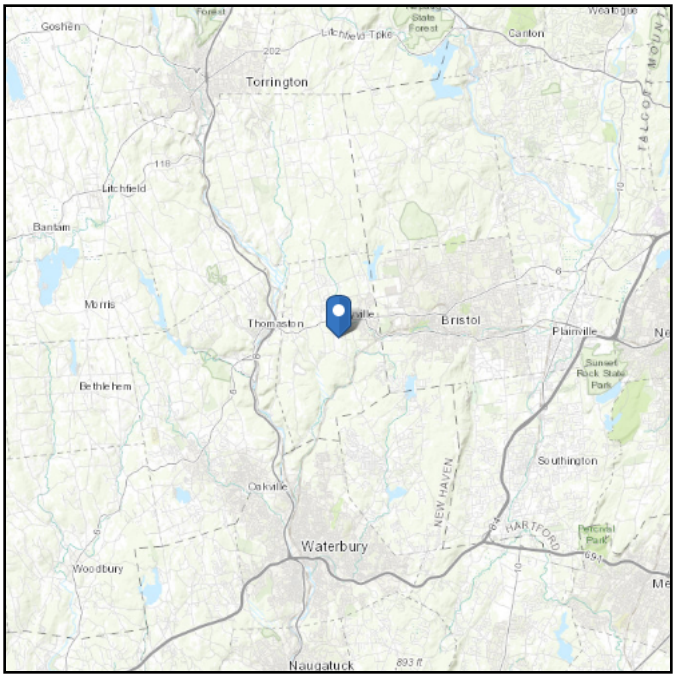
APPENDIX C

ADDITIONAL CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-10	**Elevation:**	889.9 ft (NAVD 88)
Risk Category:	II	**Latitude:**	41.668389
Soil Class:	D - Stiff Soil	**Longitude:**	-73.019956



Wind

Results:

Wind Speed:	119 Vmph	*120 mph per jurisdiciton requirements
10-year MRI	76 Vmph	
25-year MRI	86 Vmph	
50-year MRI	91 Vmph	
100-year MRI	98 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: Tue May 18 2021

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.

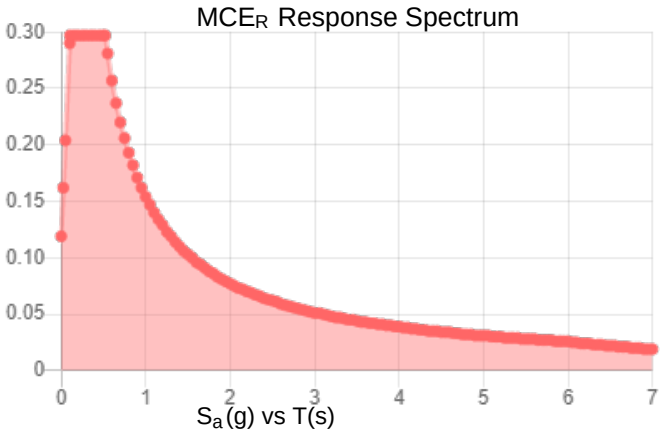
Seismic

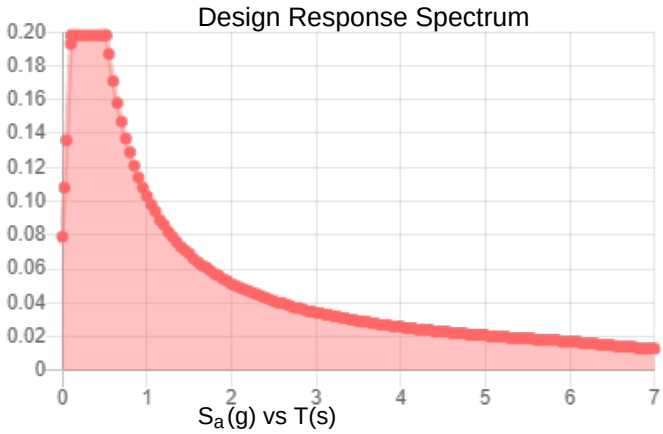
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.186	S_{DS} :	0.198
S_1 :	0.064	S_{D1} :	0.103
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.095
S_{MS} :	0.297	PGA_M :	0.152
S_{M1} :	0.154	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B





Data Accessed: Tue May 18 2021

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:	5 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Tue May 18 2021

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.

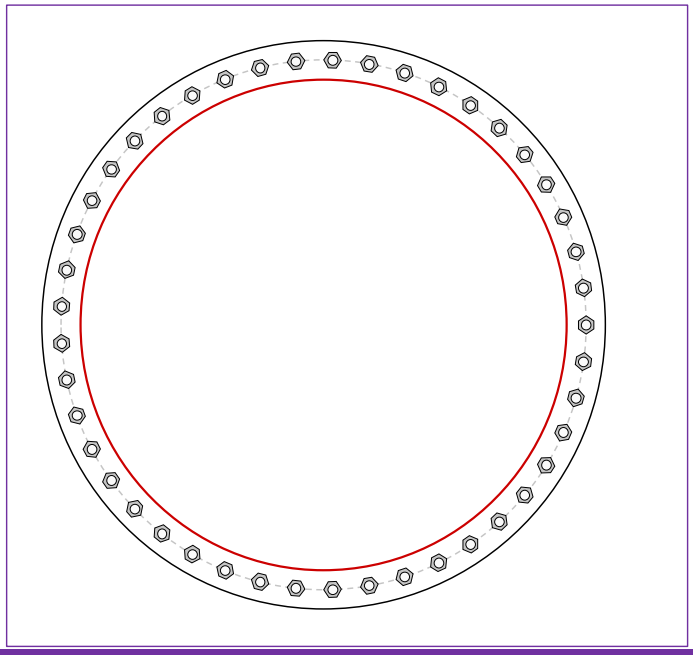
Monopole Base Plate Connection

Site Info	
BU #	826768
Site Name	Plymouth/RT 6
Order #	570318 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.5

Applied Loads	
Moment (kip-ft)	3475.00
Axial Force (kips)	63.00
Shear Force (kips)	30.00

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(45) 1-1/4" ø bolts (A687 N; Fy=105 ksi, Fu=125 ksi) on 68" BC

Base Plate Data

73" OD x 2.5" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Stiffener Data

N/A

Pole Data

62.9375" x 0.375" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

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

Pu_t = 53.1	ϕPn_t = 90.84	**Stress Rating**
Vu = 0.67	ϕVn = 57.52	**55.7%**
Mu = 0.65	ϕMn = 30.76	**Pass**

Base Plate Summary

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	**Pirod OK**

Pier and Pad Foundation

BU # :	826768
Site Name:	Plymouth/RT 6
App. Number:	570318 Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions

Compression, P_{comp}:	63	kips
Base Shear, Vu_comp:	30	kips
Moment, M_u:	3475	ft-kips
Tower Height, **H**:	169	ft
BP Dist. Above Fdn, bp_{dist}:	2.75	in

Pier Properties

Pier Shape:	Circular	
Pier Diameter, **dpier**:	7.5	ft
Ext. Above Grade, **E**:	0.5	ft
Pier Rebar Size, **Sc**:	9	
Pier Rebar Quantity, **mc**:	39	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	11	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties

Depth, **D**:	8.5	ft
Pad Width, W_1:	27	ft
Pad Thickness, **T**:	2.5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	36	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties

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

Soil Properties

Total Soil Unit Weight, γ:	125	pcf
Ultimate Gross Bearing, Qult:	12.000	ksf
Cohesion, **Cu**:		ksf
Friction Angle, φ:	34	degrees
SPT Blow Count, N_{blows}:	104	
Base Friction, μ:	0.6	
Neglected Depth, **N**:	3.75	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	14	ft

<--Toggle between Gross and Net

Foundation Analysis Checks

	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	547.00	30.00	**5.2%**	**Pass**
Bearing Pressure (ksf)	9.00	2.24	**23.7%**	**Pass**
*Overturning (kip*ft)*	9504.58	3751.88	**39.5%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	6854.10	3670.00	**51.0%**	**Pass**
Pier Compression (kip)	28118.83	114.69	**0.4%**	**Pass**
*Pad Flexure (kip*ft)*	3941.07	1246.31	**30.1%**	**Pass**
Pad Shear - 1-way (kips)	777.90	190.38	**23.3%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.190	0.050	**25.0%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	4354.14	2202.00	**48.2%**	**Pass**

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

Soil Rating*:	**39.5%**
Structural Rating*:	**51.0%**

Exhibit E

Mount Analysis

August 13, 2021

Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
CrownMA@tepgroup.net

Subject:	**Mount Modification Analysis**	
Carrier Designation:	***Verizon Wireless* Reconfiguration**	
	Client Site Number:	468084
	Client Site Name:	Plymouth CT
Crown Castle Designation:	**Crown Castle BU Number:**	826768
	Crown Castle Site Name:	Plymouth/RT 6
	Crown Castle JDE Job Number:	669335
	Crown Castle Order Number:	570318 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	25661.584643
Site Data:	**171 Town Hill Road, Plymouth, Litchfield County, CT 06786**	
	Latitude *41° 40' 6.20"*, Longitude *-73° 1' 11.84"*	
Structure Information:	**Tower Height & Type:**	169.0± ft Monopole
	Mount Elevation:	142.0 ft
	Mount Width & Type:	13.5 ft Low Profile Platform

Tower Engineering Professionals is pleased to submit this **"Mount Modification Analysis"** to determine the structural integrity of Verizon Wireless's antenna mounting system with proposed appurtenance and equipment addition on the above-mentioned 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 stress level. Based on our analysis, we have determined the mount stress level to be:

Low Profile Platform Mount **Sufficient Capacity**

This analysis utilizes an ultimate 3-second gust wind speed of 120 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: Steven C. Williams, P.E. / PHX

Respectfully submitted by:

Electronic Copy 08/13/2021

Aaron T. Rucker, P.E.
Structural Division Manager
919-661-6351
arucker@tepgroup.net

TABLE OF CONTENTS

1) INTRODUCTION

The mount is an existing 13.5-ft, 3-sector Low Profile Platform mount, designed by PiRod. The mount is installed at the 142.0 ft elevation on the 169.0± ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2018 Connecticut State Building Code
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	120 mph
Exposure Category:	B
Topographic Category at Base:	1.0
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Seismic Design Category:	B
Seismic S_s:	0.186
Seismic S_1:	0.064
Live Loading Wind Speed:	30 mph
Live Loading at Mid/End-Points:	250 lb
Man Live Loading at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
142.0	142.0	6	Antel	LPA-80080/6CF	Low Profile Platform Mount Site Pro 1 PRK-SFS-L Reinforcement Kit
		6[1]	Commscope	SBNHH-1D65B[1]	
		3	Samsung	MT6407-77A	
		2	RFS/Celwave	DB-T1-6Z-8AB-0Z	
		3	Samsung	RFV01U-D1A	
		3	Samsung	RFV01U-D2A	

Notes:
1) Antennas to be mounted using side by side dual antenna brackets. Typical of (2) antennas per sector.

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Loading Application	Verizon Wireless	Order 570318 Rev. 0	CCIsites
Tower and Mount Manufacturer Drawings	PiRod	3491992	CCIsites
Previous Mount Analysis	Tower Engineering Professionals	9838731	CCIsites

3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A and Appendix C.

TEP Mount Analysis Tool, a tool internally developed by TEP using Microsoft Excel, was used to calculate member loading for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis (Revision D)*. In addition, this analysis is in accordance with NSTD-446 *Antenna Mount Analysis and Modification Process.*

3.2) Assumptions

1) The mount was built in accordance with the manufacturer's specifications.
2) The mount has been maintained in accordance with the manufacturer's specification.
3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit if applicable.
4) All mount components are in sufficient condition to carry their full design capacity.
5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA-3D output for confirmation on grades used in this analysis.

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 antenna mounting system.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Low Profile Platform Mount)[3]

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	CP-2	142.0	50.0	Pass
	Support Horizontals	SA-1B		36.1	Pass
	Grating Supports	GSI-2		57.1	Pass
	Mount Pipes	MP-5		32.4	Pass
	Kickers	SFS-3		26.2	Pass
2	Connection Bolts	-		54.9	Pass
	Connection Plates	-		12.9	Pass

Structure Rating (max from all components)[3] =	57.1%

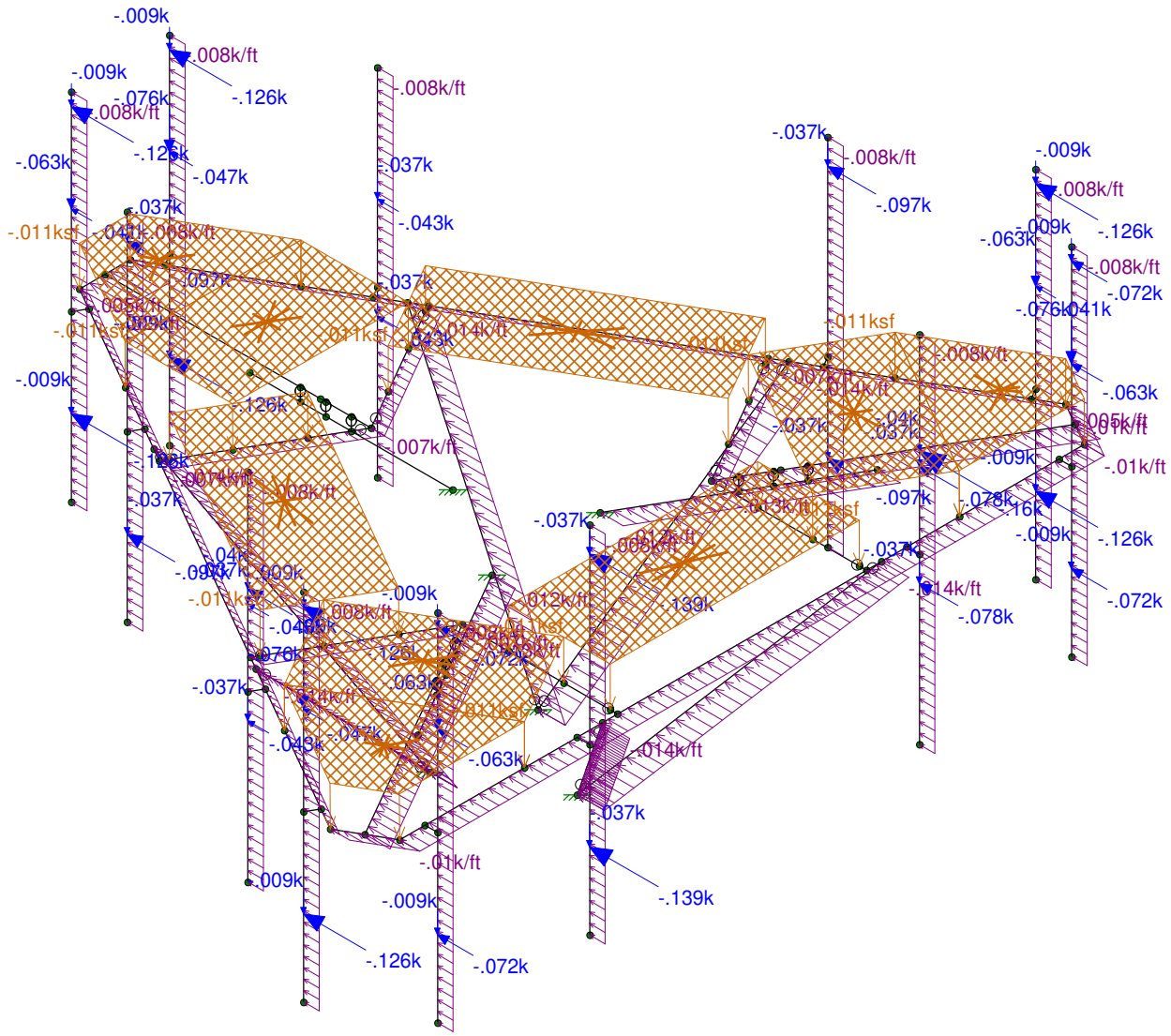
Notes:
1) See additional documentation in "Appendix C - Analysis Output" for calculations supporting the % capacity listed.
2) See additional documentation in "Appendix D - Additional Calculations" for calculations supporting the % capacity listed.
3) Rating per TIA-222-H, Section 15.5.

4.1) Recommendations

1) The modifications depicted in “Appendix E - Mount Modification Design Drawings (MDD)” shall be installed and, upon completion, inspected. The mount has sufficient capacity to support the proposed loading configuration once the proposed modifications are completed.

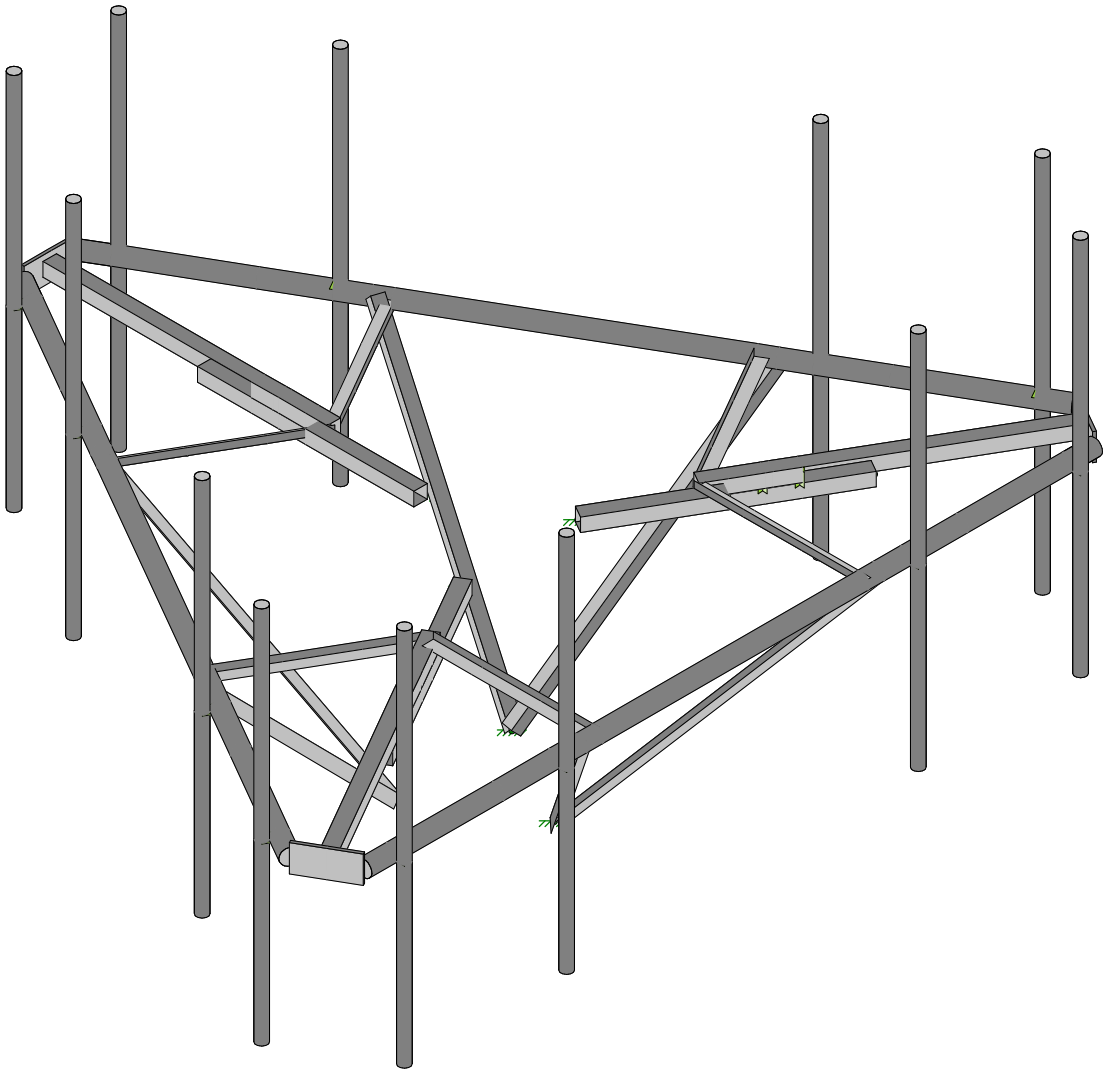
APPENDIX A

WIRE FRAME AND RENDERED MODELS



Loads: LC 2, 0.9D+1.0 0-Wind
Envelope Only Solution

Tower Engineering Profes...	Plymouth/RT 6 (BU 826768)	SK - 1
SCW		Aug 13, 2021 at 8:01 AM
TEP No. 25661.584643		Modifications.r3d



Envelope Only Solution

Tower Engineering Profes...	Plymouth/RT 6 (BU 826768)	SK - 2
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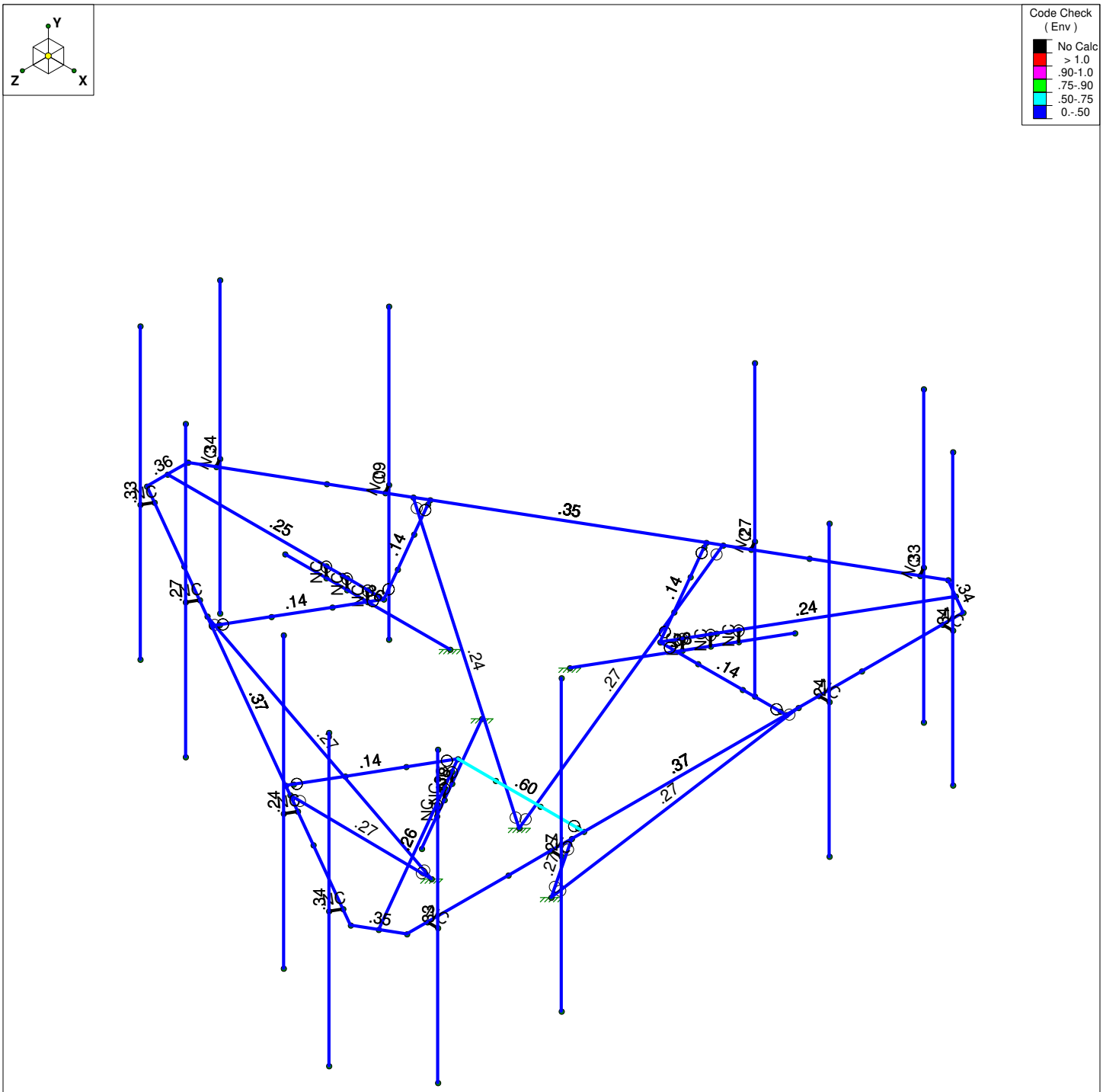
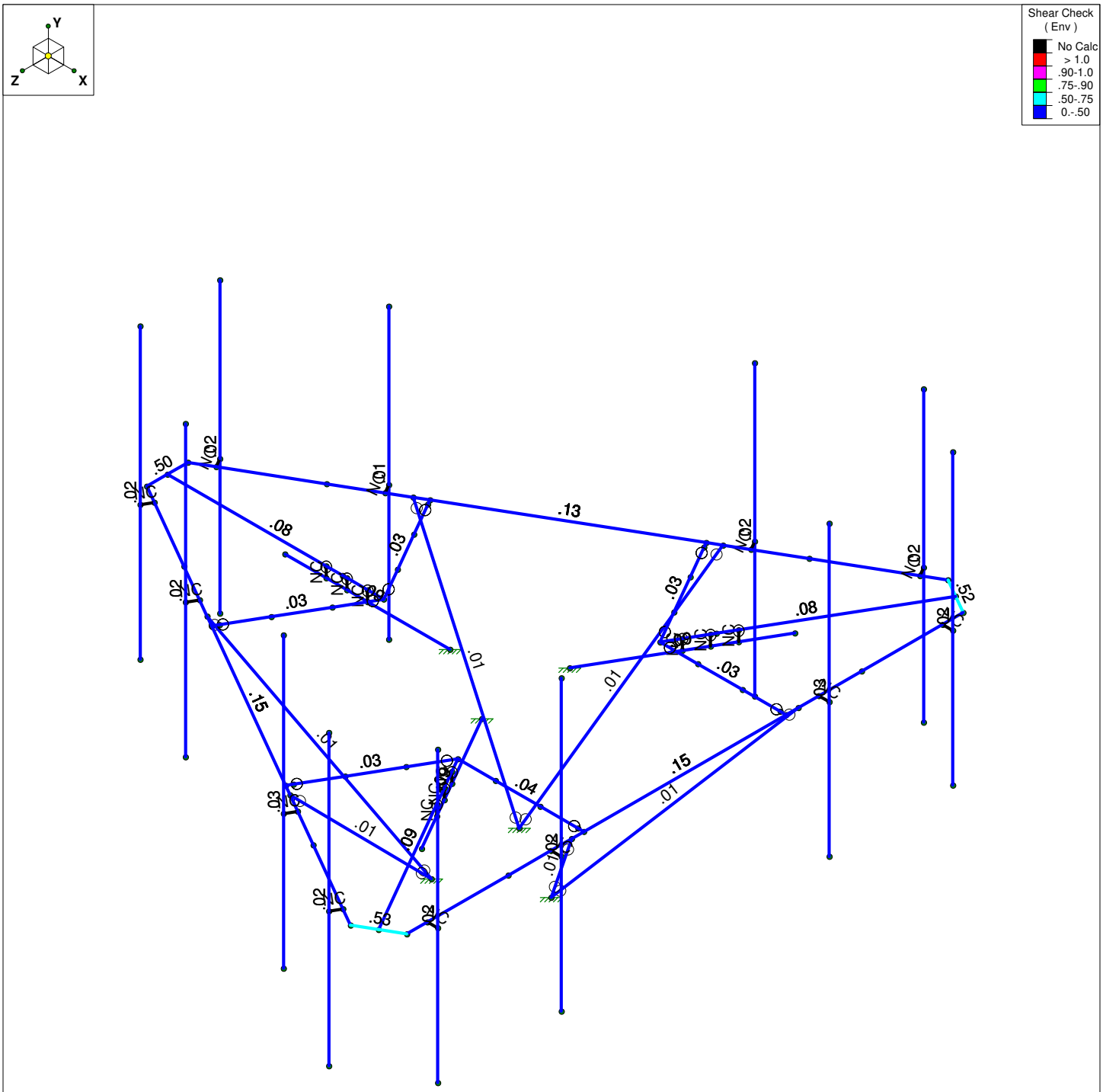
TEP No. 25661.584643		Modifications.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profes...	Plymouth/RT 6 (BU 826768)	SK - 3
SCW		Aug 13, 2021 at 8:01 AM
TEP No. 25661.584643		Modifications.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profes...	Plymouth/RT 6 (BU 826768)	SK - 4
SCW		Aug 13, 2021 at 8:01 AM
TEP No. 25661.584643		Modifications.r3d

APPENDIX B

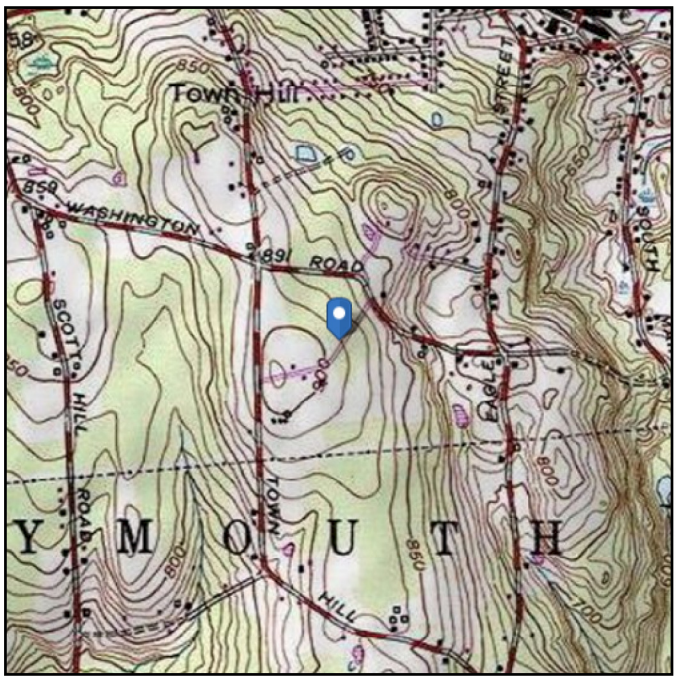
SOFTWARE INPUT CALCULATIONS

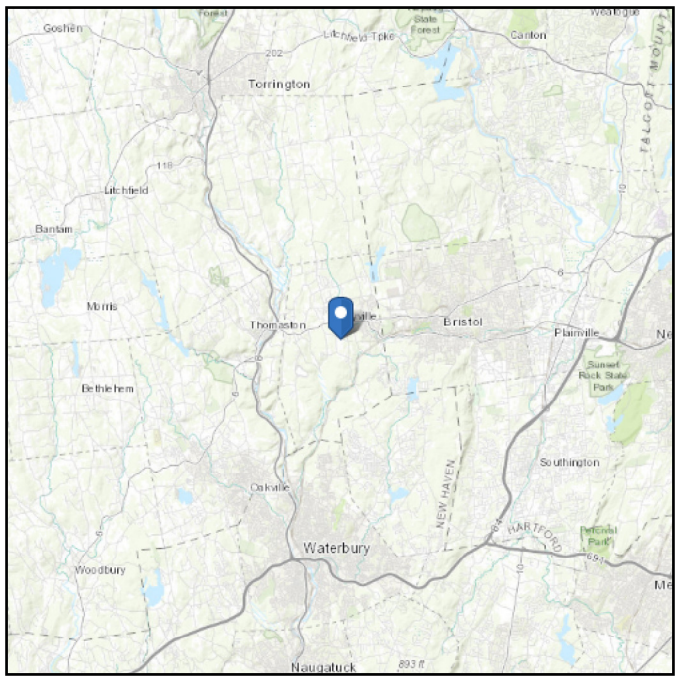
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 889.9 ft (NAVD 88)
Latitude: 41.668389
Longitude: -73.019956





Wind

Results:

Wind Speed:	119 Vmph	*120 mph per jurisdiciton requirements
10-year MRI	76 Vmph	
25-year MRI	86 Vmph	
50-year MRI	91 Vmph	
100-year MRI	98 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: Tue May 18 2021

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.

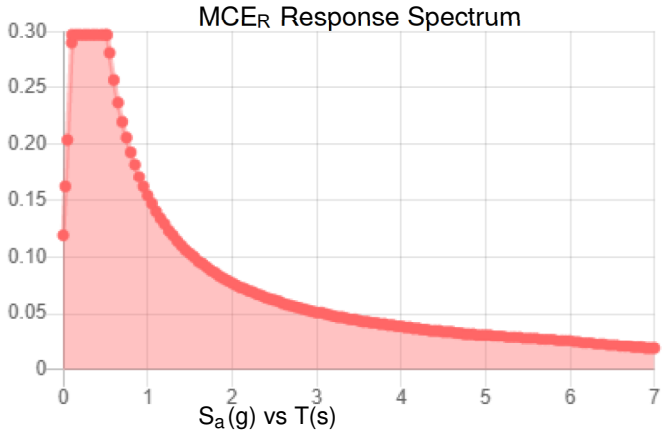
Seismic

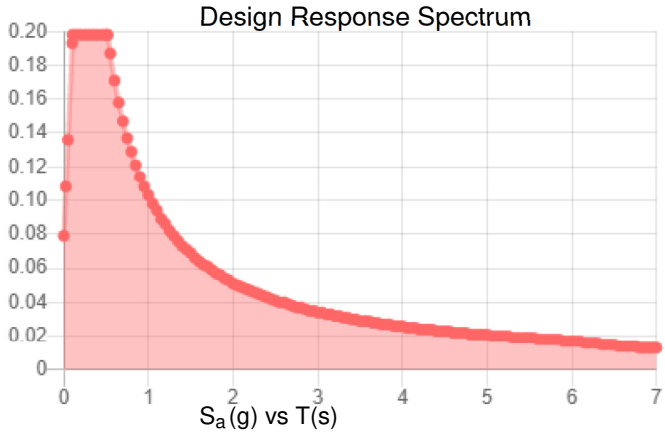
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.186	S_{DS} :	0.198
S_1 :	0.064	S_{D1} :	0.103
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.095
S_{MS} :	0.297	PGA_M :	0.152
S_{M1} :	0.154	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B





Data Accessed: Tue May 18 2021

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:	5 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Tue May 18 2021

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.

TOWER ENGINEERING PROFESSIONALS

Plymouth/RT 6 (BU 826768)

TEP No.	25661.584643	
Analysis By:	SCW	8/13/2021
Checked By:	PHX	8/13/2021

Code Revisions:	TIA-222-H	IBC 2015
Tower Type:	Monopole	

Wind Inputs:

Ult. Wind Velocity:	120.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.50	inches
Mount Centerline:	142.0	ft
Antenna Centerline:	142.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	890	ft

Wind Calculations:

K_{zt}:	1.000	Section 2.6.6
K_d:	0.950	
$K_{z\text{-}Mount}$:	1.092	Section 2.6.5.2
$K_{z\text{-}Antenna}$:	1.092	Section 2.6.5.2
K_{iz}:	1.157	Section 2.6.10
Ice Thickness:	1.736	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_zG_h)_{Mount}$:	37.04	$(q_zG_h)_{Mount}$:	6.43
$(q_zG_h)_{Antenna}$:	37.04	$(q_zG_h)_{Antenna}$:	6.43

Seismic Code Revisions:	TIA-222-H
Seismic Risk Category:	II

Seismic Input

S_{DS}:	0.198	Design Short Period Spectral Accel.
I_p:	1.0	Importance Factor
R_p:	2.0	Response Modification Factor
ρ:	1.0	
A_s:	1.0	Applification Factor - TIA-222-H Section 2.7.8.1
S_1:	0.064	Spectral Acceleration at a Period of 1 Second

Seismic Design Force

Cs:	0.099	kips/kip	TIA-H Sec 2.7.7.1.1
Cs-min:	0.030	kips/kip	TIA-H Sec 2.7.7.1.1

TOWER ENGINEERING PROFESSIONALS

Plymouth/RT 6 (BU 826768)

TEP No.	25661.584643	
Analysis By:	SCW	8/13/2021
Checked By:	PHX	8/13/2021

Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

										Distance from start node of the member		
MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
Antel	LPA-80080/6CF	70.87	5.51	13.19	21.00	0.00	1	Flat	MP-1	0.25	5.50	
Samsung Telecommunications	RFV01U-D1A	15.00	15.00	10.00	84.40	0.00	1	Flat	MP-1	2.00		
Samsung Telecommunications	MT6407-77A	35.06	16.06	5.51	81.57	0.00	1	Flat	MP-2	2.25	4.25	
RFS/Celwave	DB-T1-6Z-8AB-0Z	24.00	24.00	10.00	44.00	0.00	1	Flat	MP-2	2.00		
Commscope	SBNHH-1D65B	72.90	11.90	7.10	40.60	0.00	1	Flat	MP-3	0.50	5.50	
Commscope	SBNHH-1D65B	72.90	11.90	7.10	40.60	0.00	1	Flat	MP-3	0.50	5.50	
Antel	LPA-80080/6CF	70.87	5.51	13.19	21.00	0.00	1	Flat	MP-4	0.25	5.50	
Samsung Telecommunications	RFV01U-D2A	15.00	15.00	8.10	70.30	0.00	1	Flat	MP-4	2.00		
Antel	LPA-80080/6CF	70.87	5.51	13.19	21.00	120.00	1	Flat	MP-5	0.25	5.50	
Samsung Telecommunications	RFV01U-D1A	15.00	15.00	10.00	84.40	120.00	1	Flat	MP-5	2.00		
Samsung Telecommunications	MT6407-77A	35.06	16.06	5.51	81.57	120.00	1	Flat	MP-6	2.25	4.25	
RFS/Celwave	DB-T1-6Z-8AB-0Z	24.00	24.00	10.00	44.00	120.00	1	Flat	MP-6	2.00		
Commscope	SBNHH-1D65B	72.90	11.90	7.10	40.60	120.00	1	Flat	MP-7	0.50	5.50	
Commscope	SBNHH-1D65B	72.90	11.90	7.10	40.60	120.00	1	Flat	MP-7	0.50	5.50	
Antel	LPA-80080/6CF	70.87	5.51	13.19	21.00	120.00	1	Flat	MP-8	0.25	5.50	
Samsung Telecommunications	RFV01U-D2A	15.00	15.00	8.10	70.30	120.00	1	Flat	MP-8	2.00		
Antel	LPA-80080/6CF	70.87	5.51	13.19	21.00	240.00	1	Flat	MP-9	0.25	5.50	
Samsung Telecommunications	RFV01U-D1A	15.00	15.00	10.00	84.40	240.00	1	Flat	MP-9	2.00		
Samsung Telecommunications	MT6407-77A	35.06	16.06	5.51	81.57	240.00	1	Flat	MP-10	2.25	4.25	
Commscope	SBNHH-1D65B	72.90	11.90	7.10	40.60	240.00	1	Flat	MP-11	0.50	5.50	
Commscope	SBNHH-1D65B	72.90	11.90	7.10	40.60	240.00	1	Flat	MP-11	0.50	5.50	
Antel	LPA-80080/6CF	70.87	5.51	13.19	21.00	240.00	1	Flat	MP-12	0.25	5.50	
Samsung Telecommunications	RFV01U-D2A	15.00	15.00	8.10	70.30	240.00	1	Flat	MP-12	2.00		

Member Forces are Calculated in Accordance with TIA-222-H

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
FFTH-1	3.500	162.00	Round	90.00	11.00
FFTH-3	3.500	162.00	Round	30.00	11.00
FFTH-2	3.500	162.00	Round	-30.00	11.00
SA-1	3.000	63.00	Flat	-60.00	12.00
SA-2	3.000	63.00	Flat	60.00	12.00
SA-3	3.000	63.00	Flat	0.00	12.00
CP-1	6.000	12.00	Flat	-30.00	13.25
CP-2	6.000	12.00	Flat	30.00	13.25
CP-3	6.000	12.00	Flat	90.00	13.25
SA-3B	3.000	48.00	Flat	0.00	12.00
SA-2B	3.000	48.00	Flat	60.00	12.00
SA-1B	3.000	48.00	Flat	-60.00	12.00
GSI-1	1.500	36.70	Flat	0.00	8.00
GSI-2	1.500	36.70	Flat	0.00	8.00
GSI-3	1.500	36.70	Flat	-60.00	8.00
GSI-4	1.500	36.70	Flat	-60.00	8.00
GSI-5	1.500	36.70	Flat	60.00	8.00
GSI-6	1.500	36.70	Flat	60.00	8.00
MP-1	2.375	84.00	Round		7.46
MP-2	2.375	84.00	Round		7.46
MP-3	2.375	84.00	Round		7.46
MP-4	2.375	84.00	Round		7.46
MP-9	2.375	84.00	Round		7.46
MP-10	2.375	84.00	Round		7.46
MP-11	2.375	84.00	Round		7.46
MP-12	2.375	84.00	Round		7.46
MP-5	2.375	84.00	Round		7.46
MP-6	2.375	84.00	Round		7.46
MP-7	2.375	84.00	Round		7.46
MP-8	2.375	84.00	Round		7.46
SFS-1	2.500	72.00	Flat		10.00
SFS-2	2.500	72.00	Flat		10.00
SFS-3	2.500	72.00	Flat		10.00
SFS-4	2.500	72.00	Flat		10.00
SFS-5	2.500	72.00	Flat		10.00
SFS-6	2.500	72.00	Flat		10.00

APPENDIX C

SOFTWARE ANALYSIS OUTPUT

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISAConnection Code	None
Cold Formed Steel Code	None
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	None

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	No
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

Aug 13, 2021
8:02 AM
Checked By: PHX

(Global) Model Settings, Continued

Seismic Code	ASCE 7-10
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	1
Cd X	1
Rho Z	1
Rho X	1

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A500 Gr C	29000	11154	.3	.65	.49	50	1.4	62	1.3

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design ...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	None	None	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Corner Plate	PL 6x5/8	None	None	A36 Gr.36	Typical	3.75	.122	11.25	.456
3	Support Arm	HSS3X3X5	None	None	A53 Gr.B	Typical	2.94	3.45	3.45	5.94
4	Internal	L2.5x1.5x4	None	None	A36 Gr.36	Typical	.947	.16	.594	.021
5	Mount Pipe	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
6	PRK-SFS-L	L2.5x2.5x3	None	None	A36 Gr.36	Typical	.901	.535	.535	.011

Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	General				
2	RIGID		21	5.2	0
3	Total General		21	5.2	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L2.5x1.5x4	6	18.3	.059
7	A36 Gr.36	L2.5x2.5x3	6	36	.11
8	A36 Gr.36	PL 6x5/8	3	3	.038

Material Takeoff (Continued)

	Material	Size	Pieces	Length[ft]	Weight[K]
9	A53 Gr.B	HSS3X3X5	6	27.8	.278
10	A53 Gr.B	PIPE_2.0	12	84	.292
11	A53 Gr.B	PIPE_3.0	3	40.5	.285
12	Total HR Steel		36	209.6	1.062

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	SA3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	K2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	K3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	K1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rul...
1	CP-1	N8	N7			Corner Plate	None	None	A36 Gr.36	Typical
2	CP-2	N10	N12			Corner Plate	None	None	A36 Gr.36	Typical
3	CP-3	N9	N11			Corner Plate	None	None	A36 Gr.36	Typical
4	FFTH-1	N7	N10			Face Horizontal	None	None	A53 Gr.B	Typical
5	FFTH-2	N9	N12			Face Horizontal	None	None	A53 Gr.B	Typical
6	FFTH-3	N8	N11			Face Horizontal	None	None	A53 Gr.B	Typical
7	GSI-1	N17	N40A		270	Internal	None	None	A36 Gr.36	Typical
8	GSI-2	N42	N16		270	Internal	None	None	A36 Gr.36	Typical
9	GSI-3	N21	N44		270	Internal	None	None	A36 Gr.36	Typical
10	GSI-4	N45	N17		270	Internal	None	None	A36 Gr.36	Typical
11	GSI-5	N16	N46		270	Internal	None	None	A36 Gr.36	Typical
12	GSI-6	N47	N21		270	Internal	None	None	A36 Gr.36	Typical
13	MP-1	N78	N74			Mount Pipe	None	None	A53 Gr.B	Typical
14	MP-2	N80	N76			Mount Pipe	None	None	A53 Gr.B	Typical
15	MP-3	N81	N77			Mount Pipe	None	None	A53 Gr.B	Typical
16	MP-4	N79	N75			Mount Pipe	None	None	A53 Gr.B	Typical
17	MP-5	N128	N124			Mount Pipe	None	None	A53 Gr.B	Typical
18	MP-6	N130	N126			Mount Pipe	None	None	A53 Gr.B	Typical
19	MP-7	N131	N127			Mount Pipe	None	None	A53 Gr.B	Typical
20	MP-8	N129	N125			Mount Pipe	None	None	A53 Gr.B	Typical
21	MP-9	N108	N104A			Mount Pipe	None	None	A53 Gr.B	Typical
22	MP-10	N110	N106A			Mount Pipe	None	None	A53 Gr.B	Typical
23	MP-11	N111	N107A			Mount Pipe	None	None	A53 Gr.B	Typical
24	MP-12	N109	N105A			Mount Pipe	None	None	A53 Gr.B	Typical
25	SFS-1	N122	K1		180	PRK-SFS-L	None	None	A36 Gr.36	Typical
26	SFS-2	N121	K1		90	PRK-SFS-L	None	None	A36 Gr.36	Typical
27	SFS-3	N126A	K2		180	PRK-SFS-L	None	None	A36 Gr.36	Typical
28	SFS-4	N125A	K2		90	PRK-SFS-L	None	None	A36 Gr.36	Typical
29	SFS-5	N124A	K3		180	PRK-SFS-L	None	None	A36 Gr.36	Typical
30	SFS-6	N123	K3		90	PRK-SFS-L	None	None	A36 Gr.36	Typical
31	M13	N22	N27A			RIGID	None	None	RIGID	Typical
32	M14	N23	N28A			RIGID	None	None	RIGID	Typical
33	M15	N24	N29			RIGID	None	None	RIGID	Typical
34	M16	N30	N33			RIGID	None	None	RIGID	Typical
35	M17	N31	N34			RIGID	None	None	RIGID	Typical
36	M18	N32	N35			RIGID	None	None	RIGID	Typical
37	M19	N36	N39			RIGID	None	None	RIGID	Typical
38	M20	N37	N40			RIGID	None	None	RIGID	Typical

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rul...
39	M21	N38	N41			RIGID	None	None	RIGID	Typical
40	M33	N70	N95			RIGID	None	None	RIGID	Typical
41	M34	N72	N97			RIGID	None	None	RIGID	Typical
42	M36	N73	N98A			RIGID	None	None	RIGID	Typical
43	M37	N71	N96			RIGID	None	None	RIGID	Typical
44	M43	N98	N115			RIGID	None	None	RIGID	Typical
45	M44	N99	N117			RIGID	None	None	RIGID	Typical
46	M46	N100	N118			RIGID	None	None	RIGID	Typical
47	M47	N101	N116			RIGID	None	None	RIGID	Typical
48	M53	N102	N135			RIGID	None	None	RIGID	Typical
49	M54	N103	N137			RIGID	None	None	RIGID	Typical
50	M56	N104	N138			RIGID	None	None	RIGID	Typical
51	M57	N105	N136			RIGID	None	None	RIGID	Typical
52	SA-1	N16	N13			Support Arm	None	None	A53 Gr.B	Typical
53	SA-1B	SA1	N27			Support Arm	None	None	A53 Gr.B	Typical
54	SA-2	N17	N14			Support Arm	None	None	A53 Gr.B	Typical
55	SA-2B	SA2	N25			Support Arm	None	None	A53 Gr.B	Typical
56	SA-3	N21	N15			Support Arm	None	None	A53 Gr.B	Typical
57	SA-3B	SA3	N20			Support Arm	None	None	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ra...	Analysis ...	Inactive	Seismi...
1	CP-1						Yes	** NA **			None
2	CP-2						Yes	** NA **			None
3	CP-3						Yes	** NA **			None
4	FFTH-1						Yes	** NA **			None
5	FFTH-2						Yes	** NA **			None
6	FFTH-3						Yes	** NA **			None
7	GSI-1	BenPIN	BenPIN				Yes	** NA **			None
8	GSI-2	BenPIN					Yes	** NA **			None
9	GSI-3	BenPIN	BenPIN				Yes	** NA **			None
10	GSI-4	BenPIN	BenPIN				Yes	** NA **			None
11	GSI-5	BenPIN	BenPIN				Yes	** NA **			None
12	GSI-6	BenPIN	BenPIN				Yes	** NA **			None
13	MP-1						Yes	** NA **			None
14	MP-2						Yes	** NA **			None
15	MP-3						Yes	** NA **			None
16	MP-4						Yes	** NA **			None
17	MP-5						Yes	** NA **			None
18	MP-6						Yes	** NA **			None
19	MP-7						Yes	** NA **			None
20	MP-8						Yes	** NA **			None
21	MP-9						Yes	** NA **			None
22	MP-10						Yes	** NA **			None
23	MP-11						Yes	** NA **			None
24	MP-12						Yes	** NA **			None
25	SFS-1	BenPIN	BenPIN				Yes	** NA **			None
26	SFS-2	BenPIN	BenPIN				Yes	** NA **			None
27	SFS-3	BenPIN	BenPIN				Yes	** NA **			None
28	SFS-4	BenPIN	BenPIN				Yes	** NA **			None
29	SFS-5	BenPIN	BenPIN				Yes	** NA **			None
30	SFS-6	BenPIN	BenPIN				Yes	** NA **			None
31	M13		AllPIN				Yes	** NA **			None
32	M14		AllPIN				Yes	** NA **			None
33	M15		AllPIN				Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ra...	Analysis ...	Inactive	Seismi...
34	M16		AllPIN				Yes	** NA **			None
35	M17		AllPIN				Yes	** NA **			None
36	M18		AllPIN				Yes	** NA **			None
37	M19		AllPIN				Yes	** NA **			None
38	M20		AllPIN				Yes	** NA **			None
39	M21		AllPIN				Yes	** NA **			None
40	M33						Yes	** NA **			None
41	M34						Yes	** NA **			None
42	M36						Yes	** NA **			None
43	M37						Yes	** NA **			None
44	M43						Yes	** NA **			None
45	M44						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	M47						Yes	** NA **			None
48	M53						Yes	** NA **			None
49	M54						Yes	** NA **			None
50	M56						Yes	** NA **			None
51	M57						Yes	** NA **			None
52	SA-1						Yes	** NA **			None
53	SA-1B						Yes	** NA **			None
54	SA-2						Yes	** NA **			None
55	SA-2B						Yes	** NA **			None
56	SA-3						Yes	** NA **			None
57	SA-3B						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top...	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Functi...
1	CP-1	Corner Plate	1	.375	.375				.65	.65		Lateral
2	CP-2	Corner Plate	1	.375	.375				.65	.65		Lateral
3	CP-3	Corner Plate	1	.375	.375				.65	.65		Lateral
4	FFTH-1	Face Horizontal	13.5	5.5	5.5				1	1		Lateral
5	FFTH-2	Face Horizontal	13.5	5.5	5.5				1	1		Lateral
6	FFTH-3	Face Horizontal	13.5	5.5	5.5				1	1		Lateral
7	GSI-1	Internal	3.058						1	1		Lateral
8	GSI-2	Internal	3.058						1	1		Lateral
9	GSI-3	Internal	3.058						1	1		Lateral
10	GSI-4	Internal	3.058						1	1		Lateral
11	GSI-5	Internal	3.058						1	1		Lateral
12	GSI-6	Internal	3.058						1	1		Lateral
13	MP-1	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
14	MP-2	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
15	MP-3	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
16	MP-4	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
17	MP-5	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
18	MP-6	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
19	MP-7	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
20	MP-8	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
21	MP-9	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
22	MP-10	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
23	MP-11	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
24	MP-12	Mount Pipe	7	Segment	Segment				2.1	2.1		Lateral
25	SFS-1	PRK-SFS-L	6						1	1		Lateral
26	SFS-2	PRK-SFS-L	6						1	1		Lateral
27	SFS-3	PRK-SFS-L	6						1	1		Lateral
28	SFS-4	PRK-SFS-L	6						1	1		Lateral

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top...	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Functi...
29	SFS-5	PRK-SFS-L	6						1	1		Lateral
30	SFS-6	PRK-SFS-L	6						1	1		Lateral
31	SA-1	Support Arm	5.25						2.1	2.1		Lateral
32	SA-1B	Support Arm	4						2.1	2.1		Lateral
33	SA-2	Support Arm	5.25						2.1	2.1		Lateral
34	SA-2B	Support Arm	4						2.1	2.1		Lateral
35	SA-3	Support Arm	5.25						2.1	2.1		Lateral
36	SA-3B	Support Arm	4						2.1	2.1		Lateral

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Dead	None		-1			38		9	
2	0 Wind - No Ice	None					38	36		
3	30 Wind - No Ice	None					76	72		
4	45 Wind - No Ice	None					76	72		
5	60 Wind - No Ice	None					76	72		
6	90 Wind - No Ice	None					38	36		
7	120 Wind - No Ice	None					76	72		
8	135 Wind - No Ice	None					76	72		
9	150 Wind - No Ice	None					76	72		
10	180 Wind - No Ice	None					38	36		
11	210 Wind - No Ice	None					76	72		
12	225 Wind - No Ice	None					76	72		
13	240 Wind - No Ice	None					76	72		
14	270 Wind - No Ice	None					38	36		
15	300 Wind - No Ice	None					76	72		
16	315 Wind - No Ice	None					76	72		
17	330 Wind - No Ice	None					76	72		
18	Ice Weight	None					38	36	9	
19	0 Wind - Ice	None					38	36		
20	30 Wind - Ice	None					76	72		
21	45 Wind - Ice	None					76	72		
22	60 Wind - Ice	None					76	72		
23	90 Wind - Ice	None					38	36		
24	120 Wind - Ice	None					76	72		
25	135 Wind - Ice	None					76	72		
26	150 Wind - Ice	None					76	72		
27	180 Wind - Ice	None					38	36		
28	210 Wind - Ice	None					76	72		
29	225 Wind - Ice	None					76	72		
30	240 Wind - Ice	None					76	72		
31	270 Wind - Ice	None					38	36		
32	300 Wind - Ice	None					76	72		
33	315 Wind - Ice	None					76	72		
34	330 Wind - Ice	None					76	72		
35	Lm	None				1				
36	Lv	None				1				
37	Seismic Load X	ELX	-1				38			
38	Seismic Load Z	ELZ			-1		38			
39	BLC 1 Transient Area...	None						45		
40	BLC 18 Transient Are...	None						45		

Load Combinations

	Description	So..	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.4D	Yes	Y		1	1.4																						
2	0.9D+1.0 0-Wind	Yes	Y		1	.9	2	1																				
3	0.9D+1.0 30-Wind	Yes	Y		1	.9	3	1																				
4	0.9D+1.0 45-Wind	Yes	Y		1	.9	4	1																				
5	0.9D+1.0 60-Wind	Yes	Y		1	.9	5	1																				
6	0.9D+1.0 90-Wind	Yes	Y		1	.9	6	1																				
7	0.9D+1.0 120-Wind	Yes	Y		1	.9	7	1																				
8	0.9D+1.0 135-Wind	Yes	Y		1	.9	8	1																				
9	0.9D+1.0 150-Wind	Yes	Y		1	.9	9	1																				
10	0.9D+1.0 180-Wind	Yes	Y		1	.9	10	1																				
11	0.9D+1.0 210-Wind	Yes	Y		1	.9	11	1																				
12	0.9D+1.0 225-Wind	Yes	Y		1	.9	12	1																				
13	0.9D+1.0 240-Wind	Yes	Y		1	.9	13	1																				
14	0.9D+1.0 270-Wind	Yes	Y		1	.9	14	1																				
15	0.9D+1.0 300-Wind	Yes	Y		1	.9	15	1																				
16	0.9D+1.0 315-Wind	Yes	Y		1	.9	16	1																				
17	0.9D+1.0 330-Wind	Yes	Y		1	.9	17	1																				
18	1.2D+1.0 0-Wind	Yes	Y		1	1.2	2	1																				
19	1.2D+1.0 30-Wind	Yes	Y		1	1.2	3	1																				
20	1.2D+1.0 45-Wind	Yes	Y		1	1.2	4	1																				
21	1.2D+1.0 60-Wind	Yes	Y		1	1.2	5	1																				
22	1.2D+1.0 90-Wind	Yes	Y		1	1.2	6	1																				
23	1.2D+1.0 120-Wind	Yes	Y		1	1.2	7	1																				
24	1.2D+1.0 135-Wind	Yes	Y		1	1.2	8	1																				
25	1.2D+1.0 150-Wind	Yes	Y		1	1.2	9	1																				
26	1.2D+1.0 180-Wind	Yes	Y		1	1.2	10	1																				
27	1.2D+1.0 210-Wind	Yes	Y		1	1.2	11	1																				
28	1.2D+1.0 225-Wind	Yes	Y		1	1.2	12	1																				
29	1.2D+1.0 240-Wind	Yes	Y		1	1.2	13	1																				
30	1.2D+1.0 270-Wind	Yes	Y		1	1.2	14	1																				
31	1.2D+1.0 300-Wind	Yes	Y		1	1.2	15	1																				
32	1.2D+1.0 315-Wind	Yes	Y		1	1.2	16	1																				
33	1.2D+1.0 330-Wind	Yes	Y		1	1.2	17	1																				
34	1.2D+1.0Di+1.0 0-...	Yes	Y		1	1.2	18	1	19	1																		
35	1.2D+1.0Di+1.0 30-...	Yes	Y		1	1.2	18	1	20	1																		
36	1.2D+1.0Di+1.0 45-...	Yes	Y		1	1.2	18	1	21	1																		
37	1.2D+1.0Di+1.0 60-...	Yes	Y		1	1.2	18	1	22	1																		
38	1.2D+1.0Di+1.0 90-...	Yes	Y		1	1.2	18	1	23	1																		
39	1.2D+1.0Di+1.0 12...	Yes	Y		1	1.2	18	1	24	1																		
40	1.2D+1.0Di+1.0 13...	Yes	Y		1	1.2	18	1	25	1																		
41	1.2D+1.0Di+1.0 15...	Yes	Y		1	1.2	18	1	26	1																		
42	1.2D+1.0Di+1.0 18...	Yes	Y		1	1.2	18	1	27	1																		
43	1.2D+1.0Di+1.0 21...	Yes	Y		1	1.2	18	1	28	1																		
44	1.2D+1.0Di+1.0 22...	Yes	Y		1	1.2	18	1	29	1																		
45	1.2D+1.0Di+1.0 24...	Yes	Y		1	1.2	18	1	30	1																		
46	1.2D+1.0Di+1.0 27...	Yes	Y		1	1.2	18	1	31	1																		
47	1.2D+1.0Di+1.0 30...	Yes	Y		1	1.2	18	1	32	1																		
48	1.2D+1.0Di+1.0 31...	Yes	Y		1	1.2	18	1	33	1																		
49	1.2D+1.0Di+1.0 33...	Yes	Y		1	1.2	18	1	34	1																		
50	1.2D+1.5Lv	Yes	Y		36	1.5	1	1.2																				
51	1.2D+1.5Lm+1.0 0-...	Yes	Y		1	1.2	2	.063	35	1.5																		
52	1.2D+1.5Lm+1.0 30...	Yes	Y		1	1.2	3	.063	35	1.5																		
53	1.2D+1.5Lm+1.0 45...	Yes	Y		1	1.2	4	.063	35	1.5																		
54	1.2D+1.5Lm+1.0 60...	Yes	Y		1	1.2	5	.063	35	1.5																		
55	1.2D+1.5Lm+1.0 90...	Yes	Y		1	1.2	6	.063	35	1.5																		
56	1.2D+1.5Lm+1.0 12...	Yes	Y		1	1.2	7	.063	35	1.5																		

Company : Tower Engineering Professionals, Inc.
Designer : SCW
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Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
57	1.2D+1.5Lm+1.0 13...	Yes	Y		1	1.2	8	.063	35	1.5																		
58	1.2D+1.5Lm+1.0 15...	Yes	Y		1	1.2	9	.063	35	1.5																		
59	1.2D+1.5Lm+1.0 18...	Yes	Y		1	1.2	10	.063	35	1.5																		
60	1.2D+1.5Lm+1.0 21...	Yes	Y		1	1.2	11	.063	35	1.5																		
61	1.2D+1.5Lm+1.0 22...	Yes	Y		1	1.2	12	.063	35	1.5																		
62	1.2D+1.5Lm+1.0 24...	Yes	Y		1	1.2	13	.063	35	1.5																		
63	1.2D+1.5Lm+1.0 27...	Yes	Y		1	1.2	14	.063	35	1.5																		
64	1.2D+1.5Lm+1.0 30...	Yes	Y		1	1.2	15	.063	35	1.5																		
65	1.2D+1.5Lm+1.0 31...	Yes	Y		1	1.2	16	.063	35	1.5																		
66	1.2D+1.5Lm+1.0 33...	Yes	Y		1	1.2	17	.063	35	1.5																		
67	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	.099	0																			
68	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	.086	ELZ	.05																		
69	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	.07	ELZ	.07																		
70	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	.05	ELZ	.086																		
71	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	0		ELZ	.099																		
72	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	-.05	ELZ	.086																		
73	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	-.07	ELZ	.07																		
74	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	-.086	ELZ	.05																		
75	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	-.099	0																			
76	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	-.086	ELZ	-.05																		
77	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	-.07	ELZ	-.07																		
78	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	-.05	ELZ	-.086																		
79	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	0		ELZ	-.099																		
80	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	.05	ELZ	-.086																		
81	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	.07	ELZ	-.07																		
82	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.24	ELX	.086	ELZ	-.05																		
83	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	.099	0																			
84	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	.086	ELZ	.05																		
85	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	.07	ELZ	.07																		
86	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	.05	ELZ	.086																		
87	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	0		ELZ	.099																		
88	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	-.05	ELZ	.086																		
89	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	-.07	ELZ	.07																		
90	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	-.086	ELZ	.05																		
91	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	-.099	0																			
92	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	-.086	ELZ	-.05																		
93	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	-.07	ELZ	-.07																		
94	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	-.05	ELZ	-.086																		
95	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	0		ELZ	-.099																		
96	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	.05	ELZ	-.086																		
97	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	.07	ELZ	-.07																		
98	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.86	ELX	.086	ELZ	-.05																		

Joint Loads and Enforced Displacements (BLC 35 : Lm)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft,...
1	N70	L	Y	-.5

Joint Loads and Enforced Displacements (BLC 36 : Lv)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft,...
1	N7	L	Y	-.25

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Y	-.011	.25
2	MP-1	Y	-.084	2
3	MP-2	Y	-.041	2.25
4	MP-2	Y	-.044	2
5	MP-3	Y	-.02	.5
6	MP-3	Y	-.02	.5
7	MP-4	Y	-.011	.25
8	MP-4	Y	-.07	2
9	MP-5	Y	-.011	.25
10	MP-5	Y	-.084	2
11	MP-6	Y	-.041	2.25
12	MP-6	Y	-.044	2
13	MP-7	Y	-.02	.5
14	MP-7	Y	-.02	.5
15	MP-8	Y	-.011	.25
16	MP-8	Y	-.07	2
17	MP-9	Y	-.011	.25
18	MP-9	Y	-.084	2
19	MP-10	Y	-.041	2.25
20	MP-11	Y	-.02	.5
21	MP-11	Y	-.02	.5
22	MP-12	Y	-.011	.25
23	MP-12	Y	-.07	2
24	MP-1	Y	-.011	5.5
25	MP-2	Y	-.041	4.25
26	MP-3	Y	-.02	5.5
27	MP-3	Y	-.02	5.5
28	MP-4	Y	-.011	5.5
29	MP-5	Y	-.011	5.5
30	MP-6	Y	-.041	4.25
31	MP-7	Y	-.02	5.5
32	MP-7	Y	-.02	5.5
33	MP-8	Y	-.011	5.5
34	MP-9	Y	-.011	5.5
35	MP-10	Y	-.041	4.25
36	MP-11	Y	-.02	5.5
37	MP-11	Y	-.02	5.5
38	MP-12	Y	-.011	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.072	.25
2	MP-1	X	-.063	2
3	MP-2	X	-.078	2.25
4	MP-2	X	-.16	2
5	MP-3	X	-.069	.5
6	MP-3	X	-.069	.5
7	MP-4	X	-.072	.25
8	MP-4	X	-.063	2
9	MP-5	X	-.126	.25
10	MP-5	X	-.047	2
11	MP-6	X	-.043	2.25
12	MP-6	X	-.09	2
13	MP-7	X	-.048	.5
14	MP-7	X	-.048	.5

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP-8	X	-.126	.25
16	MP-8	X	-.041	2
17	MP-9	X	-.126	.25
18	MP-9	X	-.047	2
19	MP-10	X	-.043	2.25
20	MP-11	X	-.048	.5
21	MP-11	X	-.048	.5
22	MP-12	X	-.126	.25
23	MP-12	X	-.041	2
24	MP-1	X	-.072	5.5
25	MP-2	X	-.078	4.25
26	MP-3	X	-.069	5.5
27	MP-3	X	-.069	5.5
28	MP-4	X	-.072	5.5
29	MP-5	X	-.126	5.5
30	MP-6	X	-.043	4.25
31	MP-7	X	-.048	5.5
32	MP-7	X	-.048	5.5
33	MP-8	X	-.126	5.5
34	MP-9	X	-.126	5.5
35	MP-10	X	-.043	4.25
36	MP-11	X	-.048	5.5
37	MP-11	X	-.048	5.5
38	MP-12	X	-.126	5.5

Member Point Loads (BLC 3 : 30 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.078	.25
2	MP-1	X	-.05	2
3	MP-2	X	-.057	2.25
4	MP-2	X	-.118	2
5	MP-3	X	-.054	.5
6	MP-3	X	-.054	.5
7	MP-4	X	-.078	.25
8	MP-4	X	-.048	2
9	MP-5	X	-.124	.25
10	MP-5	X	-.036	2
11	MP-6	X	-.027	2.25
12	MP-6	X	-.058	2
13	MP-7	X	-.036	.5
14	MP-7	X	-.036	.5
15	MP-8	X	-.124	.25
16	MP-8	X	-.029	2
17	MP-9	X	-.078	.25
18	MP-9	X	-.05	2
19	MP-10	X	-.057	2.25
20	MP-11	X	-.054	.5
21	MP-11	X	-.054	.5
22	MP-12	X	-.078	.25
23	MP-12	X	-.048	2
24	MP-1	X	-.078	5.5
25	MP-2	X	-.057	4.25
26	MP-3	X	-.054	5.5
27	MP-3	X	-.054	5.5
28	MP-4	X	-.078	5.5
29	MP-5	X	-.124	5.5

Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP-6	X	-.027	4.25
31	MP-7	X	-.036	5.5
32	MP-7	X	-.036	5.5
33	MP-8	X	-.124	5.5
34	MP-9	X	-.078	5.5
35	MP-10	X	-.057	4.25
36	MP-11	X	-.054	5.5
37	MP-11	X	-.054	5.5
38	MP-12	X	-.078	5.5
39	MP-1	Z	-.045	.25
40	MP-1	Z	-.029	2
41	MP-2	Z	-.033	2.25
42	MP-2	Z	-.068	2
43	MP-3	Z	-.031	.5
44	MP-3	Z	-.031	.5
45	MP-4	Z	-.045	.25
46	MP-4	Z	-.028	2
47	MP-5	Z	-.072	.25
48	MP-5	Z	-.021	2
49	MP-6	Z	-.015	2.25
50	MP-6	Z	-.033	2
51	MP-7	Z	-.021	.5
52	MP-7	Z	-.021	.5
53	MP-8	Z	-.072	.25
54	MP-8	Z	-.017	2
55	MP-9	Z	-.045	.25
56	MP-9	Z	-.029	2
57	MP-10	Z	-.033	2.25
58	MP-11	Z	-.031	.5
59	MP-11	Z	-.031	.5
60	MP-12	Z	-.045	.25
61	MP-12	Z	-.028	2
62	MP-1	Z	-.045	5.5
63	MP-2	Z	-.033	4.25
64	MP-3	Z	-.031	5.5
65	MP-3	Z	-.031	5.5
66	MP-4	Z	-.045	5.5
67	MP-5	Z	-.072	5.5
68	MP-6	Z	-.015	4.25
69	MP-7	Z	-.021	5.5
70	MP-7	Z	-.021	5.5
71	MP-8	Z	-.072	5.5
72	MP-9	Z	-.045	5.5
73	MP-10	Z	-.033	4.25
74	MP-11	Z	-.031	5.5
75	MP-11	Z	-.031	5.5
76	MP-12	Z	-.045	5.5

Member Point Loads (BLC 4 : 45 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.076	.25
2	MP-1	X	-.037	2
3	MP-2	X	-.038	2.25
4	MP-2	X	-.08	2
5	MP-3	X	-.039	.5
6	MP-3	X	-.039	.5

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP-4	X	-.076	.25
8	MP-4	X	-.034	2
9	MP-5	X	-.098	.25
10	MP-5	X	-.03	2
11	MP-6	X	-.024	2.25
12	MP-6	X	-.052	2
13	MP-7	X	-.031	.5
14	MP-7	X	-.031	.5
15	MP-8	X	-.098	.25
16	MP-8	X	-.025	2
17	MP-9	X	-.054	.25
18	MP-9	X	-.043	2
19	MP-10	X	-.053	2.25
20	MP-11	X	-.048	.5
21	MP-11	X	-.048	.5
22	MP-12	X	-.054	.25
23	MP-12	X	-.043	2
24	MP-1	X	-.076	5.5
25	MP-2	X	-.038	4.25
26	MP-3	X	-.039	5.5
27	MP-3	X	-.039	5.5
28	MP-4	X	-.076	5.5
29	MP-5	X	-.098	5.5
30	MP-6	X	-.024	4.25
31	MP-7	X	-.031	5.5
32	MP-7	X	-.031	5.5
33	MP-8	X	-.098	5.5
34	MP-9	X	-.054	5.5
35	MP-10	X	-.053	4.25
36	MP-11	X	-.048	5.5
37	MP-11	X	-.048	5.5
38	MP-12	X	-.054	5.5
39	MP-1	Z	-.076	.25
40	MP-1	Z	-.037	2
41	MP-2	Z	-.038	2.25
42	MP-2	Z	-.08	2
43	MP-3	Z	-.039	.5
44	MP-3	Z	-.039	.5
45	MP-4	Z	-.076	.25
46	MP-4	Z	-.034	2
47	MP-5	Z	-.098	.25
48	MP-5	Z	-.03	2
49	MP-6	Z	-.024	2.25
50	MP-6	Z	-.052	2
51	MP-7	Z	-.031	.5
52	MP-7	Z	-.031	.5
53	MP-8	Z	-.098	.25
54	MP-8	Z	-.025	2
55	MP-9	Z	-.054	.25
56	MP-9	Z	-.043	2
57	MP-10	Z	-.053	2.25
58	MP-11	Z	-.048	.5
59	MP-11	Z	-.048	.5
60	MP-12	Z	-.054	.25
61	MP-12	Z	-.043	2
62	MP-1	Z	-.076	5.5
63	MP-2	Z	-.038	4.25

Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
64	MP-3	Z	-.039	5.5
65	MP-3	Z	-.039	5.5
66	MP-4	Z	-.076	5.5
67	MP-5	Z	-.098	5.5
68	MP-6	Z	-.024	4.25
69	MP-7	Z	-.031	5.5
70	MP-7	Z	-.031	5.5
71	MP-8	Z	-.098	5.5
72	MP-9	Z	-.054	5.5
73	MP-10	Z	-.053	4.25
74	MP-11	Z	-.048	5.5
75	MP-11	Z	-.048	5.5
76	MP-12	Z	-.054	5.5

Member Point Loads (BLC 5 : 60 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.063	.25
2	MP-1	X	-.023	2
3	MP-2	X	-.021	2.25
4	MP-2	X	-.045	2
5	MP-3	X	-.024	.5
6	MP-3	X	-.024	.5
7	MP-4	X	-.063	.25
8	MP-4	X	-.02	2
9	MP-5	X	-.063	.25
10	MP-5	X	-.023	2
11	MP-6	X	-.021	2.25
12	MP-6	X	-.045	2
13	MP-7	X	-.024	.5
14	MP-7	X	-.024	.5
15	MP-8	X	-.063	.25
16	MP-8	X	-.02	2
17	MP-9	X	-.036	.25
18	MP-9	X	-.031	2
19	MP-10	X	-.039	2.25
20	MP-11	X	-.035	.5
21	MP-11	X	-.035	.5
22	MP-12	X	-.036	.25
23	MP-12	X	-.031	2
24	MP-1	X	-.063	5.5
25	MP-2	X	-.021	4.25
26	MP-3	X	-.024	5.5
27	MP-3	X	-.024	5.5
28	MP-4	X	-.063	5.5
29	MP-5	X	-.063	5.5
30	MP-6	X	-.021	4.25
31	MP-7	X	-.024	5.5
32	MP-7	X	-.024	5.5
33	MP-8	X	-.063	5.5
34	MP-9	X	-.036	5.5
35	MP-10	X	-.039	4.25
36	MP-11	X	-.035	5.5
37	MP-11	X	-.035	5.5
38	MP-12	X	-.036	5.5
39	MP-1	Z	-.109	.25
40	MP-1	Z	-.041	2

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
41	MP-2	Z	-.037	2.25
42	MP-2	Z	-.078	2
43	MP-3	Z	-.042	.5
44	MP-3	Z	-.042	.5
45	MP-4	Z	-.109	.25
46	MP-4	Z	-.035	2
47	MP-5	Z	-.109	.25
48	MP-5	Z	-.041	2
49	MP-6	Z	-.037	2.25
50	MP-6	Z	-.078	2
51	MP-7	Z	-.042	.5
52	MP-7	Z	-.042	.5
53	MP-8	Z	-.109	.25
54	MP-8	Z	-.035	2
55	MP-9	Z	-.062	.25
56	MP-9	Z	-.054	2
57	MP-10	Z	-.068	2.25
58	MP-11	Z	-.06	.5
59	MP-11	Z	-.06	.5
60	MP-12	Z	-.062	.25
61	MP-12	Z	-.054	2
62	MP-1	Z	-.109	5.5
63	MP-2	Z	-.037	4.25
64	MP-3	Z	-.042	5.5
65	MP-3	Z	-.042	5.5
66	MP-4	Z	-.109	5.5
67	MP-5	Z	-.109	5.5
68	MP-6	Z	-.037	4.25
69	MP-7	Z	-.042	5.5
70	MP-7	Z	-.042	5.5
71	MP-8	Z	-.109	5.5
72	MP-9	Z	-.062	5.5
73	MP-10	Z	-.068	4.25
74	MP-11	Z	-.06	5.5
75	MP-11	Z	-.06	5.5
76	MP-12	Z	-.062	5.5

Member Point Loads (BLC 6 : 90 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-.144	.25
2	MP-1	Z	-.042	2
3	MP-2	Z	-.031	2.25
4	MP-2	Z	-.067	2
5	MP-3	Z	-.042	.5
6	MP-3	Z	-.042	.5
7	MP-4	Z	-.144	.25
8	MP-4	Z	-.034	2
9	MP-5	Z	-.09	.25
10	MP-5	Z	-.057	2
11	MP-6	Z	-.066	2.25
12	MP-6	Z	-.137	2
13	MP-7	Z	-.062	.5
14	MP-7	Z	-.062	.5
15	MP-8	Z	-.09	.25
16	MP-8	Z	-.055	2
17	MP-9	Z	-.09	.25

Member Point Loads (BLC 6 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP-9	Z	-.057	2
19	MP-10	Z	-.066	2.25
20	MP-11	Z	-.062	.5
21	MP-11	Z	-.062	.5
22	MP-12	Z	-.09	.25
23	MP-12	Z	-.055	2
24	MP-1	Z	-.144	5.5
25	MP-2	Z	-.031	4.25
26	MP-3	Z	-.042	5.5
27	MP-3	Z	-.042	5.5
28	MP-4	Z	-.144	5.5
29	MP-5	Z	-.09	5.5
30	MP-6	Z	-.066	4.25
31	MP-7	Z	-.062	5.5
32	MP-7	Z	-.062	5.5
33	MP-8	Z	-.09	5.5
34	MP-9	Z	-.09	5.5
35	MP-10	Z	-.066	4.25
36	MP-11	Z	-.062	5.5
37	MP-11	Z	-.062	5.5
38	MP-12	Z	-.09	5.5

Member Point Loads (BLC 7 : 120 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.063	.25
2	MP-1	X	.023	2
3	MP-2	X	.021	2.25
4	MP-2	X	.045	2
5	MP-3	X	.024	.5
6	MP-3	X	.024	.5
7	MP-4	X	.063	.25
8	MP-4	X	.02	2
9	MP-5	X	.036	.25
10	MP-5	X	.031	2
11	MP-6	X	.039	2.25
12	MP-6	X	.08	2
13	MP-7	X	.035	.5
14	MP-7	X	.035	.5
15	MP-8	X	.036	.25
16	MP-8	X	.031	2
17	MP-9	X	.063	.25
18	MP-9	X	.023	2
19	MP-10	X	.021	2.25
20	MP-11	X	.024	.5
21	MP-11	X	.024	.5
22	MP-12	X	.063	.25
23	MP-12	X	.02	2
24	MP-1	X	.063	5.5
25	MP-2	X	.021	4.25
26	MP-3	X	.024	5.5
27	MP-3	X	.024	5.5
28	MP-4	X	.063	5.5
29	MP-5	X	.036	5.5
30	MP-6	X	.039	4.25
31	MP-7	X	.035	5.5
32	MP-7	X	.035	5.5

Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP-8	X	.036	5.5
34	MP-9	X	.063	5.5
35	MP-10	X	.021	4.25
36	MP-11	X	.024	5.5
37	MP-11	X	.024	5.5
38	MP-12	X	.063	5.5
39	MP-1	Z	-.109	.25
40	MP-1	Z	-.041	2
41	MP-2	Z	-.037	2.25
42	MP-2	Z	-.078	2
43	MP-3	Z	-.042	.5
44	MP-3	Z	-.042	.5
45	MP-4	Z	-.109	.25
46	MP-4	Z	-.035	2
47	MP-5	Z	-.062	.25
48	MP-5	Z	-.054	2
49	MP-6	Z	-.068	2.25
50	MP-6	Z	-.139	2
51	MP-7	Z	-.06	.5
52	MP-7	Z	-.06	.5
53	MP-8	Z	-.062	.25
54	MP-8	Z	-.054	2
55	MP-9	Z	-.109	.25
56	MP-9	Z	-.041	2
57	MP-10	Z	-.037	2.25
58	MP-11	Z	-.042	.5
59	MP-11	Z	-.042	.5
60	MP-12	Z	-.109	.25
61	MP-12	Z	-.035	2
62	MP-1	Z	-.109	5.5
63	MP-2	Z	-.037	4.25
64	MP-3	Z	-.042	5.5
65	MP-3	Z	-.042	5.5
66	MP-4	Z	-.109	5.5
67	MP-5	Z	-.062	5.5
68	MP-6	Z	-.068	4.25
69	MP-7	Z	-.06	5.5
70	MP-7	Z	-.06	5.5
71	MP-8	Z	-.062	5.5
72	MP-9	Z	-.109	5.5
73	MP-10	Z	-.037	4.25
74	MP-11	Z	-.042	5.5
75	MP-11	Z	-.042	5.5
76	MP-12	Z	-.109	5.5

Member Point Loads (BLC 8 : 135 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.076	.25
2	MP-1	X	.037	2
3	MP-2	X	.038	2.25
4	MP-2	X	.08	2
5	MP-3	X	.039	.5
6	MP-3	X	.039	.5
7	MP-4	X	.076	.25
8	MP-4	X	.034	2
9	MP-5	X	.054	.25

Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP-5	X	.043	2
11	MP-6	X	.053	2.25
12	MP-6	X	.109	2
13	MP-7	X	.048	.5
14	MP-7	X	.048	.5
15	MP-8	X	.054	.25
16	MP-8	X	.043	2
17	MP-9	X	.098	.25
18	MP-9	X	.03	2
19	MP-10	X	.024	2.25
20	MP-11	X	.031	.5
21	MP-11	X	.031	.5
22	MP-12	X	.098	.25
23	MP-12	X	.025	2
24	MP-1	X	.076	5.5
25	MP-2	X	.038	4.25
26	MP-3	X	.039	5.5
27	MP-3	X	.039	5.5
28	MP-4	X	.076	5.5
29	MP-5	X	.054	5.5
30	MP-6	X	.053	4.25
31	MP-7	X	.048	5.5
32	MP-7	X	.048	5.5
33	MP-8	X	.054	5.5
34	MP-9	X	.098	5.5
35	MP-10	X	.024	4.25
36	MP-11	X	.031	5.5
37	MP-11	X	.031	5.5
38	MP-12	X	.098	5.5
39	MP-1	Z	-.076	.25
40	MP-1	Z	-.037	2
41	MP-2	Z	-.038	2.25
42	MP-2	Z	-.08	2
43	MP-3	Z	-.039	.5
44	MP-3	Z	-.039	.5
45	MP-4	Z	-.076	.25
46	MP-4	Z	-.034	2
47	MP-5	Z	-.054	.25
48	MP-5	Z	-.043	2
49	MP-6	Z	-.053	2.25
50	MP-6	Z	-.109	2
51	MP-7	Z	-.048	.5
52	MP-7	Z	-.048	.5
53	MP-8	Z	-.054	.25
54	MP-8	Z	-.043	2
55	MP-9	Z	-.098	.25
56	MP-9	Z	-.03	2
57	MP-10	Z	-.024	2.25
58	MP-11	Z	-.031	.5
59	MP-11	Z	-.031	.5
60	MP-12	Z	-.098	.25
61	MP-12	Z	-.025	2
62	MP-1	Z	-.076	5.5
63	MP-2	Z	-.038	4.25
64	MP-3	Z	-.039	5.5
65	MP-3	Z	-.039	5.5
66	MP-4	Z	-.076	5.5

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
67	MP-5	Z	-.054	5.5
68	MP-6	Z	-.053	4.25
69	MP-7	Z	-.048	5.5
70	MP-7	Z	-.048	5.5
71	MP-8	Z	-.054	5.5
72	MP-9	Z	-.098	5.5
73	MP-10	Z	-.024	4.25
74	MP-11	Z	-.031	5.5
75	MP-11	Z	-.031	5.5
76	MP-12	Z	-.098	5.5

Member Point Loads (BLC 9 : 150 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.078	.25
2	MP-1	X	.05	2
3	MP-2	X	.057	2.25
4	MP-2	X	.118	2
5	MP-3	X	.054	.5
6	MP-3	X	.054	.5
7	MP-4	X	.078	.25
8	MP-4	X	.048	2
9	MP-5	X	.078	.25
10	MP-5	X	.05	2
11	MP-6	X	.057	2.25
12	MP-6	X	.118	2
13	MP-7	X	.054	.5
14	MP-7	X	.054	.5
15	MP-8	X	.078	.25
16	MP-8	X	.048	2
17	MP-9	X	.124	.25
18	MP-9	X	.036	2
19	MP-10	X	.027	2.25
20	MP-11	X	.036	.5
21	MP-11	X	.036	.5
22	MP-12	X	.124	.25
23	MP-12	X	.029	2
24	MP-1	X	.078	5.5
25	MP-2	X	.057	4.25
26	MP-3	X	.054	5.5
27	MP-3	X	.054	5.5
28	MP-4	X	.078	5.5
29	MP-5	X	.078	5.5
30	MP-6	X	.057	4.25
31	MP-7	X	.054	5.5
32	MP-7	X	.054	5.5
33	MP-8	X	.078	5.5
34	MP-9	X	.124	5.5
35	MP-10	X	.027	4.25
36	MP-11	X	.036	5.5
37	MP-11	X	.036	5.5
38	MP-12	X	.124	5.5
39	MP-1	Z	-.045	.25
40	MP-1	Z	-.029	2
41	MP-2	Z	-.033	2.25
42	MP-2	Z	-.068	2
43	MP-3	Z	-.031	.5

Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
44	MP-3	Z	-.031	.5
45	MP-4	Z	-.045	.25
46	MP-4	Z	-.028	2
47	MP-5	Z	-.045	.25
48	MP-5	Z	-.029	2
49	MP-6	Z	-.033	2.25
50	MP-6	Z	-.068	2
51	MP-7	Z	-.031	.5
52	MP-7	Z	-.031	.5
53	MP-8	Z	-.045	.25
54	MP-8	Z	-.028	2
55	MP-9	Z	-.072	.25
56	MP-9	Z	-.021	2
57	MP-10	Z	-.015	2.25
58	MP-11	Z	-.021	.5
59	MP-11	Z	-.021	.5
60	MP-12	Z	-.072	.25
61	MP-12	Z	-.017	2
62	MP-1	Z	-.045	5.5
63	MP-2	Z	-.033	4.25
64	MP-3	Z	-.031	5.5
65	MP-3	Z	-.031	5.5
66	MP-4	Z	-.045	5.5
67	MP-5	Z	-.045	5.5
68	MP-6	Z	-.033	4.25
69	MP-7	Z	-.031	5.5
70	MP-7	Z	-.031	5.5
71	MP-8	Z	-.045	5.5
72	MP-9	Z	-.072	5.5
73	MP-10	Z	-.015	4.25
74	MP-11	Z	-.021	5.5
75	MP-11	Z	-.021	5.5
76	MP-12	Z	-.072	5.5

Member Point Loads (BLC 10 : 180 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.072	.25
2	MP-1	X	.063	2
3	MP-2	X	.078	2.25
4	MP-2	X	.16	2
5	MP-3	X	.069	.5
6	MP-3	X	.069	.5
7	MP-4	X	.072	.25
8	MP-4	X	.063	2
9	MP-5	X	.126	.25
10	MP-5	X	.047	2
11	MP-6	X	.043	2.25
12	MP-6	X	.09	2
13	MP-7	X	.048	.5
14	MP-7	X	.048	.5
15	MP-8	X	.126	.25
16	MP-8	X	.041	2
17	MP-9	X	.126	.25
18	MP-9	X	.047	2
19	MP-10	X	.043	2.25
20	MP-11	X	.048	.5

Member Point Loads (BLC 10 : 180 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
21	MP-11	X	.048	.5
22	MP-12	X	.126	.25
23	MP-12	X	.041	2
24	MP-1	X	.072	5.5
25	MP-2	X	.078	4.25
26	MP-3	X	.069	5.5
27	MP-3	X	.069	5.5
28	MP-4	X	.072	5.5
29	MP-5	X	.126	5.5
30	MP-6	X	.043	4.25
31	MP-7	X	.048	5.5
32	MP-7	X	.048	5.5
33	MP-8	X	.126	5.5
34	MP-9	X	.126	5.5
35	MP-10	X	.043	4.25
36	MP-11	X	.048	5.5
37	MP-11	X	.048	5.5
38	MP-12	X	.126	5.5

Member Point Loads (BLC 11 : 210 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.078	.25
2	MP-1	X	.05	2
3	MP-2	X	.057	2.25
4	MP-2	X	.118	2
5	MP-3	X	.054	.5
6	MP-3	X	.054	.5
7	MP-4	X	.078	.25
8	MP-4	X	.048	2
9	MP-5	X	.124	.25
10	MP-5	X	.036	2
11	MP-6	X	.027	2.25
12	MP-6	X	.058	2
13	MP-7	X	.036	.5
14	MP-7	X	.036	.5
15	MP-8	X	.124	.25
16	MP-8	X	.029	2
17	MP-9	X	.078	.25
18	MP-9	X	.05	2
19	MP-10	X	.057	2.25
20	MP-11	X	.054	.5
21	MP-11	X	.054	.5
22	MP-12	X	.078	.25
23	MP-12	X	.048	2
24	MP-1	X	.078	5.5
25	MP-2	X	.057	4.25
26	MP-3	X	.054	5.5
27	MP-3	X	.054	5.5
28	MP-4	X	.078	5.5
29	MP-5	X	.124	5.5
30	MP-6	X	.027	4.25
31	MP-7	X	.036	5.5
32	MP-7	X	.036	5.5
33	MP-8	X	.124	5.5
34	MP-9	X	.078	5.5
35	MP-10	X	.057	4.25

Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
36	MP-11	X	.054	5.5
37	MP-11	X	.054	5.5
38	MP-12	X	.078	5.5
39	MP-1	Z	.045	.25
40	MP-1	Z	.029	2
41	MP-2	Z	.033	2.25
42	MP-2	Z	.068	2
43	MP-3	Z	.031	.5
44	MP-3	Z	.031	.5
45	MP-4	Z	.045	.25
46	MP-4	Z	.028	2
47	MP-5	Z	.072	.25
48	MP-5	Z	.021	2
49	MP-6	Z	.015	2.25
50	MP-6	Z	.033	2
51	MP-7	Z	.021	.5
52	MP-7	Z	.021	.5
53	MP-8	Z	.072	.25
54	MP-8	Z	.017	2
55	MP-9	Z	.045	.25
56	MP-9	Z	.029	2
57	MP-10	Z	.033	2.25
58	MP-11	Z	.031	.5
59	MP-11	Z	.031	.5
60	MP-12	Z	.045	.25
61	MP-12	Z	.028	2
62	MP-1	Z	.045	5.5
63	MP-2	Z	.033	4.25
64	MP-3	Z	.031	5.5
65	MP-3	Z	.031	5.5
66	MP-4	Z	.045	5.5
67	MP-5	Z	.072	5.5
68	MP-6	Z	.015	4.25
69	MP-7	Z	.021	5.5
70	MP-7	Z	.021	5.5
71	MP-8	Z	.072	5.5
72	MP-9	Z	.045	5.5
73	MP-10	Z	.033	4.25
74	MP-11	Z	.031	5.5
75	MP-11	Z	.031	5.5
76	MP-12	Z	.045	5.5

Member Point Loads (BLC 12 : 225 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.076	.25
2	MP-1	X	.037	2
3	MP-2	X	.038	2.25
4	MP-2	X	.08	2
5	MP-3	X	.039	.5
6	MP-3	X	.039	.5
7	MP-4	X	.076	.25
8	MP-4	X	.034	2
9	MP-5	X	.098	.25
10	MP-5	X	.03	2
11	MP-6	X	.024	2.25
12	MP-6	X	.052	2

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP-7	X	.031	.5
14	MP-7	X	.031	.5
15	MP-8	X	.098	.25
16	MP-8	X	.025	2
17	MP-9	X	.054	.25
18	MP-9	X	.043	2
19	MP-10	X	.053	2.25
20	MP-11	X	.048	.5
21	MP-11	X	.048	.5
22	MP-12	X	.054	.25
23	MP-12	X	.043	2
24	MP-1	X	.076	5.5
25	MP-2	X	.038	4.25
26	MP-3	X	.039	5.5
27	MP-3	X	.039	5.5
28	MP-4	X	.076	5.5
29	MP-5	X	.098	5.5
30	MP-6	X	.024	4.25
31	MP-7	X	.031	5.5
32	MP-7	X	.031	5.5
33	MP-8	X	.098	5.5
34	MP-9	X	.054	5.5
35	MP-10	X	.053	4.25
36	MP-11	X	.048	5.5
37	MP-11	X	.048	5.5
38	MP-12	X	.054	5.5
39	MP-1	Z	.076	.25
40	MP-1	Z	.037	2
41	MP-2	Z	.038	2.25
42	MP-2	Z	.08	2
43	MP-3	Z	.039	.5
44	MP-3	Z	.039	.5
45	MP-4	Z	.076	.25
46	MP-4	Z	.034	2
47	MP-5	Z	.098	.25
48	MP-5	Z	.03	2
49	MP-6	Z	.024	2.25
50	MP-6	Z	.052	2
51	MP-7	Z	.031	.5
52	MP-7	Z	.031	.5
53	MP-8	Z	.098	.25
54	MP-8	Z	.025	2
55	MP-9	Z	.054	.25
56	MP-9	Z	.043	2
57	MP-10	Z	.053	2.25
58	MP-11	Z	.048	.5
59	MP-11	Z	.048	.5
60	MP-12	Z	.054	.25
61	MP-12	Z	.043	2
62	MP-1	Z	.076	5.5
63	MP-2	Z	.038	4.25
64	MP-3	Z	.039	5.5
65	MP-3	Z	.039	5.5
66	MP-4	Z	.076	5.5
67	MP-5	Z	.098	5.5
68	MP-6	Z	.024	4.25
69	MP-7	Z	.031	5.5

Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
70	MP-7	Z	.031	5.5
71	MP-8	Z	.098	5.5
72	MP-9	Z	.054	5.5
73	MP-10	Z	.053	4.25
74	MP-11	Z	.048	5.5
75	MP-11	Z	.048	5.5
76	MP-12	Z	.054	5.5

Member Point Loads (BLC 13 : 240 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.063	.25
2	MP-1	X	.023	2
3	MP-2	X	.021	2.25
4	MP-2	X	.045	2
5	MP-3	X	.024	.5
6	MP-3	X	.024	.5
7	MP-4	X	.063	.25
8	MP-4	X	.02	2
9	MP-5	X	.063	.25
10	MP-5	X	.023	2
11	MP-6	X	.021	2.25
12	MP-6	X	.045	2
13	MP-7	X	.024	.5
14	MP-7	X	.024	.5
15	MP-8	X	.063	.25
16	MP-8	X	.02	2
17	MP-9	X	.036	.25
18	MP-9	X	.031	2
19	MP-10	X	.039	2.25
20	MP-11	X	.035	.5
21	MP-11	X	.035	.5
22	MP-12	X	.036	.25
23	MP-12	X	.031	2
24	MP-1	X	.063	5.5
25	MP-2	X	.021	4.25
26	MP-3	X	.024	5.5
27	MP-3	X	.024	5.5
28	MP-4	X	.063	5.5
29	MP-5	X	.063	5.5
30	MP-6	X	.021	4.25
31	MP-7	X	.024	5.5
32	MP-7	X	.024	5.5
33	MP-8	X	.063	5.5
34	MP-9	X	.036	5.5
35	MP-10	X	.039	4.25
36	MP-11	X	.035	5.5
37	MP-11	X	.035	5.5
38	MP-12	X	.036	5.5
39	MP-1	Z	.109	.25
40	MP-1	Z	.041	2
41	MP-2	Z	.037	2.25
42	MP-2	Z	.078	2
43	MP-3	Z	.042	.5
44	MP-3	Z	.042	.5
45	MP-4	Z	.109	.25
46	MP-4	Z	.035	2

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
47	MP-5	Z	.109	.25
48	MP-5	Z	.041	2
49	MP-6	Z	.037	2.25
50	MP-6	Z	.078	2
51	MP-7	Z	.042	.5
52	MP-7	Z	.042	.5
53	MP-8	Z	.109	.25
54	MP-8	Z	.035	2
55	MP-9	Z	.062	.25
56	MP-9	Z	.054	2
57	MP-10	Z	.068	2.25
58	MP-11	Z	.06	.5
59	MP-11	Z	.06	.5
60	MP-12	Z	.062	.25
61	MP-12	Z	.054	2
62	MP-1	Z	.109	5.5
63	MP-2	Z	.037	4.25
64	MP-3	Z	.042	5.5
65	MP-3	Z	.042	5.5
66	MP-4	Z	.109	5.5
67	MP-5	Z	.109	5.5
68	MP-6	Z	.037	4.25
69	MP-7	Z	.042	5.5
70	MP-7	Z	.042	5.5
71	MP-8	Z	.109	5.5
72	MP-9	Z	.062	5.5
73	MP-10	Z	.068	4.25
74	MP-11	Z	.06	5.5
75	MP-11	Z	.06	5.5
76	MP-12	Z	.062	5.5

Member Point Loads (BLC 14 : 270 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	.144	.25
2	MP-1	Z	.042	2
3	MP-2	Z	.031	2.25
4	MP-2	Z	.067	2
5	MP-3	Z	.042	.5
6	MP-3	Z	.042	.5
7	MP-4	Z	.144	.25
8	MP-4	Z	.034	2
9	MP-5	Z	.09	.25
10	MP-5	Z	.057	2
11	MP-6	Z	.066	2.25
12	MP-6	Z	.137	2
13	MP-7	Z	.062	.5
14	MP-7	Z	.062	.5
15	MP-8	Z	.09	.25
16	MP-8	Z	.055	2
17	MP-9	Z	.09	.25
18	MP-9	Z	.057	2
19	MP-10	Z	.066	2.25
20	MP-11	Z	.062	.5
21	MP-11	Z	.062	.5
22	MP-12	Z	.09	.25
23	MP-12	Z	.055	2

Member Point Loads (BLC 14 : 270 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
24	MP-1	Z	.144	5.5
25	MP-2	Z	.031	4.25
26	MP-3	Z	.042	5.5
27	MP-3	Z	.042	5.5
28	MP-4	Z	.144	5.5
29	MP-5	Z	.09	5.5
30	MP-6	Z	.066	4.25
31	MP-7	Z	.062	5.5
32	MP-7	Z	.062	5.5
33	MP-8	Z	.09	5.5
34	MP-9	Z	.09	5.5
35	MP-10	Z	.066	4.25
36	MP-11	Z	.062	5.5
37	MP-11	Z	.062	5.5
38	MP-12	Z	.09	5.5

Member Point Loads (BLC 15 : 300 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.063	.25
2	MP-1	X	-.023	2
3	MP-2	X	-.021	2.25
4	MP-2	X	-.045	2
5	MP-3	X	-.024	.5
6	MP-3	X	-.024	.5
7	MP-4	X	-.063	.25
8	MP-4	X	-.02	2
9	MP-5	X	-.036	.25
10	MP-5	X	-.031	2
11	MP-6	X	-.039	2.25
12	MP-6	X	-.08	2
13	MP-7	X	-.035	.5
14	MP-7	X	-.035	.5
15	MP-8	X	-.036	.25
16	MP-8	X	-.031	2
17	MP-9	X	-.063	.25
18	MP-9	X	-.023	2
19	MP-10	X	-.021	2.25
20	MP-11	X	-.024	.5
21	MP-11	X	-.024	.5
22	MP-12	X	-.063	.25
23	MP-12	X	-.02	2
24	MP-1	X	-.063	5.5
25	MP-2	X	-.021	4.25
26	MP-3	X	-.024	5.5
27	MP-3	X	-.024	5.5
28	MP-4	X	-.063	5.5
29	MP-5	X	-.036	5.5
30	MP-6	X	-.039	4.25
31	MP-7	X	-.035	5.5
32	MP-7	X	-.035	5.5
33	MP-8	X	-.036	5.5
34	MP-9	X	-.063	5.5
35	MP-10	X	-.021	4.25
36	MP-11	X	-.024	5.5
37	MP-11	X	-.024	5.5
38	MP-12	X	-.063	5.5

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP-1	Z	.109	.25
40	MP-1	Z	.041	2
41	MP-2	Z	.037	2.25
42	MP-2	Z	.078	2
43	MP-3	Z	.042	.5
44	MP-3	Z	.042	.5
45	MP-4	Z	.109	.25
46	MP-4	Z	.035	2
47	MP-5	Z	.062	.25
48	MP-5	Z	.054	2
49	MP-6	Z	.068	2.25
50	MP-6	Z	.139	2
51	MP-7	Z	.06	.5
52	MP-7	Z	.06	.5
53	MP-8	Z	.062	.25
54	MP-8	Z	.054	2
55	MP-9	Z	.109	.25
56	MP-9	Z	.041	2
57	MP-10	Z	.037	2.25
58	MP-11	Z	.042	.5
59	MP-11	Z	.042	.5
60	MP-12	Z	.109	.25
61	MP-12	Z	.035	2
62	MP-1	Z	.109	5.5
63	MP-2	Z	.037	4.25
64	MP-3	Z	.042	5.5
65	MP-3	Z	.042	5.5
66	MP-4	Z	.109	5.5
67	MP-5	Z	.062	5.5
68	MP-6	Z	.068	4.25
69	MP-7	Z	.06	5.5
70	MP-7	Z	.06	5.5
71	MP-8	Z	.062	5.5
72	MP-9	Z	.109	5.5
73	MP-10	Z	.037	4.25
74	MP-11	Z	.042	5.5
75	MP-11	Z	.042	5.5
76	MP-12	Z	.109	5.5

Member Point Loads (BLC 16 : 315 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.076	.25
2	MP-1	X	-.037	2
3	MP-2	X	-.038	2.25
4	MP-2	X	-.08	2
5	MP-3	X	-.039	.5
6	MP-3	X	-.039	.5
7	MP-4	X	-.076	.25
8	MP-4	X	-.034	2
9	MP-5	X	-.054	.25
10	MP-5	X	-.043	2
11	MP-6	X	-.053	2.25
12	MP-6	X	-.109	2
13	MP-7	X	-.048	.5
14	MP-7	X	-.048	.5
15	MP-8	X	-.054	.25

Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP-8	X	-.043	2
17	MP-9	X	-.098	.25
18	MP-9	X	-.03	2
19	MP-10	X	-.024	2.25
20	MP-11	X	-.031	.5
21	MP-11	X	-.031	.5
22	MP-12	X	-.098	.25
23	MP-12	X	-.025	2
24	MP-1	X	-.076	5.5
25	MP-2	X	-.038	4.25
26	MP-3	X	-.039	5.5
27	MP-3	X	-.039	5.5
28	MP-4	X	-.076	5.5
29	MP-5	X	-.054	5.5
30	MP-6	X	-.053	4.25
31	MP-7	X	-.048	5.5
32	MP-7	X	-.048	5.5
33	MP-8	X	-.054	5.5
34	MP-9	X	-.098	5.5
35	MP-10	X	-.024	4.25
36	MP-11	X	-.031	5.5
37	MP-11	X	-.031	5.5
38	MP-12	X	-.098	5.5
39	MP-1	Z	.076	.25
40	MP-1	Z	.037	2
41	MP-2	Z	.038	2.25
42	MP-2	Z	.08	2
43	MP-3	Z	.039	.5
44	MP-3	Z	.039	.5
45	MP-4	Z	.076	.25
46	MP-4	Z	.034	2
47	MP-5	Z	.054	.25
48	MP-5	Z	.043	2
49	MP-6	Z	.053	2.25
50	MP-6	Z	.109	2
51	MP-7	Z	.048	.5
52	MP-7	Z	.048	.5
53	MP-8	Z	.054	.25
54	MP-8	Z	.043	2
55	MP-9	Z	.098	.25
56	MP-9	Z	.03	2
57	MP-10	Z	.024	2.25
58	MP-11	Z	.031	.5
59	MP-11	Z	.031	.5
60	MP-12	Z	.098	.25
61	MP-12	Z	.025	2
62	MP-1	Z	.076	5.5
63	MP-2	Z	.038	4.25
64	MP-3	Z	.039	5.5
65	MP-3	Z	.039	5.5
66	MP-4	Z	.076	5.5
67	MP-5	Z	.054	5.5
68	MP-6	Z	.053	4.25
69	MP-7	Z	.048	5.5
70	MP-7	Z	.048	5.5
71	MP-8	Z	.054	5.5
72	MP-9	Z	.098	5.5

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
73	MP-10	Z	.024	4.25
74	MP-11	Z	.031	5.5
75	MP-11	Z	.031	5.5
76	MP-12	Z	.098	5.5

Member Point Loads (BLC 17 : 330 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.078	.25
2	MP-1	X	-.05	2
3	MP-2	X	-.057	2.25
4	MP-2	X	-.118	2
5	MP-3	X	-.054	.5
6	MP-3	X	-.054	.5
7	MP-4	X	-.078	.25
8	MP-4	X	-.048	2
9	MP-5	X	-.078	.25
10	MP-5	X	-.05	2
11	MP-6	X	-.057	2.25
12	MP-6	X	-.118	2
13	MP-7	X	-.054	.5
14	MP-7	X	-.054	.5
15	MP-8	X	-.078	.25
16	MP-8	X	-.048	2
17	MP-9	X	-.124	.25
18	MP-9	X	-.036	2
19	MP-10	X	-.027	2.25
20	MP-11	X	-.036	.5
21	MP-11	X	-.036	.5
22	MP-12	X	-.124	.25
23	MP-12	X	-.029	2
24	MP-1	X	-.078	5.5
25	MP-2	X	-.057	4.25
26	MP-3	X	-.054	5.5
27	MP-3	X	-.054	5.5
28	MP-4	X	-.078	5.5
29	MP-5	X	-.078	5.5
30	MP-6	X	-.057	4.25
31	MP-7	X	-.054	5.5
32	MP-7	X	-.054	5.5
33	MP-8	X	-.078	5.5
34	MP-9	X	-.124	5.5
35	MP-10	X	-.027	4.25
36	MP-11	X	-.036	5.5
37	MP-11	X	-.036	5.5
38	MP-12	X	-.124	5.5
39	MP-1	Z	.045	.25
40	MP-1	Z	.029	2
41	MP-2	Z	.033	2.25
42	MP-2	Z	.068	2
43	MP-3	Z	.031	.5
44	MP-3	Z	.031	.5
45	MP-4	Z	.045	.25
46	MP-4	Z	.028	2
47	MP-5	Z	.045	.25
48	MP-5	Z	.029	2
49	MP-6	Z	.033	2.25

Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
50	MP-6	Z	.068	2
51	MP-7	Z	.031	.5
52	MP-7	Z	.031	.5
53	MP-8	Z	.045	.25
54	MP-8	Z	.028	2
55	MP-9	Z	.072	.25
56	MP-9	Z	.021	2
57	MP-10	Z	.015	2.25
58	MP-11	Z	.021	.5
59	MP-11	Z	.021	.5
60	MP-12	Z	.072	.25
61	MP-12	Z	.017	2
62	MP-1	Z	.045	5.5
63	MP-2	Z	.033	4.25
64	MP-3	Z	.031	5.5
65	MP-3	Z	.031	5.5
66	MP-4	Z	.045	5.5
67	MP-5	Z	.045	5.5
68	MP-6	Z	.033	4.25
69	MP-7	Z	.031	5.5
70	MP-7	Z	.031	5.5
71	MP-8	Z	.045	5.5
72	MP-9	Z	.072	5.5
73	MP-10	Z	.015	4.25
74	MP-11	Z	.021	5.5
75	MP-11	Z	.021	5.5
76	MP-12	Z	.072	5.5

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Y	-.097	.25
2	MP-1	Y	-.076	2
3	MP-2	Y	-.059	2.25
4	MP-2	Y	-.143	2
5	MP-3	Y	-.101	.5
6	MP-3	Y	-.101	.5
7	MP-4	Y	-.097	.25
8	MP-4	Y	-.069	2
9	MP-5	Y	-.097	.25
10	MP-5	Y	-.076	2
11	MP-6	Y	-.059	2.25
12	MP-6	Y	-.143	2
13	MP-7	Y	-.101	.5
14	MP-7	Y	-.101	.5
15	MP-8	Y	-.097	.25
16	MP-8	Y	-.069	2
17	MP-9	Y	-.097	.25
18	MP-9	Y	-.076	2
19	MP-10	Y	-.059	2.25
20	MP-11	Y	-.101	.5
21	MP-11	Y	-.101	.5
22	MP-12	Y	-.097	.25
23	MP-12	Y	-.069	2
24	MP-1	Y	-.097	5.5
25	MP-2	Y	-.059	4.25
26	MP-3	Y	-.101	5.5

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 18 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
27	MP-3	Y	-.101	5.5
28	MP-4	Y	-.097	5.5
29	MP-5	Y	-.097	5.5
30	MP-6	Y	-.059	4.25
31	MP-7	Y	-.101	5.5
32	MP-7	Y	-.101	5.5
33	MP-8	Y	-.097	5.5
34	MP-9	Y	-.097	5.5
35	MP-10	Y	-.059	4.25
36	MP-11	Y	-.101	5.5
37	MP-11	Y	-.101	5.5
38	MP-12	Y	-.097	5.5

Member Point Loads (BLC 19 : 0 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.019	.25
2	MP-1	X	-.016	2
3	MP-2	X	-.018	2.25
4	MP-2	X	-.036	2
5	MP-3	X	-.016	.5
6	MP-3	X	-.016	.5
7	MP-4	X	-.019	.25
8	MP-4	X	-.016	2
9	MP-5	X	-.019	.25
10	MP-5	X	-.016	2
11	MP-6	X	-.018	2.25
12	MP-6	X	-.036	2
13	MP-7	X	-.016	.5
14	MP-7	X	-.016	.5
15	MP-8	X	-.019	.25
16	MP-8	X	-.016	2
17	MP-9	X	-.019	.25
18	MP-9	X	-.016	2
19	MP-10	X	-.018	2.25
20	MP-11	X	-.016	.5
21	MP-11	X	-.016	.5
22	MP-12	X	-.019	.25
23	MP-12	X	-.016	2
24	MP-1	X	-.019	5.5
25	MP-2	X	-.018	4.25
26	MP-3	X	-.016	5.5
27	MP-3	X	-.016	5.5
28	MP-4	X	-.019	5.5
29	MP-5	X	-.019	5.5
30	MP-6	X	-.018	4.25
31	MP-7	X	-.016	5.5
32	MP-7	X	-.016	5.5
33	MP-8	X	-.019	5.5
34	MP-9	X	-.019	5.5
35	MP-10	X	-.018	4.25
36	MP-11	X	-.016	5.5
37	MP-11	X	-.016	5.5
38	MP-12	X	-.019	5.5

Member Point Loads (BLC 20 : 30 Wind - Ice)

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

Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.02	.25
2	MP-1	X	-.013	2
3	MP-2	X	-.014	2.25
4	MP-2	X	-.028	2
5	MP-3	X	-.012	.5
6	MP-3	X	-.012	.5
7	MP-4	X	-.02	.25
8	MP-4	X	-.013	2
9	MP-5	X	-.028	.25
10	MP-5	X	-.01	2
11	MP-6	X	-.008	2.25
12	MP-6	X	-.015	2
13	MP-7	X	-.009	.5
14	MP-7	X	-.009	.5
15	MP-8	X	-.028	.25
16	MP-8	X	-.009	2
17	MP-9	X	-.02	.25
18	MP-9	X	-.013	2
19	MP-10	X	-.014	2.25
20	MP-11	X	-.012	.5
21	MP-11	X	-.012	.5
22	MP-12	X	-.02	.25
23	MP-12	X	-.013	2
24	MP-1	X	-.02	5.5
25	MP-2	X	-.014	4.25
26	MP-3	X	-.012	5.5
27	MP-3	X	-.012	5.5
28	MP-4	X	-.02	5.5
29	MP-5	X	-.028	5.5
30	MP-6	X	-.008	4.25
31	MP-7	X	-.009	5.5
32	MP-7	X	-.009	5.5
33	MP-8	X	-.028	5.5
34	MP-9	X	-.02	5.5
35	MP-10	X	-.014	4.25
36	MP-11	X	-.012	5.5
37	MP-11	X	-.012	5.5
38	MP-12	X	-.02	5.5
39	MP-1	Z	-.011	.25
40	MP-1	Z	-.008	2
41	MP-2	Z	-.008	2.25
42	MP-2	Z	-.016	2
43	MP-3	Z	-.007	.5
44	MP-3	Z	-.007	.5
45	MP-4	Z	-.011	.25
46	MP-4	Z	-.007	2
47	MP-5	Z	-.016	.25
48	MP-5	Z	-.006	2
49	MP-6	Z	-.004	2.25
50	MP-6	Z	-.009	2
51	MP-7	Z	-.005	.5
52	MP-7	Z	-.005	.5
53	MP-8	Z	-.016	.25
54	MP-8	Z	-.005	2
55	MP-9	Z	-.011	.25
56	MP-9	Z	-.008	2
57	MP-10	Z	-.008	2.25

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP-11	Z	-.007	.5
59	MP-11	Z	-.007	.5
60	MP-12	Z	-.011	.25
61	MP-12	Z	-.007	2
62	MP-1	Z	-.011	5.5
63	MP-2	Z	-.008	4.25
64	MP-3	Z	-.007	5.5
65	MP-3	Z	-.007	5.5
66	MP-4	Z	-.011	5.5
67	MP-5	Z	-.016	5.5
68	MP-6	Z	-.004	4.25
69	MP-7	Z	-.005	5.5
70	MP-7	Z	-.005	5.5
71	MP-8	Z	-.016	5.5
72	MP-9	Z	-.011	5.5
73	MP-10	Z	-.008	4.25
74	MP-11	Z	-.007	5.5
75	MP-11	Z	-.007	5.5
76	MP-12	Z	-.011	5.5

Member Point Loads (BLC 21 : 45 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.018	.25
2	MP-1	X	-.01	2
3	MP-2	X	-.01	2.25
4	MP-2	X	-.019	2
5	MP-3	X	-.009	.5
6	MP-3	X	-.009	.5
7	MP-4	X	-.018	.25
8	MP-4	X	-.009	2
9	MP-5	X	-.022	.25
10	MP-5	X	-.009	2
11	MP-6	X	-.007	2.25
12	MP-6	X	-.013	2
13	MP-7	X	-.008	.5
14	MP-7	X	-.008	.5
15	MP-8	X	-.022	.25
16	MP-8	X	-.008	2
17	MP-9	X	-.014	.25
18	MP-9	X	-.011	2
19	MP-10	X	-.012	2.25
20	MP-11	X	-.011	.5
21	MP-11	X	-.011	.5
22	MP-12	X	-.014	.25
23	MP-12	X	-.011	2
24	MP-1	X	-.018	5.5
25	MP-2	X	-.01	4.25
26	MP-3	X	-.009	5.5
27	MP-3	X	-.009	5.5
28	MP-4	X	-.018	5.5
29	MP-5	X	-.022	5.5
30	MP-6	X	-.007	4.25
31	MP-7	X	-.008	5.5
32	MP-7	X	-.008	5.5
33	MP-8	X	-.022	5.5
34	MP-9	X	-.014	5.5

Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP-10	X	-.012	4.25
36	MP-11	X	-.011	5.5
37	MP-11	X	-.011	5.5
38	MP-12	X	-.014	5.5
39	MP-1	Z	-.018	.25
40	MP-1	Z	-.01	2
41	MP-2	Z	-.01	2.25
42	MP-2	Z	-.019	2
43	MP-3	Z	-.009	.5
44	MP-3	Z	-.009	.5
45	MP-4	Z	-.018	.25
46	MP-4	Z	-.009	2
47	MP-5	Z	-.022	.25
48	MP-5	Z	-.009	2
49	MP-6	Z	-.007	2.25
50	MP-6	Z	-.013	2
51	MP-7	Z	-.008	.5
52	MP-7	Z	-.008	.5
53	MP-8	Z	-.022	.25
54	MP-8	Z	-.008	2
55	MP-9	Z	-.014	.25
56	MP-9	Z	-.011	2
57	MP-10	Z	-.012	2.25
58	MP-11	Z	-.011	.5
59	MP-11	Z	-.011	.5
60	MP-12	Z	-.014	.25
61	MP-12	Z	-.011	2
62	MP-1	Z	-.018	5.5
63	MP-2	Z	-.01	4.25
64	MP-3	Z	-.009	5.5
65	MP-3	Z	-.009	5.5
66	MP-4	Z	-.018	5.5
67	MP-5	Z	-.022	5.5
68	MP-6	Z	-.007	4.25
69	MP-7	Z	-.008	5.5
70	MP-7	Z	-.008	5.5
71	MP-8	Z	-.022	5.5
72	MP-9	Z	-.014	5.5
73	MP-10	Z	-.012	4.25
74	MP-11	Z	-.011	5.5
75	MP-11	Z	-.011	5.5
76	MP-12	Z	-.014	5.5

Member Point Loads (BLC 22 : 60 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.014	.25
2	MP-1	X	-.007	2
3	MP-2	X	-.006	2.25
4	MP-2	X	-.011	2
5	MP-3	X	-.006	.5
6	MP-3	X	-.006	.5
7	MP-4	X	-.014	.25
8	MP-4	X	-.006	2
9	MP-5	X	-.014	.25
10	MP-5	X	-.007	2
11	MP-6	X	-.006	2.25

Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP-6	X	-.011	2
13	MP-7	X	-.006	.5
14	MP-7	X	-.006	.5
15	MP-8	X	-.014	.25
16	MP-8	X	-.006	2
17	MP-9	X	-.01	.25
18	MP-9	X	-.008	2
19	MP-10	X	-.009	2.25
20	MP-11	X	-.008	.5
21	MP-11	X	-.008	.5
22	MP-12	X	-.01	.25
23	MP-12	X	-.008	2
24	MP-1	X	-.014	5.5
25	MP-2	X	-.006	4.25
26	MP-3	X	-.006	5.5
27	MP-3	X	-.006	5.5
28	MP-4	X	-.014	5.5
29	MP-5	X	-.014	5.5
30	MP-6	X	-.006	4.25
31	MP-7	X	-.006	5.5
32	MP-7	X	-.006	5.5
33	MP-8	X	-.014	5.5
34	MP-9	X	-.01	5.5
35	MP-10	X	-.009	4.25
36	MP-11	X	-.008	5.5
37	MP-11	X	-.008	5.5
38	MP-12	X	-.01	5.5
39	MP-1	Z	-.025	.25
40	MP-1	Z	-.011	2
41	MP-2	Z	-.01	2.25
42	MP-2	Z	-.019	2
43	MP-3	Z	-.01	.5
44	MP-3	Z	-.01	.5
45	MP-4	Z	-.025	.25
46	MP-4	Z	-.01	2
47	MP-5	Z	-.025	.25
48	MP-5	Z	-.011	2
49	MP-6	Z	-.01	2.25
50	MP-6	Z	-.019	2
51	MP-7	Z	-.01	.5
52	MP-7	Z	-.01	.5
53	MP-8	Z	-.025	.25
54	MP-8	Z	-.01	2
55	MP-9	Z	-.017	.25
56	MP-9	Z	-.014	2
57	MP-10	Z	-.016	2.25
58	MP-11	Z	-.014	.5
59	MP-11	Z	-.014	.5
60	MP-12	Z	-.017	.25
61	MP-12	Z	-.014	2
62	MP-1	Z	-.025	5.5
63	MP-2	Z	-.01	4.25
64	MP-3	Z	-.01	5.5
65	MP-3	Z	-.01	5.5
66	MP-4	Z	-.025	5.5
67	MP-5	Z	-.025	5.5
68	MP-6	Z	-.01	4.25

Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
69	MP-7	Z	-.01	5.5
70	MP-7	Z	-.01	5.5
71	MP-8	Z	-.025	5.5
72	MP-9	Z	-.017	5.5
73	MP-10	Z	-.016	4.25
74	MP-11	Z	-.014	5.5
75	MP-11	Z	-.014	5.5
76	MP-12	Z	-.017	5.5

Member Point Loads (BLC 23 : 90 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-.032	.25
2	MP-1	Z	-.012	2
3	MP-2	Z	-.009	2.25
4	MP-2	Z	-.018	2
5	MP-3	Z	-.011	.5
6	MP-3	Z	-.011	.5
7	MP-4	Z	-.032	.25
8	MP-4	Z	-.01	2
9	MP-5	Z	-.032	.25
10	MP-5	Z	-.012	2
11	MP-6	Z	-.009	2.25
12	MP-6	Z	-.018	2
13	MP-7	Z	-.011	.5
14	MP-7	Z	-.011	.5
15	MP-8	Z	-.032	.25
16	MP-8	Z	-.01	2
17	MP-9	Z	-.032	.25
18	MP-9	Z	-.012	2
19	MP-10	Z	-.009	2.25
20	MP-11	Z	-.011	.5
21	MP-11	Z	-.011	.5
22	MP-12	Z	-.032	.25
23	MP-12	Z	-.01	2
24	MP-1	Z	-.032	5.5
25	MP-2	Z	-.009	4.25
26	MP-3	Z	-.011	5.5
27	MP-3	Z	-.011	5.5
28	MP-4	Z	-.032	5.5
29	MP-5	Z	-.032	5.5
30	MP-6	Z	-.009	4.25
31	MP-7	Z	-.011	5.5
32	MP-7	Z	-.011	5.5
33	MP-8	Z	-.032	5.5
34	MP-9	Z	-.032	5.5
35	MP-10	Z	-.009	4.25
36	MP-11	Z	-.011	5.5
37	MP-11	Z	-.011	5.5
38	MP-12	Z	-.032	5.5

Member Point Loads (BLC 24 : 120 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.014	.25
2	MP-1	X	.007	2
3	MP-2	X	.006	2.25
4	MP-2	X	.011	2

Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
5	MP-3	X	.006	.5
6	MP-3	X	.006	.5
7	MP-4	X	.014	.25
8	MP-4	X	.006	2
9	MP-5	X	.01	.25
10	MP-5	X	.008	2
11	MP-6	X	.009	2.25
12	MP-6	X	.018	2
13	MP-7	X	.008	.5
14	MP-7	X	.008	.5
15	MP-8	X	.01	.25
16	MP-8	X	.008	2
17	MP-9	X	.014	.25
18	MP-9	X	.007	2
19	MP-10	X	.006	2.25
20	MP-11	X	.006	.5
21	MP-11	X	.006	.5
22	MP-12	X	.014	.25
23	MP-12	X	.006	2
24	MP-1	X	.014	5.5
25	MP-2	X	.006	4.25
26	MP-3	X	.006	5.5
27	MP-3	X	.006	5.5
28	MP-4	X	.014	5.5
29	MP-5	X	.01	5.5
30	MP-6	X	.009	4.25
31	MP-7	X	.008	5.5
32	MP-7	X	.008	5.5
33	MP-8	X	.01	5.5
34	MP-9	X	.014	5.5
35	MP-10	X	.006	4.25
36	MP-11	X	.006	5.5
37	MP-11	X	.006	5.5
38	MP-12	X	.014	5.5
39	MP-1	Z	-.025	.25
40	MP-1	Z	-.011	2
41	MP-2	Z	-.01	2.25
42	MP-2	Z	-.019	2
43	MP-3	Z	-.01	.5
44	MP-3	Z	-.01	.5
45	MP-4	Z	-.025	.25
46	MP-4	Z	-.01	2
47	MP-5	Z	-.017	.25
48	MP-5	Z	-.014	2
49	MP-6	Z	-.016	2.25
50	MP-6	Z	-.032	2
51	MP-7	Z	-.014	.5
52	MP-7	Z	-.014	.5
53	MP-8	Z	-.017	.25
54	MP-8	Z	-.014	2
55	MP-9	Z	-.025	.25
56	MP-9	Z	-.011	2
57	MP-10	Z	-.01	2.25
58	MP-11	Z	-.01	.5
59	MP-11	Z	-.01	.5
60	MP-12	Z	-.025	.25
61	MP-12	Z	-.01	2

Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
62	MP-1	Z	-.025	5.5
63	MP-2	Z	-.01	4.25
64	MP-3	Z	-.01	5.5
65	MP-3	Z	-.01	5.5
66	MP-4	Z	-.025	5.5
67	MP-5	Z	-.017	5.5
68	MP-6	Z	-.016	4.25
69	MP-7	Z	-.014	5.5
70	MP-7	Z	-.014	5.5
71	MP-8	Z	-.017	5.5
72	MP-9	Z	-.025	5.5
73	MP-10	Z	-.01	4.25
74	MP-11	Z	-.01	5.5
75	MP-11	Z	-.01	5.5
76	MP-12	Z	-.025	5.5

Member Point Loads (BLC 25 : 135 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.018	.25
2	MP-1	X	.01	2
3	MP-2	X	.01	2.25
4	MP-2	X	.019	2
5	MP-3	X	.009	.5
6	MP-3	X	.009	.5
7	MP-4	X	.018	.25
8	MP-4	X	.009	2
9	MP-5	X	.014	.25
10	MP-5	X	.011	2
11	MP-6	X	.012	2.25
12	MP-6	X	.025	2
13	MP-7	X	.011	.5
14	MP-7	X	.011	.5
15	MP-8	X	.014	.25
16	MP-8	X	.011	2
17	MP-9	X	.022	.25
18	MP-9	X	.009	2
19	MP-10	X	.007	2.25
20	MP-11	X	.008	.5
21	MP-11	X	.008	.5
22	MP-12	X	.022	.25
23	MP-12	X	.008	2
24	MP-1	X	.018	5.5
25	MP-2	X	.01	4.25
26	MP-3	X	.009	5.5
27	MP-3	X	.009	5.5
28	MP-4	X	.018	5.5
29	MP-5	X	.014	5.5
30	MP-6	X	.012	4.25
31	MP-7	X	.011	5.5
32	MP-7	X	.011	5.5
33	MP-8	X	.014	5.5
34	MP-9	X	.022	5.5
35	MP-10	X	.007	4.25
36	MP-11	X	.008	5.5
37	MP-11	X	.008	5.5
38	MP-12	X	.022	5.5

Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP-1	Z	-.018	.25
40	MP-1	Z	-.01	2
41	MP-2	Z	-.01	2.25
42	MP-2	Z	-.019	2
43	MP-3	Z	-.009	.5
44	MP-3	Z	-.009	.5
45	MP-4	Z	-.018	.25
46	MP-4	Z	-.009	2
47	MP-5	Z	-.014	.25
48	MP-5	Z	-.011	2
49	MP-6	Z	-.012	2.25
50	MP-6	Z	-.025	2
51	MP-7	Z	-.011	.5
52	MP-7	Z	-.011	.5
53	MP-8	Z	-.014	.25
54	MP-8	Z	-.011	2
55	MP-9	Z	-.022	.25
56	MP-9	Z	-.009	2
57	MP-10	Z	-.007	2.25
58	MP-11	Z	-.008	.5
59	MP-11	Z	-.008	.5
60	MP-12	Z	-.022	.25
61	MP-12	Z	-.008	2
62	MP-1	Z	-.018	5.5
63	MP-2	Z	-.01	4.25
64	MP-3	Z	-.009	5.5
65	MP-3	Z	-.009	5.5
66	MP-4	Z	-.018	5.5
67	MP-5	Z	-.014	5.5
68	MP-6	Z	-.012	4.25
69	MP-7	Z	-.011	5.5
70	MP-7	Z	-.011	5.5
71	MP-8	Z	-.014	5.5
72	MP-9	Z	-.022	5.5
73	MP-10	Z	-.007	4.25
74	MP-11	Z	-.008	5.5
75	MP-11	Z	-.008	5.5
76	MP-12	Z	-.022	5.5

Member Point Loads (BLC 26 : 150 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.02	.25
2	MP-1	X	.013	2
3	MP-2	X	.014	2.25
4	MP-2	X	.028	2
5	MP-3	X	.012	.5
6	MP-3	X	.012	.5
7	MP-4	X	.02	.25
8	MP-4	X	.013	2
9	MP-5	X	.02	.25
10	MP-5	X	.013	2
11	MP-6	X	.014	2.25
12	MP-6	X	.028	2
13	MP-7	X	.012	.5
14	MP-7	X	.012	.5
15	MP-8	X	.02	.25

Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP-8	X	.013	2
17	MP-9	X	.028	.25
18	MP-9	X	.01	2
19	MP-10	X	.008	2.25
20	MP-11	X	.009	.5
21	MP-11	X	.009	.5
22	MP-12	X	.028	.25
23	MP-12	X	.009	2
24	MP-1	X	.02	5.5
25	MP-2	X	.014	4.25
26	MP-3	X	.012	5.5
27	MP-3	X	.012	5.5
28	MP-4	X	.02	5.5
29	MP-5	X	.02	5.5
30	MP-6	X	.014	4.25
31	MP-7	X	.012	5.5
32	MP-7	X	.012	5.5
33	MP-8	X	.02	5.5
34	MP-9	X	.028	5.5
35	MP-10	X	.008	4.25
36	MP-11	X	.009	5.5
37	MP-11	X	.009	5.5
38	MP-12	X	.028	5.5
39	MP-1	Z	-.011	.25
40	MP-1	Z	-.008	2
41	MP-2	Z	-.008	2.25
42	MP-2	Z	-.016	2
43	MP-3	Z	-.007	.5
44	MP-3	Z	-.007	.5
45	MP-4	Z	-.011	.25
46	MP-4	Z	-.007	2
47	MP-5	Z	-.011	.25
48	MP-5	Z	-.008	2
49	MP-6	Z	-.008	2.25
50	MP-6	Z	-.016	2
51	MP-7	Z	-.007	.5
52	MP-7	Z	-.007	.5
53	MP-8	Z	-.011	.25
54	MP-8	Z	-.007	2
55	MP-9	Z	-.016	.25
56	MP-9	Z	-.006	2
57	MP-10	Z	-.004	2.25
58	MP-11	Z	-.005	.5
59	MP-11	Z	-.005	.5
60	MP-12	Z	-.016	.25
61	MP-12	Z	-.005	2
62	MP-1	Z	-.011	5.5
63	MP-2	Z	-.008	4.25
64	MP-3	Z	-.007	5.5
65	MP-3	Z	-.007	5.5
66	MP-4	Z	-.011	5.5
67	MP-5	Z	-.011	5.5
68	MP-6	Z	-.008	4.25
69	MP-7	Z	-.007	5.5
70	MP-7	Z	-.007	5.5
71	MP-8	Z	-.011	5.5
72	MP-9	Z	-.016	5.5

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
73	MP-10	Z	-.004	4.25
74	MP-11	Z	-.005	5.5
75	MP-11	Z	-.005	5.5
76	MP-12	Z	-.016	5.5

Member Point Loads (BLC 27 : 180 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.019	.25
2	MP-1	X	.016	2
3	MP-2	X	.018	2.25
4	MP-2	X	.036	2
5	MP-3	X	.016	.5
6	MP-3	X	.016	.5
7	MP-4	X	.019	.25
8	MP-4	X	.016	2
9	MP-5	X	.019	.25
10	MP-5	X	.016	2
11	MP-6	X	.018	2.25
12	MP-6	X	.036	2
13	MP-7	X	.016	.5
14	MP-7	X	.016	.5
15	MP-8	X	.019	.25
16	MP-8	X	.016	2
17	MP-9	X	.019	.25
18	MP-9	X	.016	2
19	MP-10	X	.018	2.25
20	MP-11	X	.016	.5
21	MP-11	X	.016	.5
22	MP-12	X	.019	.25
23	MP-12	X	.016	2
24	MP-1	X	.019	5.5
25	MP-2	X	.018	4.25
26	MP-3	X	.016	5.5
27	MP-3	X	.016	5.5
28	MP-4	X	.019	5.5
29	MP-5	X	.019	5.5
30	MP-6	X	.018	4.25
31	MP-7	X	.016	5.5
32	MP-7	X	.016	5.5
33	MP-8	X	.019	5.5
34	MP-9	X	.019	5.5
35	MP-10	X	.018	4.25
36	MP-11	X	.016	5.5
37	MP-11	X	.016	5.5
38	MP-12	X	.019	5.5

Member Point Loads (BLC 28 : 210 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.02	.25
2	MP-1	X	.013	2
3	MP-2	X	.014	2.25
4	MP-2	X	.028	2
5	MP-3	X	.012	.5
6	MP-3	X	.012	.5
7	MP-4	X	.02	.25
8	MP-4	X	.013	2

Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP-5	X	.028	.25
10	MP-5	X	.01	2
11	MP-6	X	.008	2.25
12	MP-6	X	.015	2
13	MP-7	X	.009	.5
14	MP-7	X	.009	.5
15	MP-8	X	.028	.25
16	MP-8	X	.009	2
17	MP-9	X	.02	.25
18	MP-9	X	.013	2
19	MP-10	X	.014	2.25
20	MP-11	X	.012	.5
21	MP-11	X	.012	.5
22	MP-12	X	.02	.25
23	MP-12	X	.013	2
24	MP-1	X	.02	5.5
25	MP-2	X	.014	4.25
26	MP-3	X	.012	5.5
27	MP-3	X	.012	5.5
28	MP-4	X	.02	5.5
29	MP-5	X	.028	5.5
30	MP-6	X	.008	4.25
31	MP-7	X	.009	5.5
32	MP-7	X	.009	5.5
33	MP-8	X	.028	5.5
34	MP-9	X	.02	5.5
35	MP-10	X	.014	4.25
36	MP-11	X	.012	5.5
37	MP-11	X	.012	5.5
38	MP-12	X	.02	5.5
39	MP-1	Z	.011	.25
40	MP-1	Z	.008	2
41	MP-2	Z	.008	2.25
42	MP-2	Z	.016	2
43	MP-3	Z	.007	.5
44	MP-3	Z	.007	.5
45	MP-4	Z	.011	.25
46	MP-4	Z	.007	2
47	MP-5	Z	.016	.25
48	MP-5	Z	.006	2
49	MP-6	Z	.004	2.25
50	MP-6	Z	.009	2
51	MP-7	Z	.005	.5
52	MP-7	Z	.005	.5
53	MP-8	Z	.016	.25
54	MP-8	Z	.005	2
55	MP-9	Z	.011	.25
56	MP-9	Z	.008	2
57	MP-10	Z	.008	2.25
58	MP-11	Z	.007	.5
59	MP-11	Z	.007	.5
60	MP-12	Z	.011	.25
61	MP-12	Z	.007	2
62	MP-1	Z	.011	5.5
63	MP-2	Z	.008	4.25
64	MP-3	Z	.007	5.5
65	MP-3	Z	.007	5.5

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

Aug 13, 2021
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Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
66	MP-4	Z	.011	5.5
67	MP-5	Z	.016	5.5
68	MP-6	Z	.004	4.25
69	MP-7	Z	.005	5.5
70	MP-7	Z	.005	5.5
71	MP-8	Z	.016	5.5
72	MP-9	Z	.011	5.5
73	MP-10	Z	.008	4.25
74	MP-11	Z	.007	5.5
75	MP-11	Z	.007	5.5
76	MP-12	Z	.011	5.5

Member Point Loads (BLC 29 : 225 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.018	.25
2	MP-1	X	.01	2
3	MP-2	X	.01	2.25
4	MP-2	X	.019	2
5	MP-3	X	.009	.5
6	MP-3	X	.009	.5
7	MP-4	X	.018	.25
8	MP-4	X	.009	2
9	MP-5	X	.022	.25
10	MP-5	X	.009	2
11	MP-6	X	.007	2.25
12	MP-6	X	.013	2
13	MP-7	X	.008	.5
14	MP-7	X	.008	.5
15	MP-8	X	.022	.25
16	MP-8	X	.008	2
17	MP-9	X	.014	.25
18	MP-9	X	.011	2
19	MP-10	X	.012	2.25
20	MP-11	X	.011	.5
21	MP-11	X	.011	.5
22	MP-12	X	.014	.25
23	MP-12	X	.011	2
24	MP-1	X	.018	5.5
25	MP-2	X	.01	4.25
26	MP-3	X	.009	5.5
27	MP-3	X	.009	5.5
28	MP-4	X	.018	5.5
29	MP-5	X	.022	5.5
30	MP-6	X	.007	4.25
31	MP-7	X	.008	5.5
32	MP-7	X	.008	5.5
33	MP-8	X	.022	5.5
34	MP-9	X	.014	5.5
35	MP-10	X	.012	4.25
36	MP-11	X	.011	5.5
37	MP-11	X	.011	5.5
38	MP-12	X	.014	5.5
39	MP-1	Z	.018	.25
40	MP-1	Z	.01	2
41	MP-2	Z	.01	2.25
42	MP-2	Z	.019	2

Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
43	MP-3	Z	.009	.5
44	MP-3	Z	.009	.5
45	MP-4	Z	.018	.25
46	MP-4	Z	.009	2
47	MP-5	Z	.022	.25
48	MP-5	Z	.009	2
49	MP-6	Z	.007	2.25
50	MP-6	Z	.013	2
51	MP-7	Z	.008	.5
52	MP-7	Z	.008	.5
53	MP-8	Z	.022	.25
54	MP-8	Z	.008	2
55	MP-9	Z	.014	.25
56	MP-9	Z	.011	2
57	MP-10	Z	.012	2.25
58	MP-11	Z	.011	.5
59	MP-11	Z	.011	.5
60	MP-12	Z	.014	.25
61	MP-12	Z	.011	2
62	MP-1	Z	.018	5.5
63	MP-2	Z	.01	4.25
64	MP-3	Z	.009	5.5
65	MP-3	Z	.009	5.5
66	MP-4	Z	.018	5.5
67	MP-5	Z	.022	5.5
68	MP-6	Z	.007	4.25
69	MP-7	Z	.008	5.5
70	MP-7	Z	.008	5.5
71	MP-8	Z	.022	5.5
72	MP-9	Z	.014	5.5
73	MP-10	Z	.012	4.25
74	MP-11	Z	.011	5.5
75	MP-11	Z	.011	5.5
76	MP-12	Z	.014	5.5

Member Point Loads (BLC 30 : 240 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.014	.25
2	MP-1	X	.007	2
3	MP-2	X	.006	2.25
4	MP-2	X	.011	2
5	MP-3	X	.006	.5
6	MP-3	X	.006	.5
7	MP-4	X	.014	.25
8	MP-4	X	.006	2
9	MP-5	X	.014	.25
10	MP-5	X	.007	2
11	MP-6	X	.006	2.25
12	MP-6	X	.011	2
13	MP-7	X	.006	.5
14	MP-7	X	.006	.5
15	MP-8	X	.014	.25
16	MP-8	X	.006	2
17	MP-9	X	.01	.25
18	MP-9	X	.008	2
19	MP-10	X	.009	2.25

Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP-11	X	.008	.5
21	MP-11	X	.008	.5
22	MP-12	X	.01	.25
23	MP-12	X	.008	2
24	MP-1	X	.014	5.5
25	MP-2	X	.006	4.25
26	MP-3	X	.006	5.5
27	MP-3	X	.006	5.5
28	MP-4	X	.014	5.5
29	MP-5	X	.014	5.5
30	MP-6	X	.006	4.25
31	MP-7	X	.006	5.5
32	MP-7	X	.006	5.5
33	MP-8	X	.014	5.5
34	MP-9	X	.01	5.5
35	MP-10	X	.009	4.25
36	MP-11	X	.008	5.5
37	MP-11	X	.008	5.5
38	MP-12	X	.01	5.5
39	MP-1	Z	.025	.25
40	MP-1	Z	.011	2
41	MP-2	Z	.01	2.25
42	MP-2	Z	.019	2
43	MP-3	Z	.01	.5
44	MP-3	Z	.01	.5
45	MP-4	Z	.025	.25
46	MP-4	Z	.01	2
47	MP-5	Z	.025	.25
48	MP-5	Z	.011	2
49	MP-6	Z	.01	2.25
50	MP-6	Z	.019	2
51	MP-7	Z	.01	.5
52	MP-7	Z	.01	.5
53	MP-8	Z	.025	.25
54	MP-8	Z	.01	2
55	MP-9	Z	.017	.25
56	MP-9	Z	.014	2
57	MP-10	Z	.016	2.25
58	MP-11	Z	.014	.5
59	MP-11	Z	.014	.5
60	MP-12	Z	.017	.25
61	MP-12	Z	.014	2
62	MP-1	Z	.025	5.5
63	MP-2	Z	.01	4.25
64	MP-3	Z	.01	5.5
65	MP-3	Z	.01	5.5
66	MP-4	Z	.025	5.5
67	MP-5	Z	.025	5.5
68	MP-6	Z	.01	4.25
69	MP-7	Z	.01	5.5
70	MP-7	Z	.01	5.5
71	MP-8	Z	.025	5.5
72	MP-9	Z	.017	5.5
73	MP-10	Z	.016	4.25
74	MP-11	Z	.014	5.5
75	MP-11	Z	.014	5.5
76	MP-12	Z	.017	5.5

Member Point Loads (BLC 31 : 270 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	.032	.25
2	MP-1	Z	.012	2
3	MP-2	Z	.009	2.25
4	MP-2	Z	.018	2
5	MP-3	Z	.011	.5
6	MP-3	Z	.011	.5
7	MP-4	Z	.032	.25
8	MP-4	Z	.01	2
9	MP-5	Z	.032	.25
10	MP-5	Z	.012	2
11	MP-6	Z	.009	2.25
12	MP-6	Z	.018	2
13	MP-7	Z	.011	.5
14	MP-7	Z	.011	.5
15	MP-8	Z	.032	.25
16	MP-8	Z	.01	2
17	MP-9	Z	.032	.25
18	MP-9	Z	.012	2
19	MP-10	Z	.009	2.25
20	MP-11	Z	.011	.5
21	MP-11	Z	.011	.5
22	MP-12	Z	.032	.25
23	MP-12	Z	.01	2
24	MP-1	Z	.032	5.5
25	MP-2	Z	.009	4.25
26	MP-3	Z	.011	5.5
27	MP-3	Z	.011	5.5
28	MP-4	Z	.032	5.5
29	MP-5	Z	.032	5.5
30	MP-6	Z	.009	4.25
31	MP-7	Z	.011	5.5
32	MP-7	Z	.011	5.5
33	MP-8	Z	.032	5.5
34	MP-9	Z	.032	5.5
35	MP-10	Z	.009	4.25
36	MP-11	Z	.011	5.5
37	MP-11	Z	.011	5.5
38	MP-12	Z	.032	5.5

Member Point Loads (BLC 32 : 300 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.014	.25
2	MP-1	X	-.007	2
3	MP-2	X	-.006	2.25
4	MP-2	X	-.011	2
5	MP-3	X	-.006	.5
6	MP-3	X	-.006	.5
7	MP-4	X	-.014	.25
8	MP-4	X	-.006	2
9	MP-5	X	-.01	.25
10	MP-5	X	-.008	2
11	MP-6	X	-.009	2.25
12	MP-6	X	-.018	2
13	MP-7	X	-.008	.5
14	MP-7	X	-.008	.5
15	MP-8	X	-.01	.25

Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP-8	X	-.008	2
17	MP-9	X	-.014	.25
18	MP-9	X	-.007	2
19	MP-10	X	-.006	2.25
20	MP-11	X	-.006	.5
21	MP-11	X	-.006	.5
22	MP-12	X	-.014	.25
23	MP-12	X	-.006	2
24	MP-1	X	-.014	5.5
25	MP-2	X	-.006	4.25
26	MP-3	X	-.006	5.5
27	MP-3	X	-.006	5.5
28	MP-4	X	-.014	5.5
29	MP-5	X	-.01	5.5
30	MP-6	X	-.009	4.25
31	MP-7	X	-.008	5.5
32	MP-7	X	-.008	5.5
33	MP-8	X	-.01	5.5
34	MP-9	X	-.014	5.5
35	MP-10	X	-.006	4.25
36	MP-11	X	-.006	5.5
37	MP-11	X	-.006	5.5
38	MP-12	X	-.014	5.5
39	MP-1	Z	.025	.25
40	MP-1	Z	.011	2
41	MP-2	Z	.01	2.25
42	MP-2	Z	.019	2
43	MP-3	Z	.01	.5
44	MP-3	Z	.01	.5
45	MP-4	Z	.025	.25
46	MP-4	Z	.01	2
47	MP-5	Z	.017	.25
48	MP-5	Z	.014	2
49	MP-6	Z	.016	2.25
50	MP-6	Z	.032	2
51	MP-7	Z	.014	.5
52	MP-7	Z	.014	.5
53	MP-8	Z	.017	.25
54	MP-8	Z	.014	2
55	MP-9	Z	.025	.25
56	MP-9	Z	.011	2
57	MP-10	Z	.01	2.25
58	MP-11	Z	.01	.5
59	MP-11	Z	.01	.5
60	MP-12	Z	.025	.25
61	MP-12	Z	.01	2
62	MP-1	Z	.025	5.5
63	MP-2	Z	.01	4.25
64	MP-3	Z	.01	5.5
65	MP-3	Z	.01	5.5
66	MP-4	Z	.025	5.5
67	MP-5	Z	.017	5.5
68	MP-6	Z	.016	4.25
69	MP-7	Z	.014	5.5
70	MP-7	Z	.014	5.5
71	MP-8	Z	.017	5.5
72	MP-9	Z	.025	5.5

Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
73	MP-10	Z	.01	4.25
74	MP-11	Z	.01	5.5
75	MP-11	Z	.01	5.5
76	MP-12	Z	.025	5.5

Member Point Loads (BLC 33 : 315 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.018	.25
2	MP-1	X	-.01	2
3	MP-2	X	-.01	2.25
4	MP-2	X	-.019	2
5	MP-3	X	-.009	.5
6	MP-3	X	-.009	.5
7	MP-4	X	-.018	.25
8	MP-4	X	-.009	2
9	MP-5	X	-.014	.25
10	MP-5	X	-.011	2
11	MP-6	X	-.012	2.25
12	MP-6	X	-.025	2
13	MP-7	X	-.011	.5
14	MP-7	X	-.011	.5
15	MP-8	X	-.014	.25
16	MP-8	X	-.011	2
17	MP-9	X	-.022	.25
18	MP-9	X	-.009	2
19	MP-10	X	-.007	2.25
20	MP-11	X	-.008	.5
21	MP-11	X	-.008	.5
22	MP-12	X	-.022	.25
23	MP-12	X	-.008	2
24	MP-1	X	-.018	5.5
25	MP-2	X	-.01	4.25
26	MP-3	X	-.009	5.5
27	MP-3	X	-.009	5.5
28	MP-4	X	-.018	5.5
29	MP-5	X	-.014	5.5
30	MP-6	X	-.012	4.25
31	MP-7	X	-.011	5.5
32	MP-7	X	-.011	5.5
33	MP-8	X	-.014	5.5
34	MP-9	X	-.022	5.5
35	MP-10	X	-.007	4.25
36	MP-11	X	-.008	5.5
37	MP-11	X	-.008	5.5
38	MP-12	X	-.022	5.5
39	MP-1	Z	.018	.25
40	MP-1	Z	.01	2
41	MP-2	Z	.01	2.25
42	MP-2	Z	.019	2
43	MP-3	Z	.009	.5
44	MP-3	Z	.009	.5
45	MP-4	Z	.018	.25
46	MP-4	Z	.009	2
47	MP-5	Z	.014	.25
48	MP-5	Z	.011	2
49	MP-6	Z	.012	2.25

Member Point Loads (BLC 33 : 315 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
50	MP-6	Z	.025	2
51	MP-7	Z	.011	.5
52	MP-7	Z	.011	.5
53	MP-8	Z	.014	.25
54	MP-8	Z	.011	2
55	MP-9	Z	.022	.25
56	MP-9	Z	.009	2
57	MP-10	Z	.007	2.25
58	MP-11	Z	.008	.5
59	MP-11	Z	.008	.5
60	MP-12	Z	.022	.25
61	MP-12	Z	.008	2
62	MP-1	Z	.018	5.5
63	MP-2	Z	.01	4.25
64	MP-3	Z	.009	5.5
65	MP-3	Z	.009	5.5
66	MP-4	Z	.018	5.5
67	MP-5	Z	.014	5.5
68	MP-6	Z	.012	4.25
69	MP-7	Z	.011	5.5
70	MP-7	Z	.011	5.5
71	MP-8	Z	.014	5.5
72	MP-9	Z	.022	5.5
73	MP-10	Z	.007	4.25
74	MP-11	Z	.008	5.5
75	MP-11	Z	.008	5.5
76	MP-12	Z	.022	5.5

Member Point Loads (BLC 34 : 330 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.02	.25
2	MP-1	X	-.013	2
3	MP-2	X	-.014	2.25
4	MP-2	X	-.028	2
5	MP-3	X	-.012	.5
6	MP-3	X	-.012	.5
7	MP-4	X	-.02	.25
8	MP-4	X	-.013	2
9	MP-5	X	-.02	.25
10	MP-5	X	-.013	2
11	MP-6	X	-.014	2.25
12	MP-6	X	-.028	2
13	MP-7	X	-.012	.5
14	MP-7	X	-.012	.5
15	MP-8	X	-.02	.25
16	MP-8	X	-.013	2
17	MP-9	X	-.028	.25
18	MP-9	X	-.01	2
19	MP-10	X	-.008	2.25
20	MP-11	X	-.009	.5
21	MP-11	X	-.009	.5
22	MP-12	X	-.028	.25
23	MP-12	X	-.009	2
24	MP-1	X	-.02	5.5
25	MP-2	X	-.014	4.25
26	MP-3	X	-.012	5.5

Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
27	MP-3	X	-.012	5.5
28	MP-4	X	-.02	5.5
29	MP-5	X	-.02	5.5
30	MP-6	X	-.014	4.25
31	MP-7	X	-.012	5.5
32	MP-7	X	-.012	5.5
33	MP-8	X	-.02	5.5
34	MP-9	X	-.028	5.5
35	MP-10	X	-.008	4.25
36	MP-11	X	-.009	5.5
37	MP-11	X	-.009	5.5
38	MP-12	X	-.028	5.5
39	MP-1	Z	.011	.25
40	MP-1	Z	.008	2
41	MP-2	Z	.008	2.25
42	MP-2	Z	.016	2
43	MP-3	Z	.007	.5
44	MP-3	Z	.007	.5
45	MP-4	Z	.011	.25
46	MP-4	Z	.007	2
47	MP-5	Z	.011	.25
48	MP-5	Z	.008	2
49	MP-6	Z	.008	2.25
50	MP-6	Z	.016	2
51	MP-7	Z	.007	.5
52	MP-7	Z	.007	.5
53	MP-8	Z	.011	.25
54	MP-8	Z	.007	2
55	MP-9	Z	.016	.25
56	MP-9	Z	.006	2
57	MP-10	Z	.004	2.25
58	MP-11	Z	.005	.5
59	MP-11	Z	.005	.5
60	MP-12	Z	.016	.25
61	MP-12	Z	.005	2
62	MP-1	Z	.011	5.5
63	MP-2	Z	.008	4.25
64	MP-3	Z	.007	5.5
65	MP-3	Z	.007	5.5
66	MP-4	Z	.011	5.5
67	MP-5	Z	.011	5.5
68	MP-6	Z	.008	4.25
69	MP-7	Z	.007	5.5
70	MP-7	Z	.007	5.5
71	MP-8	Z	.011	5.5
72	MP-9	Z	.016	5.5
73	MP-10	Z	.004	4.25
74	MP-11	Z	.005	5.5
75	MP-11	Z	.005	5.5
76	MP-12	Z	.016	5.5

Member Point Loads (BLC 37 : Seismic Load X)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.011	.25
2	MP-1	X	-.084	2
3	MP-2	X	-.041	2.25

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

Aug 13, 2021
8:02 AM
Checked By: PHX

Member Point Loads (BLC 37 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP-2	X	-.044	2
5	MP-3	X	-.02	.5
6	MP-3	X	-.02	.5
7	MP-4	X	-.011	.25
8	MP-4	X	-.07	2
9	MP-5	X	-.011	.25
10	MP-5	X	-.084	2
11	MP-6	X	-.041	2.25
12	MP-6	X	-.044	2
13	MP-7	X	-.02	.5
14	MP-7	X	-.02	.5
15	MP-8	X	-.011	.25
16	MP-8	X	-.07	2
17	MP-9	X	-.011	.25
18	MP-9	X	-.084	2
19	MP-10	X	-.041	2.25
20	MP-11	X	-.02	.5
21	MP-11	X	-.02	.5
22	MP-12	X	-.011	.25
23	MP-12	X	-.07	2
24	MP-1	X	-.011	5.5
25	MP-2	X	-.041	4.25
26	MP-3	X	-.02	5.5
27	MP-3	X	-.02	5.5
28	MP-4	X	-.011	5.5
29	MP-5	X	-.011	5.5
30	MP-6	X	-.041	4.25
31	MP-7	X	-.02	5.5
32	MP-7	X	-.02	5.5
33	MP-8	X	-.011	5.5
34	MP-9	X	-.011	5.5
35	MP-10	X	-.041	4.25
36	MP-11	X	-.02	5.5
37	MP-11	X	-.02	5.5
38	MP-12	X	-.011	5.5

Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-.011	.25
2	MP-1	Z	-.084	2
3	MP-2	Z	-.041	2.25
4	MP-2	Z	-.044	2
5	MP-3	Z	-.02	.5
6	MP-3	Z	-.02	.5
7	MP-4	Z	-.011	.25
8	MP-4	Z	-.07	2
9	MP-5	Z	-.011	.25
10	MP-5	Z	-.084	2
11	MP-6	Z	-.041	2.25
12	MP-6	Z	-.044	2
13	MP-7	Z	-.02	.5
14	MP-7	Z	-.02	.5
15	MP-8	Z	-.011	.25
16	MP-8	Z	-.07	2
17	MP-9	Z	-.011	.25
18	MP-9	Z	-.084	2

Member Point Loads (BLC 38 : Seismic Load Z) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP-10	Z	-.041	2.25
20	MP-11	Z	-.02	.5
21	MP-11	Z	-.02	.5
22	MP-12	Z	-.011	.25
23	MP-12	Z	-.07	2
24	MP-1	Z	-.011	5.5
25	MP-2	Z	-.041	4.25
26	MP-3	Z	-.02	5.5
27	MP-3	Z	-.02	5.5
28	MP-4	Z	-.011	5.5
29	MP-5	Z	-.011	5.5
30	MP-6	Z	-.041	4.25
31	MP-7	Z	-.02	5.5
32	MP-7	Z	-.02	5.5
33	MP-8	Z	-.011	5.5
34	MP-9	Z	-.011	5.5
35	MP-10	Z	-.041	4.25
36	MP-11	Z	-.02	5.5
37	MP-11	Z	-.02	5.5
38	MP-12	Z	-.011	5.5

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.01	-.01	0	%100
2	FFTH-3	X	-.005	-.005	0	%100
3	FFTH-2	X	-.005	-.005	0	%100
4	SA-1	X	-.013	-.013	0	%100
5	SA-2	X	-.013	-.013	0	%100
6	SA-3	X	0	0	0	%100
7	CP-1	X	-.01	-.01	0	%100
8	CP-2	X	-.01	-.01	0	%100
9	CP-3	X	-.02	-.02	0	%100
10	SA-3B	X	0	0	0	%100
11	SA-2B	X	-.012	-.012	0	%100
12	SA-1B	X	-.012	-.012	0	%100
13	GSI-1	X	0	0	0	%100
14	GSI-2	X	0	0	0	%100
15	GSI-3	X	-.007	-.007	0	%100
16	GSI-4	X	-.007	-.007	0	%100
17	GSI-5	X	-.007	-.007	0	%100
18	GSI-6	X	-.007	-.007	0	%100
19	MP-1	X	-.008	-.008	0	%100
20	MP-2	X	-.008	-.008	0	%100
21	MP-3	X	-.008	-.008	0	%100
22	MP-4	X	-.008	-.008	0	%100
23	MP-9	X	-.008	-.008	0	%100
24	MP-10	X	-.008	-.008	0	%100
25	MP-11	X	-.008	-.008	0	%100
26	MP-12	X	-.008	-.008	0	%100
27	MP-5	X	-.008	-.008	0	%100
28	MP-6	X	-.008	-.008	0	%100
29	MP-7	X	-.008	-.008	0	%100
30	MP-8	X	-.008	-.008	0	%100
31	SFS-1	X	-.014	-.014	0	%100
32	SFS-2	X	-.014	-.014	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
33	SFS-3	X	-.014	-.014	0	%100
34	SFS-4	X	-.014	-.014	0	%100
35	SFS-5	X	-.014	-.014	0	%100
36	SFS-6	X	-.014	-.014	0	%100

Member Distributed Loads (BLC 3 : 30 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.008	-.008	0	%100
2	FFTH-3	X	-.007	-.007	0	%100
3	FFTH-2	X	0	0	0	%100
4	SA-1	X	-.006	-.006	0	%100
5	SA-2	X	-.013	-.013	0	%100
6	SA-3	X	-.004	-.004	0	%100
7	CP-1	X	0	0	0	%100
8	CP-2	X	-.015	-.015	0	%100
9	CP-3	X	-.015	-.015	0	%100
10	SA-3B	X	-.004	-.004	0	%100
11	SA-2B	X	-.012	-.012	0	%100
12	SA-1B	X	-.006	-.006	0	%100
13	GSI-1	X	-.002	-.002	0	%100
14	GSI-2	X	-.002	-.002	0	%100
15	GSI-3	X	-.003	-.003	0	%100
16	GSI-4	X	-.003	-.003	0	%100
17	GSI-5	X	-.007	-.007	0	%100
18	GSI-6	X	-.007	-.007	0	%100
19	MP-1	X	-.007	-.007	0	%100
20	MP-2	X	-.007	-.007	0	%100
21	MP-3	X	-.007	-.007	0	%100
22	MP-4	X	-.007	-.007	0	%100
23	MP-9	X	-.007	-.007	0	%100
24	MP-10	X	-.007	-.007	0	%100
25	MP-11	X	-.007	-.007	0	%100
26	MP-12	X	-.007	-.007	0	%100
27	MP-5	X	-.007	-.007	0	%100
28	MP-6	X	-.007	-.007	0	%100
29	MP-7	X	-.007	-.007	0	%100
30	MP-8	X	-.007	-.007	0	%100
31	SFS-1	X	-.012	-.012	0	%100
32	SFS-2	X	-.012	-.012	0	%100
33	SFS-3	X	-.012	-.012	0	%100
34	SFS-4	X	-.012	-.012	0	%100
35	SFS-5	X	-.012	-.012	0	%100
36	SFS-6	X	-.012	-.012	0	%100
37	FFTH-1	Z	-.004	-.004	0	%100
38	FFTH-3	Z	-.004	-.004	0	%100
39	FFTH-2	Z	0	0	0	%100
40	SA-1	Z	-.003	-.003	0	%100
41	SA-2	Z	-.006	-.006	0	%100
42	SA-3	Z	-.004	-.004	0	%100
43	CP-1	Z	0	0	0	%100
44	CP-2	Z	-.009	-.009	0	%100
45	CP-3	Z	-.009	-.009	0	%100
46	SA-3B	Z	-.004	-.004	0	%100
47	SA-2B	Z	-.006	-.006	0	%100
48	SA-1B	Z	-.003	-.003	0	%100
49	GSI-1	Z	-.002	-.002	0	%100

Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
50	GSI-2	Z	-.002	-.002	0	%100
51	GSI-3	Z	-.002	-.002	0	%100
52	GSI-4	Z	-.002	-.002	0	%100
53	GSI-5	Z	-.003	-.003	0	%100
54	GSI-6	Z	-.003	-.003	0	%100
55	MP-1	Z	-.004	-.004	0	%100
56	MP-2	Z	-.004	-.004	0	%100
57	MP-3	Z	-.004	-.004	0	%100
58	MP-4	Z	-.004	-.004	0	%100
59	MP-9	Z	-.004	-.004	0	%100
60	MP-10	Z	-.004	-.004	0	%100
61	MP-11	Z	-.004	-.004	0	%100
62	MP-12	Z	-.004	-.004	0	%100
63	MP-5	Z	-.004	-.004	0	%100
64	MP-6	Z	-.004	-.004	0	%100
65	MP-7	Z	-.004	-.004	0	%100
66	MP-8	Z	-.004	-.004	0	%100
67	SFS-1	Z	-.007	-.007	0	%100
68	SFS-2	Z	-.007	-.007	0	%100
69	SFS-3	Z	-.007	-.007	0	%100
70	SFS-4	Z	-.007	-.007	0	%100
71	SFS-5	Z	-.007	-.007	0	%100
72	SFS-6	Z	-.007	-.007	0	%100

Member Distributed Loads (BLC 4 : 45 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.005	-.005	0	%100
2	FFTH-3	X	-.007	-.007	0	%100
3	FFTH-2	X	-.002	-.002	0	%100
4	SA-1	X	-.003	-.003	0	%100
5	SA-2	X	-.01	-.01	0	%100
6	SA-3	X	-.005	-.005	0	%100
7	CP-1	X	-.004	-.004	0	%100
8	CP-2	X	-.014	-.014	0	%100
9	CP-3	X	-.01	-.01	0	%100
10	SA-3B	X	-.005	-.005	0	%100
11	SA-2B	X	-.009	-.009	0	%100
12	SA-1B	X	-.002	-.002	0	%100
13	GSI-1	X	-.003	-.003	0	%100
14	GSI-2	X	-.003	-.003	0	%100
15	GSI-3	X	-.001	-.001	0	%100
16	GSI-4	X	-.001	-.001	0	%100
17	GSI-5	X	-.005	-.005	0	%100
18	GSI-6	X	-.005	-.005	0	%100
19	MP-1	X	-.006	-.006	0	%100
20	MP-2	X	-.006	-.006	0	%100
21	MP-3	X	-.006	-.006	0	%100
22	MP-4	X	-.006	-.006	0	%100
23	MP-9	X	-.006	-.006	0	%100
24	MP-10	X	-.006	-.006	0	%100
25	MP-11	X	-.006	-.006	0	%100
26	MP-12	X	-.006	-.006	0	%100
27	MP-5	X	-.006	-.006	0	%100
28	MP-6	X	-.006	-.006	0	%100
29	MP-7	X	-.006	-.006	0	%100
30	MP-8	X	-.006	-.006	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
31	SFS-1	X	-.01	-.01	0	%100
32	SFS-2	X	-.01	-.01	0	%100
33	SFS-3	X	-.01	-.01	0	%100
34	SFS-4	X	-.01	-.01	0	%100
35	SFS-5	X	-.01	-.01	0	%100
36	SFS-6	X	-.01	-.01	0	%100
37	FFTH-1	Z	-.005	-.005	0	%100
38	FFTH-3	Z	-.007	-.007	0	%100
39	FFTH-2	Z	-.002	-.002	0	%100
40	SA-1	Z	-.002	-.002	0	%100
41	SA-2	Z	-.009	-.009	0	%100
42	SA-3	Z	-.008	-.008	0	%100
43	CP-1	Z	-.004	-.004	0	%100
44	CP-2	Z	-.014	-.014	0	%100
45	CP-3	Z	-.01	-.01	0	%100
46	SA-3B	Z	-.007	-.007	0	%100
47	SA-2B	Z	-.008	-.008	0	%100
48	SA-1B	Z	-.002	-.002	0	%100
49	GSI-1	Z	-.004	-.004	0	%100
50	GSI-2	Z	-.004	-.004	0	%100
51	GSI-3	Z	-.001	-.001	0	%100
52	GSI-4	Z	-.001	-.001	0	%100
53	GSI-5	Z	-.004	-.004	0	%100
54	GSI-6	Z	-.004	-.004	0	%100
55	MP-1	Z	-.006	-.006	0	%100
56	MP-2	Z	-.006	-.006	0	%100
57	MP-3	Z	-.006	-.006	0	%100
58	MP-4	Z	-.006	-.006	0	%100
59	MP-9	Z	-.006	-.006	0	%100
60	MP-10	Z	-.006	-.006	0	%100
61	MP-11	Z	-.006	-.006	0	%100
62	MP-12	Z	-.006	-.006	0	%100
63	MP-5	Z	-.006	-.006	0	%100
64	MP-6	Z	-.006	-.006	0	%100
65	MP-7	Z	-.006	-.006	0	%100
66	MP-8	Z	-.006	-.006	0	%100
67	SFS-1	Z	-.01	-.01	0	%100
68	SFS-2	Z	-.01	-.01	0	%100
69	SFS-3	Z	-.01	-.01	0	%100
70	SFS-4	Z	-.01	-.01	0	%100
71	SFS-5	Z	-.01	-.01	0	%100
72	SFS-6	Z	-.01	-.01	0	%100

Member Distributed Loads (BLC 5 : 60 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.003	-.003	0	%100
2	FFTH-3	X	-.005	-.005	0	%100
3	FFTH-2	X	-.002	-.002	0	%100
4	SA-1	X	0	0	0	%100
5	SA-2	X	-.006	-.006	0	%100
6	SA-3	X	-.004	-.004	0	%100
7	CP-1	X	-.005	-.005	0	%100
8	CP-2	X	-.01	-.01	0	%100
9	CP-3	X	-.005	-.005	0	%100
10	SA-3B	X	-.004	-.004	0	%100
11	SA-2B	X	-.006	-.006	0	%100

Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
12	SA-1B	X	0	0	0	%100
13	GSI-1	X	-.002	-.002	0	%100
14	GSI-2	X	-.002	-.002	0	%100
15	GSI-3	X	0	0	0	%100
16	GSI-4	X	0	0	0	%100
17	GSI-5	X	-.003	-.003	0	%100
18	GSI-6	X	-.003	-.003	0	%100
19	MP-1	X	-.004	-.004	0	%100
20	MP-2	X	-.004	-.004	0	%100
21	MP-3	X	-.004	-.004	0	%100
22	MP-4	X	-.004	-.004	0	%100
23	MP-9	X	-.004	-.004	0	%100
24	MP-10	X	-.004	-.004	0	%100
25	MP-11	X	-.004	-.004	0	%100
26	MP-12	X	-.004	-.004	0	%100
27	MP-5	X	-.004	-.004	0	%100
28	MP-6	X	-.004	-.004	0	%100
29	MP-7	X	-.004	-.004	0	%100
30	MP-8	X	-.004	-.004	0	%100
31	SFS-1	X	-.007	-.007	0	%100
32	SFS-2	X	-.007	-.007	0	%100
33	SFS-3	X	-.007	-.007	0	%100
34	SFS-4	X	-.007	-.007	0	%100
35	SFS-5	X	-.007	-.007	0	%100
36	SFS-6	X	-.007	-.007	0	%100
37	FFTH-1	Z	-.004	-.004	0	%100
38	FFTH-3	Z	-.009	-.009	0	%100
39	FFTH-2	Z	-.004	-.004	0	%100
40	SA-1	Z	0	0	0	%100
41	SA-2	Z	-.009	-.009	0	%100
42	SA-3	Z	-.012	-.012	0	%100
43	CP-1	Z	-.009	-.009	0	%100
44	CP-2	Z	-.017	-.017	0	%100
45	CP-3	Z	-.009	-.009	0	%100
46	SA-3B	Z	-.011	-.011	0	%100
47	SA-2B	Z	-.009	-.009	0	%100
48	SA-1B	Z	0	0	0	%100
49	GSI-1	Z	-.006	-.006	0	%100
50	GSI-2	Z	-.006	-.006	0	%100
51	GSI-3	Z	0	0	0	%100
52	GSI-4	Z	0	0	0	%100
53	GSI-5	Z	-.005	-.005	0	%100
54	GSI-6	Z	-.005	-.005	0	%100
55	MP-1	Z	-.007	-.007	0	%100
56	MP-2	Z	-.007	-.007	0	%100
57	MP-3	Z	-.007	-.007	0	%100
58	MP-4	Z	-.007	-.007	0	%100
59	MP-9	Z	-.007	-.007	0	%100
60	MP-10	Z	-.007	-.007	0	%100
61	MP-11	Z	-.007	-.007	0	%100
62	MP-12	Z	-.007	-.007	0	%100
63	MP-5	Z	-.007	-.007	0	%100
64	MP-6	Z	-.007	-.007	0	%100
65	MP-7	Z	-.007	-.007	0	%100
66	MP-8	Z	-.007	-.007	0	%100
67	SFS-1	Z	-.012	-.012	0	%100
68	SFS-2	Z	-.012	-.012	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
69	SFS-3	Z	-.012	-.012	0	%100
70	SFS-4	Z	-.012	-.012	0	%100
71	SFS-5	Z	-.012	-.012	0	%100
72	SFS-6	Z	-.012	-.012	0	%100

Member Distributed Loads (BLC 6 : 90 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	Z	0	0	0	%100
2	FFTH-3	Z	-.009	-.009	0	%100
3	FFTH-2	Z	-.009	-.009	0	%100
4	SA-1	Z	-.006	-.006	0	%100
5	SA-2	Z	-.006	-.006	0	%100
6	SA-3	Z	-.016	-.016	0	%100
7	CP-1	Z	-.017	-.017	0	%100
8	CP-2	Z	-.017	-.017	0	%100
9	CP-3	Z	0	0	0	%100
10	SA-3B	Z	-.014	-.014	0	%100
11	SA-2B	Z	-.006	-.006	0	%100
12	SA-1B	Z	-.006	-.006	0	%100
13	GSI-1	Z	-.008	-.008	0	%100
14	GSI-2	Z	-.008	-.008	0	%100
15	GSI-3	Z	-.003	-.003	0	%100
16	GSI-4	Z	-.003	-.003	0	%100
17	GSI-5	Z	-.003	-.003	0	%100
18	GSI-6	Z	-.003	-.003	0	%100
19	MP-1	Z	-.008	-.008	0	%100
20	MP-2	Z	-.008	-.008	0	%100
21	MP-3	Z	-.008	-.008	0	%100
22	MP-4	Z	-.008	-.008	0	%100
23	MP-9	Z	-.008	-.008	0	%100
24	MP-10	Z	-.008	-.008	0	%100
25	MP-11	Z	-.008	-.008	0	%100
26	MP-12	Z	-.008	-.008	0	%100
27	MP-5	Z	-.008	-.008	0	%100
28	MP-6	Z	-.008	-.008	0	%100
29	MP-7	Z	-.008	-.008	0	%100
30	MP-8	Z	-.008	-.008	0	%100
31	SFS-1	Z	-.014	-.014	0	%100
32	SFS-2	Z	-.014	-.014	0	%100
33	SFS-3	Z	-.014	-.014	0	%100
34	SFS-4	Z	-.014	-.014	0	%100
35	SFS-5	Z	-.014	-.014	0	%100
36	SFS-6	Z	-.014	-.014	0	%100

Member Distributed Loads (BLC 7 : 120 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.003	.003	0	%100
2	FFTH-3	X	.002	.002	0	%100
3	FFTH-2	X	.005	.005	0	%100
4	SA-1	X	.006	.006	0	%100
5	SA-2	X	0	0	0	%100
6	SA-3	X	.004	.004	0	%100
7	CP-1	X	.01	.01	0	%100
8	CP-2	X	.005	.005	0	%100
9	CP-3	X	.005	.005	0	%100
10	SA-3B	X	.004	.004	0	%100

Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
11	SA-2B	X	0	0	0	%100
12	SA-1B	X	.006	.006	0	%100
13	GSI-1	X	.002	.002	0	%100
14	GSI-2	X	.002	.002	0	%100
15	GSI-3	X	.003	.003	0	%100
16	GSI-4	X	.003	.003	0	%100
17	GSI-5	X	0	0	0	%100
18	GSI-6	X	0	0	0	%100
19	MP-1	X	.004	.004	0	%100
20	MP-2	X	.004	.004	0	%100
21	MP-3	X	.004	.004	0	%100
22	MP-4	X	.004	.004	0	%100
23	MP-9	X	.004	.004	0	%100
24	MP-10	X	.004	.004	0	%100
25	MP-11	X	.004	.004	0	%100
26	MP-12	X	.004	.004	0	%100
27	MP-5	X	.004	.004	0	%100
28	MP-6	X	.004	.004	0	%100
29	MP-7	X	.004	.004	0	%100
30	MP-8	X	.004	.004	0	%100
31	SFS-1	X	.007	.007	0	%100
32	SFS-2	X	.007	.007	0	%100
33	SFS-3	X	.007	.007	0	%100
34	SFS-4	X	.007	.007	0	%100
35	SFS-5	X	.007	.007	0	%100
36	SFS-6	X	.007	.007	0	%100
37	FFTH-1	Z	-.004	-.004	0	%100
38	FFTH-3	Z	-.004	-.004	0	%100
39	FFTH-2	Z	-.009	-.009	0	%100
40	SA-1	Z	-.009	-.009	0	%100
41	SA-2	Z	0	0	0	%100
42	SA-3	Z	-.012	-.012	0	%100
43	CP-1	Z	-.017	-.017	0	%100
44	CP-2	Z	-.009	-.009	0	%100
45	CP-3	Z	-.009	-.009	0	%100
46	SA-3B	Z	-.011	-.011	0	%100
47	SA-2B	Z	0	0	0	%100
48	SA-1B	Z	-.009	-.009	0	%100
49	GSI-1	Z	-.006	-.006	0	%100
50	GSI-2	Z	-.006	-.006	0	%100
51	GSI-3	Z	-.005	-.005	0	%100
52	GSI-4	Z	-.005	-.005	0	%100
53	GSI-5	Z	0	0	0	%100
54	GSI-6	Z	0	0	0	%100
55	MP-1	Z	-.007	-.007	0	%100
56	MP-2	Z	-.007	-.007	0	%100
57	MP-3	Z	-.007	-.007	0	%100
58	MP-4	Z	-.007	-.007	0	%100
59	MP-9	Z	-.007	-.007	0	%100
60	MP-10	Z	-.007	-.007	0	%100
61	MP-11	Z	-.007	-.007	0	%100
62	MP-12	Z	-.007	-.007	0	%100
63	MP-5	Z	-.007	-.007	0	%100
64	MP-6	Z	-.007	-.007	0	%100
65	MP-7	Z	-.007	-.007	0	%100
66	MP-8	Z	-.007	-.007	0	%100
67	SFS-1	Z	-.012	-.012	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
68	SFS-2	Z	-.012	-.012	0	%100
69	SFS-3	Z	-.012	-.012	0	%100
70	SFS-4	Z	-.012	-.012	0	%100
71	SFS-5	Z	-.012	-.012	0	%100
72	SFS-6	Z	-.012	-.012	0	%100

Member Distributed Loads (BLC 8 : 135 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.005	.005	0	%100
2	FFTH-3	X	.002	.002	0	%100
3	FFTH-2	X	.007	.007	0	%100
4	SA-1	X	.01	.01	0	%100
5	SA-2	X	.003	.003	0	%100
6	SA-3	X	.005	.005	0	%100
7	CP-1	X	.014	.014	0	%100
8	CP-2	X	.004	.004	0	%100
9	CP-3	X	.01	.01	0	%100
10	SA-3B	X	.005	.005	0	%100
11	SA-2B	X	.002	.002	0	%100
12	SA-1B	X	.009	.009	0	%100
13	GSI-1	X	.003	.003	0	%100
14	GSI-2	X	.003	.003	0	%100
15	GSI-3	X	.005	.005	0	%100
16	GSI-4	X	.005	.005	0	%100
17	GSI-5	X	.001	.001	0	%100
18	GSI-6	X	.001	.001	0	%100
19	MP-1	X	.006	.006	0	%100
20	MP-2	X	.006	.006	0	%100
21	MP-3	X	.006	.006	0	%100
22	MP-4	X	.006	.006	0	%100
23	MP-9	X	.006	.006	0	%100
24	MP-10	X	.006	.006	0	%100
25	MP-11	X	.006	.006	0	%100
26	MP-12	X	.006	.006	0	%100
27	MP-5	X	.006	.006	0	%100
28	MP-6	X	.006	.006	0	%100
29	MP-7	X	.006	.006	0	%100
30	MP-8	X	.006	.006	0	%100
31	SFS-1	X	.01	.01	0	%100
32	SFS-2	X	.01	.01	0	%100
33	SFS-3	X	.01	.01	0	%100
34	SFS-4	X	.01	.01	0	%100
35	SFS-5	X	.01	.01	0	%100
36	SFS-6	X	.01	.01	0	%100
37	FFTH-1	Z	-.005	-.005	0	%100
38	FFTH-3	Z	-.002	-.002	0	%100
39	FFTH-2	Z	-.007	-.007	0	%100
40	SA-1	Z	-.009	-.009	0	%100
41	SA-2	Z	-.002	-.002	0	%100
42	SA-3	Z	-.008	-.008	0	%100
43	CP-1	Z	-.014	-.014	0	%100
44	CP-2	Z	-.004	-.004	0	%100
45	CP-3	Z	-.01	-.01	0	%100
46	SA-3B	Z	-.007	-.007	0	%100
47	SA-2B	Z	-.002	-.002	0	%100
48	SA-1B	Z	-.008	-.008	0	%100

Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
49	GSI-1	Z	-.004	-.004	0	%100
50	GSI-2	Z	-.004	-.004	0	%100
51	GSI-3	Z	-.004	-.004	0	%100
52	GSI-4	Z	-.004	-.004	0	%100
53	GSI-5	Z	-.001	-.001	0	%100
54	GSI-6	Z	-.001	-.001	0	%100
55	MP-1	Z	-.006	-.006	0	%100
56	MP-2	Z	-.006	-.006	0	%100
57	MP-3	Z	-.006	-.006	0	%100
58	MP-4	Z	-.006	-.006	0	%100
59	MP-9	Z	-.006	-.006	0	%100
60	MP-10	Z	-.006	-.006	0	%100
61	MP-11	Z	-.006	-.006	0	%100
62	MP-12	Z	-.006	-.006	0	%100
63	MP-5	Z	-.006	-.006	0	%100
64	MP-6	Z	-.006	-.006	0	%100
65	MP-7	Z	-.006	-.006	0	%100
66	MP-8	Z	-.006	-.006	0	%100
67	SFS-1	Z	-.01	-.01	0	%100
68	SFS-2	Z	-.01	-.01	0	%100
69	SFS-3	Z	-.01	-.01	0	%100
70	SFS-4	Z	-.01	-.01	0	%100
71	SFS-5	Z	-.01	-.01	0	%100
72	SFS-6	Z	-.01	-.01	0	%100

Member Distributed Loads (BLC 9 : 150 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.008	.008	0	%100
2	FFTH-3	X	0	0	0	%100
3	FFTH-2	X	.007	.007	0	%100
4	SA-1	X	.013	.013	0	%100
5	SA-2	X	.006	.006	0	%100
6	SA-3	X	.004	.004	0	%100
7	CP-1	X	.015	.015	0	%100
8	CP-2	X	0	0	0	%100
9	CP-3	X	.015	.015	0	%100
10	SA-3B	X	.004	.004	0	%100
11	SA-2B	X	.006	.006	0	%100
12	SA-1B	X	.012	.012	0	%100
13	GSI-1	X	.002	.002	0	%100
14	GSI-2	X	.002	.002	0	%100
15	GSI-3	X	.007	.007	0	%100
16	GSI-4	X	.007	.007	0	%100
17	GSI-5	X	.003	.003	0	%100
18	GSI-6	X	.003	.003	0	%100
19	MP-1	X	.007	.007	0	%100
20	MP-2	X	.007	.007	0	%100
21	MP-3	X	.007	.007	0	%100
22	MP-4	X	.007	.007	0	%100
23	MP-9	X	.007	.007	0	%100
24	MP-10	X	.007	.007	0	%100
25	MP-11	X	.007	.007	0	%100
26	MP-12	X	.007	.007	0	%100
27	MP-5	X	.007	.007	0	%100
28	MP-6	X	.007	.007	0	%100
29	MP-7	X	.007	.007	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
30	MP-8	X	.007	.007	0	%100
31	SFS-1	X	.012	.012	0	%100
32	SFS-2	X	.012	.012	0	%100
33	SFS-3	X	.012	.012	0	%100
34	SFS-4	X	.012	.012	0	%100
35	SFS-5	X	.012	.012	0	%100
36	SFS-6	X	.012	.012	0	%100
37	FFTH-1	Z	-.004	-.004	0	%100
38	FFTH-3	Z	0	0	0	%100
39	FFTH-2	Z	-.004	-.004	0	%100
40	SA-1	Z	-.006	-.006	0	%100
41	SA-2	Z	-.003	-.003	0	%100
42	SA-3	Z	-.004	-.004	0	%100
43	CP-1	Z	-.009	-.009	0	%100
44	CP-2	Z	0	0	0	%100
45	CP-3	Z	-.009	-.009	0	%100
46	SA-3B	Z	-.004	-.004	0	%100
47	SA-2B	Z	-.003	-.003	0	%100
48	SA-1B	Z	-.006	-.006	0	%100
49	GSI-1	Z	-.002	-.002	0	%100
50	GSI-2	Z	-.002	-.002	0	%100
51	GSI-3	Z	-.003	-.003	0	%100
52	GSI-4	Z	-.003	-.003	0	%100
53	GSI-5	Z	-.002	-.002	0	%100
54	GSI-6	Z	-.002	-.002	0	%100
55	MP-1	Z	-.004	-.004	0	%100
56	MP-2	Z	-.004	-.004	0	%100
57	MP-3	Z	-.004	-.004	0	%100
58	MP-4	Z	-.004	-.004	0	%100
59	MP-9	Z	-.004	-.004	0	%100
60	MP-10	Z	-.004	-.004	0	%100
61	MP-11	Z	-.004	-.004	0	%100
62	MP-12	Z	-.004	-.004	0	%100
63	MP-5	Z	-.004	-.004	0	%100
64	MP-6	Z	-.004	-.004	0	%100
65	MP-7	Z	-.004	-.004	0	%100
66	MP-8	Z	-.004	-.004	0	%100
67	SFS-1	Z	-.007	-.007	0	%100
68	SFS-2	Z	-.007	-.007	0	%100
69	SFS-3	Z	-.007	-.007	0	%100
70	SFS-4	Z	-.007	-.007	0	%100
71	SFS-5	Z	-.007	-.007	0	%100
72	SFS-6	Z	-.007	-.007	0	%100

Member Distributed Loads (BLC 10 : 180 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.01	.01	0	%100
2	FFTH-3	X	.005	.005	0	%100
3	FFTH-2	X	.005	.005	0	%100
4	SA-1	X	.013	.013	0	%100
5	SA-2	X	.013	.013	0	%100
6	SA-3	X	0	0	0	%100
7	CP-1	X	.01	.01	0	%100
8	CP-2	X	.01	.01	0	%100
9	CP-3	X	.02	.02	0	%100
10	SA-3B	X	0	0	0	%100

Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
11	SA-2B	X	.012	.012	0	%100
12	SA-1B	X	.012	.012	0	%100
13	GSI-1	X	0	0	0	%100
14	GSI-2	X	0	0	0	%100
15	GSI-3	X	.007	.007	0	%100
16	GSI-4	X	.007	.007	0	%100
17	GSI-5	X	.007	.007	0	%100
18	GSI-6	X	.007	.007	0	%100
19	MP-1	X	.008	.008	0	%100
20	MP-2	X	.008	.008	0	%100
21	MP-3	X	.008	.008	0	%100
22	MP-4	X	.008	.008	0	%100
23	MP-9	X	.008	.008	0	%100
24	MP-10	X	.008	.008	0	%100
25	MP-11	X	.008	.008	0	%100
26	MP-12	X	.008	.008	0	%100
27	MP-5	X	.008	.008	0	%100
28	MP-6	X	.008	.008	0	%100
29	MP-7	X	.008	.008	0	%100
30	MP-8	X	.008	.008	0	%100
31	SFS-1	X	.014	.014	0	%100
32	SFS-2	X	.014	.014	0	%100
33	SFS-3	X	.014	.014	0	%100
34	SFS-4	X	.014	.014	0	%100
35	SFS-5	X	.014	.014	0	%100
36	SFS-6	X	.014	.014	0	%100

Member Distributed Loads (BLC 11 : 210 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.008	.008	0	%100
2	FFTH-3	X	.007	.007	0	%100
3	FFTH-2	X	0	0	0	%100
4	SA-1	X	.006	.006	0	%100
5	SA-2	X	.013	.013	0	%100
6	SA-3	X	.004	.004	0	%100
7	CP-1	X	0	0	0	%100
8	CP-2	X	.015	.015	0	%100
9	CP-3	X	.015	.015	0	%100
10	SA-3B	X	.004	.004	0	%100
11	SA-2B	X	.012	.012	0	%100
12	SA-1B	X	.006	.006	0	%100
13	GSI-1	X	.002	.002	0	%100
14	GSI-2	X	.002	.002	0	%100
15	GSI-3	X	.003	.003	0	%100
16	GSI-4	X	.003	.003	0	%100
17	GSI-5	X	.007	.007	0	%100
18	GSI-6	X	.007	.007	0	%100
19	MP-1	X	.007	.007	0	%100
20	MP-2	X	.007	.007	0	%100
21	MP-3	X	.007	.007	0	%100
22	MP-4	X	.007	.007	0	%100
23	MP-9	X	.007	.007	0	%100
24	MP-10	X	.007	.007	0	%100
25	MP-11	X	.007	.007	0	%100
26	MP-12	X	.007	.007	0	%100
27	MP-5	X	.007	.007	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
28	MP-6	X	.007	.007	0	%100
29	MP-7	X	.007	.007	0	%100
30	MP-8	X	.007	.007	0	%100
31	SFS-1	X	.012	.012	0	%100
32	SFS-2	X	.012	.012	0	%100
33	SFS-3	X	.012	.012	0	%100
34	SFS-4	X	.012	.012	0	%100
35	SFS-5	X	.012	.012	0	%100
36	SFS-6	X	.012	.012	0	%100
37	FFTH-1	Z	.004	.004	0	%100
38	FFTH-3	Z	.004	.004	0	%100
39	FFTH-2	Z	0	0	0	%100
40	SA-1	Z	.003	.003	0	%100
41	SA-2	Z	.006	.006	0	%100
42	SA-3	Z	.004	.004	0	%100
43	CP-1	Z	0	0	0	%100
44	CP-2	Z	.009	.009	0	%100
45	CP-3	Z	.009	.009	0	%100
46	SA-3B	Z	.004	.004	0	%100
47	SA-2B	Z	.006	.006	0	%100
48	SA-1B	Z	.003	.003	0	%100
49	GSI-1	Z	.002	.002	0	%100
50	GSI-2	Z	.002	.002	0	%100
51	GSI-3	Z	.002	.002	0	%100
52	GSI-4	Z	.002	.002	0	%100
53	GSI-5	Z	.003	.003	0	%100
54	GSI-6	Z	.003	.003	0	%100
55	MP-1	Z	.004	.004	0	%100
56	MP-2	Z	.004	.004	0	%100
57	MP-3	Z	.004	.004	0	%100
58	MP-4	Z	.004	.004	0	%100
59	MP-9	Z	.004	.004	0	%100
60	MP-10	Z	.004	.004	0	%100
61	MP-11	Z	.004	.004	0	%100
62	MP-12	Z	.004	.004	0	%100
63	MP-5	Z	.004	.004	0	%100
64	MP-6	Z	.004	.004	0	%100
65	MP-7	Z	.004	.004	0	%100
66	MP-8	Z	.004	.004	0	%100
67	SFS-1	Z	.007	.007	0	%100
68	SFS-2	Z	.007	.007	0	%100
69	SFS-3	Z	.007	.007	0	%100
70	SFS-4	Z	.007	.007	0	%100
71	SFS-5	Z	.007	.007	0	%100
72	SFS-6	Z	.007	.007	0	%100

Member Distributed Loads (BLC 12 : 225 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.005	.005	0	%100
2	FFTH-3	X	.007	.007	0	%100
3	FFTH-2	X	.002	.002	0	%100
4	SA-1	X	.003	.003	0	%100
5	SA-2	X	.01	.01	0	%100
6	SA-3	X	.005	.005	0	%100
7	CP-1	X	.004	.004	0	%100
8	CP-2	X	.014	.014	0	%100

Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
9	CP-3	X	.01	.01	0	%100
10	SA-3B	X	.005	.005	0	%100
11	SA-2B	X	.009	.009	0	%100
12	SA-1B	X	.002	.002	0	%100
13	GSI-1	X	.003	.003	0	%100
14	GSI-2	X	.003	.003	0	%100
15	GSI-3	X	.001	.001	0	%100
16	GSI-4	X	.001	.001	0	%100
17	GSI-5	X	.005	.005	0	%100
18	GSI-6	X	.005	.005	0	%100
19	MP-1	X	.006	.006	0	%100
20	MP-2	X	.006	.006	0	%100
21	MP-3	X	.006	.006	0	%100
22	MP-4	X	.006	.006	0	%100
23	MP-9	X	.006	.006	0	%100
24	MP-10	X	.006	.006	0	%100
25	MP-11	X	.006	.006	0	%100
26	MP-12	X	.006	.006	0	%100
27	MP-5	X	.006	.006	0	%100
28	MP-6	X	.006	.006	0	%100
29	MP-7	X	.006	.006	0	%100
30	MP-8	X	.006	.006	0	%100
31	SFS-1	X	.01	.01	0	%100
32	SFS-2	X	.01	.01	0	%100
33	SFS-3	X	.01	.01	0	%100
34	SFS-4	X	.01	.01	0	%100
35	SFS-5	X	.01	.01	0	%100
36	SFS-6	X	.01	.01	0	%100
37	FFTH-1	Z	.005	.005	0	%100
38	FFTH-3	Z	.007	.007	0	%100
39	FFTH-2	Z	.002	.002	0	%100
40	SA-1	Z	.002	.002	0	%100
41	SA-2	Z	.009	.009	0	%100
42	SA-3	Z	.008	.008	0	%100
43	CP-1	Z	.004	.004	0	%100
44	CP-2	Z	.014	.014	0	%100
45	CP-3	Z	.01	.01	0	%100
46	SA-3B	Z	.007	.007	0	%100
47	SA-2B	Z	.008	.008	0	%100
48	SA-1B	Z	.002	.002	0	%100
49	GSI-1	Z	.004	.004	0	%100
50	GSI-2	Z	.004	.004	0	%100
51	GSI-3	Z	.001	.001	0	%100
52	GSI-4	Z	.001	.001	0	%100
53	GSI-5	Z	.004	.004	0	%100
54	GSI-6	Z	.004	.004	0	%100
55	MP-1	Z	.006	.006	0	%100
56	MP-2	Z	.006	.006	0	%100
57	MP-3	Z	.006	.006	0	%100
58	MP-4	Z	.006	.006	0	%100
59	MP-9	Z	.006	.006	0	%100
60	MP-10	Z	.006	.006	0	%100
61	MP-11	Z	.006	.006	0	%100
62	MP-12	Z	.006	.006	0	%100
63	MP-5	Z	.006	.006	0	%100
64	MP-6	Z	.006	.006	0	%100
65	MP-7	Z	.006	.006	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
66	MP-8	Z	.006	.006	0	%100
67	SFS-1	Z	.01	.01	0	%100
68	SFS-2	Z	.01	.01	0	%100
69	SFS-3	Z	.01	.01	0	%100
70	SFS-4	Z	.01	.01	0	%100
71	SFS-5	Z	.01	.01	0	%100
72	SFS-6	Z	.01	.01	0	%100

Member Distributed Loads (BLC 13 : 240 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.003	.003	0	%100
2	FFTH-3	X	.005	.005	0	%100
3	FFTH-2	X	.002	.002	0	%100
4	SA-1	X	0	0	0	%100
5	SA-2	X	.006	.006	0	%100
6	SA-3	X	.004	.004	0	%100
7	CP-1	X	.005	.005	0	%100
8	CP-2	X	.01	.01	0	%100
9	CP-3	X	.005	.005	0	%100
10	SA-3B	X	.004	.004	0	%100
11	SA-2B	X	.006	.006	0	%100
12	SA-1B	X	0	0	0	%100
13	GSI-1	X	.002	.002	0	%100
14	GSI-2	X	.002	.002	0	%100
15	GSI-3	X	0	0	0	%100
16	GSI-4	X	0	0	0	%100
17	GSI-5	X	.003	.003	0	%100
18	GSI-6	X	.003	.003	0	%100
19	MP-1	X	.004	.004	0	%100
20	MP-2	X	.004	.004	0	%100
21	MP-3	X	.004	.004	0	%100
22	MP-4	X	.004	.004	0	%100
23	MP-9	X	.004	.004	0	%100
24	MP-10	X	.004	.004	0	%100
25	MP-11	X	.004	.004	0	%100
26	MP-12	X	.004	.004	0	%100
27	MP-5	X	.004	.004	0	%100
28	MP-6	X	.004	.004	0	%100
29	MP-7	X	.004	.004	0	%100
30	MP-8	X	.004	.004	0	%100
31	SFS-1	X	.007	.007	0	%100
32	SFS-2	X	.007	.007	0	%100
33	SFS-3	X	.007	.007	0	%100
34	SFS-4	X	.007	.007	0	%100
35	SFS-5	X	.007	.007	0	%100
36	SFS-6	X	.007	.007	0	%100
37	FFTH-1	Z	.004	.004	0	%100
38	FFTH-3	Z	.009	.009	0	%100
39	FFTH-2	Z	.004	.004	0	%100
40	SA-1	Z	0	0	0	%100
41	SA-2	Z	.009	.009	0	%100
42	SA-3	Z	.012	.012	0	%100
43	CP-1	Z	.009	.009	0	%100
44	CP-2	Z	.017	.017	0	%100
45	CP-3	Z	.009	.009	0	%100
46	SA-3B	Z	.011	.011	0	%100

Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
47	SA-2B	Z	.009	.009	0	%100
48	SA-1B	Z	0	0	0	%100
49	GSI-1	Z	.006	.006	0	%100
50	GSI-2	Z	.006	.006	0	%100
51	GSI-3	Z	0	0	0	%100
52	GSI-4	Z	0	0	0	%100
53	GSI-5	Z	.005	.005	0	%100
54	GSI-6	Z	.005	.005	0	%100
55	MP-1	Z	.007	.007	0	%100
56	MP-2	Z	.007	.007	0	%100
57	MP-3	Z	.007	.007	0	%100
58	MP-4	Z	.007	.007	0	%100
59	MP-9	Z	.007	.007	0	%100
60	MP-10	Z	.007	.007	0	%100
61	MP-11	Z	.007	.007	0	%100
62	MP-12	Z	.007	.007	0	%100
63	MP-5	Z	.007	.007	0	%100
64	MP-6	Z	.007	.007	0	%100
65	MP-7	Z	.007	.007	0	%100
66	MP-8	Z	.007	.007	0	%100
67	SFS-1	Z	.012	.012	0	%100
68	SFS-2	Z	.012	.012	0	%100
69	SFS-3	Z	.012	.012	0	%100
70	SFS-4	Z	.012	.012	0	%100
71	SFS-5	Z	.012	.012	0	%100
72	SFS-6	Z	.012	.012	0	%100

Member Distributed Loads (BLC 14 : 270 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	Z	0	0	0	%100
2	FFTH-3	Z	.009	.009	0	%100
3	FFTH-2	Z	.009	.009	0	%100
4	SA-1	Z	.006	.006	0	%100
5	SA-2	Z	.006	.006	0	%100
6	SA-3	Z	.016	.016	0	%100
7	CP-1	Z	.017	.017	0	%100
8	CP-2	Z	.017	.017	0	%100
9	CP-3	Z	0	0	0	%100
10	SA-3B	Z	.014	.014	0	%100
11	SA-2B	Z	.006	.006	0	%100
12	SA-1B	Z	.006	.006	0	%100
13	GSI-1	Z	.008	.008	0	%100
14	GSI-2	Z	.008	.008	0	%100
15	GSI-3	Z	.003	.003	0	%100
16	GSI-4	Z	.003	.003	0	%100
17	GSI-5	Z	.003	.003	0	%100
18	GSI-6	Z	.003	.003	0	%100
19	MP-1	Z	.008	.008	0	%100
20	MP-2	Z	.008	.008	0	%100
21	MP-3	Z	.008	.008	0	%100
22	MP-4	Z	.008	.008	0	%100
23	MP-9	Z	.008	.008	0	%100
24	MP-10	Z	.008	.008	0	%100
25	MP-11	Z	.008	.008	0	%100
26	MP-12	Z	.008	.008	0	%100
27	MP-5	Z	.008	.008	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
28	MP-6	Z	.008	.008	0	%100
29	MP-7	Z	.008	.008	0	%100
30	MP-8	Z	.008	.008	0	%100
31	SFS-1	Z	.014	.014	0	%100
32	SFS-2	Z	.014	.014	0	%100
33	SFS-3	Z	.014	.014	0	%100
34	SFS-4	Z	.014	.014	0	%100
35	SFS-5	Z	.014	.014	0	%100
36	SFS-6	Z	.014	.014	0	%100

Member Distributed Loads (BLC 15 : 300 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.003	-.003	0	%100
2	FFTH-3	X	-.002	-.002	0	%100
3	FFTH-2	X	-.005	-.005	0	%100
4	SA-1	X	-.006	-.006	0	%100
5	SA-2	X	0	0	0	%100
6	SA-3	X	-.004	-.004	0	%100
7	CP-1	X	-.01	-.01	0	%100
8	CP-2	X	-.005	-.005	0	%100
9	CP-3	X	-.005	-.005	0	%100
10	SA-3B	X	-.004	-.004	0	%100
11	SA-2B	X	0	0	0	%100
12	SA-1B	X	-.006	-.006	0	%100
13	GSI-1	X	-.002	-.002	0	%100
14	GSI-2	X	-.002	-.002	0	%100
15	GSI-3	X	-.003	-.003	0	%100
16	GSI-4	X	-.003	-.003	0	%100
17	GSI-5	X	0	0	0	%100
18	GSI-6	X	0	0	0	%100
19	MP-1	X	-.004	-.004	0	%100
20	MP-2	X	-.004	-.004	0	%100
21	MP-3	X	-.004	-.004	0	%100
22	MP-4	X	-.004	-.004	0	%100
23	MP-9	X	-.004	-.004	0	%100
24	MP-10	X	-.004	-.004	0	%100
25	MP-11	X	-.004	-.004	0	%100
26	MP-12	X	-.004	-.004	0	%100
27	MP-5	X	-.004	-.004	0	%100
28	MP-6	X	-.004	-.004	0	%100
29	MP-7	X	-.004	-.004	0	%100
30	MP-8	X	-.004	-.004	0	%100
31	SFS-1	X	-.007	-.007	0	%100
32	SFS-2	X	-.007	-.007	0	%100
33	SFS-3	X	-.007	-.007	0	%100
34	SFS-4	X	-.007	-.007	0	%100
35	SFS-5	X	-.007	-.007	0	%100
36	SFS-6	X	-.007	-.007	0	%100
37	FFTH-1	Z	.004	.004	0	%100
38	FFTH-3	Z	.004	.004	0	%100
39	FFTH-2	Z	.009	.009	0	%100
40	SA-1	Z	.009	.009	0	%100
41	SA-2	Z	0	0	0	%100
42	SA-3	Z	.012	.012	0	%100
43	CP-1	Z	.017	.017	0	%100
44	CP-2	Z	.009	.009	0	%100

Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
45	CP-3	Z	.009	.009	0	%100
46	SA-3B	Z	.011	.011	0	%100
47	SA-2B	Z	0	0	0	%100
48	SA-1B	Z	.009	.009	0	%100
49	GSI-1	Z	.006	.006	0	%100
50	GSI-2	Z	.006	.006	0	%100
51	GSI-3	Z	.005	.005	0	%100
52	GSI-4	Z	.005	.005	0	%100
53	GSI-5	Z	0	0	0	%100
54	GSI-6	Z	0	0	0	%100
55	MP-1	Z	.007	.007	0	%100
56	MP-2	Z	.007	.007	0	%100
57	MP-3	Z	.007	.007	0	%100
58	MP-4	Z	.007	.007	0	%100
59	MP-9	Z	.007	.007	0	%100
60	MP-10	Z	.007	.007	0	%100
61	MP-11	Z	.007	.007	0	%100
62	MP-12	Z	.007	.007	0	%100
63	MP-5	Z	.007	.007	0	%100
64	MP-6	Z	.007	.007	0	%100
65	MP-7	Z	.007	.007	0	%100
66	MP-8	Z	.007	.007	0	%100
67	SFS-1	Z	.012	.012	0	%100
68	SFS-2	Z	.012	.012	0	%100
69	SFS-3	Z	.012	.012	0	%100
70	SFS-4	Z	.012	.012	0	%100
71	SFS-5	Z	.012	.012	0	%100
72	SFS-6	Z	.012	.012	0	%100

Member Distributed Loads (BLC 16 : 315 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.005	-.005	0	%100
2	FFTH-3	X	-.002	-.002	0	%100
3	FFTH-2	X	-.007	-.007	0	%100
4	SA-1	X	-.01	-.01	0	%100
5	SA-2	X	-.003	-.003	0	%100
6	SA-3	X	-.005	-.005	0	%100
7	CP-1	X	-.014	-.014	0	%100
8	CP-2	X	-.004	-.004	0	%100
9	CP-3	X	-.01	-.01	0	%100
10	SA-3B	X	-.005	-.005	0	%100
11	SA-2B	X	-.002	-.002	0	%100
12	SA-1B	X	-.009	-.009	0	%100
13	GSI-1	X	-.003	-.003	0	%100
14	GSI-2	X	-.003	-.003	0	%100
15	GSI-3	X	-.005	-.005	0	%100
16	GSI-4	X	-.005	-.005	0	%100
17	GSI-5	X	-.001	-.001	0	%100
18	GSI-6	X	-.001	-.001	0	%100
19	MP-1	X	-.006	-.006	0	%100
20	MP-2	X	-.006	-.006	0	%100
21	MP-3	X	-.006	-.006	0	%100
22	MP-4	X	-.006	-.006	0	%100
23	MP-9	X	-.006	-.006	0	%100
24	MP-10	X	-.006	-.006	0	%100
25	MP-11	X	-.006	-.006	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
26	MP-12	X	-.006	-.006	0	%100
27	MP-5	X	-.006	-.006	0	%100
28	MP-6	X	-.006	-.006	0	%100
29	MP-7	X	-.006	-.006	0	%100
30	MP-8	X	-.006	-.006	0	%100
31	SFS-1	X	-.01	-.01	0	%100
32	SFS-2	X	-.01	-.01	0	%100
33	SFS-3	X	-.01	-.01	0	%100
34	SFS-4	X	-.01	-.01	0	%100
35	SFS-5	X	-.01	-.01	0	%100
36	SFS-6	X	-.01	-.01	0	%100
37	FFTH-1	Z	.005	.005	0	%100
38	FFTH-3	Z	.002	.002	0	%100
39	FFTH-2	Z	.007	.007	0	%100
40	SA-1	Z	.009	.009	0	%100
41	SA-2	Z	.002	.002	0	%100
42	SA-3	Z	.008	.008	0	%100
43	CP-1	Z	.014	.014	0	%100
44	CP-2	Z	.004	.004	0	%100
45	CP-3	Z	.01	.01	0	%100
46	SA-3B	Z	.007	.007	0	%100
47	SA-2B	Z	.002	.002	0	%100
48	SA-1B	Z	.008	.008	0	%100
49	GSI-1	Z	.004	.004	0	%100
50	GSI-2	Z	.004	.004	0	%100
51	GSI-3	Z	.004	.004	0	%100
52	GSI-4	Z	.004	.004	0	%100
53	GSI-5	Z	.001	.001	0	%100
54	GSI-6	Z	.001	.001	0	%100
55	MP-1	Z	.006	.006	0	%100
56	MP-2	Z	.006	.006	0	%100
57	MP-3	Z	.006	.006	0	%100
58	MP-4	Z	.006	.006	0	%100
59	MP-9	Z	.006	.006	0	%100
60	MP-10	Z	.006	.006	0	%100
61	MP-11	Z	.006	.006	0	%100
62	MP-12	Z	.006	.006	0	%100
63	MP-5	Z	.006	.006	0	%100
64	MP-6	Z	.006	.006	0	%100
65	MP-7	Z	.006	.006	0	%100
66	MP-8	Z	.006	.006	0	%100
67	SFS-1	Z	.01	.01	0	%100
68	SFS-2	Z	.01	.01	0	%100
69	SFS-3	Z	.01	.01	0	%100
70	SFS-4	Z	.01	.01	0	%100
71	SFS-5	Z	.01	.01	0	%100
72	SFS-6	Z	.01	.01	0	%100

Member Distributed Loads (BLC 17 : 330 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.008	-.008	0	%100
2	FFTH-3	X	0	0	0	%100
3	FFTH-2	X	-.007	-.007	0	%100
4	SA-1	X	-.013	-.013	0	%100
5	SA-2	X	-.006	-.006	0	%100
6	SA-3	X	-.004	-.004	0	%100

Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
7	CP-1	X	-.015	-.015	0	%100
8	CP-2	X	0	0	0	%100
9	CP-3	X	-.015	-.015	0	%100
10	SA-3B	X	-.004	-.004	0	%100
11	SA-2B	X	-.006	-.006	0	%100
12	SA-1B	X	-.012	-.012	0	%100
13	GSI-1	X	-.002	-.002	0	%100
14	GSI-2	X	-.002	-.002	0	%100
15	GSI-3	X	-.007	-.007	0	%100
16	GSI-4	X	-.007	-.007	0	%100
17	GSI-5	X	-.003	-.003	0	%100
18	GSI-6	X	-.003	-.003	0	%100
19	MP-1	X	-.007	-.007	0	%100
20	MP-2	X	-.007	-.007	0	%100
21	MP-3	X	-.007	-.007	0	%100
22	MP-4	X	-.007	-.007	0	%100
23	MP-9	X	-.007	-.007	0	%100
24	MP-10	X	-.007	-.007	0	%100
25	MP-11	X	-.007	-.007	0	%100
26	MP-12	X	-.007	-.007	0	%100
27	MP-5	X	-.007	-.007	0	%100
28	MP-6	X	-.007	-.007	0	%100
29	MP-7	X	-.007	-.007	0	%100
30	MP-8	X	-.007	-.007	0	%100
31	SFS-1	X	-.012	-.012	0	%100
32	SFS-2	X	-.012	-.012	0	%100
33	SFS-3	X	-.012	-.012	0	%100
34	SFS-4	X	-.012	-.012	0	%100
35	SFS-5	X	-.012	-.012	0	%100
36	SFS-6	X	-.012	-.012	0	%100
37	FFTH-1	Z	.004	.004	0	%100
38	FFTH-3	Z	0	0	0	%100
39	FFTH-2	Z	.004	.004	0	%100
40	SA-1	Z	.006	.006	0	%100
41	SA-2	Z	.003	.003	0	%100
42	SA-3	Z	.004	.004	0	%100
43	CP-1	Z	.009	.009	0	%100
44	CP-2	Z	0	0	0	%100
45	CP-3	Z	.009	.009	0	%100
46	SA-3B	Z	.004	.004	0	%100
47	SA-2B	Z	.003	.003	0	%100
48	SA-1B	Z	.006	.006	0	%100
49	GSI-1	Z	.002	.002	0	%100
50	GSI-2	Z	.002	.002	0	%100
51	GSI-3	Z	.003	.003	0	%100
52	GSI-4	Z	.003	.003	0	%100
53	GSI-5	Z	.002	.002	0	%100
54	GSI-6	Z	.002	.002	0	%100
55	MP-1	Z	.004	.004	0	%100
56	MP-2	Z	.004	.004	0	%100
57	MP-3	Z	.004	.004	0	%100
58	MP-4	Z	.004	.004	0	%100
59	MP-9	Z	.004	.004	0	%100
60	MP-10	Z	.004	.004	0	%100
61	MP-11	Z	.004	.004	0	%100
62	MP-12	Z	.004	.004	0	%100
63	MP-5	Z	.004	.004	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
64	MP-6	Z	.004	.004	0	%100
65	MP-7	Z	.004	.004	0	%100
66	MP-8	Z	.004	.004	0	%100
67	SFS-1	Z	.007	.007	0	%100
68	SFS-2	Z	.007	.007	0	%100
69	SFS-3	Z	.007	.007	0	%100
70	SFS-4	Z	.007	.007	0	%100
71	SFS-5	Z	.007	.007	0	%100
72	SFS-6	Z	.007	.007	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	Y	-.011	-.011	0	%100
2	FFTH-3	Y	-.011	-.011	0	%100
3	FFTH-2	Y	-.011	-.011	0	%100
4	SA-1	Y	-.009	-.009	0	%100
5	SA-2	Y	-.009	-.009	0	%100
6	SA-3	Y	-.009	-.009	0	%100
7	CP-1	Y	-.012	-.012	0	%100
8	CP-2	Y	-.012	-.012	0	%100
9	CP-3	Y	-.012	-.012	0	%100
10	SA-3B	Y	-.009	-.009	0	%100
11	SA-2B	Y	-.009	-.009	0	%100
12	SA-1B	Y	-.009	-.009	0	%100
13	GSI-1	Y	-.006	-.006	0	%100
14	GSI-2	Y	-.006	-.006	0	%100
15	GSI-3	Y	-.006	-.006	0	%100
16	GSI-4	Y	-.006	-.006	0	%100
17	GSI-5	Y	-.006	-.006	0	%100
18	GSI-6	Y	-.006	-.006	0	%100
19	MP-1	Y	-.009	-.009	0	%100
20	MP-2	Y	-.009	-.009	0	%100
21	MP-3	Y	-.009	-.009	0	%100
22	MP-4	Y	-.009	-.009	0	%100
23	MP-9	Y	-.009	-.009	0	%100
24	MP-10	Y	-.009	-.009	0	%100
25	MP-11	Y	-.009	-.009	0	%100
26	MP-12	Y	-.009	-.009	0	%100
27	MP-5	Y	-.009	-.009	0	%100
28	MP-6	Y	-.009	-.009	0	%100
29	MP-7	Y	-.009	-.009	0	%100
30	MP-8	Y	-.009	-.009	0	%100
31	SFS-1	Y	-.007	-.007	0	%100
32	SFS-2	Y	-.007	-.007	0	%100
33	SFS-3	Y	-.007	-.007	0	%100
34	SFS-4	Y	-.007	-.007	0	%100
35	SFS-5	Y	-.007	-.007	0	%100
36	SFS-6	Y	-.007	-.007	0	%100

Member Distributed Loads (BLC 19 : 0 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.004	-.004	0	%100
2	FFTH-3	X	-.003	-.003	0	%100
3	FFTH-2	X	-.003	-.003	0	%100
4	SA-1	X	-.005	-.005	0	%100
5	SA-2	X	-.005	-.005	0	%100

Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
6	SA-3	X	-.004	-.004	0	%100
7	CP-1	X	-.007	-.007	0	%100
8	CP-2	X	-.007	-.007	0	%100
9	CP-3	X	-.007	-.007	0	%100
10	SA-3B	X	-.004	-.004	0	%100
11	SA-2B	X	-.005	-.005	0	%100
12	SA-1B	X	-.005	-.005	0	%100
13	GSI-1	X	-.003	-.003	0	%100
14	GSI-2	X	-.003	-.003	0	%100
15	GSI-3	X	-.004	-.004	0	%100
16	GSI-4	X	-.004	-.004	0	%100
17	GSI-5	X	-.004	-.004	0	%100
18	GSI-6	X	-.004	-.004	0	%100
19	MP-1	X	-.003	-.003	0	%100
20	MP-2	X	-.003	-.003	0	%100
21	MP-3	X	-.003	-.003	0	%100
22	MP-4	X	-.003	-.003	0	%100
23	MP-9	X	-.003	-.003	0	%100
24	MP-10	X	-.003	-.003	0	%100
25	MP-11	X	-.003	-.003	0	%100
26	MP-12	X	-.003	-.003	0	%100
27	MP-5	X	-.003	-.003	0	%100
28	MP-6	X	-.003	-.003	0	%100
29	MP-7	X	-.003	-.003	0	%100
30	MP-8	X	-.003	-.003	0	%100
31	SFS-1	X	-.004	-.004	0	%100
32	SFS-2	X	-.004	-.004	0	%100
33	SFS-3	X	-.004	-.004	0	%100
34	SFS-4	X	-.004	-.004	0	%100
35	SFS-5	X	-.004	-.004	0	%100
36	SFS-6	X	-.004	-.004	0	%100

Member Distributed Loads (BLC 20 : 30 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.003	-.003	0	%100
2	FFTH-3	X	-.002	-.002	0	%100
3	FFTH-2	X	0	0	0	%100
4	SA-1	X	-.002	-.002	0	%100
5	SA-2	X	-.004	-.004	0	%100
6	SA-3	X	-.002	-.002	0	%100
7	CP-1	X	0	0	0	%100
8	CP-2	X	-.005	-.005	0	%100
9	CP-3	X	-.005	-.005	0	%100
10	SA-3B	X	-.002	-.002	0	%100
11	SA-2B	X	-.004	-.004	0	%100
12	SA-1B	X	-.002	-.002	0	%100
13	GSI-1	X	-.001	-.001	0	%100
14	GSI-2	X	-.001	-.001	0	%100
15	GSI-3	X	-.002	-.002	0	%100
16	GSI-4	X	-.002	-.002	0	%100
17	GSI-5	X	-.003	-.003	0	%100
18	GSI-6	X	-.003	-.003	0	%100
19	MP-1	X	-.002	-.002	0	%100
20	MP-2	X	-.002	-.002	0	%100
21	MP-3	X	-.002	-.002	0	%100
22	MP-4	X	-.002	-.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
23	MP-9	X	-.002	-.002	0	%100
24	MP-10	X	-.002	-.002	0	%100
25	MP-11	X	-.002	-.002	0	%100
26	MP-12	X	-.002	-.002	0	%100
27	MP-5	X	-.002	-.002	0	%100
28	MP-6	X	-.002	-.002	0	%100
29	MP-7	X	-.002	-.002	0	%100
30	MP-8	X	-.002	-.002	0	%100
31	SFS-1	X	-.004	-.004	0	%100
32	SFS-2	X	-.004	-.004	0	%100
33	SFS-3	X	-.004	-.004	0	%100
34	SFS-4	X	-.004	-.004	0	%100
35	SFS-5	X	-.004	-.004	0	%100
36	SFS-6	X	-.004	-.004	0	%100
37	FFTH-1	Z	-.002	-.002	0	%100
38	FFTH-3	Z	-.002	-.002	0	%100
39	FFTH-2	Z	0	0	0	%100
40	SA-1	Z	-.001	-.001	0	%100
41	SA-2	Z	-.002	-.002	0	%100
42	SA-3	Z	-.001	-.001	0	%100
43	CP-1	Z	0	0	0	%100
44	CP-2	Z	-.003	-.003	0	%100
45	CP-3	Z	-.003	-.003	0	%100
46	SA-3B	Z	-.001	-.001	0	%100
47	SA-2B	Z	-.002	-.002	0	%100
48	SA-1B	Z	-.001	-.001	0	%100
49	GSI-1	Z	-.000942	-.000942	0	%100
50	GSI-2	Z	-.000942	-.000942	0	%100
51	GSI-3	Z	-.000842	-.000842	0	%100
52	GSI-4	Z	-.000842	-.000842	0	%100
53	GSI-5	Z	-.002	-.002	0	%100
54	GSI-6	Z	-.002	-.002	0	%100
55	MP-1	Z	-.001	-.001	0	%100
56	MP-2	Z	-.001	-.001	0	%100
57	MP-3	Z	-.001	-.001	0	%100
58	MP-4	Z	-.001	-.001	0	%100
59	MP-9	Z	-.001	-.001	0	%100
60	MP-10	Z	-.001	-.001	0	%100
61	MP-11	Z	-.001	-.001	0	%100
62	MP-12	Z	-.001	-.001	0	%100
63	MP-5	Z	-.001	-.001	0	%100
64	MP-6	Z	-.001	-.001	0	%100
65	MP-7	Z	-.001	-.001	0	%100
66	MP-8	Z	-.001	-.001	0	%100
67	SFS-1	Z	-.002	-.002	0	%100
68	SFS-2	Z	-.002	-.002	0	%100
69	SFS-3	Z	-.002	-.002	0	%100
70	SFS-4	Z	-.002	-.002	0	%100
71	SFS-5	Z	-.002	-.002	0	%100
72	SFS-6	Z	-.002	-.002	0	%100

Member Distributed Loads (BLC 21 : 45 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.002	-.002	0	%100
2	FFTH-3	X	-.002	-.002	0	%100
3	FFTH-2	X	-.000574	-.000574	0	%100

Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
4	SA-1	X	-.000883	-.000883	0	%100
5	SA-2	X	-.003	-.003	0	%100
6	SA-3	X	-.002	-.002	0	%100
7	CP-1	X	-.001	-.001	0	%100
8	CP-2	X	-.005	-.005	0	%100
9	CP-3	X	-.004	-.004	0	%100
10	SA-3B	X	-.002	-.002	0	%100
11	SA-2B	X	-.003	-.003	0	%100
12	SA-1B	X	-.000856	-.000856	0	%100
13	GSI-1	X	-.002	-.002	0	%100
14	GSI-2	X	-.002	-.002	0	%100
15	GSI-3	X	-.000674	-.000674	0	%100
16	GSI-4	X	-.000674	-.000674	0	%100
17	GSI-5	X	-.003	-.003	0	%100
18	GSI-6	X	-.003	-.003	0	%100
19	MP-1	X	-.002	-.002	0	%100
20	MP-2	X	-.002	-.002	0	%100
21	MP-3	X	-.002	-.002	0	%100
22	MP-4	X	-.002	-.002	0	%100
23	MP-9	X	-.002	-.002	0	%100
24	MP-10	X	-.002	-.002	0	%100
25	MP-11	X	-.002	-.002	0	%100
26	MP-12	X	-.002	-.002	0	%100
27	MP-5	X	-.002	-.002	0	%100
28	MP-6	X	-.002	-.002	0	%100
29	MP-7	X	-.002	-.002	0	%100
30	MP-8	X	-.002	-.002	0	%100
31	SFS-1	X	-.003	-.003	0	%100
32	SFS-2	X	-.003	-.003	0	%100
33	SFS-3	X	-.003	-.003	0	%100
34	SFS-4	X	-.003	-.003	0	%100
35	SFS-5	X	-.003	-.003	0	%100
36	SFS-6	X	-.003	-.003	0	%100
37	FFTH-1	Z	-.002	-.002	0	%100
38	FFTH-3	Z	-.003	-.003	0	%100
39	FFTH-2	Z	-.000693	-.000693	0	%100
40	SA-1	Z	-.000801	-.000801	0	%100
41	SA-2	Z	-.003	-.003	0	%100
42	SA-3	Z	-.002	-.002	0	%100
43	CP-1	Z	-.001	-.001	0	%100
44	CP-2	Z	-.005	-.005	0	%100
45	CP-3	Z	-.003	-.003	0	%100
46	SA-3B	Z	-.002	-.002	0	%100
47	SA-2B	Z	-.003	-.003	0	%100
48	SA-1B	Z	-.000783	-.000783	0	%100
49	GSI-1	Z	-.002	-.002	0	%100
50	GSI-2	Z	-.002	-.002	0	%100
51	GSI-3	Z	-.000617	-.000617	0	%100
52	GSI-4	Z	-.000617	-.000617	0	%100
53	GSI-5	Z	-.002	-.002	0	%100
54	GSI-6	Z	-.002	-.002	0	%100
55	MP-1	Z	-.002	-.002	0	%100
56	MP-2	Z	-.002	-.002	0	%100
57	MP-3	Z	-.002	-.002	0	%100
58	MP-4	Z	-.002	-.002	0	%100
59	MP-9	Z	-.002	-.002	0	%100
60	MP-10	Z	-.002	-.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
61	MP-11	Z	-.002	-.002	0	%100
62	MP-12	Z	-.002	-.002	0	%100
63	MP-5	Z	-.002	-.002	0	%100
64	MP-6	Z	-.002	-.002	0	%100
65	MP-7	Z	-.002	-.002	0	%100
66	MP-8	Z	-.002	-.002	0	%100
67	SFS-1	Z	-.003	-.003	0	%100
68	SFS-2	Z	-.003	-.003	0	%100
69	SFS-3	Z	-.003	-.003	0	%100
70	SFS-4	Z	-.003	-.003	0	%100
71	SFS-5	Z	-.003	-.003	0	%100
72	SFS-6	Z	-.003	-.003	0	%100

Member Distributed Loads (BLC 22 : 60 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.001	-.001	0	%100
2	FFTH-3	X	-.002	-.002	0	%100
3	FFTH-2	X	-.000785	-.000785	0	%100
4	SA-1	X	0	0	0	%100
5	SA-2	X	-.002	-.002	0	%100
6	SA-3	X	-.002	-.002	0	%100
7	CP-1	X	-.002	-.002	0	%100
8	CP-2	X	-.004	-.004	0	%100
9	CP-3	X	-.002	-.002	0	%100
10	SA-3B	X	-.002	-.002	0	%100
11	SA-2B	X	-.002	-.002	0	%100
12	SA-1B	X	0	0	0	%100
13	GSI-1	X	-.001	-.001	0	%100
14	GSI-2	X	-.001	-.001	0	%100
15	GSI-3	X	0	0	0	%100
16	GSI-4	X	0	0	0	%100
17	GSI-5	X	-.002	-.002	0	%100
18	GSI-6	X	-.002	-.002	0	%100
19	MP-1	X	-.001	-.001	0	%100
20	MP-2	X	-.001	-.001	0	%100
21	MP-3	X	-.001	-.001	0	%100
22	MP-4	X	-.001	-.001	0	%100
23	MP-9	X	-.001	-.001	0	%100
24	MP-10	X	-.001	-.001	0	%100
25	MP-11	X	-.001	-.001	0	%100
26	MP-12	X	-.001	-.001	0	%100
27	MP-5	X	-.001	-.001	0	%100
28	MP-6	X	-.001	-.001	0	%100
29	MP-7	X	-.001	-.001	0	%100
30	MP-8	X	-.001	-.001	0	%100
31	SFS-1	X	-.002	-.002	0	%100
32	SFS-2	X	-.002	-.002	0	%100
33	SFS-3	X	-.002	-.002	0	%100
34	SFS-4	X	-.002	-.002	0	%100
35	SFS-5	X	-.002	-.002	0	%100
36	SFS-6	X	-.002	-.002	0	%100
37	FFTH-1	Z	-.002	-.002	0	%100
38	FFTH-3	Z	-.003	-.003	0	%100
39	FFTH-2	Z	-.002	-.002	0	%100
40	SA-1	Z	0	0	0	%100
41	SA-2	Z	-.003	-.003	0	%100

Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
42	SA-3	Z	-.004	-.004	0	%100
43	CP-1	Z	-.003	-.003	0	%100
44	CP-2	Z	-.006	-.006	0	%100
45	CP-3	Z	-.003	-.003	0	%100
46	SA-3B	Z	-.004	-.004	0	%100
47	SA-2B	Z	-.003	-.003	0	%100
48	SA-1B	Z	0	0	0	%100
49	GSI-1	Z	-.003	-.003	0	%100
50	GSI-2	Z	-.003	-.003	0	%100
51	GSI-3	Z	0	0	0	%100
52	GSI-4	Z	0	0	0	%100
53	GSI-5	Z	-.003	-.003	0	%100
54	GSI-6	Z	-.003	-.003	0	%100
55	MP-1	Z	-.002	-.002	0	%100
56	MP-2	Z	-.002	-.002	0	%100
57	MP-3	Z	-.002	-.002	0	%100
58	MP-4	Z	-.002	-.002	0	%100
59	MP-9	Z	-.002	-.002	0	%100
60	MP-10	Z	-.002	-.002	0	%100
61	MP-11	Z	-.002	-.002	0	%100
62	MP-12	Z	-.002	-.002	0	%100
63	MP-5	Z	-.002	-.002	0	%100
64	MP-6	Z	-.002	-.002	0	%100
65	MP-7	Z	-.002	-.002	0	%100
66	MP-8	Z	-.002	-.002	0	%100
67	SFS-1	Z	-.004	-.004	0	%100
68	SFS-2	Z	-.004	-.004	0	%100
69	SFS-3	Z	-.004	-.004	0	%100
70	SFS-4	Z	-.004	-.004	0	%100
71	SFS-5	Z	-.004	-.004	0	%100
72	SFS-6	Z	-.004	-.004	0	%100

Member Distributed Loads (BLC 23 : 90 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	Z	0	0	0	%100
2	FFTH-3	Z	-.003	-.003	0	%100
3	FFTH-2	Z	-.003	-.003	0	%100
4	SA-1	Z	-.002	-.002	0	%100
5	SA-2	Z	-.002	-.002	0	%100
6	SA-3	Z	-.005	-.005	0	%100
7	CP-1	Z	-.006	-.006	0	%100
8	CP-2	Z	-.006	-.006	0	%100
9	CP-3	Z	0	0	0	%100
10	SA-3B	Z	-.005	-.005	0	%100
11	SA-2B	Z	-.002	-.002	0	%100
12	SA-1B	Z	-.002	-.002	0	%100
13	GSI-1	Z	-.004	-.004	0	%100
14	GSI-2	Z	-.004	-.004	0	%100
15	GSI-3	Z	-.002	-.002	0	%100
16	GSI-4	Z	-.002	-.002	0	%100
17	GSI-5	Z	-.002	-.002	0	%100
18	GSI-6	Z	-.002	-.002	0	%100
19	MP-1	Z	-.003	-.003	0	%100
20	MP-2	Z	-.003	-.003	0	%100
21	MP-3	Z	-.003	-.003	0	%100
22	MP-4	Z	-.003	-.003	0	%100

Member Distributed Loads (BLC 23 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
23	MP-9	Z	-.003	-.003	0	%100
24	MP-10	Z	-.003	-.003	0	%100
25	MP-11	Z	-.003	-.003	0	%100
26	MP-12	Z	-.003	-.003	0	%100
27	MP-5	Z	-.003	-.003	0	%100
28	MP-6	Z	-.003	-.003	0	%100
29	MP-7	Z	-.003	-.003	0	%100
30	MP-8	Z	-.003	-.003	0	%100
31	SFS-1	Z	-.005	-.005	0	%100
32	SFS-2	Z	-.005	-.005	0	%100
33	SFS-3	Z	-.005	-.005	0	%100
34	SFS-4	Z	-.005	-.005	0	%100
35	SFS-5	Z	-.005	-.005	0	%100
36	SFS-6	Z	-.005	-.005	0	%100

Member Distributed Loads (BLC 24 : 120 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.001	.001	0	%100
2	FFTH-3	X	.000785	.000785	0	%100
3	FFTH-2	X	.002	.002	0	%100
4	SA-1	X	.002	.002	0	%100
5	SA-2	X	0	0	0	%100
6	SA-3	X	.002	.002	0	%100
7	CP-1	X	.004	.004	0	%100
8	CP-2	X	.002	.002	0	%100
9	CP-3	X	.002	.002	0	%100
10	SA-3B	X	.002	.002	0	%100
11	SA-2B	X	0	0	0	%100
12	SA-1B	X	.002	.002	0	%100
13	GSI-1	X	.001	.001	0	%100
14	GSI-2	X	.001	.001	0	%100
15	GSI-3	X	.002	.002	0	%100
16	GSI-4	X	.002	.002	0	%100
17	GSI-5	X	0	0	0	%100
18	GSI-6	X	0	0	0	%100
19	MP-1	X	.001	.001	0	%100
20	MP-2	X	.001	.001	0	%100
21	MP-3	X	.001	.001	0	%100
22	MP-4	X	.001	.001	0	%100
23	MP-9	X	.001	.001	0	%100
24	MP-10	X	.001	.001	0	%100
25	MP-11	X	.001	.001	0	%100
26	MP-12	X	.001	.001	0	%100
27	MP-5	X	.001	.001	0	%100
28	MP-6	X	.001	.001	0	%100
29	MP-7	X	.001	.001	0	%100
30	MP-8	X	.001	.001	0	%100
31	SFS-1	X	.002	.002	0	%100
32	SFS-2	X	.002	.002	0	%100
33	SFS-3	X	.002	.002	0	%100
34	SFS-4	X	.002	.002	0	%100
35	SFS-5	X	.002	.002	0	%100
36	SFS-6	X	.002	.002	0	%100
37	FFTH-1	Z	-.002	-.002	0	%100
38	FFTH-3	Z	-.002	-.002	0	%100
39	FFTH-2	Z	-.003	-.003	0	%100

Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
40	SA-1	Z	-.003	-.003	0	%100
41	SA-2	Z	0	0	0	%100
42	SA-3	Z	-.004	-.004	0	%100
43	CP-1	Z	-.006	-.006	0	%100
44	CP-2	Z	-.003	-.003	0	%100
45	CP-3	Z	-.003	-.003	0	%100
46	SA-3B	Z	-.004	-.004	0	%100
47	SA-2B	Z	0	0	0	%100
48	SA-1B	Z	-.003	-.003	0	%100
49	GSI-1	Z	-.003	-.003	0	%100
50	GSI-2	Z	-.003	-.003	0	%100
51	GSI-3	Z	-.003	-.003	0	%100
52	GSI-4	Z	-.003	-.003	0	%100
53	GSI-5	Z	0	0	0	%100
54	GSI-6	Z	0	0	0	%100
55	MP-1	Z	-.002	-.002	0	%100
56	MP-2	Z	-.002	-.002	0	%100
57	MP-3	Z	-.002	-.002	0	%100
58	MP-4	Z	-.002	-.002	0	%100
59	MP-9	Z	-.002	-.002	0	%100
60	MP-10	Z	-.002	-.002	0	%100
61	MP-11	Z	-.002	-.002	0	%100
62	MP-12	Z	-.002	-.002	0	%100
63	MP-5	Z	-.002	-.002	0	%100
64	MP-6	Z	-.002	-.002	0	%100
65	MP-7	Z	-.002	-.002	0	%100
66	MP-8	Z	-.002	-.002	0	%100
67	SFS-1	Z	-.004	-.004	0	%100
68	SFS-2	Z	-.004	-.004	0	%100
69	SFS-3	Z	-.004	-.004	0	%100
70	SFS-4	Z	-.004	-.004	0	%100
71	SFS-5	Z	-.004	-.004	0	%100
72	SFS-6	Z	-.004	-.004	0	%100

Member Distributed Loads (BLC 25 : 135 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.002	.002	0	%100
2	FFTH-3	X	.000574	.000574	0	%100
3	FFTH-2	X	.002	.002	0	%100
4	SA-1	X	.003	.003	0	%100
5	SA-2	X	.000883	.000883	0	%100
6	SA-3	X	.002	.002	0	%100
7	CP-1	X	.005	.005	0	%100
8	CP-2	X	.001	.001	0	%100
9	CP-3	X	.004	.004	0	%100
10	SA-3B	X	.002	.002	0	%100
11	SA-2B	X	.000856	.000856	0	%100
12	SA-1B	X	.003	.003	0	%100
13	GSI-1	X	.002	.002	0	%100
14	GSI-2	X	.002	.002	0	%100
15	GSI-3	X	.003	.003	0	%100
16	GSI-4	X	.003	.003	0	%100
17	GSI-5	X	.000674	.000674	0	%100
18	GSI-6	X	.000674	.000674	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-2	X	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
21	MP-3	X	.002	.002	0	%100
22	MP-4	X	.002	.002	0	%100
23	MP-9	X	.002	.002	0	%100
24	MP-10	X	.002	.002	0	%100
25	MP-11	X	.002	.002	0	%100
26	MP-12	X	.002	.002	0	%100
27	MP-5	X	.002	.002	0	%100
28	MP-6	X	.002	.002	0	%100
29	MP-7	X	.002	.002	0	%100
30	MP-8	X	.002	.002	0	%100
31	SFS-1	X	.003	.003	0	%100
32	SFS-2	X	.003	.003	0	%100
33	SFS-3	X	.003	.003	0	%100
34	SFS-4	X	.003	.003	0	%100
35	SFS-5	X	.003	.003	0	%100
36	SFS-6	X	.003	.003	0	%100
37	FFTH-1	Z	-.002	-.002	0	%100
38	FFTH-3	Z	-.000693	-.000693	0	%100
39	FFTH-2	Z	-.003	-.003	0	%100
40	SA-1	Z	-.003	-.003	0	%100
41	SA-2	Z	-.000801	-.000801	0	%100
42	SA-3	Z	-.002	-.002	0	%100
43	CP-1	Z	-.005	-.005	0	%100
44	CP-2	Z	-.001	-.001	0	%100
45	CP-3	Z	-.003	-.003	0	%100
46	SA-3B	Z	-.002	-.002	0	%100
47	SA-2B	Z	-.000783	-.000783	0	%100
48	SA-1B	Z	-.003	-.003	0	%100
49	GSI-1	Z	-.002	-.002	0	%100
50	GSI-2	Z	-.002	-.002	0	%100
51	GSI-3	Z	-.002	-.002	0	%100
52	GSI-4	Z	-.002	-.002	0	%100
53	GSI-5	Z	-.000617	-.000617	0	%100
54	GSI-6	Z	-.000617	-.000617	0	%100
55	MP-1	Z	-.002	-.002	0	%100
56	MP-2	Z	-.002	-.002	0	%100
57	MP-3	Z	-.002	-.002	0	%100
58	MP-4	Z	-.002	-.002	0	%100
59	MP-9	Z	-.002	-.002	0	%100
60	MP-10	Z	-.002	-.002	0	%100
61	MP-11	Z	-.002	-.002	0	%100
62	MP-12	Z	-.002	-.002	0	%100
63	MP-5	Z	-.002	-.002	0	%100
64	MP-6	Z	-.002	-.002	0	%100
65	MP-7	Z	-.002	-.002	0	%100
66	MP-8	Z	-.002	-.002	0	%100
67	SFS-1	Z	-.003	-.003	0	%100
68	SFS-2	Z	-.003	-.003	0	%100
69	SFS-3	Z	-.003	-.003	0	%100
70	SFS-4	Z	-.003	-.003	0	%100
71	SFS-5	Z	-.003	-.003	0	%100
72	SFS-6	Z	-.003	-.003	0	%100

Member Distributed Loads (BLC 26 : 150 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.003	.003	0	%100

Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
2	FFTH-3	X	0	0	0	%100
3	FFTH-2	X	.002	.002	0	%100
4	SA-1	X	.004	.004	0	%100
5	SA-2	X	.002	.002	0	%100
6	SA-3	X	.002	.002	0	%100
7	CP-1	X	.005	.005	0	%100
8	CP-2	X	0	0	0	%100
9	CP-3	X	.005	.005	0	%100
10	SA-3B	X	.002	.002	0	%100
11	SA-2B	X	.002	.002	0	%100
12	SA-1B	X	.004	.004	0	%100
13	GSI-1	X	.001	.001	0	%100
14	GSI-2	X	.001	.001	0	%100
15	GSI-3	X	.003	.003	0	%100
16	GSI-4	X	.003	.003	0	%100
17	GSI-5	X	.002	.002	0	%100
18	GSI-6	X	.002	.002	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-2	X	.002	.002	0	%100
21	MP-3	X	.002	.002	0	%100
22	MP-4	X	.002	.002	0	%100
23	MP-9	X	.002	.002	0	%100
24	MP-10	X	.002	.002	0	%100
25	MP-11	X	.002	.002	0	%100
26	MP-12	X	.002	.002	0	%100
27	MP-5	X	.002	.002	0	%100
28	MP-6	X	.002	.002	0	%100
29	MP-7	X	.002	.002	0	%100
30	MP-8	X	.002	.002	0	%100
31	SFS-1	X	.004	.004	0	%100
32	SFS-2	X	.004	.004	0	%100
33	SFS-3	X	.004	.004	0	%100
34	SFS-4	X	.004	.004	0	%100
35	SFS-5	X	.004	.004	0	%100
36	SFS-6	X	.004	.004	0	%100
37	FFTH-1	Z	-.002	-.002	0	%100
38	FFTH-3	Z	0	0	0	%100
39	FFTH-2	Z	-.002	-.002	0	%100
40	SA-1	Z	-.002	-.002	0	%100
41	SA-2	Z	-.001	-.001	0	%100
42	SA-3	Z	-.001	-.001	0	%100
43	CP-1	Z	-.003	-.003	0	%100
44	CP-2	Z	0	0	0	%100
45	CP-3	Z	-.003	-.003	0	%100
46	SA-3B	Z	-.001	-.001	0	%100
47	SA-2B	Z	-.001	-.001	0	%100
48	SA-1B	Z	-.002	-.002	0	%100
49	GSI-1	Z	-.000942	-.000942	0	%100
50	GSI-2	Z	-.000942	-.000942	0	%100
51	GSI-3	Z	-.002	-.002	0	%100
52	GSI-4	Z	-.002	-.002	0	%100
53	GSI-5	Z	-.000842	-.000842	0	%100
54	GSI-6	Z	-.000842	-.000842	0	%100
55	MP-1	Z	-.001	-.001	0	%100
56	MP-2	Z	-.001	-.001	0	%100
57	MP-3	Z	-.001	-.001	0	%100
58	MP-4	Z	-.001	-.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
59	MP-9	Z	-.001	-.001	0	%100
60	MP-10	Z	-.001	-.001	0	%100
61	MP-11	Z	-.001	-.001	0	%100
62	MP-12	Z	-.001	-.001	0	%100
63	MP-5	Z	-.001	-.001	0	%100
64	MP-6	Z	-.001	-.001	0	%100
65	MP-7	Z	-.001	-.001	0	%100
66	MP-8	Z	-.001	-.001	0	%100
67	SFS-1	Z	-.002	-.002	0	%100
68	SFS-2	Z	-.002	-.002	0	%100
69	SFS-3	Z	-.002	-.002	0	%100
70	SFS-4	Z	-.002	-.002	0	%100
71	SFS-5	Z	-.002	-.002	0	%100
72	SFS-6	Z	-.002	-.002	0	%100

Member Distributed Loads (BLC 27 : 180 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.004	.004	0	%100
2	FFTH-3	X	.003	.003	0	%100
3	FFTH-2	X	.003	.003	0	%100
4	SA-1	X	.005	.005	0	%100
5	SA-2	X	.005	.005	0	%100
6	SA-3	X	.004	.004	0	%100
7	CP-1	X	.007	.007	0	%100
8	CP-2	X	.007	.007	0	%100
9	CP-3	X	.007	.007	0	%100
10	SA-3B	X	.004	.004	0	%100
11	SA-2B	X	.005	.005	0	%100
12	SA-1B	X	.005	.005	0	%100
13	GSI-1	X	.003	.003	0	%100
14	GSI-2	X	.003	.003	0	%100
15	GSI-3	X	.004	.004	0	%100
16	GSI-4	X	.004	.004	0	%100
17	GSI-5	X	.004	.004	0	%100
18	GSI-6	X	.004	.004	0	%100
19	MP-1	X	.003	.003	0	%100
20	MP-2	X	.003	.003	0	%100
21	MP-3	X	.003	.003	0	%100
22	MP-4	X	.003	.003	0	%100
23	MP-9	X	.003	.003	0	%100
24	MP-10	X	.003	.003	0	%100
25	MP-11	X	.003	.003	0	%100
26	MP-12	X	.003	.003	0	%100
27	MP-5	X	.003	.003	0	%100
28	MP-6	X	.003	.003	0	%100
29	MP-7	X	.003	.003	0	%100
30	MP-8	X	.003	.003	0	%100
31	SFS-1	X	.004	.004	0	%100
32	SFS-2	X	.004	.004	0	%100
33	SFS-3	X	.004	.004	0	%100
34	SFS-4	X	.004	.004	0	%100
35	SFS-5	X	.004	.004	0	%100
36	SFS-6	X	.004	.004	0	%100

Member Distributed Loads (BLC 28 : 210 Wind - Ice)

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

Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.003	.003	0	%100
2	FFTH-3	X	.002	.002	0	%100
3	FFTH-2	X	0	0	0	%100
4	SA-1	X	.002	.002	0	%100
5	SA-2	X	.004	.004	0	%100
6	SA-3	X	.002	.002	0	%100
7	CP-1	X	0	0	0	%100
8	CP-2	X	.005	.005	0	%100
9	CP-3	X	.005	.005	0	%100
10	SA-3B	X	.002	.002	0	%100
11	SA-2B	X	.004	.004	0	%100
12	SA-1B	X	.002	.002	0	%100
13	GSI-1	X	.001	.001	0	%100
14	GSI-2	X	.001	.001	0	%100
15	GSI-3	X	.002	.002	0	%100
16	GSI-4	X	.002	.002	0	%100
17	GSI-5	X	.003	.003	0	%100
18	GSI-6	X	.003	.003	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-2	X	.002	.002	0	%100
21	MP-3	X	.002	.002	0	%100
22	MP-4	X	.002	.002	0	%100
23	MP-9	X	.002	.002	0	%100
24	MP-10	X	.002	.002	0	%100
25	MP-11	X	.002	.002	0	%100
26	MP-12	X	.002	.002	0	%100
27	MP-5	X	.002	.002	0	%100
28	MP-6	X	.002	.002	0	%100
29	MP-7	X	.002	.002	0	%100
30	MP-8	X	.002	.002	0	%100
31	SFS-1	X	.004	.004	0	%100
32	SFS-2	X	.004	.004	0	%100
33	SFS-3	X	.004	.004	0	%100
34	SFS-4	X	.004	.004	0	%100
35	SFS-5	X	.004	.004	0	%100
36	SFS-6	X	.004	.004	0	%100
37	FFTH-1	Z	.002	.002	0	%100
38	FFTH-3	Z	.002	.002	0	%100
39	FFTH-2	Z	0	0	0	%100
40	SA-1	Z	.001	.001	0	%100
41	SA-2	Z	.002	.002	0	%100
42	SA-3	Z	.001	.001	0	%100
43	CP-1	Z	0	0	0	%100
44	CP-2	Z	.003	.003	0	%100
45	CP-3	Z	.003	.003	0	%100
46	SA-3B	Z	.001	.001	0	%100
47	SA-2B	Z	.002	.002	0	%100
48	SA-1B	Z	.001	.001	0	%100
49	GSI-1	Z	.000942	.000942	0	%100
50	GSI-2	Z	.000942	.000942	0	%100
51	GSI-3	Z	.000842	.000842	0	%100
52	GSI-4	Z	.000842	.000842	0	%100
53	GSI-5	Z	.002	.002	0	%100
54	GSI-6	Z	.002	.002	0	%100
55	MP-1	Z	.001	.001	0	%100
56	MP-2	Z	.001	.001	0	%100
57	MP-3	Z	.001	.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
58	MP-4	Z	.001	.001	0	%100
59	MP-9	Z	.001	.001	0	%100
60	MP-10	Z	.001	.001	0	%100
61	MP-11	Z	.001	.001	0	%100
62	MP-12	Z	.001	.001	0	%100
63	MP-5	Z	.001	.001	0	%100
64	MP-6	Z	.001	.001	0	%100
65	MP-7	Z	.001	.001	0	%100
66	MP-8	Z	.001	.001	0	%100
67	SFS-1	Z	.002	.002	0	%100
68	SFS-2	Z	.002	.002	0	%100
69	SFS-3	Z	.002	.002	0	%100
70	SFS-4	Z	.002	.002	0	%100
71	SFS-5	Z	.002	.002	0	%100
72	SFS-6	Z	.002	.002	0	%100

Member Distributed Loads (BLC 29 : 225 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.002	.002	0	%100
2	FFTH-3	X	.002	.002	0	%100
3	FFTH-2	X	.000574	.000574	0	%100
4	SA-1	X	.000883	.000883	0	%100
5	SA-2	X	.003	.003	0	%100
6	SA-3	X	.002	.002	0	%100
7	CP-1	X	.001	.001	0	%100
8	CP-2	X	.005	.005	0	%100
9	CP-3	X	.004	.004	0	%100
10	SA-3B	X	.002	.002	0	%100
11	SA-2B	X	.003	.003	0	%100
12	SA-1B	X	.000856	.000856	0	%100
13	GSI-1	X	.002	.002	0	%100
14	GSI-2	X	.002	.002	0	%100
15	GSI-3	X	.000674	.000674	0	%100
16	GSI-4	X	.000674	.000674	0	%100
17	GSI-5	X	.003	.003	0	%100
18	GSI-6	X	.003	.003	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-2	X	.002	.002	0	%100
21	MP-3	X	.002	.002	0	%100
22	MP-4	X	.002	.002	0	%100
23	MP-9	X	.002	.002	0	%100
24	MP-10	X	.002	.002	0	%100
25	MP-11	X	.002	.002	0	%100
26	MP-12	X	.002	.002	0	%100
27	MP-5	X	.002	.002	0	%100
28	MP-6	X	.002	.002	0	%100
29	MP-7	X	.002	.002	0	%100
30	MP-8	X	.002	.002	0	%100
31	SFS-1	X	.003	.003	0	%100
32	SFS-2	X	.003	.003	0	%100
33	SFS-3	X	.003	.003	0	%100
34	SFS-4	X	.003	.003	0	%100
35	SFS-5	X	.003	.003	0	%100
36	SFS-6	X	.003	.003	0	%100
37	FFTH-1	Z	.002	.002	0	%100
38	FFTH-3	Z	.003	.003	0	%100

Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
39	FFTH-2	Z	.000693	.000693	0	%100
40	SA-1	Z	.000801	.000801	0	%100
41	SA-2	Z	.003	.003	0	%100
42	SA-3	Z	.002	.002	0	%100
43	CP-1	Z	.001	.001	0	%100
44	CP-2	Z	.005	.005	0	%100
45	CP-3	Z	.003	.003	0	%100
46	SA-3B	Z	.002	.002	0	%100
47	SA-2B	Z	.003	.003	0	%100
48	SA-1B	Z	.000783	.000783	0	%100
49	GSI-1	Z	.002	.002	0	%100
50	GSI-2	Z	.002	.002	0	%100
51	GSI-3	Z	.000617	.000617	0	%100
52	GSI-4	Z	.000617	.000617	0	%100
53	GSI-5	Z	.002	.002	0	%100
54	GSI-6	Z	.002	.002	0	%100
55	MP-1	Z	.002	.002	0	%100
56	MP-2	Z	.002	.002	0	%100
57	MP-3	Z	.002	.002	0	%100
58	MP-4	Z	.002	.002	0	%100
59	MP-9	Z	.002	.002	0	%100
60	MP-10	Z	.002	.002	0	%100
61	MP-11	Z	.002	.002	0	%100
62	MP-12	Z	.002	.002	0	%100
63	MP-5	Z	.002	.002	0	%100
64	MP-6	Z	.002	.002	0	%100
65	MP-7	Z	.002	.002	0	%100
66	MP-8	Z	.002	.002	0	%100
67	SFS-1	Z	.003	.003	0	%100
68	SFS-2	Z	.003	.003	0	%100
69	SFS-3	Z	.003	.003	0	%100
70	SFS-4	Z	.003	.003	0	%100
71	SFS-5	Z	.003	.003	0	%100
72	SFS-6	Z	.003	.003	0	%100

Member Distributed Loads (BLC 30 : 240 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	.001	.001	0	%100
2	FFTH-3	X	.002	.002	0	%100
3	FFTH-2	X	.000785	.000785	0	%100
4	SA-1	X	0	0	0	%100
5	SA-2	X	.002	.002	0	%100
6	SA-3	X	.002	.002	0	%100
7	CP-1	X	.002	.002	0	%100
8	CP-2	X	.004	.004	0	%100
9	CP-3	X	.002	.002	0	%100
10	SA-3B	X	.002	.002	0	%100
11	SA-2B	X	.002	.002	0	%100
12	SA-1B	X	0	0	0	%100
13	GSI-1	X	.001	.001	0	%100
14	GSI-2	X	.001	.001	0	%100
15	GSI-3	X	0	0	0	%100
16	GSI-4	X	0	0	0	%100
17	GSI-5	X	.002	.002	0	%100
18	GSI-6	X	.002	.002	0	%100
19	MP-1	X	.001	.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
20	MP-2	X	.001	.001	0	%100
21	MP-3	X	.001	.001	0	%100
22	MP-4	X	.001	.001	0	%100
23	MP-9	X	.001	.001	0	%100
24	MP-10	X	.001	.001	0	%100
25	MP-11	X	.001	.001	0	%100
26	MP-12	X	.001	.001	0	%100
27	MP-5	X	.001	.001	0	%100
28	MP-6	X	.001	.001	0	%100
29	MP-7	X	.001	.001	0	%100
30	MP-8	X	.001	.001	0	%100
31	SFS-1	X	.002	.002	0	%100
32	SFS-2	X	.002	.002	0	%100
33	SFS-3	X	.002	.002	0	%100
34	SFS-4	X	.002	.002	0	%100
35	SFS-5	X	.002	.002	0	%100
36	SFS-6	X	.002	.002	0	%100
37	FFTH-1	Z	.002	.002	0	%100
38	FFTH-3	Z	.003	.003	0	%100
39	FFTH-2	Z	.002	.002	0	%100
40	SA-1	Z	0	0	0	%100
41	SA-2	Z	.003	.003	0	%100
42	SA-3	Z	.004	.004	0	%100
43	CP-1	Z	.003	.003	0	%100
44	CP-2	Z	.006	.006	0	%100
45	CP-3	Z	.003	.003	0	%100
46	SA-3B	Z	.004	.004	0	%100
47	SA-2B	Z	.003	.003	0	%100
48	SA-1B	Z	0	0	0	%100
49	GSI-1	Z	.003	.003	0	%100
50	GSI-2	Z	.003	.003	0	%100
51	GSI-3	Z	0	0	0	%100
52	GSI-4	Z	0	0	0	%100
53	GSI-5	Z	.003	.003	0	%100
54	GSI-6	Z	.003	.003	0	%100
55	MP-1	Z	.002	.002	0	%100
56	MP-2	Z	.002	.002	0	%100
57	MP-3	Z	.002	.002	0	%100
58	MP-4	Z	.002	.002	0	%100
59	MP-9	Z	.002	.002	0	%100
60	MP-10	Z	.002	.002	0	%100
61	MP-11	Z	.002	.002	0	%100
62	MP-12	Z	.002	.002	0	%100
63	MP-5	Z	.002	.002	0	%100
64	MP-6	Z	.002	.002	0	%100
65	MP-7	Z	.002	.002	0	%100
66	MP-8	Z	.002	.002	0	%100
67	SFS-1	Z	.004	.004	0	%100
68	SFS-2	Z	.004	.004	0	%100
69	SFS-3	Z	.004	.004	0	%100
70	SFS-4	Z	.004	.004	0	%100
71	SFS-5	Z	.004	.004	0	%100
72	SFS-6	Z	.004	.004	0	%100

Member Distributed Loads (BLC 31 : 270 Wind - Ice)

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

Member Distributed Loads (BLC 31 : 270 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	Z	0	0	0	%100
2	FFTH-3	Z	.003	.003	0	%100
3	FFTH-2	Z	.003	.003	0	%100
4	SA-1	Z	.002	.002	0	%100
5	SA-2	Z	.002	.002	0	%100
6	SA-3	Z	.005	.005	0	%100
7	CP-1	Z	.006	.006	0	%100
8	CP-2	Z	.006	.006	0	%100
9	CP-3	Z	0	0	0	%100
10	SA-3B	Z	.005	.005	0	%100
11	SA-2B	Z	.002	.002	0	%100
12	SA-1B	Z	.002	.002	0	%100
13	GSI-1	Z	.004	.004	0	%100
14	GSI-2	Z	.004	.004	0	%100
15	GSI-3	Z	.002	.002	0	%100
16	GSI-4	Z	.002	.002	0	%100
17	GSI-5	Z	.002	.002	0	%100
18	GSI-6	Z	.002	.002	0	%100
19	MP-1	Z	.003	.003	0	%100
20	MP-2	Z	.003	.003	0	%100
21	MP-3	Z	.003	.003	0	%100
22	MP-4	Z	.003	.003	0	%100
23	MP-9	Z	.003	.003	0	%100
24	MP-10	Z	.003	.003	0	%100
25	MP-11	Z	.003	.003	0	%100
26	MP-12	Z	.003	.003	0	%100
27	MP-5	Z	.003	.003	0	%100
28	MP-6	Z	.003	.003	0	%100
29	MP-7	Z	.003	.003	0	%100
30	MP-8	Z	.003	.003	0	%100
31	SFS-1	Z	.005	.005	0	%100
32	SFS-2	Z	.005	.005	0	%100
33	SFS-3	Z	.005	.005	0	%100
34	SFS-4	Z	.005	.005	0	%100
35	SFS-5	Z	.005	.005	0	%100
36	SFS-6	Z	.005	.005	0	%100

Member Distributed Loads (BLC 32 : 300 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.001	-.001	0	%100
2	FFTH-3	X	-.000785	-.000785	0	%100
3	FFTH-2	X	-.002	-.002	0	%100
4	SA-1	X	-.002	-.002	0	%100
5	SA-2	X	0	0	0	%100
6	SA-3	X	-.002	-.002	0	%100
7	CP-1	X	-.004	-.004	0	%100
8	CP-2	X	-.002	-.002	0	%100
9	CP-3	X	-.002	-.002	0	%100
10	SA-3B	X	-.002	-.002	0	%100
11	SA-2B	X	0	0	0	%100
12	SA-1B	X	-.002	-.002	0	%100
13	GSI-1	X	-.001	-.001	0	%100
14	GSI-2	X	-.001	-.001	0	%100
15	GSI-3	X	-.002	-.002	0	%100
16	GSI-4	X	-.002	-.002	0	%100
17	GSI-5	X	0	0	0	%100

Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
18	GSI-6	X	0	0	0	%100
19	MP-1	X	-.001	-.001	0	%100
20	MP-2	X	-.001	-.001	0	%100
21	MP-3	X	-.001	-.001	0	%100
22	MP-4	X	-.001	-.001	0	%100
23	MP-9	X	-.001	-.001	0	%100
24	MP-10	X	-.001	-.001	0	%100
25	MP-11	X	-.001	-.001	0	%100
26	MP-12	X	-.001	-.001	0	%100
27	MP-5	X	-.001	-.001	0	%100
28	MP-6	X	-.001	-.001	0	%100
29	MP-7	X	-.001	-.001	0	%100
30	MP-8	X	-.001	-.001	0	%100
31	SFS-1	X	-.002	-.002	0	%100
32	SFS-2	X	-.002	-.002	0	%100
33	SFS-3	X	-.002	-.002	0	%100
34	SFS-4	X	-.002	-.002	0	%100
35	SFS-5	X	-.002	-.002	0	%100
36	SFS-6	X	-.002	-.002	0	%100
37	FFTH-1	Z	.002	.002	0	%100
38	FFTH-3	Z	.002	.002	0	%100
39	FFTH-2	Z	.003	.003	0	%100
40	SA-1	Z	.003	.003	0	%100
41	SA-2	Z	0	0	0	%100
42	SA-3	Z	.004	.004	0	%100
43	CP-1	Z	.006	.006	0	%100
44	CP-2	Z	.003	.003	0	%100
45	CP-3	Z	.003	.003	0	%100
46	SA-3B	Z	.004	.004	0	%100
47	SA-2B	Z	0	0	0	%100
48	SA-1B	Z	.003	.003	0	%100
49	GSI-1	Z	.003	.003	0	%100
50	GSI-2	Z	.003	.003	0	%100
51	GSI-3	Z	.003	.003	0	%100
52	GSI-4	Z	.003	.003	0	%100
53	GSI-5	Z	0	0	0	%100
54	GSI-6	Z	0	0	0	%100
55	MP-1	Z	.002	.002	0	%100
56	MP-2	Z	.002	.002	0	%100
57	MP-3	Z	.002	.002	0	%100
58	MP-4	Z	.002	.002	0	%100
59	MP-9	Z	.002	.002	0	%100
60	MP-10	Z	.002	.002	0	%100
61	MP-11	Z	.002	.002	0	%100
62	MP-12	Z	.002	.002	0	%100
63	MP-5	Z	.002	.002	0	%100
64	MP-6	Z	.002	.002	0	%100
65	MP-7	Z	.002	.002	0	%100
66	MP-8	Z	.002	.002	0	%100
67	SFS-1	Z	.004	.004	0	%100
68	SFS-2	Z	.004	.004	0	%100
69	SFS-3	Z	.004	.004	0	%100
70	SFS-4	Z	.004	.004	0	%100
71	SFS-5	Z	.004	.004	0	%100
72	SFS-6	Z	.004	.004	0	%100

Member Distributed Loads (BLC 33 : 315 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.002	-.002	0	%100
2	FFTH-3	X	-.000574	-.000574	0	%100
3	FFTH-2	X	-.002	-.002	0	%100
4	SA-1	X	-.003	-.003	0	%100
5	SA-2	X	-.000883	-.000883	0	%100
6	SA-3	X	-.002	-.002	0	%100
7	CP-1	X	-.005	-.005	0	%100
8	CP-2	X	-.001	-.001	0	%100
9	CP-3	X	-.004	-.004	0	%100
10	SA-3B	X	-.002	-.002	0	%100
11	SA-2B	X	-.000856	-.000856	0	%100
12	SA-1B	X	-.003	-.003	0	%100
13	GSI-1	X	-.002	-.002	0	%100
14	GSI-2	X	-.002	-.002	0	%100
15	GSI-3	X	-.003	-.003	0	%100
16	GSI-4	X	-.003	-.003	0	%100
17	GSI-5	X	-.000674	-.000674	0	%100
18	GSI-6	X	-.000674	-.000674	0	%100
19	MP-1	X	-.002	-.002	0	%100
20	MP-2	X	-.002	-.002	0	%100
21	MP-3	X	-.002	-.002	0	%100
22	MP-4	X	-.002	-.002	0	%100
23	MP-9	X	-.002	-.002	0	%100
24	MP-10	X	-.002	-.002	0	%100
25	MP-11	X	-.002	-.002	0	%100
26	MP-12	X	-.002	-.002	0	%100
27	MP-5	X	-.002	-.002	0	%100
28	MP-6	X	-.002	-.002	0	%100
29	MP-7	X	-.002	-.002	0	%100
30	MP-8	X	-.002	-.002	0	%100
31	SFS-1	X	-.003	-.003	0	%100
32	SFS-2	X	-.003	-.003	0	%100
33	SFS-3	X	-.003	-.003	0	%100
34	SFS-4	X	-.003	-.003	0	%100
35	SFS-5	X	-.003	-.003	0	%100
36	SFS-6	X	-.003	-.003	0	%100
37	FFTH-1	Z	.002	.002	0	%100
38	FFTH-3	Z	.000693	.000693	0	%100
39	FFTH-2	Z	.003	.003	0	%100
40	SA-1	Z	.003	.003	0	%100
41	SA-2	Z	.000801	.000801	0	%100
42	SA-3	Z	.002	.002	0	%100
43	CP-1	Z	.005	.005	0	%100
44	CP-2	Z	.001	.001	0	%100
45	CP-3	Z	.003	.003	0	%100
46	SA-3B	Z	.002	.002	0	%100
47	SA-2B	Z	.000783	.000783	0	%100
48	SA-1B	Z	.003	.003	0	%100
49	GSI-1	Z	.002	.002	0	%100
50	GSI-2	Z	.002	.002	0	%100
51	GSI-3	Z	.002	.002	0	%100
52	GSI-4	Z	.002	.002	0	%100
53	GSI-5	Z	.000617	.000617	0	%100
54	GSI-6	Z	.000617	.000617	0	%100
55	MP-1	Z	.002	.002	0	%100
56	MP-2	Z	.002	.002	0	%100
57	MP-3	Z	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

Aug 13, 2021
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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
58	MP-4	Z	.002	.002	0	%100
59	MP-9	Z	.002	.002	0	%100
60	MP-10	Z	.002	.002	0	%100
61	MP-11	Z	.002	.002	0	%100
62	MP-12	Z	.002	.002	0	%100
63	MP-5	Z	.002	.002	0	%100
64	MP-6	Z	.002	.002	0	%100
65	MP-7	Z	.002	.002	0	%100
66	MP-8	Z	.002	.002	0	%100
67	SFS-1	Z	.003	.003	0	%100
68	SFS-2	Z	.003	.003	0	%100
69	SFS-3	Z	.003	.003	0	%100
70	SFS-4	Z	.003	.003	0	%100
71	SFS-5	Z	.003	.003	0	%100
72	SFS-6	Z	.003	.003	0	%100

Member Distributed Loads (BLC 34 : 330 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-1	X	-.003	-.003	0	%100
2	FFTH-3	X	0	0	0	%100
3	FFTH-2	X	-.002	-.002	0	%100
4	SA-1	X	-.004	-.004	0	%100
5	SA-2	X	-.002	-.002	0	%100
6	SA-3	X	-.002	-.002	0	%100
7	CP-1	X	-.005	-.005	0	%100
8	CP-2	X	0	0	0	%100
9	CP-3	X	-.005	-.005	0	%100
10	SA-3B	X	-.002	-.002	0	%100
11	SA-2B	X	-.002	-.002	0	%100
12	SA-1B	X	-.004	-.004	0	%100
13	GSI-1	X	-.001	-.001	0	%100
14	GSI-2	X	-.001	-.001	0	%100
15	GSI-3	X	-.003	-.003	0	%100
16	GSI-4	X	-.003	-.003	0	%100
17	GSI-5	X	-.002	-.002	0	%100
18	GSI-6	X	-.002	-.002	0	%100
19	MP-1	X	-.002	-.002	0	%100
20	MP-2	X	-.002	-.002	0	%100
21	MP-3	X	-.002	-.002	0	%100
22	MP-4	X	-.002	-.002	0	%100
23	MP-9	X	-.002	-.002	0	%100
24	MP-10	X	-.002	-.002	0	%100
25	MP-11	X	-.002	-.002	0	%100
26	MP-12	X	-.002	-.002	0	%100
27	MP-5	X	-.002	-.002	0	%100
28	MP-6	X	-.002	-.002	0	%100
29	MP-7	X	-.002	-.002	0	%100
30	MP-8	X	-.002	-.002	0	%100
31	SFS-1	X	-.004	-.004	0	%100
32	SFS-2	X	-.004	-.004	0	%100
33	SFS-3	X	-.004	-.004	0	%100
34	SFS-4	X	-.004	-.004	0	%100
35	SFS-5	X	-.004	-.004	0	%100
36	SFS-6	X	-.004	-.004	0	%100
37	FFTH-1	Z	.002	.002	0	%100
38	FFTH-3	Z	0	0	0	%100

Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
39	FFTH-2	Z	.002	.002	0	%100
40	SA-1	Z	.002	.002	0	%100
41	SA-2	Z	.001	.001	0	%100
42	SA-3	Z	.001	.001	0	%100
43	CP-1	Z	.003	.003	0	%100
44	CP-2	Z	0	0	0	%100
45	CP-3	Z	.003	.003	0	%100
46	SA-3B	Z	.001	.001	0	%100
47	SA-2B	Z	.001	.001	0	%100
48	SA-1B	Z	.002	.002	0	%100
49	GSI-1	Z	.000942	.000942	0	%100
50	GSI-2	Z	.000942	.000942	0	%100
51	GSI-3	Z	.002	.002	0	%100
52	GSI-4	Z	.002	.002	0	%100
53	GSI-5	Z	.000842	.000842	0	%100
54	GSI-6	Z	.000842	.000842	0	%100
55	MP-1	Z	.001	.001	0	%100
56	MP-2	Z	.001	.001	0	%100
57	MP-3	Z	.001	.001	0	%100
58	MP-4	Z	.001	.001	0	%100
59	MP-9	Z	.001	.001	0	%100
60	MP-10	Z	.001	.001	0	%100
61	MP-11	Z	.001	.001	0	%100
62	MP-12	Z	.001	.001	0	%100
63	MP-5	Z	.001	.001	0	%100
64	MP-6	Z	.001	.001	0	%100
65	MP-7	Z	.001	.001	0	%100
66	MP-8	Z	.001	.001	0	%100
67	SFS-1	Z	.002	.002	0	%100
68	SFS-2	Z	.002	.002	0	%100
69	SFS-3	Z	.002	.002	0	%100
70	SFS-4	Z	.002	.002	0	%100
71	SFS-5	Z	.002	.002	0	%100
72	SFS-6	Z	.002	.002	0	%100

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-3	Y	-.024	-.024	5.523	7.977
2	GSI-3	Y	-.015	-.015	.917	2.917
3	GSI-4	Y	-.015	-.015	.141	2.141
4	FFTH-1	Y	-.011	-.011	2.206	3.206
5	FFTH-3	Y	-.011	-.011	2.206	3.206
6	GSI-1	Y	-.011	-.011	1.39	2.39
7	GSI-4	Y	-.011	-.011	.669	1.669
8	SA-2	Y	-.021	-.021	1	3.116
9	CP-1	Y	-.003	-.003	0	1
10	FFTH-1	Y	-.003	-.005	0	1.35
11	FFTH-1	Y	-.005	-.007	1.35	2.7
12	FFTH-3	Y	-.003	-.005	0	1.35
13	FFTH-3	Y	-.005	-.007	1.35	2.7
14	SA-2	Y	-.014	-.01	2.625	3.937
15	SA-2	Y	-.01	-.006	3.937	5.25
16	FFTH-1	Y	-.024	-.024	5.523	7.977
17	GSI-1	Y	-.015	-.015	.917	2.917
18	GSI-2	Y	-.015	-.015	.141	2.141
19	FFTH-1	Y	-.011	-.011	10.294	11.294

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

Aug 13, 2021
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Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
20	FFTH-2	Y	-.011	-.011	10.294	11.294
21	GSI-2	Y	-.011	-.011	.669	1.669
22	GSI-5	Y	-.011	-.011	1.39	2.39
23	SA-1	Y	-.021	-.021	1	3.116
24	CP-2	Y	-.003	-.003	0	1
25	FFTH-1	Y	-.007	-.005	10.8	12.15
26	FFTH-1	Y	-.005	-.003	12.15	13.5
27	FFTH-2	Y	-.007	-.005	10.8	12.15
28	FFTH-2	Y	-.005	-.003	12.15	13.5
29	SA-1	Y	-.014	-.01	2.625	3.937
30	SA-1	Y	-.01	-.006	3.937	5.25
31	FFTH-2	Y	-.024	-.024	5.523	7.977
32	GSI-5	Y	-.015	-.015	.917	2.917
33	GSI-6	Y	-.015	-.015	.141	2.141
34	CP-3	Y	-.003	-.003	0	1
35	FFTH-2	Y	-.003	-.005	0	1.35
36	FFTH-2	Y	-.005	-.007	1.35	2.7
37	FFTH-3	Y	-.007	-.005	10.8	12.15
38	FFTH-3	Y	-.005	-.003	12.15	13.5
39	SA-3	Y	-.014	-.01	2.625	3.937
40	SA-3	Y	-.01	-.006	3.937	5.25
41	FFTH-2	Y	-.011	-.011	2.206	3.206
42	FFTH-3	Y	-.011	-.011	10.294	11.294
43	GSI-3	Y	-.011	-.011	1.39	2.39
44	GSI-6	Y	-.011	-.011	.669	1.669
45	SA-3	Y	-.021	-.021	1	3.116

Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FFTH-3	Y	-.016	-.016	5.523	7.977
2	GSI-3	Y	-.01	-.01	.917	2.917
3	GSI-4	Y	-.01	-.01	.141	2.141
4	FFTH-1	Y	-.007	-.007	2.206	3.206
5	FFTH-3	Y	-.007	-.007	2.206	3.206
6	GSI-1	Y	-.007	-.007	1.39	2.39
7	GSI-4	Y	-.007	-.007	.669	1.669
8	SA-2	Y	-.014	-.014	1	3.116
9	CP-1	Y	-.002	-.002	0	1
10	FFTH-1	Y	-.002	-.003	0	1.35
11	FFTH-1	Y	-.003	-.005	1.35	2.7
12	FFTH-3	Y	-.002	-.003	0	1.35
13	FFTH-3	Y	-.003	-.005	1.35	2.7
14	SA-2	Y	-.009	-.007	2.625	3.937
15	SA-2	Y	-.007	-.004	3.937	5.25
16	FFTH-1	Y	-.016	-.016	5.523	7.977
17	GSI-1	Y	-.01	-.01	.917	2.917
18	GSI-2	Y	-.01	-.01	.141	2.141
19	FFTH-1	Y	-.007	-.007	10.294	11.294
20	FFTH-2	Y	-.007	-.007	10.294	11.294
21	GSI-2	Y	-.007	-.007	.669	1.669
22	GSI-5	Y	-.007	-.007	1.39	2.39
23	SA-1	Y	-.014	-.014	1	3.116
24	CP-2	Y	-.002	-.002	0	1
25	FFTH-1	Y	-.005	-.003	10.8	12.15
26	FFTH-1	Y	-.003	-.002	12.15	13.5
27	FFTH-2	Y	-.005	-.003	10.8	12.15

Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
28	FFTH-2	Y	-.003	-.002	12.15	13.5
29	SA-1	Y	-.009	-.007	2.625	3.937
30	SA-1	Y	-.007	-.004	3.937	5.25
31	FFTH-2	Y	-.016	-.016	5.523	7.977
32	GSI-5	Y	-.01	-.01	.917	2.917
33	GSI-6	Y	-.01	-.01	.141	2.141
34	CP-3	Y	-.002	-.002	0	1
35	FFTH-2	Y	-.002	-.003	0	1.35
36	FFTH-2	Y	-.003	-.005	1.35	2.7
37	FFTH-3	Y	-.005	-.003	10.8	12.15
38	FFTH-3	Y	-.003	-.002	12.15	13.5
39	SA-3	Y	-.009	-.007	2.625	3.937
40	SA-3	Y	-.007	-.004	3.937	5.25
41	FFTH-2	Y	-.007	-.007	2.206	3.206
42	FFTH-3	Y	-.007	-.007	10.294	11.294
43	GSI-3	Y	-.007	-.007	1.39	2.39
44	GSI-6	Y	-.007	-.007	.669	1.669
45	SA-3	Y	-.014	-.014	1	3.116

Member Area Loads (BLC 1 : Dead)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N46A	N52	N51	N45A	Y	Two Way	-.012
2	N60A	N63	N62A	N61A	Y	Two Way	-.012
3	N61A	N8	N7	N62A	Y	Two Way	-.012
4	N50	N44A	N43	N49	Y	Two Way	-.012
5	N56	N61	N60	N59	Y	Two Way	-.012
6	N59	N10	N12	N60	Y	Two Way	-.012
7	N54	N53	N47A	N48	Y	Two Way	-.012
8	N9	N11	N67	N66	Y	Two Way	-.012
9	N66	N65	N68	N67	Y	Two Way	-.012

Member Area Loads (BLC 18 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N46A	N52	N51	N45A	Y	Two Way	-.008
2	N60A	N63	N62A	N61A	Y	Two Way	-.008
3	N61A	N8	N7	N62A	Y	Two Way	-.008
4	N50	N44A	N43	N49	Y	Two Way	-.008
5	N56	N61	N60	N59	Y	Two Way	-.008
6	N59	N10	N12	N60	Y	Two Way	-.008
7	N54	N53	N47A	N48	Y	Two Way	-.008
8	N9	N11	N67	N66	Y	Two Way	-.008
9	N66	N65	N68	N67	Y	Two Way	-.008

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	SA3	max	1.846	2	.576	42	.627	6	0	98	.869	6	-.135	10
2		min	-3.586	26	.152	2	-.659	30	0	1	-.925	30	-2.405	34
3	SA2	max	1.83	33	.572	47	1.665	7	2.132	39	1.069	11	1.231	39
4		min	-1.022	9	.156	7	-3.089	31	.085	15	-1.071	3	.049	15
5	SA1	max	1.9	19	.566	34	3.066	21	-.09	5	1.186	17	1.218	45
6		min	-1.067	11	.122	10	-1.646	13	-2.11	45	-1.216	25	.052	5
7	K2	max	-.153	10	2.744	47	1.767	47	0	23	0	11	0	24
8		min	-1.01	34	.391	7	.318	7	0	15	0	19	0	16

Company : Tower Engineering Professionals, Inc.
Designer : SCW
Job Number : TEP No. 25661.584643
Model Name : Plymouth/RT 6 (BU 826768)

Aug 13, 2021
8:02 AM
Checked By: PHX

Envelope Joint Reactions (Continued)

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
9	K3	max	-.022	59	2.542	37	-.291	13	0	5	0	17	0	27
10		min	-.823	34	.356	13	-1.697	36	0	29	0	25	0	3
11	K1	max	2.052	42	2.77	42	.076	14	0	6	0	6	0	10
12		min	.319	2	.324	2	-.58	55	0	30	0	30	0	18
13	Totals:	max	4.623	18	9.458	42	4.572	6						
14		min	-4.623	10	2.596	83	-4.572	30						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn ...	phi*Mn ...	Cb	Eqn
1	GSI-2	L2.5x1.5x4	.600	3.058	25	.040	0	z	25	15.421	30.683	.461	1.597	1...	H2-1
2	SA-1B	HSS3X3X5	.379	0	48	.090	2	y	45	59.456	92.61	7.613	7.613	1...	H1-1b
3	SA-2B	HSS3X3X5	.377	0	43	.090	2	y	39	59.456	92.61	7.613	7.613	1...	H1-1b
4	FFTH-2	PIPE_3.0	.368	9.422	45	.147	13.5		30	55.457	65.205	5.749	5.749	1...	H1-1b
5	FFTH-1	PIPE_3.0	.365	4.078	39	.147	13.5		27	55.457	65.205	5.749	5.749	1...	H1-1b
6	CP-3	PL 6x5/8	.362	.5	43	.495	0	y	31	119.83	121.5	1.582	15.188	1...	H1-1b
7	SA-3B	HSS3X3X5	.357	0	46	.087	2	y	34	59.456	92.61	7.613	7.613	1...	H1-1b
8	FFTH-3	PIPE_3.0	.351	9.422	34	.129	0		22	55.457	65.205	5.749	5.749	1...	H1-1b
9	CP-2	PL 6x5/8	.351	.5	38	.525	1	y	32	119.83	121.5	1.582	15.188	1...	H1-1b
10	CP-1	PL 6x5/8	.343	.5	49	.521	1	y	26	119.83	121.5	1.582	15.188	1...	H1-1b
11	MP-5	PIPE_2.0	.340	3.719	27	.022	3.719		27	15.275	32.13	1.872	1.872	1...	H1-1b
12	MP-1	PIPE_2.0	.340	3.719	22	.022	3.719		22	15.275	32.13	1.872	1.872	1...	H1-1b
13	MP-9	PIPE_2.0	.340	3.719	33	.022	3.719		33	15.275	32.13	1.872	1.872	1...	H1-1b
14	MP-4	PIPE_2.0	.332	3.719	30	.022	3.719		30	15.275	32.13	1.872	1.872	1...	H1-1b
15	MP-12	PIPE_2.0	.332	3.719	25	.022	3.719		25	15.275	32.13	1.872	1.872	1...	H1-1b
16	MP-8	PIPE_2.0	.332	3.719	19	.022	3.719		19	15.275	32.13	1.872	1.872	1...	H1-1b
17	SFS-3	L2.5x2.5x3	.275	3.062	46	.011	0	z	24	9.122	29.192	.873	1.531	1...	H2-1
18	SFS-6	L2.5x2.5x3	.274	3.062	38	.011	6	y	27	9.122	29.192	.873	1.531	1...	H2-1
19	SFS-2	L2.5x2.5x3	.274	3.062	43	.012	0	y	33	9.122	29.192	.873	1.531	1...	H2-1
20	SFS-1	L2.5x2.5x3	.272	3.062	41	.012	0	z	19	9.122	29.192	.873	1.531	1...	H2-1
21	MP-7	PIPE_2.0	.271	3.719	31	.018	3.719		31	15.275	32.13	1.872	1.872	1...	H1-1b
22	MP-3	PIPE_2.0	.271	3.719	26	.018	3.719		26	15.275	32.13	1.872	1.872	1...	H1-1b
23	MP-11	PIPE_2.0	.271	3.719	21	.018	3.719		21	15.275	32.13	1.872	1.872	1...	H1-1b
24	SFS-4	L2.5x2.5x3	.270	3.062	48	.011	6	y	22	9.122	29.192	.873	1.531	1...	H2-1
25	SA-1	HSS3X3X5	.257	1.422	40	.085	.875	y	45	43.163	92.61	7.613	7.613	1...	H1-1b
26	SA-3	HSS3X3X5	.247	1.422	45	.078	.875	y	48	43.163	92.61	7.613	7.613	1...	H1-1b
27	MP-2	PIPE_2.0	.244	3.719	26	.028	3.719		26	15.275	32.13	1.872	1.872	2...	H1-1b
28	MP-6	PIPE_2.0	.244	3.719	31	.028	3.719		31	15.275	32.13	1.872	1.872	2...	H1-1b
29	SA-2	HSS3X3X5	.241	1.422	34	.085	.875	y	26	43.163	92.61	7.613	7.613	1...	H1-1b
30	SFS-5	L2.5x2.5x3	.239	3.062	36	.011	6	z	30	9.122	29.192	.873	1.531	1...	H2-1
31	GSI-5	L2.5x1.5x4	.143	1.688	47	.030	3.058	z	33	15.421	30.683	.461	1.575	1...	H2-1
32	GSI-1	L2.5x1.5x4	.142	1.688	42	.034	3.058	z	27	15.421	30.683	.461	1.575	1...	H2-1
33	GSI-4	L2.5x1.5x4	.141	1.37	37	.033	0	z	19	15.421	30.683	.461	1.575	1...	H2-1
34	GSI-6	L2.5x1.5x4	.140	1.37	48	.033	0	z	30	15.421	30.683	.461	1.575	1...	H2-1
35	GSI-3	L2.5x1.5x4	.137	1.688	36	.032	3.058	z	22	15.421	30.683	.461	1.575	1...	H2-1
36	MP-10	PIPE_2.0	.094	3.719	21	.011	3.719		21	15.275	32.13	1.872	1.872	1...	H1-1b

APPENDIX D

ADDITIONAL CALCULATIONS

TOWER ENGINEERING PROFESSIONALS

Plymouth/RT 6 (BU 826768)

TEP No.	25661.584643	
Analysis By:	SCW	8/13/2021
Checked By:	PHX	8/13/2021

Moment Bolt Group - Support Arm

Code Revisions:	ANSI/TIA-222-H
Bolt Type:	Headed Bolts

Connection Inputs:

Bolt Size:	0.625	in
# Bolts:	4	
Plate Width:	6.0	in
Plate Height:	6.0	in
Bolt H Gap:	4.0	in
Bolt V Gap:	4.0	in
Plate T:	0.75	in
Slip Member Ø:	N/A	in
Bolt Grade:	A325N	

Capacities:

Bolt Capacity=	19.2%	PASS*
Plate Capacity=	12.9%	PASS*

***Value Adjusted per TIA-H Section 15.5**

Bolt Properties:

Fy_{bolt}:	92.0	ksi
Fu_{bolt}:	120.0	ksi
r:	2.8	in
J:	32.0	in^4/in^2
A_{bolt}:	0.3	in^2
$A_{bolt,\ Net\ Tensile}$:	0.2	in^2
Pretension:	19.0	kips

Member Properties:

Member Shape:	Flat	
Plate Fy:	36.0	ksi
Plate Fu:	58.0	ksi
Member Height:	3.0	in
Member Width:	3.0	in

TOWER ENGINEERING PROFESSIONALS

Plymouth/RT 6 (BU 826768)

TEP No.	25661.584643	
Analysis By:	SCW	8/13/2021
Checked By:	PHX	8/13/2021

Moment Bolt Group - Support Connections

Code Revisions:	ANSI/TIA-222-H
Bolt Type:	Threaded Rods

Connection Inputs:

Bolt Size:	0.5	in
# Bolts:	2	
Plate Width:	N/A	in
Plate Height:	N/A	in
Bolt H Gap:	4.0	in
Bolt V Gap:	0	in
Plate T:	N/A	in
Slip Member Ø:	N/A	in
Bolt Grade:	A36	

Capacities:

Bolt Capacity= 54.9% PASS*

***Value Adjusted per TIA-H Section 15.5**

Bolt Properties:

Fy_{bolt}:	36.0	ksi
Fu_{bolt}:	58.0	ksi
r:	2.0	in
J:	8.0	in^4/in^2
A_{bolt}:	0.2	in^2
$A_{bolt,\ Net\ Tensile}$:	0.1	in^2
Pretension:	5.8	kips

APPENDIX E

MOUNT MODIFICATION DESIGN DRAWINGS (MDD)

MOUNT DESIGN DRAWINGS

SITE NAME:

PLYMOUTH/RT 6

CROWN CASTLE BU NUMBER:

826768

SITE ADDRESS:

171 TOWN HILL ROAD
PLYMOUTH, CT 06786
(LITCHFIELD COUNTY)
N 41°40'06.20", W 73°01'11.84"

MODIFICATION PROVISIONS

THE MODIFICATIONS DEPICTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE MOUNT MODIFICATION ANALYSIS REPORT COMPLETED BY TEP, JOB NO.: 25661.584643 DATED AUGUST 13, 2021 (REV 0).

ATTENTION ALL CONTRACTORS, ANYTIME YOU ACCESS A CROWN SITE FOR ANY REASON YOU ARE TO CALL THE CROWN NOC UPON ARRIVAL AND DEPARTURE, DAILY AT 800-788-7011.

QUALIFIED ENGINEERING SERVICES ARE AVAILABLE FROM TEP TO ASSIST CONTRACTORS IN CLASS IV RIGGING PLAN REVIEWS. FOR REQUESTED QUALIFIED ENGINEERING SERVICES, CONTACT TEP FOR QUOTE AT RIGGING@TEPGROUP.NET

SAFETY CLIMB: 'LOOK UP'

LOOK UP!

THE INTEGRITY OF THE WIRE ROPE SAFETY CLIMB SYSTEM SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. MOUNT REINFORCEMENTS AND EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF ANY WIRE ROPE SAFETY CLIMB 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, OR IMPACT TO THE ANCHORAGE POINTS IN ANY WAY. ANY COMPROMISED SAFETY CLIMB MUST BE REPORTED TO YOUR CROWN POC FOR RESOLUTION, INCLUDING EXISTING CONDITIONS.

INDEX OF SHEETS

PROJECT INFORMATION

TOWER HEIGHT:	169.0-FT
MOUNT ELEVATION:	142.0-FT
MOUNT WIDTH/TYPE:	13.5-FT/PLATFORM
JDE JOB NO.:	669335
ORDER NO.:	570318 REV. 0
DESIGN BUILDING CODE:	2018 CONNECTICUT STATE BUILDING CODE
DESIGN STANDARD:	TIA-222-H

PROJECT TEAM

CCI MODIFICATION PROJECT MANAGER:

NAME	CROWN CASTLE
CONTACT	DARCY TARR
PHONE	(704) 405-6589
EMAIL	DARCY.TARR@CROWNCASTLE.COM

ENGINEERING FIRM PROJECT MANAGER:

NAME	TOWER ENGINEERING PROFESSIONALS, INC.
CONTACT	RYAN W. TSCHETTER, P.E.
PHONE	(480) 750-9063
EMAIL	RWTSCHETTER@TEPGROUP.NET

PLANS PREPARED FOR:

CROWN CASTLE

6325 ARDREY KELL ROAD, SUITE 600
CHARLOTTE, NC 28277

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

STATE OF CONNECTICUT
AARON THOMAS RUCKER
32608
LICENSED
PROFESSIONAL ENGINEER

Electronic Copy

August 13, 2021

REV	DATE	ISSUED FOR:
0	08-13-21	MODIFICATION DRAWINGS

DRAWN BY: SCW | CHECKED BY: PHX

SHEET TITLE:

TITLE SHEET

SHEET NUMBER: **T-1**

REVISION: **0**

TEP#: 25661.584643

GENERAL NOTES:

1. THE CONTRACT DOCUMENTS ARE THE PROPERTY OF CROWN CASTLE (CROWN). THEY ARE PROVIDED TO THE GC AND ITS LOWER TIER CONTRACTORS AND MATERIAL SUPPLIERS FOR THE LIMITED PURPOSE OF USE IN COMPLETING THE WORK FOR THIS SITE, AND SHALL BE KEPT IN STRICT CONFIDENCE AND NOT DISCLOSED TO ANY THIRD PARTIES. THE CONTRACT DOCUMENTS SHALL NOT BE USED FOR ANY OTHER PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF CROWN.
2. DETAIL DRAWINGS, INCLUDING NOTES AND TABLES, SHALL GOVERN OVER GENERAL NOTES AND TYPICAL DETAILS. CONTACT THE CROWN POINT OF CONTACT (POC) AND ENGINEER OF RECORD (EOR) FOR CLARIFICATION AS NEEDED.
3. DO NOT SCALE DRAWINGS.
4. ANY WORK PERFORMED WITHOUT A PREFABRICATION MAPPING IS DONE AT THE RISK OF THE GC AND/OR FABRICATOR. ALL DIMENSIONS OF EXISTING STRUCTURAL ELEMENTS ARE ASSUMED BASED ON THE AVAILABLE DOCUMENTATION AND ARE PRELIMINARY UNTIL FIELD-VERIFIED BY THE GC, UNLESS NOTED OTHERWISE (UNO). WHERE DISCREPANCIES ARE FOUND, GC SHALL CONTACT THE CROWN POC AND EOR THROUGH RFI.
5. FOR THIS ANALYSIS AND MODIFICATION, THE MOUNT HAS BEEN ASSUMED TO BE IN GOOD CONDITION WITHOUT ANY STRUCTURAL DEFECTS, UNO. IF THE GC DISCOVERS ANY INDICATION OF AN EXISTING STRUCTURAL DEFECT, CONTACT THE CROWN POC AND EOR IMMEDIATELY.
6. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS, SHALL BE THE RESPONSIBILITY OF THE GC 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 STANDARD CED-STD-10253, "RIGGING PROGRAM", INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA-322 (LATEST EDITION).
7. THE STRUCTURAL INTEGRITY OF THE MODIFICATION DESIGN EXTENDS TO THE COMPLETE CONDITION ONLY. THE GC MUST BE COGNIZANT THAT THE REMOVAL OF ANY STRUCTURAL COMPONENT OF AN EXISTING TOWER HAS THE POTENTIAL TO CAUSE THE PARTIAL OR COMPLETE COLLAPSE OF THE STRUCTURE. ALL NECESSARY PRECAUTIONS MUST BE TAKEN TO ENSURE STRUCTURAL INTEGRITY, INCLUDING, BUT NOT LIMITED TO, ENGINEERING ASSESSMENT OF CONSTRUCTION STRESSES WITH INSTALLATION MAXIMUM WIND SPEED AND/OR TEMPORARY BRACING AND SHORING.
8. AERIAL AND UNDERGROUND UTILITIES AND FACILITIES MAY OR MAY NOT BE SHOWN ON THE DRAWINGS. THE GC SHALL TAKE EVERY PRECAUTION TO PRESERVE AND PROTECT THESE ITEMS, WHICH MAY INCLUDE AERIAL OR UNDERGROUND POWER LINES, TELEPHONE LINES, WATER LINES, SEWER LINES, CABLE TELEVISION FACILITIES, PIPELINES, STRUCTURES AND OTHER PUBLIC AND PRIVATE IMPROVEMENTS WITHIN OR ADJACENT TO THE WORK AREA. THE RESPONSIBILITY FOR DETERMINING THE ACTUAL ON-SITE LOCATION OF THESE ITEMS SHALL REST EXCLUSIVELY WITH THE GC.
9. ALL MANUFACTURER'S HARDWARE ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED, UNO. CONFLICTING NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR AND THE CROWN POC.
10. THE GC SHALL FABRICATE ALL REQUIRED ITEMS PER THE MATERIALS SPECIFIED BELOW, UNO ON THE DETAIL DRAWING SHEETS. IF THE GC FINDS FOR ANY COMPONENT THAT THE MATERIALS HAVE NOT BEEN CLEARLY SPECIFIED, THE GC SHALL SUBMIT AN RFI TO THE EOR TO CONFIRM THE REQUIRED MATERIAL.
11. CONTRACTOR PERSONNEL SHALL NOT DRILL HOLES IN ANY NEW OR EXISTING STRUCTURAL MEMBERS, OTHER THAN THOSE DRILLES HOLES SHOWN ON STRUCTURAL DRAWINGS, WITHOUT THE APPROVAL OF THE EOR.
12. FOR A LIST OF CROWN-APPROVED COLD GALVANIZING COMPOUNDS, REFER TO THE ENG-STD-10149, "TOWER PROTECTIVE COATINGS GUIDELINES".
13. ALL EXPOSES STRUCTURAL STEEL AS THE RESULT OF THIS SCOPE OF WORK INCLUDING BUT NOT LIMITED TO: FIELD DRILLED HOLES, AND SHAFT INTERIORS (WERE ACCESSIBLE), SHALL BE CLEANED AND TWO (2) COATS COLD GALVANIZING SHALL BE APPLIED BY BRUSH IN ACCORDANCE WITH ENG-STD-10149, "TOWER PROTECTIVE COATINGS GUIDELINES".
14. ALL TOWER GROUNDING AFFECTED BY THE WORK SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH OPS-STD-10090, "TOWER GROUNDING", AND OPS-BUL-10133, "GROUNDING REPAIR RECOMMENDATION".
15. ANY HARDWARE REMOVED FROM THE EXISTING TOWER SHALL BE REPLACED WITH NEW HARDWARE OF EQUAL SIZE AND QUALITY, UNO. NO EXISTING FASTENERS SHALL BE REUSED.
16. ALL JOINTS USING ASTM A325 OR A490 BOLTS, U-BOLTS, V-BOLTS, AND THREADED RODS SHALL BE SNUG TIGHTENED, UNO.
17. A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED SNUG TIGHTENED ASTM A325 OR A490 BOLTS, U-BOLTS, V-BOLTS, AND THREADED RODS.
18. ALL JOINTS ARE BEARING TYPE CONNECTIONS UNO. IF NO BOLT LENGTH IS GIVEN IN THE BILL OF MATERIALS, THE CONNECTION MAY INCLUDE THREADS IN THE SHEAR PLANES, AND THE GC IS RESPONSIBLE FOR SIZING THE LENGTH OF THE BOLT.
19. IF ASTM A325 OR A490 BOLTS, AND/OR THREADED RODS ARE SPECIFIED TO BE PRE-TENSIONED, THESE SHALL BE INSTALLED AND TIGHTENED TO THE PRE-TENSIONED CONDITION ACCORDING TO THE REQUIREMENTS OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM HIGH STRENGTH BOLTS.
20. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

PLANS PREPARED FOR:

CROWN CASTLE

6325 ARDREY KELL ROAD, SUITE 600
CHARLOTTE, NC 28277

PROJECT INFORMATION:

PLYMOUTH/RT 6
BU #: 826768
CARRIER: VERIZON
171 TOWN HILL ROAD
PLYMOUTH, CT 06786
(LITCHFIELD COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

Electronic Copy

August 13, 2021

REV	DATE	ISSUED FOR:
0	08-13-21	MODIFICATION DRAWINGS

DRAWN BY: SCW | CHECKED BY: PHX

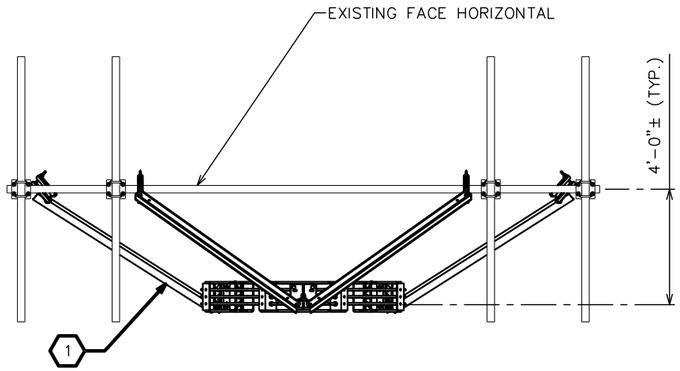
SHEET TITLE:

PROJECT NOTES

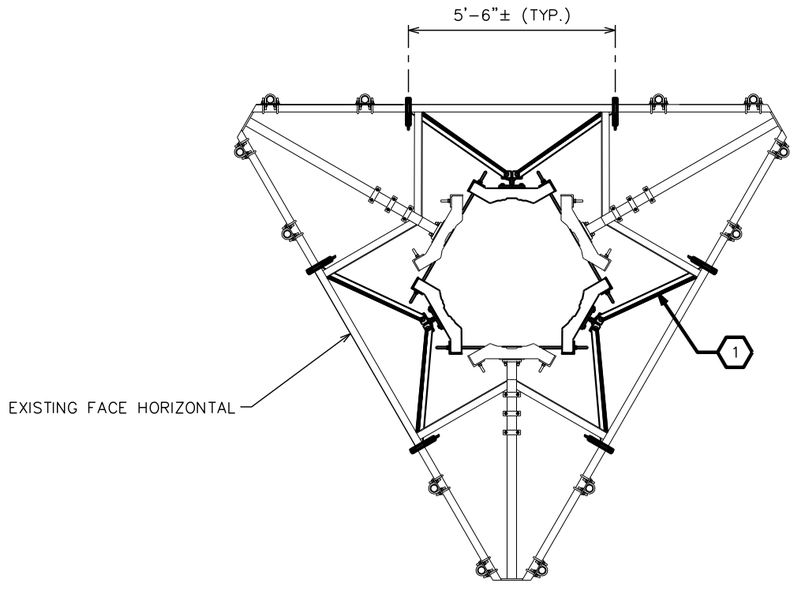
SHEET NUMBER: **N-1**

REVISION: **0**

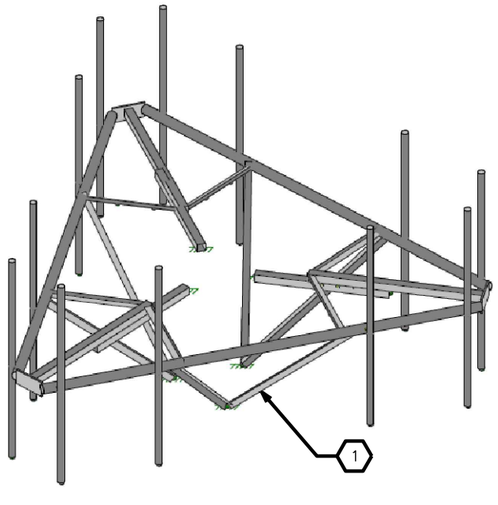
TEP#: 25661.584643



ELEVATION VIEW



PLAN VIEW



ISOMETRIC VIEW

MODIFICATION SCHEDULE

NO.	MODIFICATION DESCRIPTION	ELEVATION (FT.)	SHEET
1	ADD SITE PRO 1 PRK-SFS-L REINFORCEMENT KIT.	142	S-1

NOTES:

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2. PROPER FIT-UP OF THE PROPOSED MODIFICATIONS MAY REQUIRE FIELD CUTTING/TRIMMING. CONTACT EOR FOR APPROVAL UNO.

BILL OF MATERIALS

MANUFACTURER	PART NUMBER	QUANTITY	NOTES
SITE PRO 1	PRK-SFS-L	1	1,2

NOTES:

1. CONTRACTOR MAY SUBSTITUTE EQUIVALENT PARTS WITH EOR APPROVAL.
2. UNO, CONNECTION HARDWARE IS INCLUDED WITH REINFORCEMENT KITS.

PLANS PREPARED FOR:

CROWN CASTLE

6325 ARDREY KELL ROAD, SUITE 600
CHARLOTTE, NC 28277

PROJECT INFORMATION:

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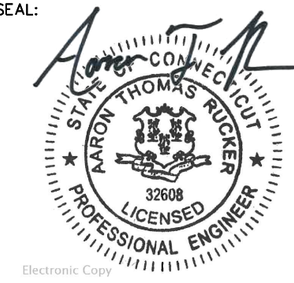

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DRAWN BY: SCW | CHECKED BY: PHX

SHEET TITLE:

MOUNT MODIFICATION SCHEDULE

SHEET NUMBER: **S-1**

REVISION: **0**

TEP#: 25661.584643

MOUNT DESIGN DRAWINGS

SITE NAME:

PLYMOUTH/RT 6

CROWN CASTLE BU NUMBER:

826768

SITE ADDRESS:

171 TOWN HILL ROAD
PLYMOUTH, CT 06786
(LITCHFIELD COUNTY)
N 41°40'06.20", W 73°01'11.84"

MODIFICATION PROVISIONS

THE MODIFICATIONS DEPICTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE MOUNT MODIFICATION ANALYSIS REPORT COMPLETED BY TEP, JOB NO.: 25661.584643 DATED AUGUST 13, 2021 (REV 0).

ATTENTION ALL CONTRACTORS, ANYTIME YOU ACCESS A CROWN SITE FOR ANY REASON YOU ARE TO CALL THE CROWN NOC UPON ARRIVAL AND DEPARTURE, DAILY AT 800-788-7011.

QUALIFIED ENGINEERING SERVICES ARE AVAILABLE FROM TEP TO ASSIST CONTRACTORS IN CLASS IV RIGGING PLAN REVIEWS. FOR REQUESTED QUALIFIED ENGINEERING SERVICES, CONTACT TEP FOR QUOTE AT RIGGING@TEPGROUP.NET

SAFETY CLIMB: 'LOOK UP'

LOOK UP!

THE INTEGRITY OF THE WIRE ROPE SAFETY CLIMB SYSTEM SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. MOUNT REINFORCEMENTS AND EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF ANY WIRE ROPE SAFETY CLIMB 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, OR IMPACT TO THE ANCHORAGE POINTS IN ANY WAY. ANY COMPROMISED SAFETY CLIMB MUST BE REPORTED TO YOUR CROWN POC FOR RESOLUTION, INCLUDING EXISTING CONDITIONS.

INDEX OF SHEETS

PROJECT INFORMATION

TOWER HEIGHT:	169.0-FT
MOUNT ELEVATION:	142.0-FT
MOUNT WIDTH/TYPE:	13.5-FT/PLATFORM
JDE JOB NO.:	669335
ORDER NO.:	570318 REV. 0
DESIGN BUILDING CODE:	2018 CONNECTICUT STATE BUILDING CODE
DESIGN STANDARD:	TIA-222-H

PROJECT TEAM

CCI MODIFICATION PROJECT MANAGER:

NAME	CROWN CASTLE
CONTACT	DARCY TARR
PHONE	(704) 405-6589
EMAIL	DARCY.TARR@CROWNCASTLE.COM

ENGINEERING FIRM PROJECT MANAGER:

NAME	TOWER ENGINEERING PROFESSIONALS, INC.
CONTACT	RYAN W. TSCHETTER, P.E.
PHONE	(480) 750-9063
EMAIL	RWTSCHETTER@TEPGROUP.NET

PLANS PREPARED FOR:

CROWN CASTLE

6325 ARDREY KELL ROAD, SUITE 600
CHARLOTTE, NC 28277

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

STATE OF CONNECTICUT
AARON THOMAS RUCKER
32608
LICENSED
PROFESSIONAL ENGINEER

Electronic Copy

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DRAWN BY: SCW | CHECKED BY: PHX

SHEET TITLE:

TITLE SHEET

SHEET NUMBER: **T-1**

REVISION: **0**

TEP#: 25661.584643

GENERAL NOTES:

1. THE CONTRACT DOCUMENTS ARE THE PROPERTY OF CROWN CASTLE (CROWN). THEY ARE PROVIDED TO THE GC AND ITS LOWER TIER CONTRACTORS AND MATERIAL SUPPLIERS FOR THE LIMITED PURPOSE OF USE IN COMPLETING THE WORK FOR THIS SITE, AND SHALL BE KEPT IN STRICT CONFIDENCE AND NOT DISCLOSED TO ANY THIRD PARTIES. THE CONTRACT DOCUMENTS SHALL NOT BE USED FOR ANY OTHER PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF CROWN.
2. DETAIL DRAWINGS, INCLUDING NOTES AND TABLES, SHALL GOVERN OVER GENERAL NOTES AND TYPICAL DETAILS. CONTACT THE CROWN POINT OF CONTACT (POC) AND ENGINEER OF RECORD (EOR) FOR CLARIFICATION AS NEEDED.
3. DO NOT SCALE DRAWINGS.
4. ANY WORK PERFORMED WITHOUT A PREFABRICATION MAPPING IS DONE AT THE RISK OF THE GC AND/OR FABRICATOR. ALL DIMENSIONS OF EXISTING STRUCTURAL ELEMENTS ARE ASSUMED BASED ON THE AVAILABLE DOCUMENTATION AND ARE PRELIMINARY UNTIL FIELD-VERIFIED BY THE GC, UNLESS NOTED OTHERWISE (UNO). WHERE DISCREPANCIES ARE FOUND, GC SHALL CONTACT THE CROWN POC AND EOR THROUGH RFI.
5. FOR THIS ANALYSIS AND MODIFICATION, THE MOUNT HAS BEEN ASSUMED TO BE IN GOOD CONDITION WITHOUT ANY STRUCTURAL DEFECTS, UNO. IF THE GC DISCOVERS ANY INDICATION OF AN EXISTING STRUCTURAL DEFECT, CONTACT THE CROWN POC AND EOR IMMEDIATELY.
6. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS, SHALL BE THE RESPONSIBILITY OF THE GC 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 STANDARD CED-STD-10253, "RIGGING PROGRAM", INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA-322 (LATEST EDITION).
7. THE STRUCTURAL INTEGRITY OF THE MODIFICATION DESIGN EXTENDS TO THE COMPLETE CONDITION ONLY. THE GC MUST BE COGNIZANT THAT THE REMOVAL OF ANY STRUCTURAL COMPONENT OF AN EXISTING TOWER HAS THE POTENTIAL TO CAUSE THE PARTIAL OR COMPLETE COLLAPSE OF THE STRUCTURE. ALL NECESSARY PRECAUTIONS MUST BE TAKEN TO ENSURE STRUCTURAL INTEGRITY, INCLUDING, BUT NOT LIMITED TO, ENGINEERING ASSESSMENT OF CONSTRUCTION STRESSES WITH INSTALLATION MAXIMUM WIND SPEED AND/OR TEMPORARY BRACING AND SHORING.
8. AERIAL AND UNDERGROUND UTILITIES AND FACILITIES MAY OR MAY NOT BE SHOWN ON THE DRAWINGS. THE GC SHALL TAKE EVERY PRECAUTION TO PRESERVE AND PROTECT THESE ITEMS, WHICH MAY INCLUDE AERIAL OR UNDERGROUND POWER LINES, TELEPHONE LINES, WATER LINES, SEWER LINES, CABLE TELEVISION FACILITIES, PIPELINES, STRUCTURES AND OTHER PUBLIC AND PRIVATE IMPROVEMENTS WITHIN OR ADJACENT TO THE WORK AREA. THE RESPONSIBILITY FOR DETERMINING THE ACTUAL ON-SITE LOCATION OF THESE ITEMS SHALL REST EXCLUSIVELY WITH THE GC.
9. ALL MANUFACTURER'S HARDWARE ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED, UNO. CONFLICTING NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR AND THE CROWN POC.
10. THE GC SHALL FABRICATE ALL REQUIRED ITEMS PER THE MATERIALS SPECIFIED BELOW, UNO ON THE DETAIL DRAWING SHEETS. IF THE GC FINDS FOR ANY COMPONENT THAT THE MATERIALS HAVE NOT BEEN CLEARLY SPECIFIED, THE GC SHALL SUBMIT AN RFI TO THE EOR TO CONFIRM THE REQUIRED MATERIAL.
11. CONTRACTOR PERSONNEL SHALL NOT DRILL HOLES IN ANY NEW OR EXISTING STRUCTURAL MEMBERS, OTHER THAN THOSE DRILLES HOLES SHOWN ON STRUCTURAL DRAWINGS, WITHOUT THE APPROVAL OF THE EOR.
12. FOR A LIST OF CROWN-APPROVED COLD GALVANIZING COMPOUNDS, REFER TO THE ENG-STD-10149, "TOWER PROTECTIVE COATINGS GUIDELINES".
13. ALL EXPOSES STRUCTURAL STEEL AS THE RESULT OF THIS SCOPE OF WORK INCLUDING BUT NOT LIMITED TO: FIELD DRILLED HOLES, AND SHAFT INTERIORS (WERE ACCESSIBLE), SHALL BE CLEANED AND TWO (2) COATS COLD GALVANIZING SHALL BE APPLIED BY BRUSH IN ACCORDANCE WITH ENG-STD-10149, "TOWER PROTECTIVE COATINGS GUIDELINES".
14. ALL TOWER GROUNDING AFFECTED BY THE WORK SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH OPS-STD-10090, "TOWER GROUNDING", AND OPS-BUL-10133, "GROUNDING REPAIR RECOMMENDATION".
15. ANY HARDWARE REMOVED FROM THE EXISTING TOWER SHALL BE REPLACED WITH NEW HARDWARE OF EQUAL SIZE AND QUALITY, UNO. NO EXISTING FASTENERS SHALL BE REUSED.
16. ALL JOINTS USING ASTM A325 OR A490 BOLTS, U-BOLTS, V-BOLTS, AND THREADED RODS SHALL BE SNUG TIGHTENED, UNO.
17. A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED SNUG TIGHTENED ASTM A325 OR A490 BOLTS, U-BOLTS, V-BOLTS, AND THREADED RODS.
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PLANS PREPARED FOR:

CROWN CASTLE

6325 ARDREY KELL ROAD, SUITE 600
CHARLOTTE, NC 28277

PROJECT INFORMATION:

PLYMOUTH/RT 6
BU #: 826768
CARRIER: VERIZON
171 TOWN HILL ROAD
PLYMOUTH, CT 06786
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PLANS PREPARED BY:

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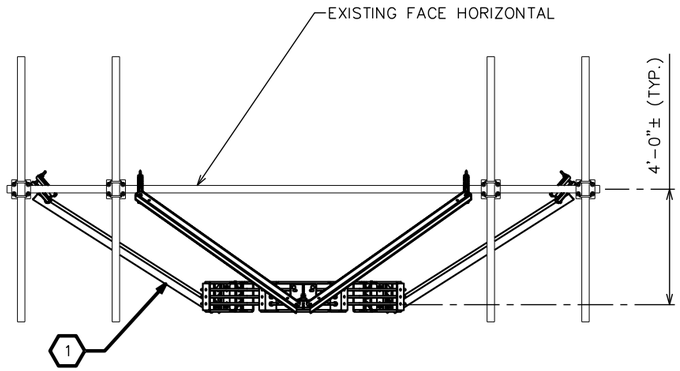
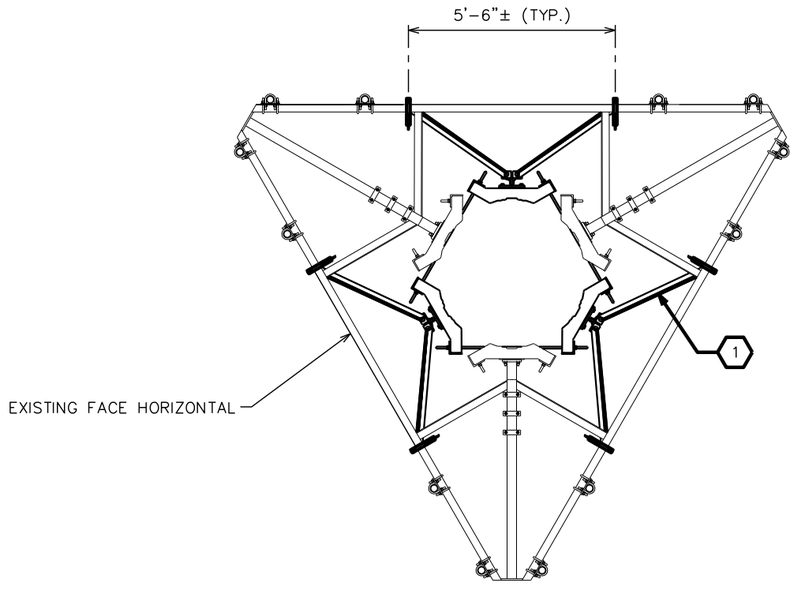
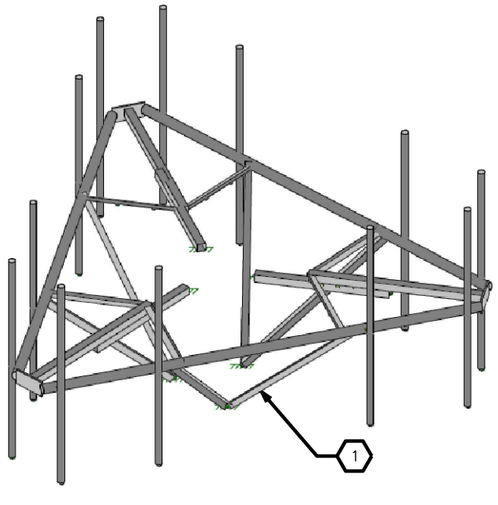


ELEVATION VIEW



PLAN VIEW



ISOMETRIC VIEW

MODIFICATION SCHEDULE

NO.	MODIFICATION DESCRIPTION	ELEVATION (FT.)	SHEET
1	ADD SITE PRO 1 PRK-SFS-L REINFORCEMENT KIT.	142	S-1

NOTES:

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BILL OF MATERIALS

MANUFACTURER	PART NUMBER	QUANTITY	NOTES
SITE PRO 1	PRK-SFS-L	1	1,2

NOTES:

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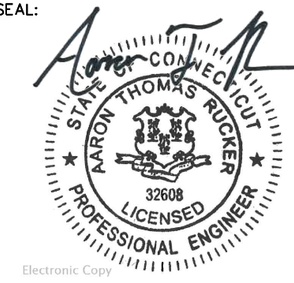

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MOUNT MODIFICATION SCHEDULE

SHEET NUMBER: **S-1**

REVISION: **0**

TEP#: 25661.584643

Exhibit F

Power Density/RF Emissions Report

Site Name: ***PLYMOUTH CT***
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)
VZW 700	751	4	697	2787	142	0.0050
VZW CDMA	877.26	2	408	817	142	0.0015
VZW Cellular	874	4	826	3303	142	0.0059
VZW PCS	1975	4	1544	6176	142	0.0110
VZW AWS	2120	4	2318	9270	142	0.0165
VZW CBAND	3730.08	4	6531	26125	142	0.0466

Total Percentage of Maximum Permissible Exposure

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council

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

Absolute worst case maximum values used.

Maximum Permissible Exposure*	Fraction of MPE
(mW/cm^2)	(%)
0.5007	0.99%
0.5848	0.25%
0.5827	1.01%
1.0000	1.10%
1.0000	1.65%
1.0000	4.66%
	9.67%

IEEE C95.1-1992

l's November 10, 2015 Memorandum for Exempt Modification filings