



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

July 14, 2020

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

RE: Notice of Exempt Modification for AT&T - 857528
85 Paper Mill Road, Woodbury, CT 06798
Latitude: 41° 34' 23.07" / Longitude: -73° 13' 39.51"

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 147-foot mount on the existing 150-foot Monopole Tower, located at 85 Paper Mill Road, Woodbury, CT. The property is owned by Jodie Bryan and the tower is owned by Crown Castle. AT&T now intends to remove and replace six (6) existing antennas with six (6) new antennas. The new antennas will be installed at the 147-ft level of the tower. AT&T is also proposing tower mount modifications as shown on the enclosed Mount Analysis.

The facility was approved by the Connecticut Siting Council in Docket No. 375 on August 27, 2009. 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 Barbara Perkinson, First Selectwoman for the Town of Woodbury, Maryellen Edwards, Town Planner, Jodie Bryan as the property owner and Crown Castle is the tower owner.

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.

Melanie A. Bachman

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For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.
Sincerely,

Anne Marie Zsamba
Site Acquisition Specialist
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
(201) 236-9224
AnneMarie.Zsamba@crowncastle.com

Attachments

cc:

Barbara Perkinson, First Selectwoman (*via email only to barbaraperkinson@woodburyct.org*)
Town of Woodbury
281 Main Street South
Woodbury, CT 06798

Maryellen Edwards, Town Planner (*via email only to medwards@woodburyct.org*)
Town of Woodbury
281 Main Street South
Woodbury, CT 06798

Jodie Bryan, Property Owner (*via email only to rbryan8287@aol.com*)
85 Paper Mill Road
Woodbury, CT 06798

Crown Castle, Tower Owner

From: Zsamba, Anne Marie
To: medwards@woodburyct.org
Subject: Notice of Exempt Modification - AT&T - 85 Paper Mill Road
Date: Tuesday, July 14, 2020 11:25:00 AM
Attachments: [EM-AT&T-85 PAPER MILL RD WOODBURY-857528_notice.pdf](#)

Dear Town Planner Edwards:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council, today July 14, 2020.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,
Anne Marie Zsamba

ANNE MARIE ZSAMBA
Site Acquisition Specialist
T: (201) 236-9224
M: (518) 350-3639
F: (724) 416-6112

CROWN CASTLE
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
CrownCastle.com

From: [Zsamba, Anne Marie](#)
To: barbaraperkinson@woodburyct.org
Subject: Notice of Exempt Modification - AT&T - 85 Paper Mill Road
Date: Tuesday, July 14, 2020 11:25:00 AM
Attachments: [EM-AT&T-85 PAPER MILL RD WOODBURY-857528_notice.pdf](#)

Dear First Selectwoman Perkinson:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council, today July 14, 2020.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,
Anne Marie Zsamba

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CROWN CASTLE
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Exhibit A

Original Facility Approval

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

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

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of the Certificate Holder and other entities, both public and private, but such tower shall not exceed a height of 150 feet above ground level.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. Prior to the submission of the D&M Plan to the Council, the Certificate Holder shall discuss and resolve issues pertaining to the existing driveway that serves the site property with the Town of Woodbury. Once the driveway issues are resolved, the D&M Plan shall be served on the Town of Woodbury for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and
 - b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities’ antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Woodbury public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
7. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
8. Any request for extension of the time period referred to in Condition 7 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Woodbury. Any proposed modifications to this Decision and Order shall likewise be so served.
9. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
10. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.
11. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

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

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

The parties and intervenors to this proceeding are:

Applicant

New Cingular Wireless PCS, LLC

Its Representative

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

Exhibit B

Property Card



Town of Woodbury, CT

Property Listing Report

Map Block Lot

040-032A

Building #

Unique Identifier

240120

Property Information

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

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

Valuation Summary

(Assessed value = 70% of Appraised Value)

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

Utility Information

Electric	No
Gas	No
Sewer	No
Public Water	No
Well	No



Primary Construction Details

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

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

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

Report Created On

7/14/2020



Town of Woodbury, CT

Property Listing Report

Map Block Lot

040-032A

Building #

Unique Identifier

240120

Detached Outbuildings

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

Attached Extra Features

Type	Description	Area (sq ft)	Condition	Year Built

Sales History

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

Exhibit C

Construction Drawings

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 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.
- LOOK UP - ALL CONSTRUCTION ACTIVITIES ON- AND OFF-SITE 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 INSTALLATION SHALL NOT INTERFERE WITH THE INTEGRITY OF FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY OF THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: FINISHING THE WIRE ROPE, BENCHING OF THE WIRE ROPE FROM ITS SUPPORTS, DRAGG CONTACT 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 CONSTRUCTION TICKET.
- 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 ON-SITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- 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 ALL APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATIVE TO CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CEO-STD-0253. ALL REQUIRED INSPECTION OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORT STRUCTURE(S) IN ACCORDANCE WITH ANS/ITIA--222 (LATEST EDITION).
- ALL SITE WORK TO COMPLY WITH GAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE" AND LATEST VERSION OF ANS/ITIA 019-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS".
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO THE RECEIVING OF INSTALLATION PERMITS.
- 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 LOCAL, STATE, ORDINANCES 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 STANDARDS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. 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 ORDERED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TAGGING AND 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.
- ALL SITE WORK SHALL BE CONDUCTED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBER, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, OR LOCATED AS ORDERED BY CONTRACTOR, SHALL BE PROTECTED 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.
- 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.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO UNIFORM LEVEL, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION, TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- 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.

GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GESS'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE CONTRACTOR SHALL PERFORM IEEE FALL-OFF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 and 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS REQUIRED TO A TEST RESULT OF 5 OHMS OR LESS.
- 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.
- METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 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 BITS EQUIPMENT.
- 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 BITS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BITS.
- 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.
- ALL EXTERIOR GROUND CONDUCTIONS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUIT SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INDOOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- ALL CORROSION ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUIT.
- GROUND CONDUITS 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 CHAIRS 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., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 1" NON-FLEXIBLE 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).
- 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).

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CARRIER: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
AT&T TOWER OWNER: CROWN CASTLE USA INC.
- 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 ON THESE DRAWINGS.
- 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 MEASURE AND VERIFY 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 SHALL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- 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.
- 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.
- 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.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL, AND NATIONAL ELECTRICAL 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 STANDARDS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT 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 SUCH WORK.
- CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
- 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.
- 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.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION, TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 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.
- UNLESS OTHERWISE SPECIFIED, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. 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.
- 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 I PORTLAND CEMENT WITH MAXIMUM WATER-TO-CEMENT RATIO (w/c) OF 0.45.
- 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° BEND HOOKS, UNLESS NOTED OTHERWISE. WELD STRENGTH (fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER 40 ksi
#5 BARS AND LARGER 60 ksi
- 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: 3/4"
SLAB AND WALLS 1-1/2"
BEAMS AND COLUMNS 1-1/2"
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.

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTING ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- ALL RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
- ALL OCCURRENCE DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT SUBJECT TO THE FOLLOWING: 22,000 AC MINIMUM VERIFY 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.
- 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.
- 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).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- 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.
- 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.
- POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TO CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- 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 (IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND ALL APPLICABLE LOCAL, STATE, FEDERAL, AND NATIONAL ELECTRICAL CODES, REGULATIONS AND ORDINANCES.
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90° AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET GREEN FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND POWER, AND ALL APPLICABLE LOCAL, STATE, FEDERAL, AND NATIONAL ELECTRICAL CODES, REGULATIONS AND ORDINANCES.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECIMATE WIREWAY).
- SLOTTED WIRING SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- 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 FINISHED 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 METALLIC IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKOUT ON OUTSIDE AND INSIDE.
- 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.
- METAL RECEPTACLE SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING, SHALL MEET OR EXCEED UL 514A AND NEMA OS 2 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- NON-METALLIC 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.
- THE CONTRACTOR SHALL COMPLY WITH THE TECHNICAL SPECIFICATION FOR THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 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.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "TAG #1".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAP PULL CORD INSTALLED.

CONDUCTOR COLOR CODE

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

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

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

ABBREVIATIONS:

ANT	ANTENNA
EX	EXISTING
EIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
RPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRICAL CODE
(P)	PROPOSED
PL	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
REF	REMOTE ELECTRIC TILT
RFD	RADIO FREQUENCY DATA SHEET
RRF	REMOTE RADIO HEAD
RRL	REMOTE RADIO UNIT
RUA	SMART INTEGRATED DEVICE
SHD	TOWER MOUNTED AMPIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



3 CORPORATE PARK DRIVE, SUITE 101
CLEFTON PARK, NY 12065

AT&T SITE NUMBER: CT1279

BU #: 857528
WOODBURY PAPER MILL
RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	BY	DESCRIPTION	DES/CHK
0	06/05/20	JDM	PRELIMINARY	JR
1	06/09/20	JDM	CONSTRUCTION	JR

DocuSigned by
Justin J. Lorette
1600538242

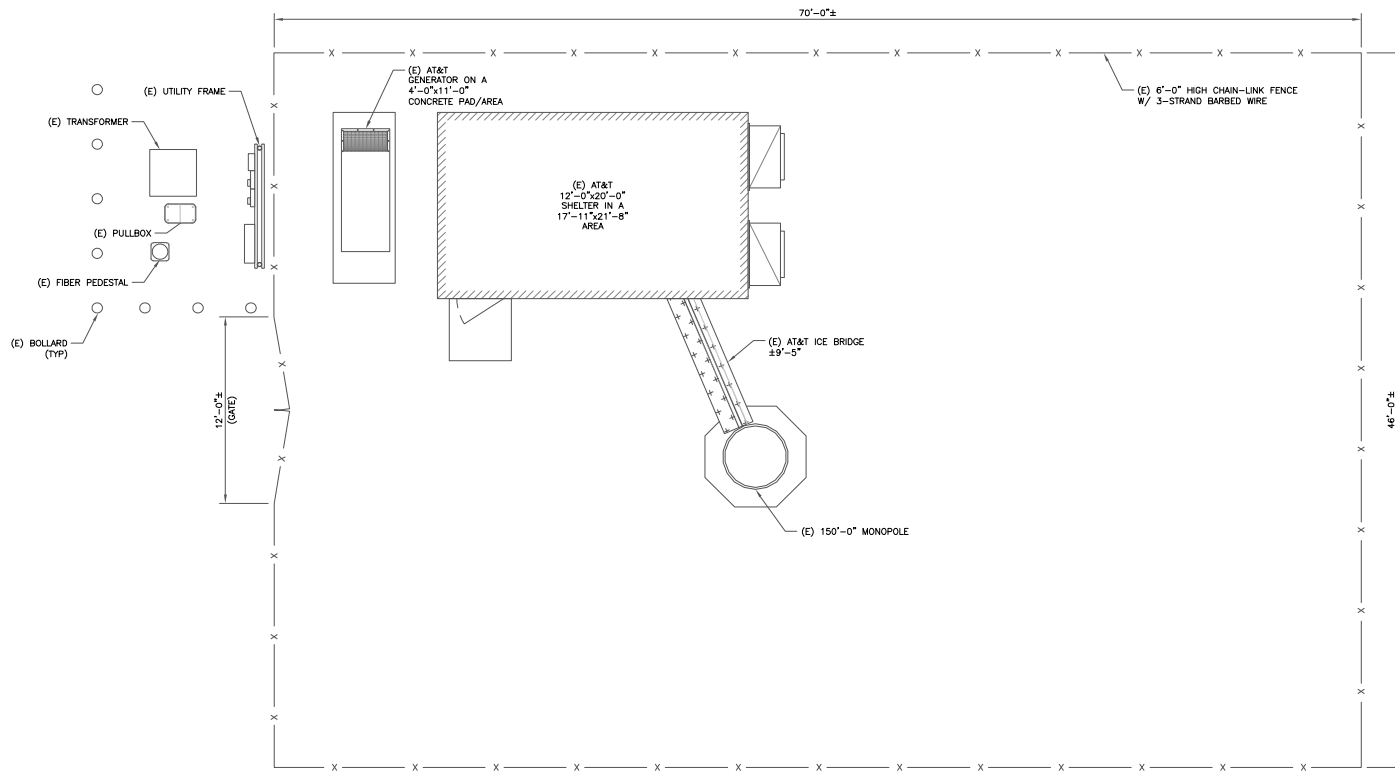


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Corum Castle USA Inc. Certificate of Registration #PCE-0001109

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

SHEET NUMBER: **T-2** REVISION: **0**



1 SITE PLAN
 SCALE: 1/4"=1'-0" (FULL SIZE)
 1/8"=1'-0" (1:12)



AT&T SITE NUMBER: CT1279

BU #: 857528
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
 WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

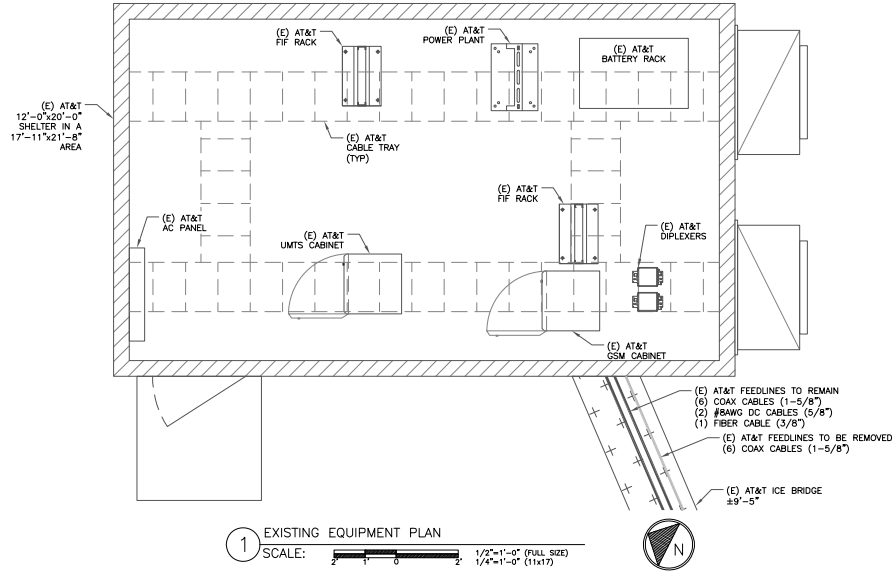
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	06/03/20	ASJM	PRELIMINARY	JLR
B	06/30/20	JJM	CONSTRUCTION	JL

DocuSigned by:
Justin Lavette
 1840838782

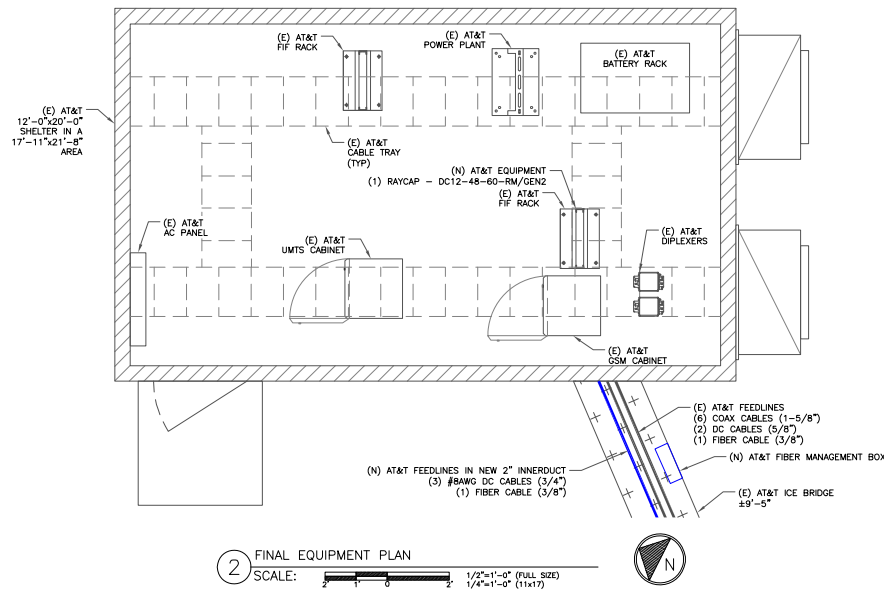
7/1/2020 3:14:13 PM EDT
 Crown Castle USA, Inc. Certificate of Registration #PEC-0001101

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SHEET NUMBER: **C-1.1** REVISION: **0**



1 EXISTING EQUIPMENT PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (1:1x17)



2 FINAL EQUIPMENT PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (1:1x17)

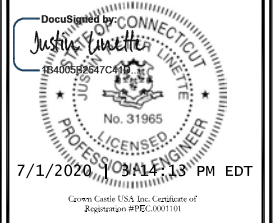
- GROUND SCOPE OF WORK:**
- + REMOVE (6) DIPLEXERS
 - + REMOVE (1) DUS41
 - + INSTALL (2) 6630
 - + INSTALL (1) XMU03 + IDLE
 - + INSTALL (1) ARGUS CONVERTER SHELF
 - + INSTALL (1) FIBER MANAGEMENT BOX
 - + INSTALL (1) RAYCAP - DC12-48-60-RM/GEN2



AT&T SITE NUMBER: CT1279
BU #: 857528
WOODBURY PAPER MILL RD
85 PAPER MILL ROAD
WOODBURY, CT 06798
EXISTING 150'-0" MONOPOLE

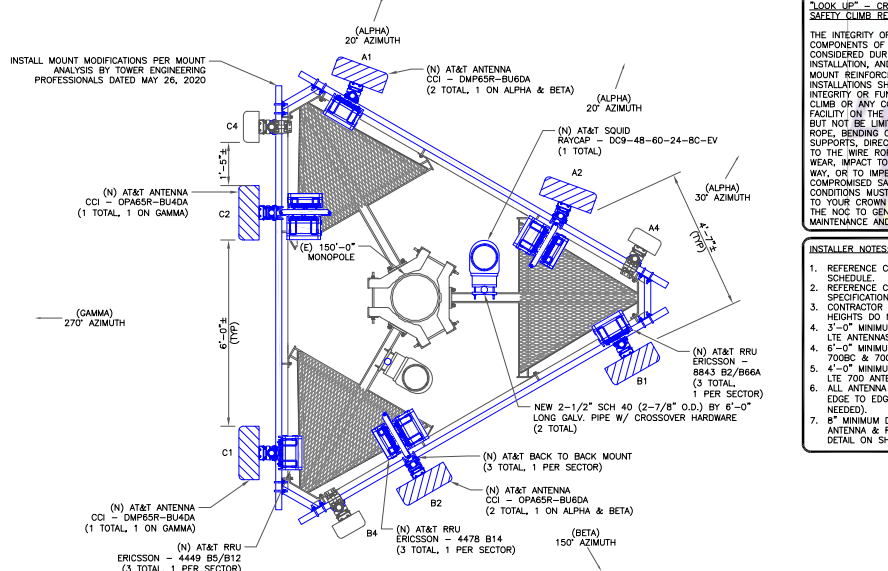
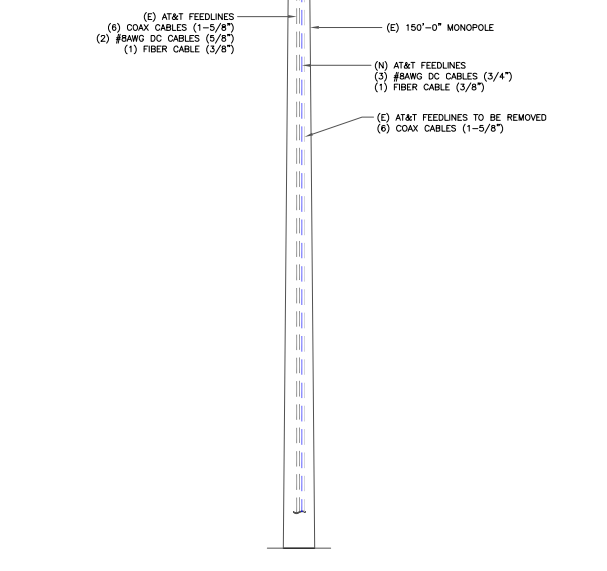
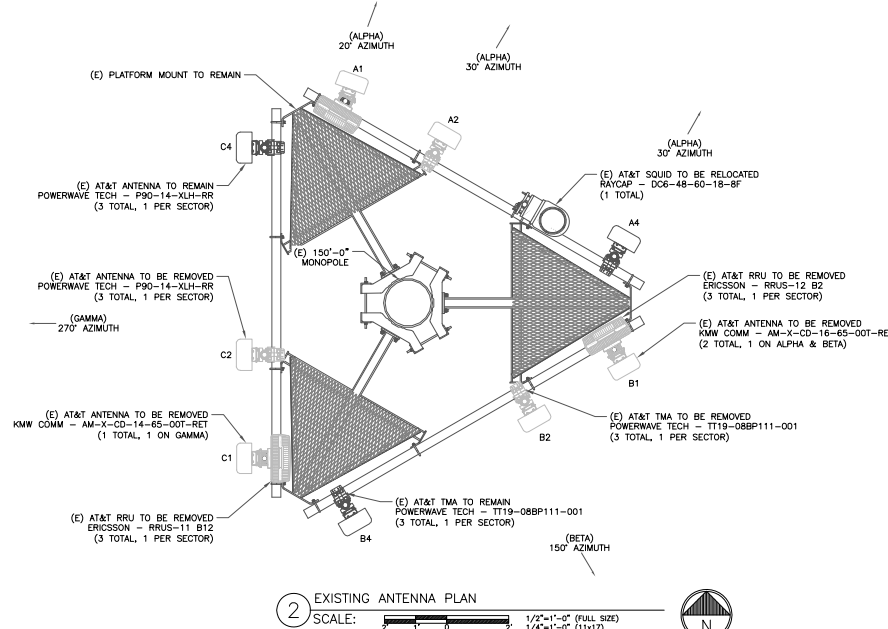
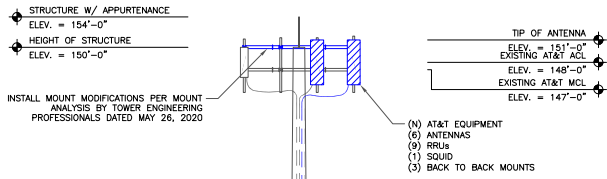
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	06/05/20	AMM	PRELIMINARY	LR
B	06/30/20	JMM	CONSTRUCTION	JL



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SHEET NUMBER: **C-1.2** REVISION: **0**



3'OOK LIP" - 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, TOWER 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 IMPED/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.

INSTALLER NOTES:

- REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE
- REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS
- CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
- 3'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE ANTENNAS ON SAME SECTOR.
- 6'-0" MINIMUM DISTANCE REQUIRED BETWEEN TOWER & TOWER ANTENNAS ON SAME SECTOR.
- 4'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE TOWER ANTENNAS ON OPPOSING SECTORS.
- ALL ANTENNA MEASUREMENT DISTANCES MUST BE EDGE TO EDGE (RELOCATE ANTENNAS AS NEEDED).
- 6" MINIMUM DISTANCE REQUIRED BETWEEN ANTENNA & RADIO. SEE GENERIC EXAMPLE DETAIL ON SHEET C-4.



AT&T SITE NUMBER: CT1279

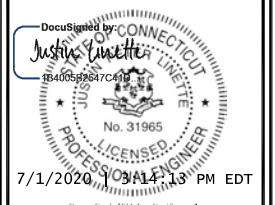
BU #: 857528
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	06/03/20	AMM	PRELIMINARY	LR
B	06/30/20	JDM	CONSTRUCTION	JL



Crown Castle USA, Inc. Certificate of Registration #PECC0001101

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SHEET NUMBER: C-2 REVISION: 0

FINAL EQUIPMENT SCHEDULE (VERIFY WITH CURRENT RFDS)																			
ALPHA					BETA					GAMMA									
POSITION	ANTENNA				RADIO				DIPLEXER		TMA		SURGE PROTECTION		CABLES				
	TECH.	STATUS/MANUFACTURER	MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	LTE/5G	(E) CCI	DMP65R-BU6DA	20°	148°-0"	1	(N) 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-
A2	LTE	(E) CCI	OPA65R-BU6DA	20°	148°-0"	1	(N) 4478 B14	TOWER	-	-	-	-	-	-	-	-	-	-	-
						1	(N) 8843 B2/B66A	TOWER	-	-	-	-	-	-	-	-	-	-	-
A3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	(E) DC6-48-60-18-BF	2	(E) DC	5/8"	198'-0"
														1	(E) FIBER	3/8"	198'-0"		
A4	UMTS	(E) POWERWAVE TECH	P90-14-XLH-RR	30°	148°-0"	-	-	-	2	(E)	GROUND	1	(E)	-	-	2	(E) COAX	1-5/8"	198'-0"
BETA																			
B1	LTE/5G	(E) CCI	DMP65R-BU6DA	150°	148°-0"	1	(N) 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-
B2	LTE	(E) CCI	OPA65R-BU6DA	150°	148°-0"	1	(N) 4478 B14	TOWER	-	-	-	-	-	-	-	-	-	-	-
						1	(N) 8843 B2/B66A	TOWER	-	-	-	-	-	-	-	-	-	-	-
B3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	(N) DC9-48-60-24-8C-EV	3	(N) DC	3/4"	198'-0"
														1	(N) FIBER	3/8"	198'-0"		
B4	UMTS	(E) POWERWAVE TECH	P90-14-XLH-RR	150°	148°-0"	-	-	-	2	(E)	GROUND	1	(E)	-	-	2	(E) COAX	1-5/8"	198'-0"
GAMMA																			
C1	LTE/5G	(E) CCI	DMP65R-BU4DA	270°	148°-0"	1	(N) 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-
C2	LTE	(E) CCI	OPA65R-BU4DA	270°	148°-0"	1	(N) 4478 B14	TOWER	-	-	-	-	-	-	-	-	-	-	-
						1	(N) 8843 B2/B66A	TOWER	-	-	-	-	-	-	-	-	-	-	-
C3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C4	UMTS	(E) POWERWAVE TECH	P90-14-XLH-RR	270°	148°-0"	-	-	-	2	(E)	GROUND	1	(E)	-	-	2	(E) COAX	1-5/8"	198'-0"

NOTE:
(E) - EXISTING
(N) - NEW

1 FINAL EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE



AT&T SITE NUMBER: CT1279

BU #: 857528
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798
EXISTING 150'-0" MONOPOLE

ISSUED FOR:

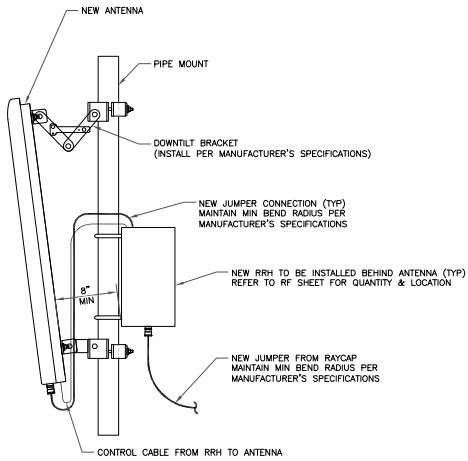
REV	DATE	DRWN	DESCRIPTION	DES/QA
A	06/05/20	AMM	PRELIMINARY	JR
B	06/30/20	JDM	CONSTRUCTION	JL

DocuSigned by:
Justin Lavette
1840838276

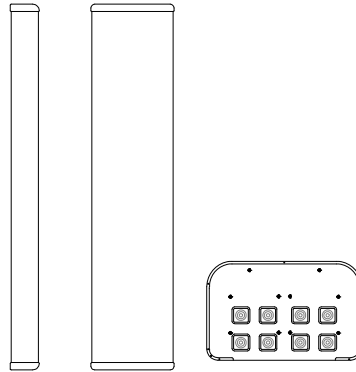
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SHEET NUMBER: C-3 REVISION: 0

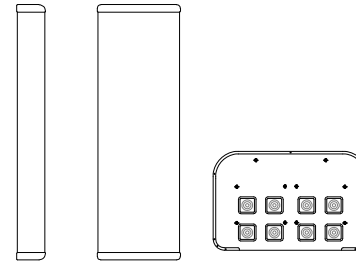


1 GENERIC ANTENNA MOUNTING ELEVATION
SCALE: NOT TO SCALE



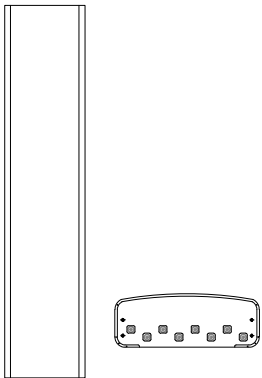
CCI ANTENNAS - OPA65R-BU6DA
WEIGHT (WITHOUT MOUNTING HARDWARE): 63.5 LBS
SIZE (HxWxD): 71.2x21x7.8 IN.
MOUNTING HARDWARE P/N: MBK-01
RATED WIND VELOCITY: 150.0 MPH

2 CCI ANTENNAS - OPA65R-BU6DA
SCALE: NOT TO SCALE



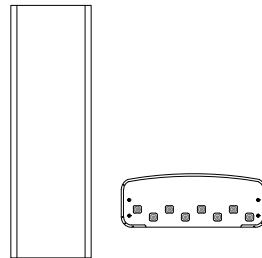
CCI ANTENNAS - OPA65R-BU4DA
WEIGHT (WITHOUT MOUNTING HARDWARE): 62.3 LBS
SIZE (HxWxD): 48x21x7.8 IN.
MOUNTING HARDWARE P/N: MBK-01
RATED WIND VELOCITY: 150.0 MPH

3 CCI ANTENNAS - OPA65R-BU4DA
SCALE: NOT TO SCALE



CCI ANTENNAS - DMP65R-BU6DA
WEIGHT (WITHOUT MOUNTING HARDWARE): 89.3 LBS
SIZE (HxWxD): 71.2x20.7x7.7 IN.

4 CCI ANTENNAS - DMP65R-BU6DA
SCALE: NOT TO SCALE



CCI ANTENNAS - DMP65R-BU4DA
WEIGHT (WITHOUT MOUNTING HARDWARE): 76.5 LBS
SIZE (HxWxD): 48x20.7x7.7 IN.

5 CCI ANTENNAS - DMP65R-BU4DA
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE



AT&T SITE NUMBER: CT1279

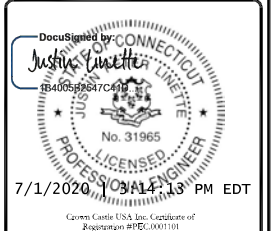
BU #: 857528
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

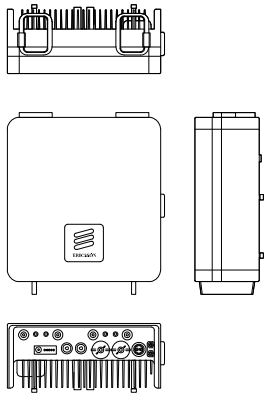
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	06/05/20	ASJM	PRELIMINARY	LR
B	06/30/20	JJM	CONSTRUCTION	JL



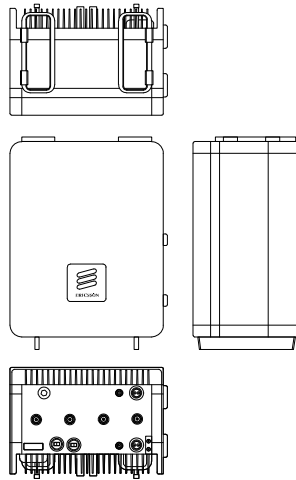
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SHEET NUMBER: **C-4** REVISION: **0**



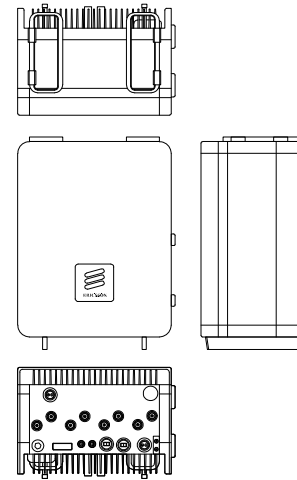
ERICSSON - 4478 B14
WEIGHT: 60.0 LBS
SIZE (HxWxD): 15.0x13.0x8.0 IN.

① ERICSSON - 4478 B14
SCALE: NOT TO SCALE



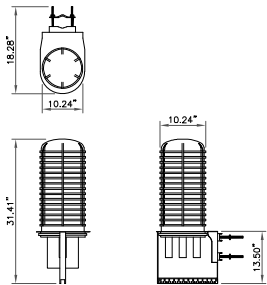
ERICSSON - 4449 B5/B12
WEIGHT: 70.0 LBS
SIZE (HxWxD): 18.0x13.2x9.4 IN.

② ERICSSON - 4449 B5/B12
SCALE: NOT TO SCALE



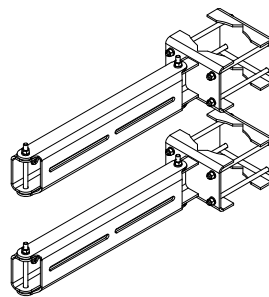
ERICSSON - 8843 B2/B66A
WEIGHT: 70.0 LBS
SIZE (HxWxD): 18.0x13.2x9.4 IN.

③ ERICSSON - 8843 B2/B66A
SCALE: NOT TO SCALE



RAYCAP - DC9-48-60-24-8C-EV
WEIGHT (WITHOUT MOUNTING HARDWARE): 16.0 LBS
SIZE (HxWxD): 31.4x10.24x18.28 IN.

④ RAYCAP - DC9-48-60-24-8C-EV
SCALE: NOT TO SCALE



⑤ BACK TO BACK MOUNT KIT
SCALE: NOT TO SCALE

⑥ NOT USED
SCALE: NOT TO SCALE



AT&T SITE NUMBER: CT1279

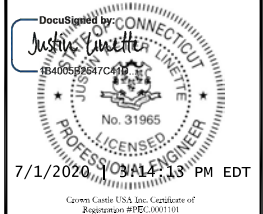
BU #: 857528
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

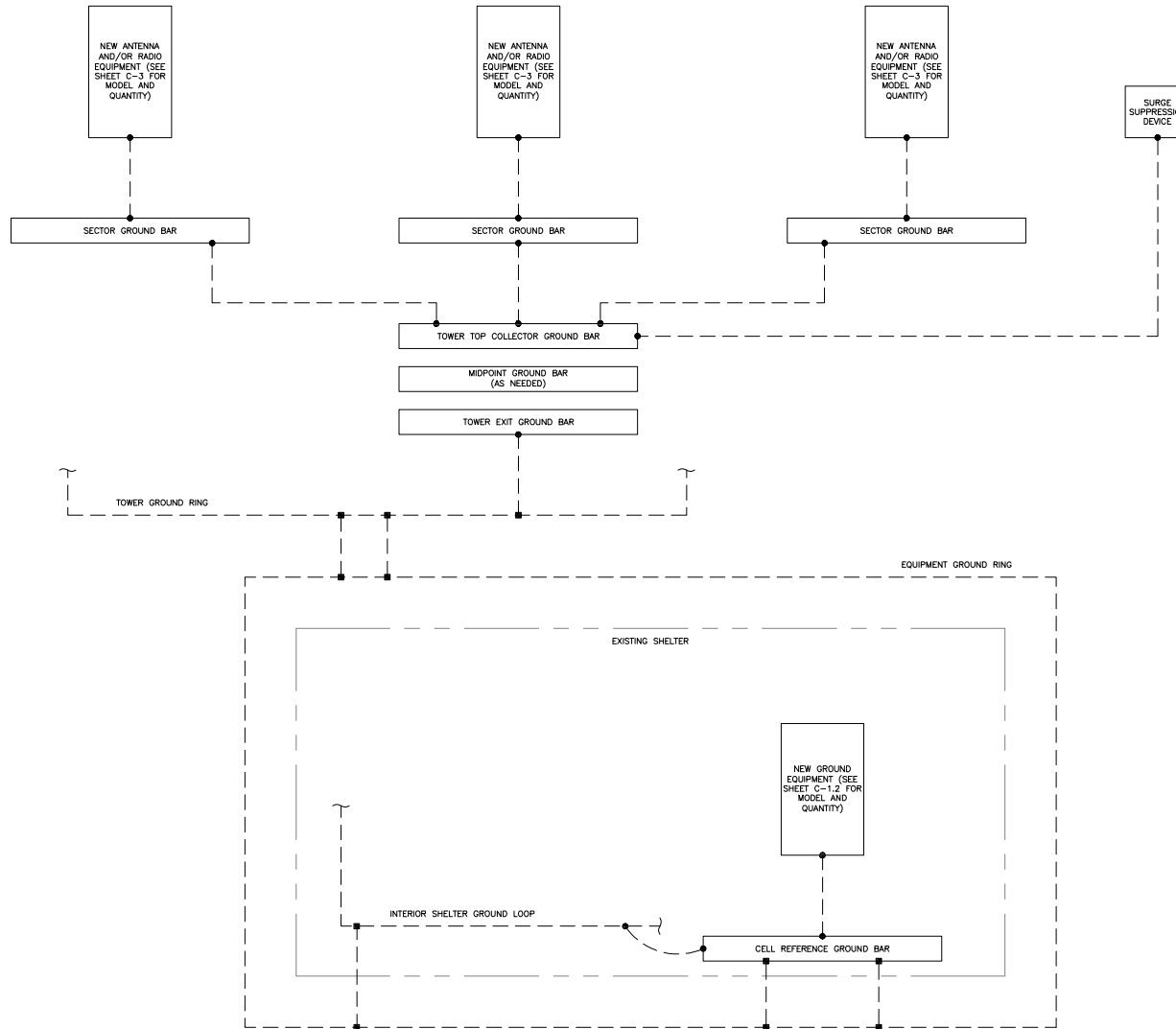
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A	06/05/20	ASJM	PRELIMINARY	JL
B	06/30/20	JJM	CONSTRUCTION	JL



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SHEET NUMBER: **C-4.1** REVISION: **0**



1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

GROUNDING PLAN LEGEND:

---	GROUND WIRE	⊙	COPPER GROUND ROD
■	EXOTHERMIC WELD	⊗	GROUND ROD W/ TEST WELL
●	MECHANICAL CONNECTION		

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.



AT&T SITE NUMBER: CT1279

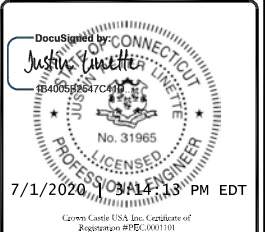
BU #: 857528
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

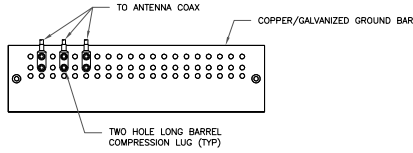
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	06/05/20	AMM	PRELIMINARY	JL
B	06/30/20	JJM	CONSTRUCTION	JL



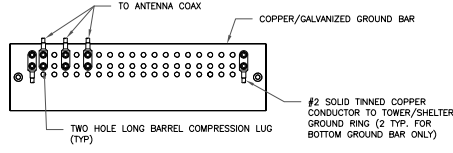
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SHEET NUMBER: G-1	REVISION: 0
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- NOTES:
1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

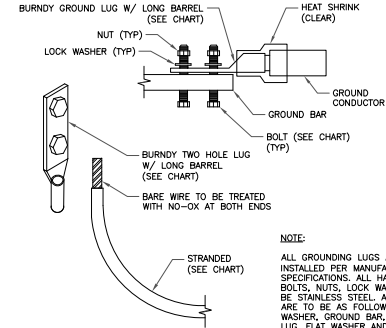
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



- 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.

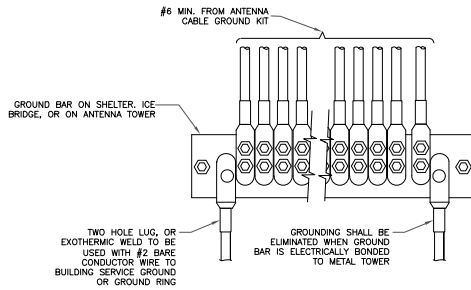
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

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

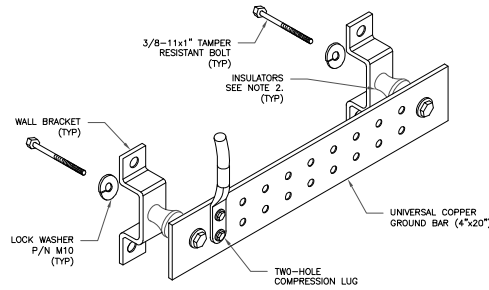


- NOTE:
- ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE

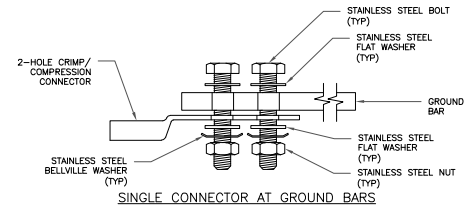


4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE

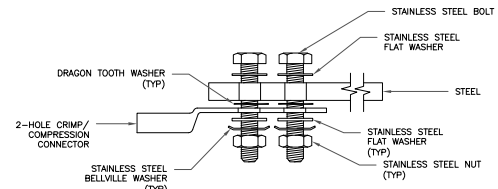


- NOTES:
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER. PER THE GROUNDING DOWN CONDUCTOR POLICY GAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
 2. OMIT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

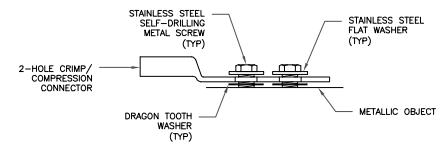
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

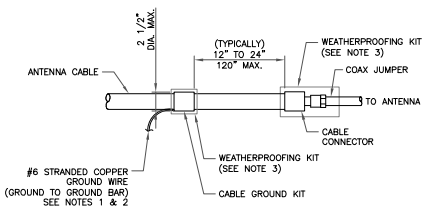


SINGLE CONNECTOR AT STEEL OBJECTS



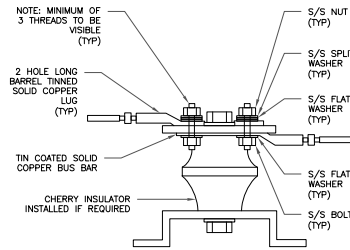
SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
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.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



AT&T SITE NUMBER: CT1279

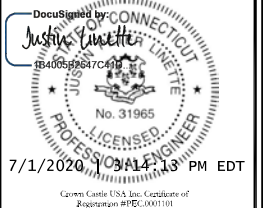
BU #: 857528
WOODBURY PAPER MILL RD

85 PAPER MILL ROAD
WOODBURY, CT 06798

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES/QA
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B	06/30/20	JDM	CONSTRUCTION	JL



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Diagram - Sector A Diagram File Name - CT1279_LTE Multi Carrier_A_B_C_Rev.1 vsd
Alt Site Name - CT1279 Location Name - WOODBURY PAPER MILL RD Market - CONNECTICUT Market Cluster - NEW ENGLAND
Comments: "Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v6.0_Ersson"

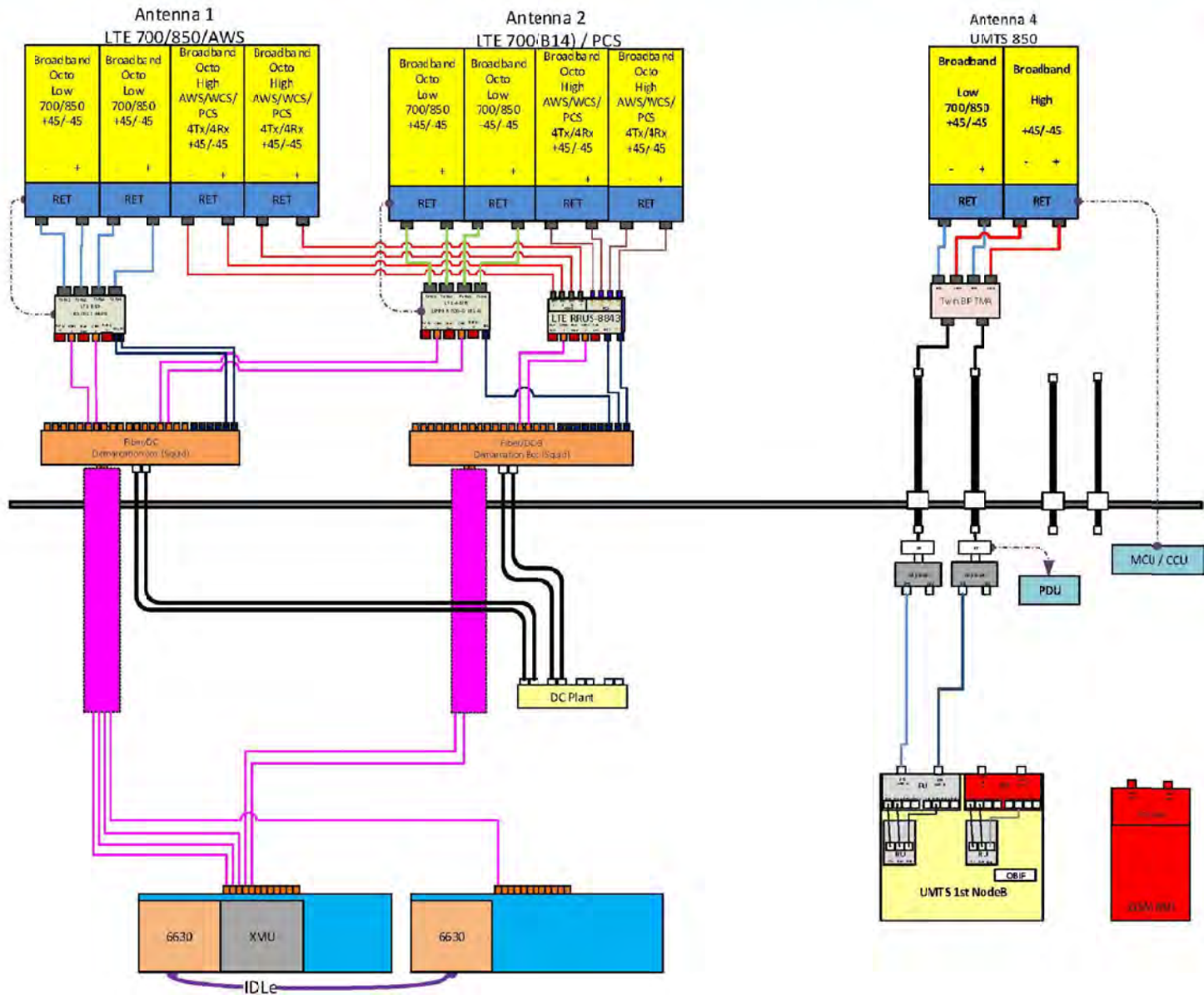


Diagram - Sector B Diagram File Name - CT1279_LTE Multi Carrier_A_B_C_Rev.1 vsd
Atoll Site Name - CT1279 Location Name - WOODBURY PAPER MILL RD Market - CONNECTICUT Market Cluster - NEW ENGLAND
Comments: *Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v8.0_Ericsson*

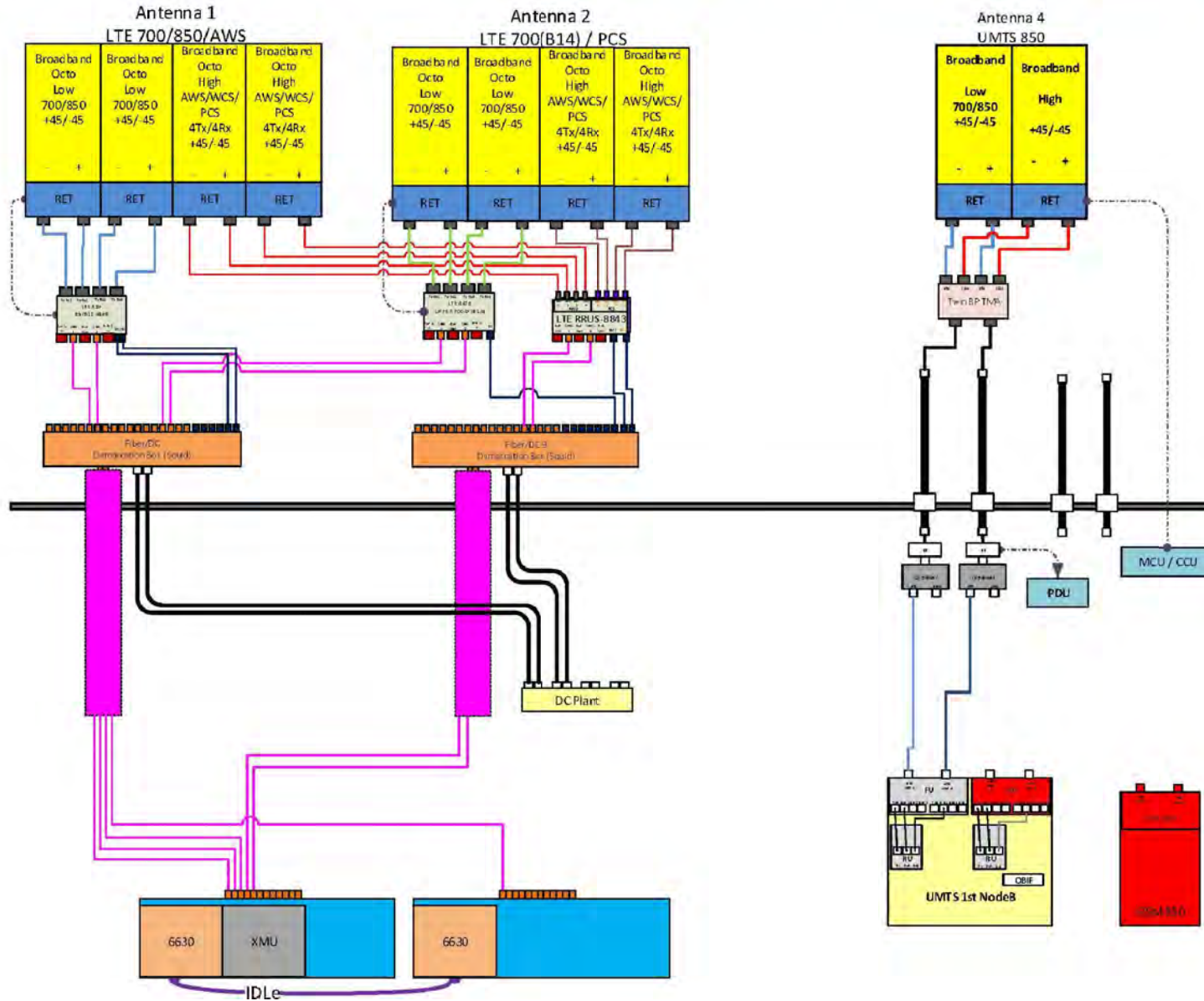
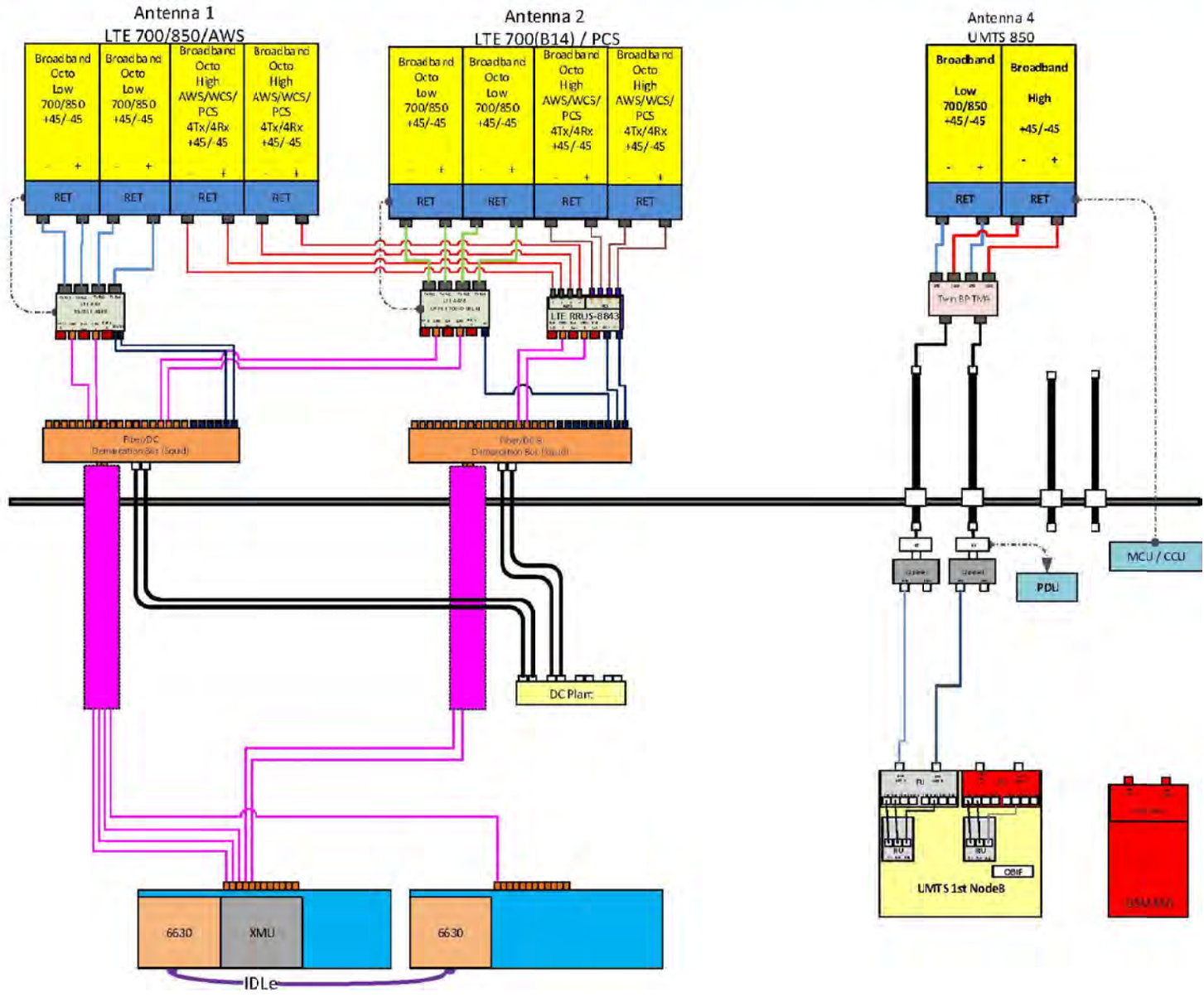


Diagram - sector C Diagram File Name - CT1279_LTE Multi Carrier_A_B_C_Rev.1 vsd
Atoll Site Name - CT1279 Location Name - WOODBURY PAPER MILL RD Market - CONNECTICUT Market Cluster - NEW ENGLAND
Comments: "Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v6.0_Ericsson"



Certificate Of Completion

Envelope Id: 02966B4CE454464B808F1DCA795DB33C Status: Completed
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 Source Envelope:
 Document Pages: 13 Signatures: 10 Envelope Originator:
 Certificate Pages: 3 Initials: 0 Phillip Lander
 AutoNav: Enabled 2000 Corporate Drive
 Envelopeld Stamping: Enabled Canonsburg, PA 15317
 Time Zone: (UTC-05:00) Eastern Time (US & Canada) Phil.Lander@crowncastle.com
 IP Address: 162.254.108.200

Record Tracking

Status: Original Holder: Phillip Lander Location: DocuSign
 7/1/2020 9:39:33 AM Phil.Lander@crowncastle.com

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Justin Linette
 Justin.linette@crowncastle.com
 Crown Castle International Corp.
 Security Level: Email, Account Authentication (None)

Signature



Signature Adoption: Pre-selected Style
 Using IP Address: 8.20.92.226

Timestamp

Sent: 7/1/2020 9:40:48 AM
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 Signed: 7/1/2020 3:14:13 PM

Electronic Record and Signature Disclosure:
 Accepted: 9/20/2018 7:12:49 AM
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In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
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Certified Delivered	Security Checked	7/1/2020 3:06:41 PM
Signing Complete	Security Checked	7/1/2020 3:14:13 PM
Completed	Security Checked	7/1/2020 3:14:13 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		

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Consequences of withdrawing consent to receive and/or execute documents electronically

If you elect to receive documents for execution and various other documents and other records only in paper format, it will slow the speed at which we can complete the subject transactions because of the increased delivery time.

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Unless you tell us otherwise in accordance with the procedures described herein, we may provide documents for execution, and other documents and records electronically to you through the DocuSign system during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any document for execution or other document or record, we prefer to provide all documents for execution, and other documents and records by the same method and to the same address that you have given us. If you do not agree with this process, please let us know as described below.

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You may contact us to let us know of any changes related to contacting you electronically, to request paper copies of documents for execution and other documents and records from us, and to withdraw your prior consent to receive documents for execution and other documents and records electronically as follows:

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To contact us by email, send messages to: esignature@CrownCastle.com

To contact us by paper mail, send correspondence to

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317

To advise Crown Castle and DocuSign of your new e-mail address

To let us know of a change to the e-mail address where we should send documents for execution and other documents and records to you, you must send an email message to esignature@CrownCastle.com and state your previous e-mail address and your new e-mail address.

In addition, you must notify DocuSign, Inc. to arrange for your new email address to be reflected in your DocuSign account by following the process for changing e-mail in the DocuSign system.

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Mobile Signing:	Apple iOS 7.0 or above; Android 4.0 or above
PDF Reader:	Acrobat® Reader or similar software may be required to view and print PDF files
Screen Resolution:	1024 x 768

Enabled Security Settings:	Allow per session cookies
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Acknowledging your access and consent to receive documents electronically

Please confirm that you were able to access this disclosure electronically (which is similar to the manner in which we will deliver documents for execution and other documents and records) and that you were able to print this disclosure on paper or electronically save it for your future reference and access or that you were able to e-mail this disclosure to an address where you will be able to print it on paper or save it for your future reference and access. Further, if you consent to receiving documents for execution and other documents and records in electronic format on the terms described above, please let us know by clicking the "I agree" button below.

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Exhibit D

Structural Analysis Report

Date: **June 08, 2020**



Stephanie Lipscomb
Crown Castle
370 Mallory Station Rd
Franklin, TN 37067

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject: **Structural Analysis Report**

Carrier Designation: **AT&T Mobility Co-Locate**
Carrier Site Number: 100435
Carrier Site Name: WOODBURY PAPER MILL RD

Crown Castle Designation: **Crown Castle BU Number:** 857528
Crown Castle Site Name: WOODBURY PAPER MILL RD
Crown Castle JDE Job Number: 605401
Crown Castle Work Order Number: 1845253
Crown Castle Order Number: 517045 Rev. 0

Engineering Firm Designation: **Crown Castle Project Number:** 1845253

Site Data: **85 PAPER MILL ROAD, WOODBURY, Litchfield County, CT**
Latitude 41° 34' 23.07", Longitude -73° 13' 39.51"
150 Foot - Monopole Tower

Dear Stephanie Lipscomb,

Crown Castle 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:

LC5: Proposed Equipment Configuration

Sufficient Capacity - 40.4%

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: Travis Bussard

Respectfully submitted by:

A handwritten signature in blue ink that reads 'Maribel Dentinger'.

Maribel Dentinger, P.E.
Senior Project Engineer



Jun 8 2020 3:30 PM

TABLE OF CONTENTS

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3.2) Assumptions

4) ANALYSIS RESULTS

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Table 4 - Tower Component Stresses vs. Capacity - LC5

4.1) Recommendations

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tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 150 ft Monopole tower designed by Ehresmann Engineering Inc.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	B
Topographic Factor:	1
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)
147.0	148.0	1	cci antennas	DMP65R-BU4D w/ Mount Pipe	12 2 2 2	1-5/8 5/8 3/4 3/8
		2	cci antennas	DMP65R-BU6D w/ Mount Pipe		
		1	cci antennas	OPA65R-BU4D w/ Mount Pipe		
		2	cci antennas	OPA65R-BU6D w/ Mount Pipe		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 4478 B14		
		3	ericsson	RRUS 8843 B2/B66A		
		3	powerwave technologies	P90-14-XLH-RR w/ Mount Pipe		
		3	powerwave technologies	TT19-08BP111-001		
		2	raycap	DC6-48-60-18-8F		
	147.0	1	sitepro 1	HRK12		
	1	tower mounts	Platform Mount [LP 601-1]			

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	Dr. Clarence Welti, P.E., P.C.	4570959	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Ehresmann Engineering, Inc	4724414	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Ehresmann Engineering, Inc	4724415	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.5.0), 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) 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. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 3 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	150 - 104.5	Pole	TP28.1875x18x0.1875	1	-5.94	988.77	33.9	Pass
L2	104.5 - 68.75	Pole	TP35.75x26.8609x0.25	2	-10.21	1673.43	34.6	Pass
L3	68.75 - 34	Pole	TP43x34.0833x0.3125	3	-16.56	2519.29	32.0	Pass
L4	34 - 0	Pole	TP50x41.0375x0.3125	4	-25.65	3027.25	38.2	Pass
							Summary	
						Pole (L4)	38.2	Pass
						Rating =	38.2	Pass

Table 4 - Tower Component Stresses vs. Capacity - LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	15.7	Pass
1	Base Plate	0	24.2	Pass
1	Base Foundation Structure	0	19.3	Pass
1	Base Foundation Soil Interaction	0	40.4	Pass

Structure Rating (max from all components) =	40.4%
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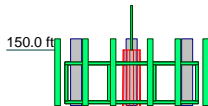
Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

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

APPENDIX A
TNXTOWER OUTPUT



MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower designed for Exposure B to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 38.2%

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	45.50	18	0.1875	4.25	18.0000	28.1875		2.1
2	40.00	18	0.2500	5.25	26.8609	35.7500	A572-65	3.4
3	40.00	18	0.3125	6.00	34.0833	43.0000		5.2
4	40.00	18	0.3125	4.1, 0.375	50.0000			6.1
								16.7

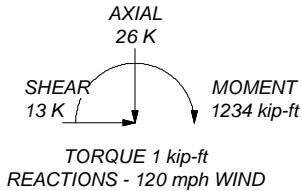
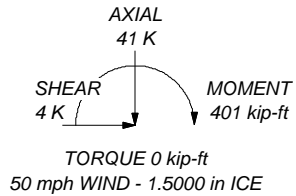
104.5 ft

68.8 ft

34.0 ft

0.0 ft

ALL REACTIONS
ARE FACTORED



Crown Castle
 2000 Corporate Drive
 Canonsburg, PA 15317
 The pathway to possible Phone: (724) 416-2000
 FAX:

Job:	BU 857528			
Project:				
Client:	Crown Castle	Drawn by:	Travis Bussard	
Code:	TIA-222-H	Date:	06/08/20	
Path:	C:\Users\TBussard\Desktop\WIP\857528 WO 1845253\Production\wind\857528.en		Scale:	NTS
			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:

- 1) Tower base elevation above sea level: 528.00 ft.
- 2) Basic wind speed of 120 mph.
- 3) Risk Category II.
- 4) Exposure Category B.
- 5) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- 6) Topographic Category: 1.
- 7) Crest Height: 0.00 ft.
- 8) Nominal ice thickness of 1.5000 in.
- 9) Ice thickness is considered to increase with height.
- 10) Ice density of 56 pcf.
- 11) A wind speed of 50 mph is used in combination with ice.
- 12) Temperature drop of 50 °F.
- 13) Deflections calculated using a wind speed of 60 mph.
- 14) A non-linear (P-delta) analysis was used.
- 15) Pressures are calculated at each section.
- 16) Stress ratio used in pole design is 1.05.
- 17) Tower analysis based on target reliabilities in accordance with Annex S.
- 18) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- 19) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Section	Elevation	Section Length	Splice Length	Number of Sides	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft		in	in	in	in	
L1	150.00-104.50	45.50	4.25	18	18.0000	28.1875	0.1875	0.7500	A572-65 (65 ksi)
L2	104.50-68.75	40.00	5.25	18	26.8609	35.7500	0.2500	1.0000	A572-65

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
L3	68.75-34.00	40.00	6.00	18	34.0833	43.0000	0.3125	1.2500	(65 ksi) A572-65
L4	34.00-0.00	40.00		18	41.0375	50.0000	0.3125	1.2500	(65 ksi) A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	18.2488	10.6007	424.9328	6.3234	9.1440	46.4712	850.4248	5.3013	2.8380	15.136
	28.5934	16.6635	1650.5160	9.9400	14.3193	115.2655	3303.2038	8.3333	4.6310	24.699
L2	28.1958	21.1158	1889.1397	9.4469	13.6453	138.4457	3780.7651	10.5599	4.2875	17.15
	36.2629	28.1692	4485.0722	12.6025	18.1610	246.9617	8976.0460	14.0873	5.8520	23.408
L3	35.7493	33.4964	4826.3494	11.9886	17.3143	278.7490	9659.0495	16.7514	5.4487	17.436
	43.6151	42.3407	9747.5744	15.1541	21.8440	446.2358	19507.974	21.1744	7.0180	22.458
L4	42.9875	40.3941	8464.0370	14.4574	20.8470	406.0065	16939.211	20.2009	6.6726	21.352
	50.7231	49.2838	15372.193	17.6391	25.4000	605.2045	30764.613	24.6466	8.2500	26.4

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

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Componen t Type	Placement ft	Total Number	Number Per Row	Clear Spacing in	Width or Diamete r in	Perimete r in	Weight plf

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Componen t Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf	
*** 147 ***									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	147.00 - 0.00	12	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	0.82 0.82 0.82 0.82
FB-L98B-034- XXX(3/8)	B	No	No	Inside Pole	147.00 - 0.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.06 0.06 0.06

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight plf
WR-VG82ST-BRDA(5/8)	B	No	No	Inside Pole	147.00 - 0.00	2	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
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	147.00 - 0.00	2	2" Ice	0.00	0.31
							No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	147.00 - 0.00	1	2" Ice	0.00	0.58
							No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06

Safety Line 3/8	C	No	No	CaAa (Out Of Face)	150.00 - 0.00	1	No Ice	0.04	0.22
							1/2" Ice	0.14	0.75
							1" Ice	0.24	1.28
							2" Ice	0.44	2.34
5/8 rod/step	C	No	No	CaAa (Out Of Face)	150.00 - 0.00	1	No Ice	0.02	0.27
							1/2" Ice	0.12	0.70
							1" Ice	0.22	1.74
							2" Ice	0.42	5.65

Feed Line/Linear Appurtenances Section Areas

Tower Section n	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	150.00-104.50	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.45
		C	0.000	0.000	0.000	2.616	0.07
L2	104.50-68.75	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.38
		C	0.000	0.000	0.000	2.056	0.06
L3	68.75-34.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.37
		C	0.000	0.000	0.000	1.998	0.06
L4	34.00-0.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.36
		C	0.000	0.000	0.000	1.955	0.06

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section n	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	150.00-104.50	A	1.458	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.45
		C		0.000	0.000	0.000	29.145	0.29
L2	104.50-68.75	A	1.403	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.38
		C		0.000	0.000	0.000	22.900	0.23
L3	68.75-34.00	A	1.332	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.37
		C		0.000	0.000	0.000	21.505	0.22
L4	34.00-0.00	A	1.190	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.36
		C		0.000	0.000	0.000	20.074	0.20

Feed Line Center of Pressure

Section	Elevation	CP _x	CP _z	CP _x Ice	CP _z Ice
	ft	in	in	in	in
L1	150.00-104.50	-0.4467	0.2579	-2.0969	1.2106
L2	104.50-68.75	-0.4522	0.2611	-2.2822	1.3176
L3	68.75-34.00	-0.4551	0.2627	-2.3229	1.3411
L4	34.00-0.00	-0.4568	0.2638	-2.3021	1.3291

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
---------------	----------------------	-------------	-------------------------	--------------------------	-----------------------

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustmen t	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			ft ft ft	°				
Lighting Rod 5/8" x 5'	C	None		0.0000	152.00	No Ice 0.31 1/2" 0.83 Ice 1.32 1" Ice 1.96 2" Ice 1.96	0.31 0.83 1.32 1.96 1.96	0.03 0.03 0.04 0.07
*** 147 *** P90-14-XLH-RR w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	147.00	No Ice 5.30 1/2" 5.69 Ice 6.09 1" Ice 6.90 2" Ice 6.90	4.05 4.67 5.29 6.57 6.57	0.05 0.09 0.15 0.27
P90-14-XLH-RR w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	147.00	No Ice 5.30 1/2" 5.69 Ice 6.09 1" Ice 6.90 2" Ice 6.90	4.05 4.67 5.29 6.57 6.57	0.05 0.09 0.15 0.27
P90-14-XLH-RR w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	147.00	No Ice 5.30 1/2" 5.69 Ice 6.09 1" Ice 6.90 2" Ice 6.90	4.05 4.67 5.29 6.57 6.57	0.05 0.09 0.15 0.27
TT19-08BP111-001	A	From Leg	4.00 0.00 1.00	0.0000	147.00	No Ice 0.55 1/2" 0.64 Ice 0.74 1" Ice 0.97 2" Ice 0.97	0.44 0.53 0.63 0.84 0.84	0.02 0.02 0.03 0.05
TT19-08BP111-001	A	From Leg	4.00 0.00 1.00	0.0000	147.00	No Ice 0.55 1/2" 0.64 Ice 0.74 1" Ice 0.97 2" Ice 0.97	0.44 0.53 0.63 0.84 0.84	0.02 0.02 0.03 0.05
TT19-08BP111-001	C	From Leg	4.00 0.00 1.00	0.0000	147.00	No Ice 0.55 1/2" 0.64 Ice 0.74 1" Ice 0.97 2" Ice 0.97	0.44 0.53 0.63 0.84 0.84	0.02 0.02 0.03 0.05
DC6-48-60-18-8F	B	From Leg	4.00	0.0000	147.00	No Ice 1.21	1.21	0.02

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			0.00			1/2"	1.89	0.04
			1.00			Ice	2.11	0.07
						1" Ice	2.57	0.13
						2" Ice		
6' x 2" Mount Pipe	B	From Leg	4.00	0.0000	147.00	No Ice	1.43	0.02
			0.00			1/2"	1.92	0.03
			0.00			Ice	2.29	0.05
						1" Ice	3.06	0.09
						2" Ice		
Platform Mount [LP 601-1]	C	None		0.0000	147.00	No Ice	28.50	1.12
						1/2"	31.69	1.68
						Ice	34.87	2.28
						1" Ice	41.23	3.65
						2" Ice		
Miscellaneous [NA 507-1]	C	None		0.0000	147.00	No Ice	4.56	0.25
						1/2"	6.39	0.31
						Ice	8.18	0.40
						1" Ice	11.66	0.66
						2" Ice		
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.00	0.0000	147.00	No Ice	11.96	0.11
			0.00			1/2"	12.70	0.20
			1.00			Ice	13.46	0.30
						1" Ice	15.02	0.53
						2" Ice		
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.00	0.0000	147.00	No Ice	11.96	0.11
			0.00			1/2"	12.70	0.20
			1.00			Ice	13.46	0.30
						1" Ice	15.02	0.53
						2" Ice		
DMP65R-BU4D w/ Mount Pipe	C	From Leg	4.00	0.0000	147.00	No Ice	7.53	0.09
			0.00			1/2"	8.04	0.16
			1.00			Ice	8.57	0.22
						1" Ice	9.68	0.39
						2" Ice		
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.00	0.0000	147.00	No Ice	12.25	0.09
			0.00			1/2"	13.00	0.18
			1.00			Ice	13.76	0.27
						1" Ice	15.34	0.51
						2" Ice		
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.00	0.0000	147.00	No Ice	12.25	0.09
			0.00			1/2"	13.00	0.18
			1.00			Ice	13.76	0.27
						1" Ice	15.34	0.51
						2" Ice		
OPA65R-BU4D w/ Mount Pipe	C	From Leg	4.00	0.0000	147.00	No Ice	8.10	0.08
			0.00			1/2"	8.65	0.14
			1.00			Ice	9.21	0.21
						1" Ice	10.39	0.38
						2" Ice		
RRUS 4449 B5/B12	A	From Leg	4.00	0.0000	147.00	No Ice	1.97	0.07
			0.00			1/2"	2.14	0.09
			1.00			Ice	2.33	0.11
						1" Ice	2.72	0.16
						2" Ice		
RRUS 4449 B5/B12	B	From Leg	4.00	0.0000	147.00	No Ice	1.97	0.07
			0.00			1/2"	2.14	0.09
			1.00			Ice	2.33	0.11
						1" Ice	2.72	0.16
						2" Ice		
RRUS 4449 B5/B12	C	From Leg	4.00	0.0000	147.00	No Ice	1.97	0.07
			0.00			1/2"	2.14	0.09
			1.00			Ice	2.33	0.11
						1" Ice	2.72	0.16
						2" Ice		
RRUS 4478 B14	A	From Leg	4.00	0.0000	147.00	No Ice	1.84	0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
			0.00			1/2"	2.01	1.20	0.08
			1.00			Ice	2.19	1.34	0.09
						1" Ice	2.57	1.66	0.14
						2" Ice			
RRUS 4478 B14	B	From Leg	4.00	0.0000	147.00	No Ice	1.84	1.06	0.06
			0.00			1/2"	2.01	1.20	0.08
			1.00			Ice	2.19	1.34	0.09
						1" Ice	2.57	1.66	0.14
						2" Ice			
RRUS 4478 B14	C	From Leg	4.00	0.0000	147.00	No Ice	1.84	1.06	0.06
			0.00			1/2"	2.01	1.20	0.08
			1.00			Ice	2.19	1.34	0.09
						1" Ice	2.57	1.66	0.14
						2" Ice			
RRUS 8843 B2/B66A	A	From Leg	4.00	0.0000	147.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			1.00			Ice	1.97	1.65	0.11
						1" Ice	2.32	1.99	0.16
						2" Ice			
RRUS 8843 B2/B66A	B	From Leg	4.00	0.0000	147.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			1.00			Ice	1.97	1.65	0.11
						1" Ice	2.32	1.99	0.16
						2" Ice			
RRUS 8843 B2/B66A	C	From Leg	4.00	0.0000	147.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			1.00			Ice	1.97	1.65	0.11
						1" Ice	2.32	1.99	0.16
						2" Ice			
DC6-48-60-18-8F	A	From Leg	4.00	0.0000	147.00	No Ice	1.21	1.21	0.02
			0.00			1/2"	1.89	1.89	0.04
			1.00			Ice	2.11	2.11	0.07
						1" Ice	2.57	2.57	0.13
						2" Ice			

Load Combinations

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

Comb. No.	Description
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	150 - 104.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-13.26	-1.28	0.81
			Max. Mx	8	-5.95	-199.31	-2.17
			Max. My	2	-5.94	2.21	202.38
			Max. Vy	8	6.13	-199.31	-2.17
			Max. Vx	2	-6.21	2.21	202.38
			Max. Torque	13			0.91
L2	104.5 - 68.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-19.84	-1.08	0.70
			Max. Mx	8	-10.22	-447.64	-4.32
			Max. My	2	-10.21	4.36	453.43
			Max. Vy	8	8.18	-447.64	-4.32
			Max. Vx	2	-8.26	4.36	453.43
			Max. Torque	13			0.82
L3	68.75 - 34	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-28.82	-0.84	0.56
			Max. Mx	8	-16.56	-761.43	-6.42
			Max. My	2	-16.56	6.46	769.87
			Max. Vy	8	10.25	-761.43	-6.42
			Max. Vx	2	-10.33	6.46	769.87
			Max. Torque	13			0.73
L4	34 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.11	-0.53	0.38
			Max. Mx	8	-25.65	-1217.14	-8.84
			Max. My	2	-25.65	8.90	1228.64
			Max. Vy	8	12.53	-1217.14	-8.84
			Max. Vx	2	-12.61	8.90	1228.64
			Max. Torque	13			0.64

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	41.11	0.01	4.21
	Max. H _x	20	25.65	12.52	0.06
	Max. H _z	2	25.65	0.06	12.60
	Max. M _x	2	1228.64	0.06	12.60
	Max. M _z	8	1217.14	-12.52	-0.06
	Max. Torsion	13	0.54	-6.31	-10.94
	Min. Vert	7	19.24	-10.81	6.25
	Min. H _x	8	25.65	-12.52	-0.06
	Min. H _z	14	25.65	-0.06	-12.60
	Min. M _x	14	-1228.23	-0.06	-12.60
	Min. M _z	20	-1216.86	12.52	0.06
	Min. Torsion	25	-0.54	6.31	10.94

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	21.38	0.00	0.00	-0.16	-0.11	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	25.65	-0.06	-12.60	-1228.64	8.90	0.50
0.9 Dead+1.0 Wind 0 deg - No Ice	19.24	-0.06	-12.60	-1218.49	8.85	0.51
1.2 Dead+1.0 Wind 30 deg - No Ice	25.65	6.21	-10.88	-1059.56	-600.81	0.33
0.9 Dead+1.0 Wind 30 deg - No Ice	19.24	6.21	-10.88	-1050.80	-595.86	0.33
1.2 Dead+1.0 Wind 60 deg - No Ice	25.65	10.81	-6.25	-606.60	-1049.58	0.07
0.9 Dead+1.0 Wind 60 deg - No Ice	19.24	10.81	-6.25	-601.58	-1040.94	0.07
1.2 Dead+1.0 Wind 90 deg - No Ice	25.65	12.52	0.06	8.84	-1217.14	-0.21
0.9 Dead+1.0 Wind 90 deg - No Ice	19.24	12.52	0.06	8.80	-1207.13	-0.21
1.2 Dead+1.0 Wind 120 deg - No Ice	25.65	10.87	6.35	621.85	-1058.60	-0.43
0.9 Dead+1.0 Wind 120 deg - No Ice	19.24	10.87	6.35	616.78	-1049.88	-0.43
1.2 Dead+1.0 Wind 150 deg - No Ice	25.65	6.31	10.94	1068.17	-616.46	-0.54
0.9 Dead+1.0 Wind 150 deg - No Ice	19.24	6.31	10.94	1059.44	-611.36	-0.54
1.2 Dead+1.0 Wind 180 deg - No Ice	25.65	0.06	12.60	1228.23	-9.18	-0.50
0.9 Dead+1.0 Wind 180 deg - No Ice	19.24	0.06	12.60	1218.19	-9.05	-0.50
1.2 Dead+1.0 Wind 210 deg - No Ice	25.65	-6.21	10.88	1059.14	600.53	-0.33
0.9 Dead+1.0 Wind 210 deg - No Ice	19.24	-6.21	10.88	1050.50	595.65	-0.33
1.2 Dead+1.0 Wind 240 deg - No Ice	25.65	-10.81	6.25	606.19	1049.30	-0.07
0.9 Dead+1.0 Wind 240 deg - No Ice	19.24	-10.81	6.25	601.28	1040.74	-0.07
1.2 Dead+1.0 Wind 270 deg - No Ice	25.65	-12.52	-0.06	-9.25	1216.86	0.21
0.9 Dead+1.0 Wind 270 deg - No Ice	19.24	-12.52	-0.06	-9.10	1206.92	0.21
1.2 Dead+1.0 Wind 300 deg - No Ice	25.65	-10.87	-6.35	-622.25	1058.32	0.43
0.9 Dead+1.0 Wind 300 deg - No Ice	19.24	-10.87	-6.35	-617.08	1049.67	0.43

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
- No Ice						
1.2 Dead+1.0 Wind 330 deg	25.65	-6.31	-10.94	-1068.58	616.18	0.54
- No Ice						
0.9 Dead+1.0 Wind 330 deg	19.24	-6.31	-10.94	-1059.74	611.15	0.54
- No Ice						
1.2 Dead+1.0 Ice+1.0 Temp	41.11	0.00	-0.00	-0.38	-0.53	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	41.11	-0.01	-4.21	-400.50	1.06	-0.40
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	41.11	2.09	-3.64	-346.07	-198.15	-0.22
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	41.11	3.63	-2.10	-199.03	-344.41	0.03
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	41.11	4.20	0.01	1.23	-398.55	0.27
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	41.11	3.64	2.12	201.05	-346.06	0.43
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	41.11	2.11	3.65	346.89	-200.99	0.48
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	41.11	0.01	4.21	399.67	-2.23	0.40
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	41.11	-2.09	3.64	345.25	196.98	0.22
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	41.11	-3.63	2.10	198.21	343.25	-0.03
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	41.11	-4.20	-0.01	-2.05	397.39	-0.27
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	41.11	-3.64	-2.12	-201.88	344.89	-0.43
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	41.11	-2.11	-3.65	-347.72	199.82	-0.48
Dead+Wind 0 deg - Service	21.38	-0.01	-2.97	-287.96	2.00	0.12
Dead+Wind 30 deg - Service	21.38	1.46	-2.56	-248.35	-140.84	0.08
Dead+Wind 60 deg - Service	21.38	2.55	-1.47	-142.23	-245.98	0.02
Dead+Wind 90 deg - Service	21.38	2.95	0.01	1.95	-285.23	-0.05
Dead+Wind 120 deg - Service	21.38	2.56	1.49	145.56	-248.09	-0.10
Dead+Wind 150 deg - Service	21.38	1.49	2.58	250.13	-144.51	-0.13
Dead+Wind 180 deg - Service	21.38	0.01	2.97	287.63	-2.23	-0.12
Dead+Wind 210 deg - Service	21.38	-1.46	2.56	248.01	140.61	-0.08
Dead+Wind 240 deg - Service	21.38	-2.55	1.47	141.90	245.74	-0.02
Dead+Wind 270 deg - Service	21.38	-2.95	-0.01	-2.29	285.00	0.05
Dead+Wind 300 deg - Service	21.38	-2.56	-1.49	-145.90	247.86	0.10
Dead+Wind 330 deg - Service	21.38	-1.49	-2.58	-250.46	144.27	0.13

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-21.38	0.00	0.00	21.38	0.00	0.000%
2	-0.06	-25.65	-12.60	0.06	25.65	12.60	0.000%
3	-0.06	-19.24	-12.60	0.06	19.24	12.60	0.000%
4	6.21	-25.65	-10.88	-6.21	25.65	10.88	0.000%
5	6.21	-19.24	-10.88	-6.21	19.24	10.88	0.000%
6	10.81	-25.65	-6.25	-10.81	25.65	6.25	0.000%
7	10.81	-19.24	-6.25	-10.81	19.24	6.25	0.000%
8	12.52	-25.65	0.06	-12.52	25.65	-0.06	0.000%
9	12.52	-19.24	0.06	-12.52	19.24	-0.06	0.000%
10	10.87	-25.65	6.35	-10.87	25.65	-6.35	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
11	10.87	-19.24	6.35	-10.87	19.24	-6.35	0.000%
12	6.31	-25.65	10.94	-6.31	25.65	-10.94	0.000%
13	6.31	-19.24	10.94	-6.31	19.24	-10.94	0.000%
14	0.06	-25.65	12.60	-0.06	25.65	-12.60	0.000%
15	0.06	-19.24	12.60	-0.06	19.24	-12.60	0.000%
16	-6.21	-25.65	10.88	6.21	25.65	-10.88	0.000%
17	-6.21	-19.24	10.88	6.21	19.24	-10.88	0.000%
18	-10.81	-25.65	6.25	10.81	25.65	-6.25	0.000%
19	-10.81	-19.24	6.25	10.81	19.24	-6.25	0.000%
20	-12.52	-25.65	-0.06	12.52	25.65	0.06	0.000%
21	-12.52	-19.24	-0.06	12.52	19.24	0.06	0.000%
22	-10.87	-25.65	-6.35	10.87	25.65	6.35	0.000%
23	-10.87	-19.24	-6.35	10.87	19.24	6.35	0.000%
24	-6.31	-25.65	-10.94	6.31	25.65	10.94	0.000%
25	-6.31	-19.24	-10.94	6.31	19.24	10.94	0.000%
26	0.00	-41.11	0.00	-0.00	41.11	0.00	0.000%
27	-0.01	-41.11	-4.21	0.01	41.11	4.21	0.000%
28	2.09	-41.11	-3.64	-2.09	41.11	3.64	0.000%
29	3.63	-41.11	-2.10	-3.63	41.11	2.10	0.000%
30	4.20	-41.11	0.01	-4.20	41.11	-0.01	0.000%
31	3.64	-41.11	2.12	-3.64	41.11	-2.12	0.000%
32	2.11	-41.11	3.65	-2.11	41.11	-3.65	0.000%
33	0.01	-41.11	4.21	-0.01	41.11	-4.21	0.000%
34	-2.09	-41.11	3.64	2.09	41.11	-3.64	0.000%
35	-3.63	-41.11	2.10	3.63	41.11	-2.10	0.000%
36	-4.20	-41.11	-0.01	4.20	41.11	0.01	0.000%
37	-3.64	-41.11	-2.12	3.64	41.11	2.12	0.000%
38	-2.11	-41.11	-3.65	2.11	41.11	3.65	0.000%
39	-0.01	-21.38	-2.97	0.01	21.38	2.97	0.000%
40	1.46	-21.38	-2.56	-1.46	21.38	2.56	0.000%
41	2.55	-21.38	-1.47	-2.55	21.38	1.47	0.000%
42	2.95	-21.38	0.01	-2.95	21.38	-0.01	0.000%
43	2.56	-21.38	1.49	-2.56	21.38	-1.49	0.000%
44	1.49	-21.38	2.58	-1.49	21.38	-2.58	0.000%
45	0.01	-21.38	2.97	-0.01	21.38	-2.97	0.000%
46	-1.46	-21.38	2.56	1.46	21.38	-2.56	0.000%
47	-2.55	-21.38	1.47	2.55	21.38	-1.47	0.000%
48	-2.95	-21.38	-0.01	2.95	21.38	0.01	0.000%
49	-2.56	-21.38	-1.49	2.56	21.38	1.49	0.000%
50	-1.49	-21.38	-2.58	1.49	21.38	2.58	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00031752
3	Yes	4	0.00000001	0.00020909
4	Yes	5	0.00000001	0.00016141
5	Yes	5	0.00000001	0.00007817
6	Yes	5	0.00000001	0.00015436
7	Yes	5	0.00000001	0.00007464
8	Yes	4	0.00000001	0.00014492
9	Yes	4	0.00000001	0.00008163
10	Yes	5	0.00000001	0.00015651
11	Yes	5	0.00000001	0.00007530
12	Yes	5	0.00000001	0.00017284
13	Yes	5	0.00000001	0.00008360
14	Yes	4	0.00000001	0.00046287
15	Yes	4	0.00000001	0.00030807
16	Yes	5	0.00000001	0.00015056
17	Yes	5	0.00000001	0.00007271
18	Yes	5	0.00000001	0.00015555
19	Yes	5	0.00000001	0.00007533
20	Yes	4	0.00000001	0.00026693

21	Yes	4	0.00000001	0.00017148
22	Yes	5	0.00000001	0.00016997
23	Yes	5	0.00000001	0.00008220
24	Yes	5	0.00000001	0.00015572
25	Yes	5	0.00000001	0.00007483
26	Yes	4	0.00000001	0.00001611
27	Yes	5	0.00000001	0.00021907
28	Yes	5	0.00000001	0.00024037
29	Yes	5	0.00000001	0.00023984
30	Yes	5	0.00000001	0.00021818
31	Yes	5	0.00000001	0.00024148
32	Yes	5	0.00000001	0.00024079
33	Yes	5	0.00000001	0.00021667
34	Yes	5	0.00000001	0.00023535
35	Yes	5	0.00000001	0.00023441
36	Yes	5	0.00000001	0.00021441
37	Yes	5	0.00000001	0.00023890
38	Yes	5	0.00000001	0.00024105
39	Yes	4	0.00000001	0.00002633
40	Yes	4	0.00000001	0.00006676
41	Yes	4	0.00000001	0.00005893
42	Yes	4	0.00000001	0.00001883
43	Yes	4	0.00000001	0.00005773
44	Yes	4	0.00000001	0.00007508
45	Yes	4	0.00000001	0.00002778
46	Yes	4	0.00000001	0.00005514
47	Yes	4	0.00000001	0.00005998
48	Yes	4	0.00000001	0.00001972
49	Yes	4	0.00000001	0.00007185
50	Yes	4	0.00000001	0.00005740

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt c	Twist c
L1	150 - 104.5	13.915	50	0.8895	0.0048
L2	108.75 - 68.75	7.000	50	0.6468	0.0013
L3	74 - 34	3.137	50	0.4012	0.0005
L4	40 - 0	0.925	50	0.2100	0.0002

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt o	Twist o	Radius of Curvature ft
152.00	Lighting Rod 5/8" x 5'	50	13.915	0.8895	0.0048	50399
147.00	P90-14-XLH-RR w/ Mount Pipe	50	13.372	0.8732	0.0045	50399

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt c	Twist c
L1	150 - 104.5	59.417	24	3.7995	0.0202
L2	108.75 - 68.75	29.896	24	2.7644	0.0053
L3	74 - 34	13.397	24	1.7140	0.0019
L4	40 - 0	3.950	24	0.8968	0.0007

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
152.00	Lighting Rod 5/8" x 5'	24	59.417	3.7995	0.0203	11897
147.00	P90-14-XLH-RR w/ Mount Pipe	24	57.098	3.7300	0.0190	11897

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u φP _n
L1	150 - 104.5 (1)	TP28.1875x18x0.1875	45.50	0.00	0.0	16.097 2	-5.94	941.69	0.006
L2	104.5 - 68.75 (2)	TP35.75x26.8609x0.25	40.00	0.00	0.0	27.243 5	-10.21	1593.74	0.006
L3	68.75 - 34 (3)	TP43x34.0833x0.3125	40.00	0.00	0.0	41.014 0	-16.56	2399.32	0.007
L4	34 - 0 (4)	TP50x41.0375x0.3125	40.00	0.00	0.0	49.283 8	-25.65	2883.10	0.009

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{nx} kip-ft	Ratio M _{ux} φM _{nx}	M _{uy} kip-ft	φM _{ny} kip-ft	Ratio M _{uy} φM _{ny}
L1	150 - 104.5 (1)	TP28.1875x18x0.1875	203.56	583.66	0.349	0.00	583.66	0.000
L2	104.5 - 68.75 (2)	TP35.75x26.8609x0.25	455.80	1278.26	0.357	0.00	1278.26	0.000
L3	68.75 - 34 (3)	TP43x34.0833x0.3125	773.40	2349.59	0.329	0.00	2349.59	0.000
L4	34 - 0 (4)	TP50x41.0375x0.3125	1233.51	3146.22	0.392	0.00	3146.22	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V _u K	φV _n K	Ratio V _u φV _n	Actual T _u kip-ft	φT _n kip-ft	Ratio T _u φT _n
L1	150 - 104.5 (1)	TP28.1875x18x0.1875	6.24	282.51	0.022	0.84	669.19	0.001
L2	104.5 - 68.75 (2)	TP35.75x26.8609x0.25	8.29	478.12	0.017	0.75	1437.59	0.001
L3	68.75 - 34 (3)	TP43x34.0833x0.3125	10.36	719.80	0.014	0.65	2606.54	0.000
L4	34 - 0 (4)	TP50x41.0375x0.3125	12.64	864.93	0.015	0.54	3763.64	0.000

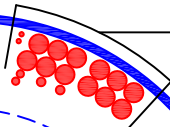
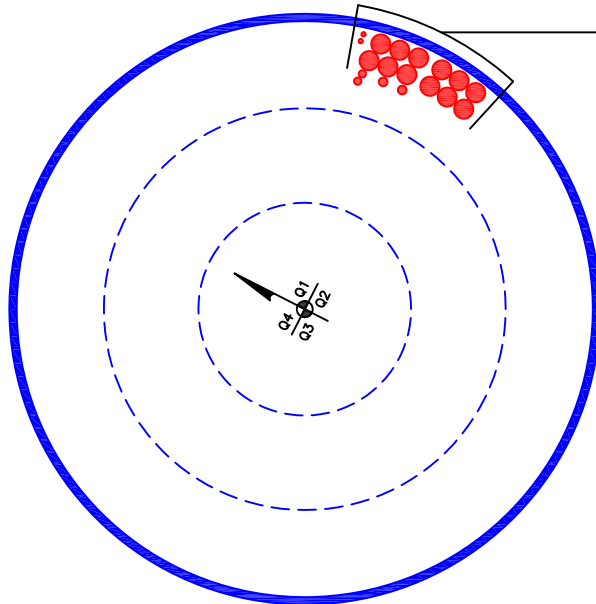
Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		ϕP_n	ϕM_{rx}	ϕM_{ry}	ϕV_n	ϕT_n			
L1	150 - 104.5 (1)	0.006	0.349	0.000	0.022	0.001	0.356	1.050	4.8.2
L2	104.5 - 68.75 (2)	0.006	0.357	0.000	0.017	0.001	0.363	1.050	4.8.2
L3	68.75 - 34 (3)	0.007	0.329	0.000	0.014	0.000	0.336	1.050	4.8.2
L4	34 - 0 (4)	0.009	0.392	0.000	0.015	0.000	0.401	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 104.5	Pole	TP28.1875x18x0.1875	1	-5.94	988.77	33.9	Pass
L2	104.5 - 68.75	Pole	TP35.75x26.8609x0.25	2	-10.21	1673.43	34.6	Pass
L3	68.75 - 34	Pole	TP43x34.0833x0.3125	3	-16.56	2519.29	32.0	Pass
L4	34 - 0	Pole	TP50x41.0375x0.3125	4	-25.65	3027.25	38.2	Pass
Summary								
Pole (L4)							38.2	Pass
RATING =							38.2	Pass

APPENDIX B
BASE LEVEL DRAWING



(PROPOSED EQUIPMENT CONFIGURATION)
(2) 3/8" TO 147 FT LEVEL
(2) 5/8" TO 147 FT LEVEL
(2) 3/4" TO 147 FT LEVEL
(12) 1-5/8" TO 147 FT LEVEL

APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

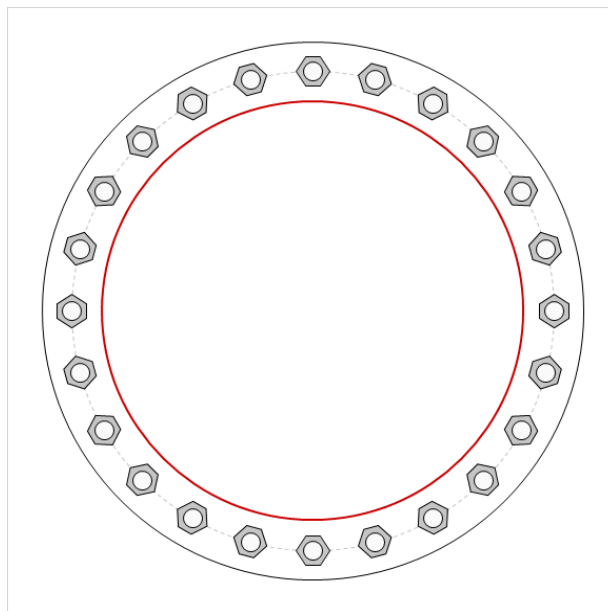


Site Info	
BU #	857528
Site Name	DODBURY PAPER MILL
Order #	517045, Rev. 0

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

Applied Loads	
Moment (kip-ft)	1233.51
Axial Force (kips)	25.65
Shear Force (kips)	12.64

*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data	
(24) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 57" BC	

Base Plate Data	
64" OD x 2.25" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi)	

Stiffener Data	
N/A	

Pole Data	
50" x 0.3125" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)	

Anchor Rod Summary		<i>(units of kips, kip-in)</i>	
$Pu_c = 44.32$	$\phi Pn_c = 268.39$		Stress Rating
$Vu = 0.53$	$\phi Vn = 120.77$		15.7%
$Mu = n/a$	$\phi Mn = n/a$		Pass

Base Plate Summary		
Max Stress (ksi):	11.42	(Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	24.2%	Pass

Pier and Pad Foundation



BU # : 857528
Site Name: WOODBURY PAP
App. Number: 517045, Rev. 0

TIA-222 Revision: H
Tower Type: Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp} :	26	kips
Base Shear, $V_{u,comp}$:	13	kips
Moment, M_u :	1234	ft-kips
Tower Height, H :	150	ft
BP Dist. Above Fdn, bp_{dist} :	4.25	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	64.98	13.00	19.1%	Pass
<i>Bearing Pressure (ksf)</i>	9.00	1.47	15.5%	Pass
<i>Overturing (kip*ft)</i>	3208.30	1297.10	40.4%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	6213.36	1260.00	19.3%	Pass
<i>Pier Compression (kip)</i>	21120.36	37.95	0.2%	Pass
<i>Pad Flexure (kip*ft)</i>	4232.26	443.47	10.0%	Pass
<i>Pad Shear - 1-way (kips)</i>	685.65	74.04	10.3%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.190	0.021	10.4%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	4903.88	756.00	14.7%	Pass

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

*Rating per TIA-222-H Section 15.5

Soil Rating*:	40.4%
Structural Rating*:	19.3%

Pad Properties		
Depth, D :	4	ft
Pad Width, W :	24	ft
Pad Thickness, T :	2.5	ft
Pad Rebar Size (Bottom), Sp :	10	
Pad Rebar Quantity (Bottom), mp :	31	
Pad Clear Cover, cc_{pad} :	3	in

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

Soil Properties		
Total Soil Unit Weight, γ :	90	pcf
Ultimate Gross Bearing, Q_{ult} :	12.000	ksf
Cohesion, Cu :	0.000	ksf
Friction Angle, ϕ :	0	degrees
SPT Blow Count, N_{blows} :	79	
Base Friction, μ :	0.3	
Neglected Depth, N :	4.17	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, gw :	n/a	ft

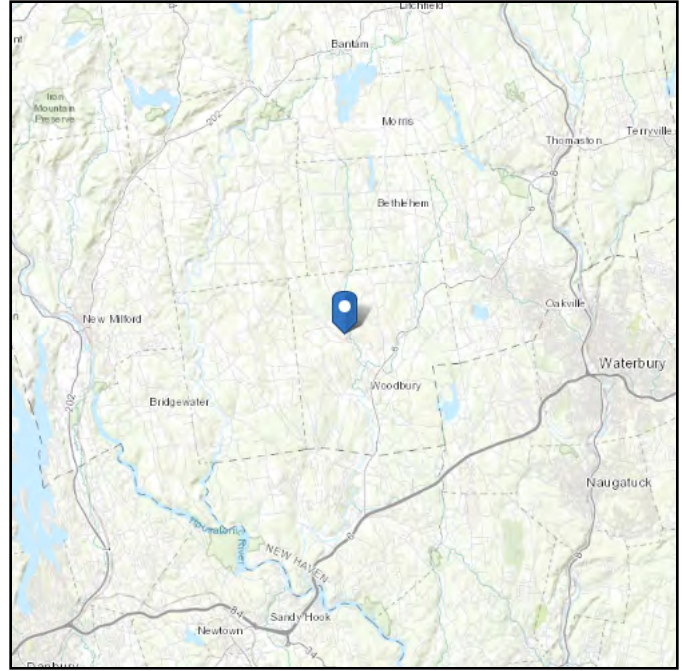
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ASCE 7 Hazards Report

Address:
No Address at This
Location

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

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

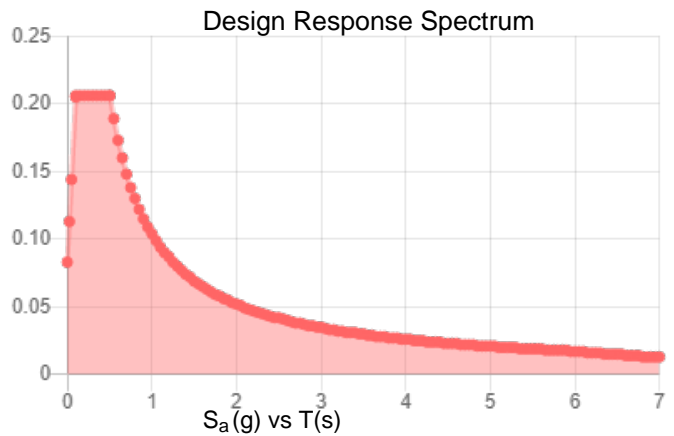
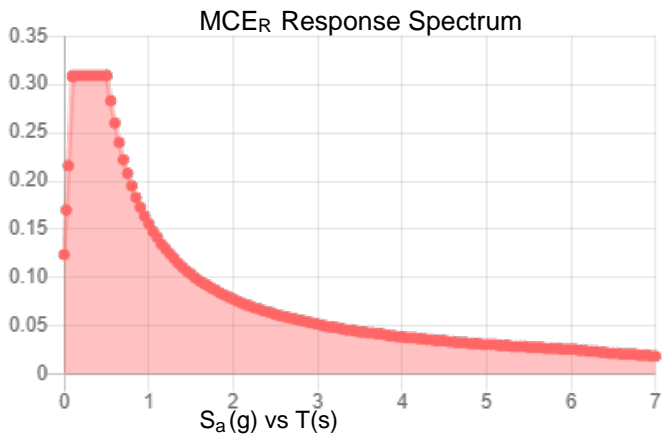


Site Soil Class: D - Stiff Soil

Results:

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

Seismic Design Category B



Data Accessed:

Mon Jun 08 2020

Date Source:

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

Ice

Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

Date Accessed: Mon Jun 08 2020

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

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

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

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

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Exhibit E

Mount Analysis

May 26, 2020

Darcy Tarr
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277
(704) 405-6589



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

Subject: **Mount Modification Analysis**

Carrier Designation: **AT&T Mobility Reconfiguration**
Client Site Name: WOODBURY PAPER MILL RD
FA Location Code: 10128161

Crown Castle Designation: **Crown Castle BU Number:** 857528
Crown Castle Site Name: WOODBURY PAPER MILL RD
Crown Castle JDE Job Number: 605401
Crown Castle Order Number: 517045 Rev. 0

Engineering Firm Designation: **TEP Project Number:** 218217.416540

Site Data: **85 Paper Mill Road, Woodbury, Litchfield County, CT 06798**
Latitude 41° 34' 23.07", Longitude -73° 13' 39.51"

Structure Information: **Tower Height & Type:** 150± ft Monopole
Mount Elevation: 147 ft
Mount Width & Type: 12.5 ft Platform w/ Handrail

Dear Darcy Tarr,

Tower Engineering Professionals is pleased to submit this “**Mount Modification Analysis**” to determine the structural integrity of AT&T Mobility’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:

Platform w/ Support Rail Mount

Sufficient Capacity

The analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 115 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Stephen J. Lee / SDJ

Respectfully submitted by:

Aaron T. Rucker, P.E.
Structural Division Manager



Electronic Copy

05/26/2020

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1) INTRODUCTION

The mount is an existing 12.5-ft Platform w/ Support Rail mount, designed by Sabre.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	115 mph
Exposure Category:	B
Topographic Category at Base:	1
Topographic Category at Mount:	1
Ice Thickness:	1.0 in
Wind Speed with Ice:	50 mph
Seismic Design Category:	B
Seismic S_s:	0.192
Seismic S_1:	0.054
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
147	148	3	Powerwave Technologies	P90-14-XLH-RR	Platform w/ Support Rail Mount
		2	CCI Antennas	DMP65R-BU6D	
		2	CCI Antennas	OPA65R-BU6D	
		1	CCI Antennas	DMP65R-BU4D	
		1	CCI Antennas	OPA65R-BU4D	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 4478 B14	
		3	Ericsson	RRUS 8843 B2/B66A	
		3	Powerwave Technologies	TT19-08BP111-001	
		2	Raycap	DC6-48-60-18-8F	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Previous Mount Analysis	Tower Engineering Professionals	218217.406160	TEP
Mount Manufacturer Drawings	Sabre	C10851001	TEP
Loading Application	AT&T Mobility	Order 517045 Rev. 0	CCIsites

3.1) Analysis Method

RISA-3D (Version 17.0.2), 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 C)*.

In addition, this analysis is in accordance with AT&T's *Mount Technical Guidance – Revision 15*

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 (Platform w/ Handrail Mount)

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	FF-H2-1	147	41.1	Pass
1	Handrail	HR3	147	24.7	Pass
1	Support Horizontals	SA1	147	39.8	Pass
1	Internals	GS14	147	55.3	Pass
1	Mount Pipes	MP-5	147	38.5	Pass
2	Connection Bolts	-	147	27.1	Pass
2	Connection Plate	-	147	76.2	Pass

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

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.

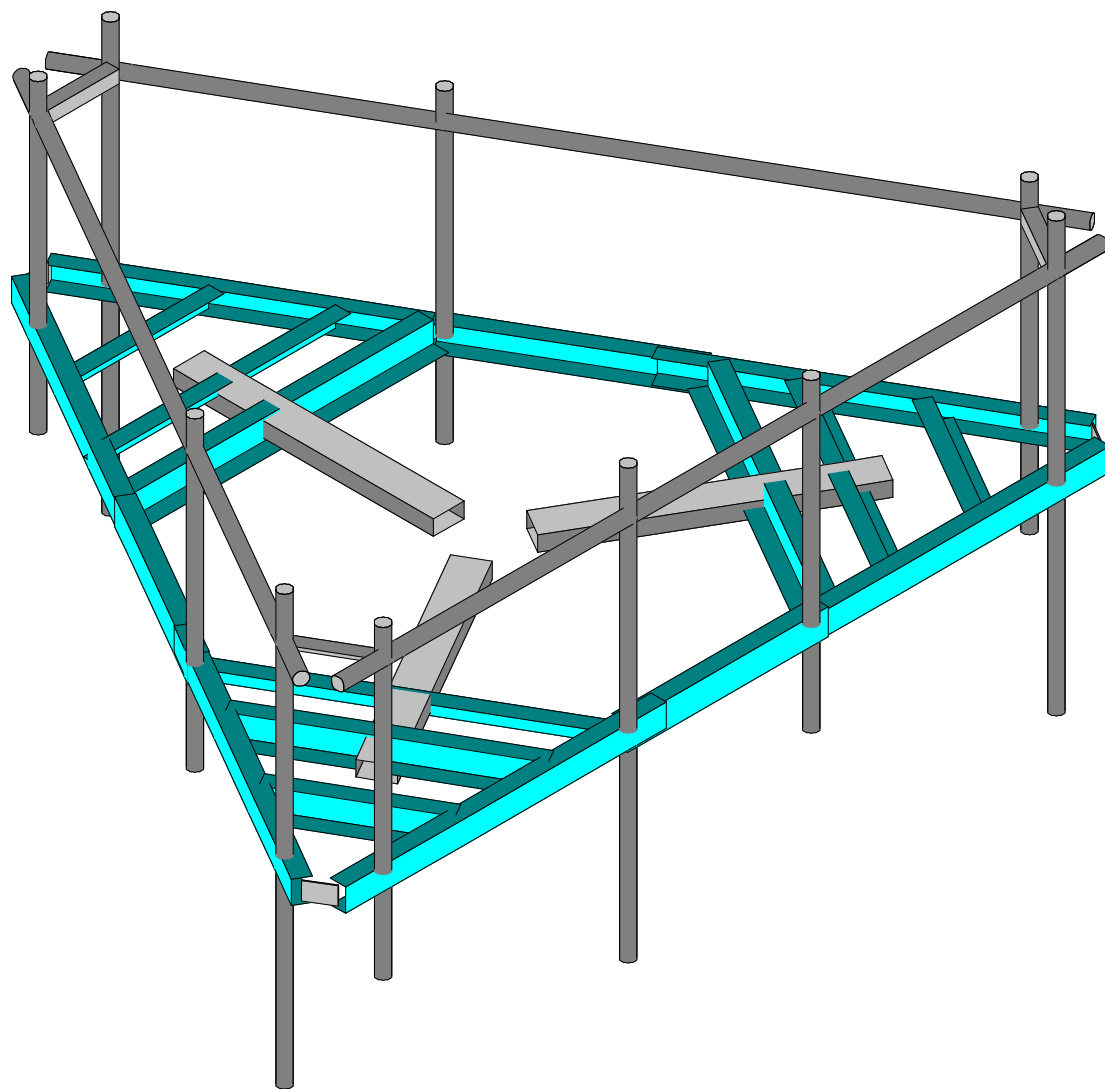
Table 4 - Tieback Connection Data Table

Tower Connection Node No.	Existing/ Proposed	Resultant End Reaction (lb)	Connected Member Type	Connected Member Size	Member Compressive Capacity (lb)	Notes
-	-	-	-	-	-	-

4.1) Recommendations

- 1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The modifications depicted in "Appendix E – Mount Modification Design Drawings" shall be installed and, upon completion, inspected. The mount has sufficient capacity to support the proposed loading configuration once the proposed modifications listed below are completed.
 - a) Top-Rail kit, SitePro Part No. HRK12

APPENDIX A
WIRE FRAME AND RENDERED MODELS



Envelope Only Solution

Tower Engineering Profess...

SJL

TEP No. 218217.416540

CCI BU No 857528

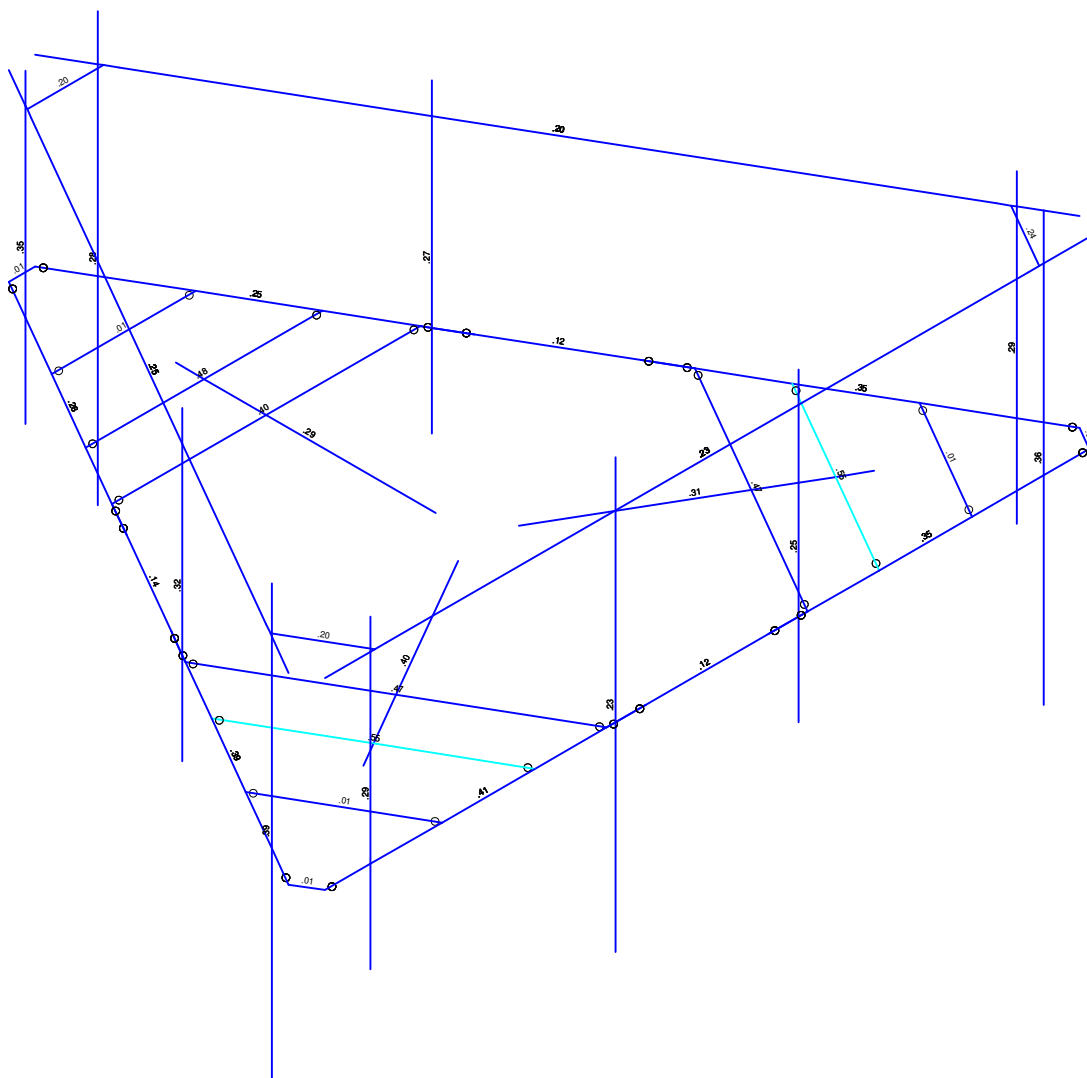
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May 26, 2020 at 3:01 PM

Mount Rev H.r3d



Code Check	
(Envy)	
■	No Calc
■	> 1.0
■	50-1.0
■	75-90
■	50-75
■	0-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

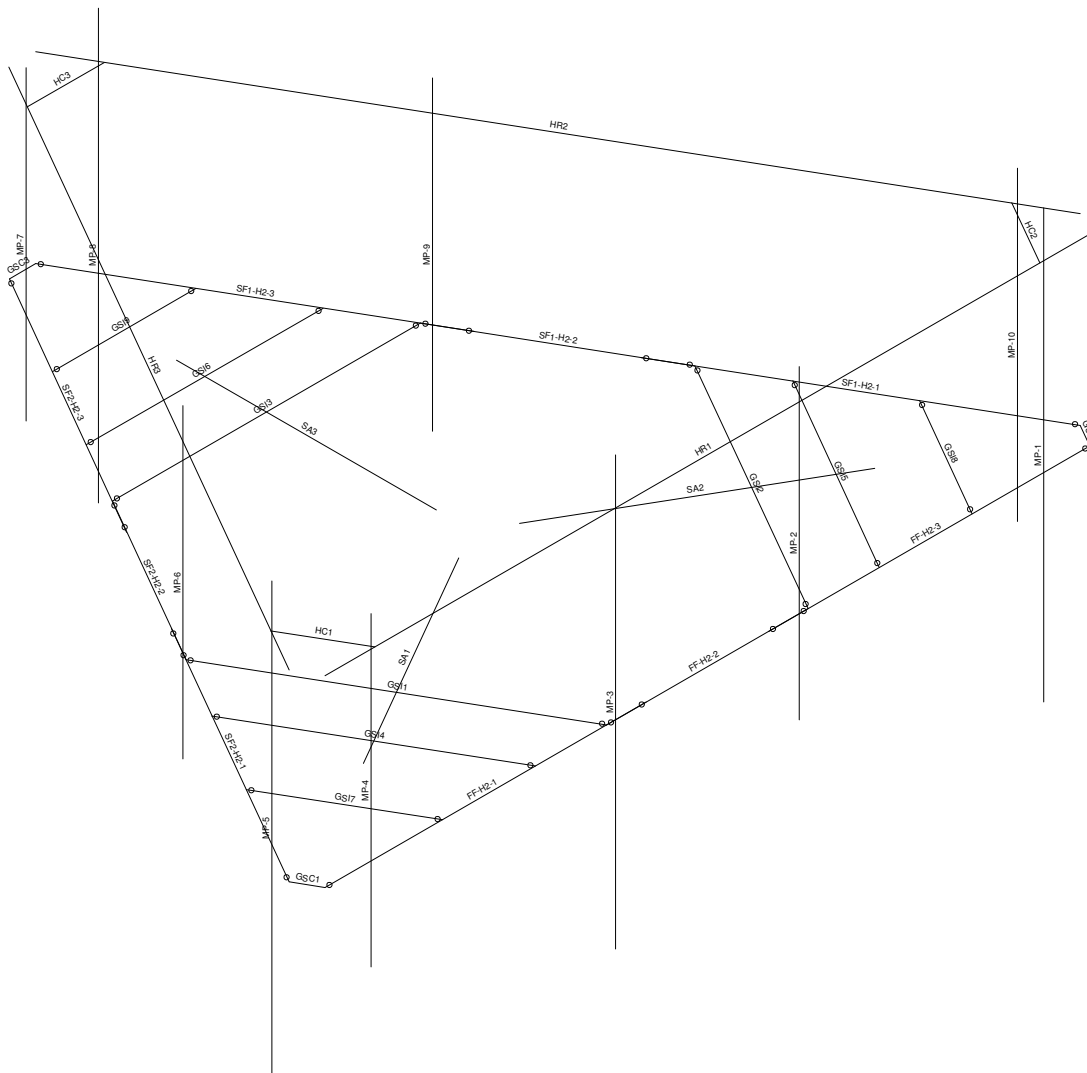
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SK - 3

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Mount Rev H.r3d

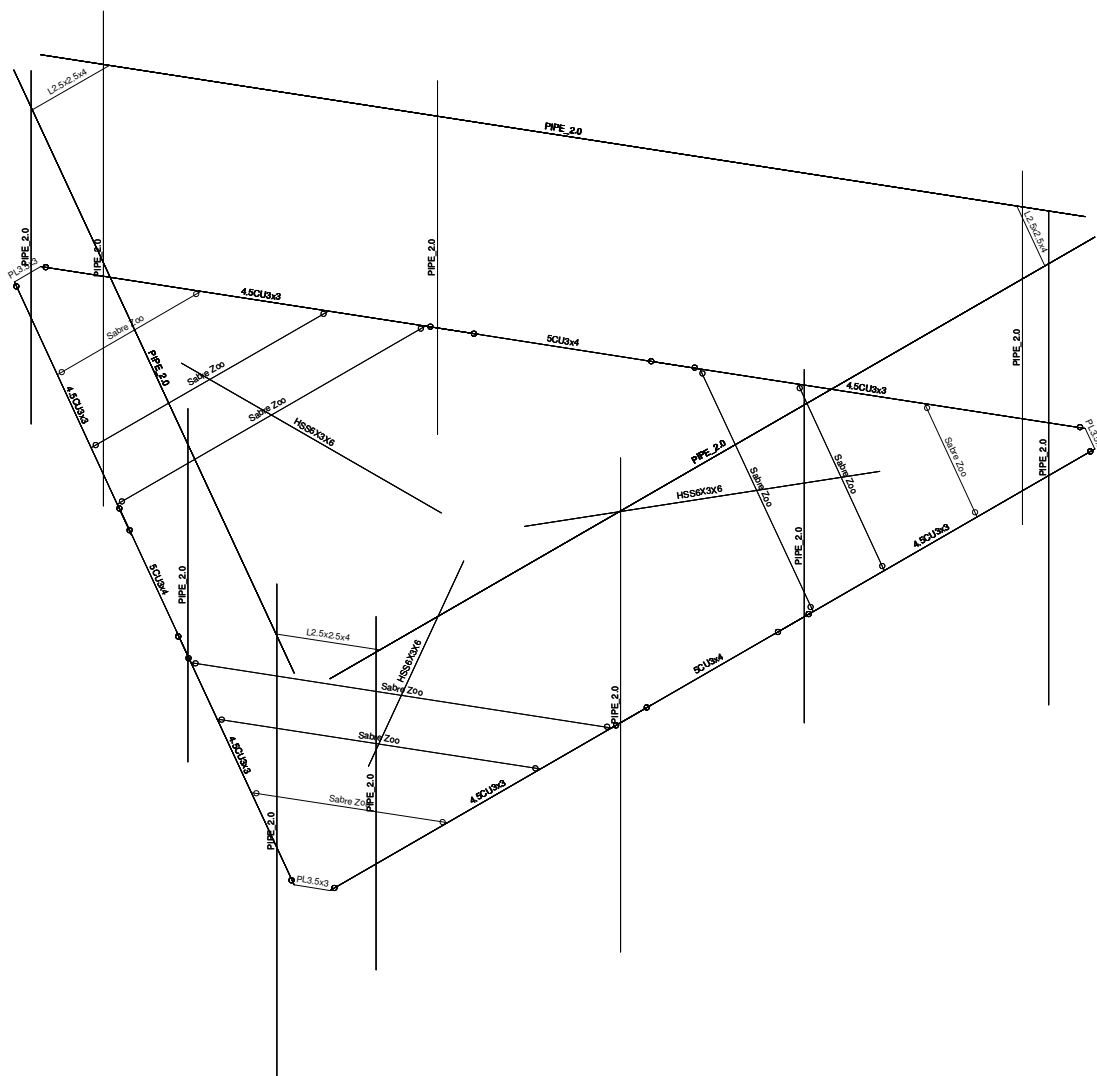


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CCI BU No 857528

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Mount Rev H.r3d



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Tower Engineering Profess...

SJL

TEP No. 218217.416540

CCI BU No 857528

SK - 5

May 26, 2020 at 3:19 PM

Mount Rev H.r3d

APPENDIX B
SOFTWARE INPUT CALCULATIONS



Code Revisions:	TIA-222-H	IBC 2018
Tower Type:	Monopole	

Wind Inputs:

Ult. Wind Velocity:	115.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	147.0	ft
Antenna Centerline:	148.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	528.06	ft

Wind Calculations:

K_{zt}:	1.000	Section 2.6.6
K_d:	0.950	
K_{z-Mount}:	1.103	Section 2.6.5.2
K_{z-Antenna}:	1.105	Section 2.6.5.2
K_{iz}:	1.162	Section 2.6.10
Ice Thickness:	1.162	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
(q_zG_h)_{Mount}:	34.81	(q_zG_h)_{Mount}:	6.58
(q_zG_h)_{Antenna}:	34.88	(q_zG_h)_{Antenna}:	6.59



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

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

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	60.20	0.00	1	Flat	MP-1	0.75	5.75	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	90.00	1	Flat	MP-1	2.50		
Ericsson	RRUS 8843 B2/B66A	14.90	13.20	10.90	72.00	90.00	1	Flat	MP-1	2.50		
Ericsson	RRUS 4478 B14	16.50	13.40	7.70	59.90	0.00	1	Flat	MP-1	6.00		
Powerwave Technologies	P90-14-XLH-RR	48.00	12.00	6.00	30.00	0.00	1	Flat	MP-2	0.25	4.25	
Powerwave Technologies	TT19-08BP111-001	9.90	6.70	5.40	16.00	0.00	1	Flat	MP-2	2.50		
Raycap	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	0.00	1	Round	MP-3	1.00		
Raycap	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	0.00	1	Round	MP-3	3.00		
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	79.40	0.00	1	Flat	MP-4	0.25	4.75	
Powerwave Technologies	TT19-08BP111-001	9.90	6.70	5.40	16.00	0.00	1	Flat	MP-4	2.50		
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	60.20	120.00	1	Flat	MP-5	0.75	5.75	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	210.00	1	Flat	MP-5	2.50		
Ericsson	RRUS 8843 B2/B66A	14.90	13.20	10.90	72.00	210.00	1	Flat	MP-5	2.50		
Ericsson	RRUS 4478 B14	16.50	13.40	7.70	59.90	120.00	1	Flat	MP-5	6.00		
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	79.40	120.00	1	Flat	MP-6	0.25	4.75	
Powerwave Technologies	TT19-08BP111-001	9.90	6.70	5.40	16.00	120.00	1	Flat	MP-6	3.00		
Powerwave Technologies	P90-14-XLH-RR	48.00	12.00	6.00	30.00	120.00	1	Flat	MP-7	0.25	4.25	
CCI Antennas	OPA65R-BU4D	48.00	21.00	7.80	52.50	240.00	1	Flat	MP-8	0.25	4.25	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	330.00	1	Flat	MP-8	2.50		
Ericsson	RRUS 8843 B2/B66A	14.90	13.20	10.90	72.00	330.00	1	Flat	MP-8	2.50		
Ericsson	RRUS 4478 B14	16.50	13.40	7.70	59.90	240.00	1	Flat	MP-8	6.00		
CCI Antennas	DMP65R-BU4D	48.00	20.70	7.70	67.90	240.00	1	Flat	MP-9	0.25	4.25	
Powerwave Technologies	P90-14-XLH-RR	48.00	12.00	6.00	30.00	240.00	1	Flat	MP-10	0.25	4.25	



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

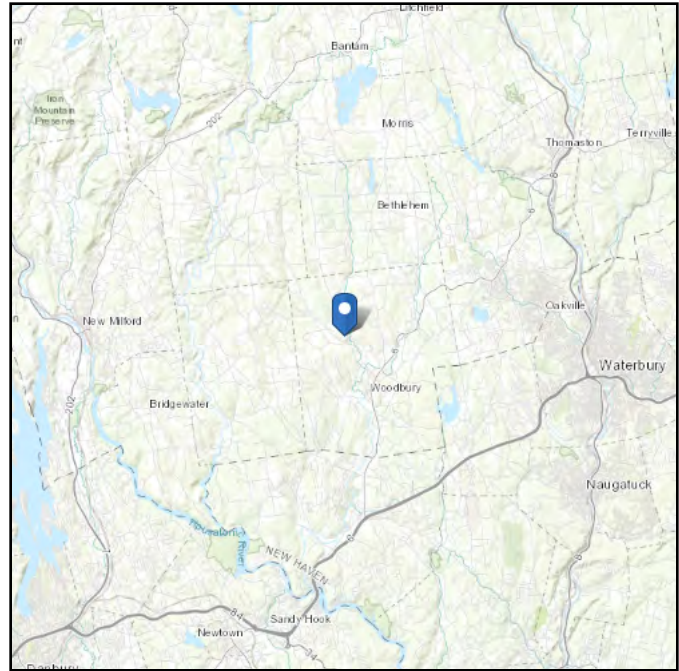
Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
SA1	3.000	51.00	Flat	-60.00	18.00
SA2	3.000	51.00	Flat	60.00	18.00
SA3	3.000	51.00	Flat	0.00	18.00
GSI1	4.063	60.48	Flat	30.00	14.13
GSI2	4.063	60.48	Flat	-30.00	14.13
GSI3	4.063	60.48	Flat	90.00	14.13
FF-H2-3	4.500	63.00	Flat	90.00	15.00
SF1-H2-3	4.500	63.00	Flat	30.00	15.00
SF2-H2-1	4.500	63.00	Flat	-30.00	15.00
GSI4	4.063	46.48	Flat	30.00	14.13
GSI5	4.063	46.48	Flat	-30.00	14.13
GSI6	4.063	46.48	Flat	90.00	14.13
GSI7	4.063	28.22	Flat	30.00	14.13
GSI8	4.063	28.22	Flat	-30.00	14.13
GSI9	4.063	28.22	Flat	90.00	14.13
GSC2	3.500	5.20	Flat	-30.00	14.00
GSC1	3.500	5.20	Flat	30.00	14.00
GSC3	3.500	5.20	Flat	90.00	14.00
SF1-H2-2	5.125	39.44	Flat	30.00	16.25
FF-H2-2	5.125	39.44	Flat	90.00	16.25
SF2-H2-2	5.125	39.44	Flat	-30.00	16.25
SF1-H2-1	4.500	63.00	Flat	30.00	15.00
FF-H2-1	4.500	63.00	Flat	90.00	15.00
SF2-H2-3	4.500	63.00	Flat	-30.00	15.00
MP-1	2.375	84.00	Round		7.46
MP-2	2.375	60.00	Round		7.46
MP-3	2.375	84.00	Round		7.46
MP-4	2.375	60.00	Round		7.46
MP-5	2.375	84.00	Round		7.46
MP-6	2.375	60.00	Round		7.46
MP-7	2.375	60.00	Round		7.46
MP-8	2.375	84.00	Round		7.46
MP-9	2.375	60.00	Round		7.46
MP-10	2.375	60.00	Round		7.46
HR1	2.375	150.00	Round	90.00	7.46
HR2	2.375	150.00	Round	30.00	7.46
HR3	2.375	150.00	Round	-30.00	7.46
HC1	2.500	15.00	Flat	30.00	10.00
HC2	2.500	15.00	Flat	-30.00	10.00
HC3	2.500	15.00	Flat	90.00	10.00

ASCE 7 Hazards Report

Address:
No Address at This Location

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

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



Wind

Results:

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

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4

Date Accessed: Mon Apr 20 2020

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

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

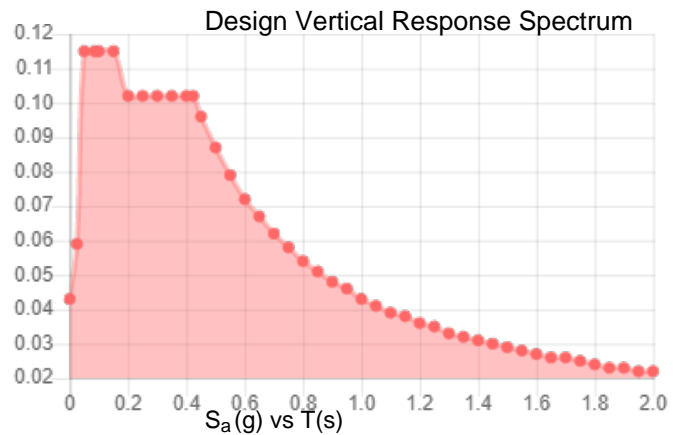
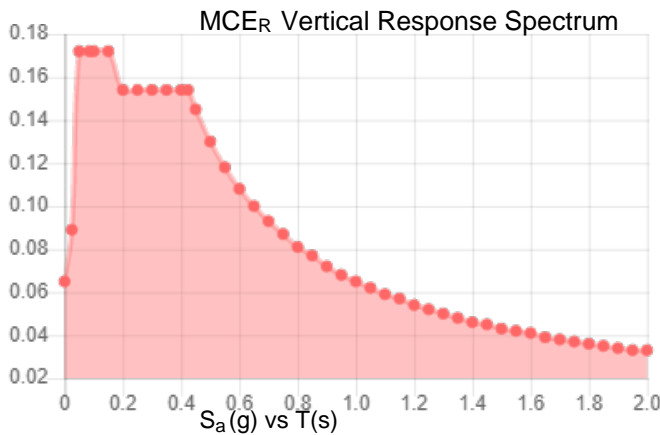
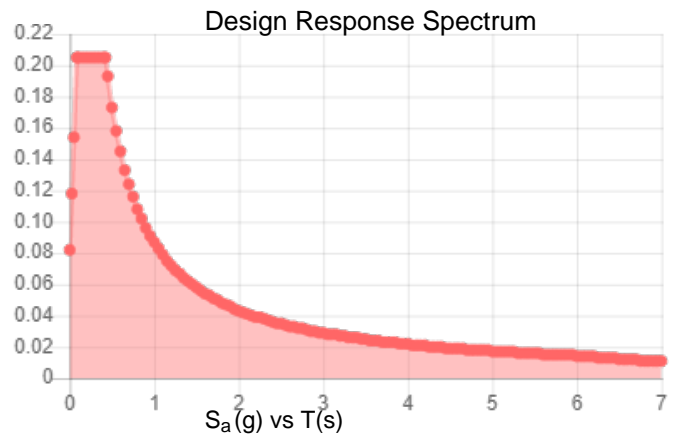
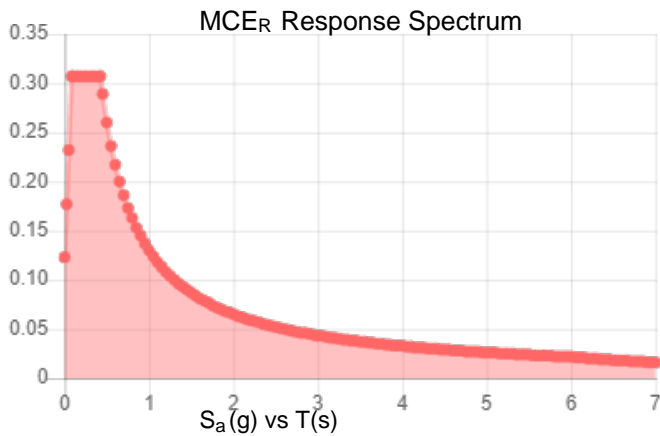
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

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

Results:

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

Seismic Design Category B



Data Accessed:

Mon Apr 20 2020

Date Source:

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

Ice

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Mon Apr 20 2020

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

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

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

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APPENDIX C
SOFTWARE ANALYSIS OUTPUT



Company : Tower Engineering Professionals
 Designer : S.JL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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 3:24 PM
 Checked By: SDJ

(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	AISI S100-16: LRFD
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
Parame Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	Yes
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



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(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 (1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipes	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Support Arms	HSS6X3X6	None	None	A500 Gr.B...	Typical	5.48	7.48	22.7	19.3
3	Bottom Connection...	PL3.5x3	None	None	A36 Gr.36	Typical	.656	.002	.67	.007
4	HRK12	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
5	Handrail Conenction	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Grating Internal	Sabre Zoo	None	None	A36	Typical	1.766	3.076	4.794	.021
2	Main Horizontal	4.5CU3x3	None	None	A36	Typical	1.843	1.702	6.051	.022
3	Middle Horizo...	5CU3x4	None	None	A36	Typical	2.549	2.272	10.277	.053



Company : Tower Engineering Professionals
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 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	Hot Rolled Steel				
2	A36 Gr.36	PL3.5x3	3	1.3	0
3	A36 Gr.36	L2.5x2.5x4	3	3.8	0
4	A500 Gr.B Rect	HSS6X3X6	3	12.8	.3
5	A53 Gr.B	PIPE 2.0	13	95.5	.3
6	Total HR Steel		22	113.3	.6
7					
8	Cold Formed Steel				
9	A36	4.5CU3x3	6	31.5	.2
10	A36	5CU3x4	3	9.9	0
11	A36	Sabre Zoo	9	33.8	.2
12	Total CF Steel		18	75.2	.5

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	SA1	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA2	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA3	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design Rules
1	SA1	SA1	SA4	90	Support Arms	None	None	A500 Gr...	Typical
2	SA2	SA2	SA5	90	Support Arms	None	None	A500 Gr...	Typical
3	SA3	SA3	SA6	90	Support Arms	None	None	A500 Gr...	Typical
4	GSI1	GSI1	GSI2		Grating Internal	None	None	A36	Typical
5	GSI2	GSI3	GSI4		Grating Internal	None	None	A36	Typical
6	GSI3	GSI5	GSI6	180	Grating Internal	None	None	A36	Typical
7	FF-H2-3	FF2	FF4		Main Horizontal	None	None	A36	Typical
8	SF1-H2-3	SF1-2	SF1-4		Main Horizontal	None	None	A36	Typical
9	SF2-H2-1	SF2-2	SF2-4		Main Horizontal	None	None	A36	Typical
10	GSI4	GSI8	GSI7		Grating Internal	None	None	A36	Typical
11	GSI5	GSI10	GSI9		Grating Internal	None	None	A36	Typical
12	GSI6	GSI12	GSI11		Grating Internal	None	None	A36	Typical
13	GSI7	GSI14	GSI13		Grating Internal	None	None	A36	Typical
14	GSI8	GSI16	GSI15		Grating Internal	None	None	A36	Typical
15	GSI9	GSI18	GSI17		Grating Internal	None	None	A36	Typical
16	GSC2	SF1-1	FF2		Bottom Connection Plate	None	None	A36 Gr...	Typical
17	GSC1	FF1	SF2-2		Bottom Connection Plate	None	None	A36 Gr...	Typical
18	GSC3	SF2-1	SF1-2		Bottom Connection Plate	None	None	A36 Gr...	Typical
19	SF1-H2-2	GSI5	GSI4		Middle Horizontal	None	None	A36	Typical
20	FF-H2-2	GSI3	GSI2		Middle Horizontal	None	None	A36	Typical
21	SF2-H2-2	GSI1	GSI6		Middle Horizontal	None	None	A36	Typical
22	SF1-H2-1	SF1-3	SF1-1		Main Horizontal	None	None	A36	Typical
23	FF-H2-1	FF3	FF1		Main Horizontal	None	None	A36	Typical
24	SF2-H2-3	SF2-3	SF2-1		Main Horizontal	None	None	A36	Typical
25	MP-1	N52	N54		Mount Pipes	None	None	A53 Gr.B	Typical
26	MP-2	N48	N50		Mount Pipes	None	None	A53 Gr.B	Typical
27	MP-3	N51	N53		Mount Pipes	None	None	A53 Gr.B	Typical



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design Rules
28	MP-4	N47	N49		Mount Pipes	None	None	A53 Gr.B	Typical
29	MP-5	N59	N60		Mount Pipes	None	None	A53 Gr.B	Typical
30	MP-6	N56	N58		Mount Pipes	None	None	A53 Gr.B	Typical
31	MP-7	N55	N57		Mount Pipes	None	None	A53 Gr.B	Typical
32	MP-8	N65	N66		Mount Pipes	None	None	A53 Gr.B	Typical
33	MP-9	N62	N64		Mount Pipes	None	None	A53 Gr.B	Typical
34	MP-10	N61	N63		Mount Pipes	None	None	A53 Gr.B	Typical
35	HR1	N74	N73		HRK12	None	None	A53 Gr.B	Typical
36	HR2	N76	N75		HRK12	None	None	A53 Gr.B	Typical
37	HR3	N78	N77		HRK12	None	None	A53 Gr.B	Typical
38	HC1	N96	N97	180	Handrail Conenction	None	None	A36 Gr....	Typical
39	HC2	N102	N95	180	Handrail Conenction	None	None	A36 Gr....	Typical
40	HC3	N98	N101	180	Handrail Conenction	None	None	A36 Gr....	Typical

Member Advanced Data

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	SA1					Yes	** NA **			None
2	SA2					Yes	** NA **			None
3	SA3					Yes	** NA **			None
4	GSI1	BenPIN	BenPIN			Yes	** NA **			None
5	GSI2	BenPIN	BenPIN			Yes	** NA **			None
6	GSI3	BenPIN	BenPIN			Yes	** NA **			None
7	FF-H2-3	BenPIN	BenPIN			Yes	** NA **			None
8	SF1-H2-3	BenPIN	BenPIN			Yes	** NA **			None
9	SF2-H2-1	BenPIN	BenPIN			Yes	** NA **			None
10	GSI4	BenPIN	BenPIN			Yes	** NA **			None
11	GSI5	BenPIN	BenPIN			Yes	** NA **			None
12	GSI6	BenPIN	BenPIN			Yes	** NA **			None
13	GSI7	BenPIN	BenPIN			Yes	** NA **			None
14	GSI8	BenPIN	BenPIN			Yes	** NA **			None
15	GSI9	BenPIN	BenPIN			Yes	** NA **			None
16	GSC2					Yes	** NA **			None
17	GSC1					Yes	** NA **			None
18	GSC3					Yes	** NA **			None
19	SF1-H2-2	BenPIN	BenPIN			Yes	** NA **			None
20	FF-H2-2	BenPIN	BenPIN			Yes	** NA **			None
21	SF2-H2-2	BenPIN	BenPIN			Yes	** NA **			None
22	SF1-H2-1	BenPIN	BenPIN			Yes	** NA **			None
23	FF-H2-1	BenPIN	BenPIN			Yes	** NA **			None
24	SF2-H2-3	BenPIN	BenPIN			Yes	** NA **			None
25	MP-1					Yes	** NA **			None
26	MP-2					Yes	** NA **			None
27	MP-3					Yes	** NA **			None
28	MP-4					Yes	** NA **			None
29	MP-5					Yes	** NA **			None
30	MP-6					Yes	** NA **			None
31	MP-7					Yes	** NA **			None
32	MP-8					Yes	** NA **			None
33	MP-9					Yes	** NA **			None
34	MP-10					Yes	** NA **			None



Company : Tower Engineering Professionals
 Designer : S.J.L
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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Member Advanced Data (Continued)

Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat.	Analysis ...	Inactive	Seismic...
35	HR1					Yes	** NA **			None
36	HR2					Yes	** NA **			None
37	HR3					Yes	** NA **			None
38	HC1					Yes	** NA **			None
39	HC2					Yes	** NA **			None
40	HC3					Yes	** NA **			None

Hot Rolled Steel Design Parameters

Label	Shape	Length(ft)	Lbyy(ft)	Lbzz(ft)	Lcomp top...	Lcomp bot(ft)	L-torque...	Kyy	Kzz	Cb	Funct...
1	SA1	Support Arms	4.25		Segment			2.1	2.1		Lateral
2	SA2	Support Arms	4.25		Segment			2.1	2.1		Lateral
3	SA3	Support Arms	4.25		Segment			2.1	2.1		Lateral
4	GSC2	Bottom Connection ...	.433					1	1		Lateral
5	GSC1	Bottom Connection ...	.433					1	1		Lateral
6	GSC3	Bottom Connection ...	.433					1	1		Lateral
7	MP-1	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
8	MP-2	Mount Pipes	5	Segment	Segment			2.1	2.1		Lateral
9	MP-3	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
10	MP-4	Mount Pipes	5	Segment	Segment			2.1	2.1		Lateral
11	MP-5	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
12	MP-6	Mount Pipes	5	Segment	Segment			2.1	2.1		Lateral
13	MP-7	Mount Pipes	5	Segment	Segment			2.1	2.1		Lateral
14	MP-8	Mount Pipes	7	Segment	Segment			2.1	2.1		Lateral
15	MP-9	Mount Pipes	5	Segment	Segment			2.1	2.1		Lateral
16	MP-10	Mount Pipes	5	Segment	Segment			2.1	2.1		Lateral
17	HR1	HRK12	12.5					2.1	2.1		Lateral
18	HR2	HRK12	12.5					2.1	2.1		Lateral
19	HR3	HRK12	12.5					2.1	2.1		Lateral
20	HC1	Handrail Conenction	1.25					.65	.65		Lateral
21	HC2	Handrail Conenction	1.25					.65	.65		Lateral
22	HC3	Handrail Conenction	1.25					.65	.65		Lateral

Cold Formed Steel Design Parameters

Label	Shape	Length...	Lbyy(ft)	Lbzz(ft)	Lcomp top...	Lcomp bot...	L-torque(ft)	Kyy	Kzz	Cb	R	a(ft)	Funct...
1	GS11	Grating Int...	5.04	Segment	Segment			1	1				Lateral
2	GS12	Grating Int...	5.04	Segment	Segment			1	1				Lateral
3	GS13	Grating Int...	5.04	Segment	Segment			1	1				Lateral
4	FF-H2-3	Main Hori...	5.25	3.44	3.44			1	1				Lateral
5	SF1-H2-3	Main Hori...	5.25	3.44	3.44			1	1				Lateral
6	SF2-H2-1	Main Hori...	5.25	3.44	3.44			1	1				Lateral
7	GS14	Grating Int...	3.873	Segment	Segment			1	1				Lateral
8	GS15	Grating Int...	3.873	Segment	Segment			1	1				Lateral
9	GS16	Grating Int...	3.873	Segment	Segment			1	1				Lateral
10	GS17	Grating Int...	2.351	Segment	Segment			1	1				Lateral
11	GS18	Grating Int...	2.351	Segment	Segment			1	1				Lateral
12	GS19	Grating Int...	2.351	Segment	Segment			1	1				Lateral
13	SF1-H2-2	Middle Ho...	3.286					1	1				Lateral
14	FF-H2-2	Middle Ho...	3.286					1	1				Lateral
15	SF2-H2-2	Middle Ho...	3.286					1	1				Lateral



Company : Tower Engineering Professionals
 Designer : S.J.L
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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Cold Formed Steel Design Parameters (Continued)

Label	Shape	Length...	Lbyy(ft)	Lbzz(ft)	Lcomp top...	Lcomp bot...	L-torque(ft)	Kyy	Kzz	Cb	R	a(ft)	Funct...
16	SF1-H2-1	Main Hori...	5.25	3.44	3.44			1	1				Lateral
17	FF-H2-1	Main Hori...	5.25	3.44	3.44			1	1				Lateral
18	SF2-H2-3	Main Hori...	5.25	3.44	3.44			1	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			32		3
2	0 Wind - No Ice	None				32	40	
3	30 Wind - No Ice	None				64	80	
4	45 Wind - No Ice	None				64	80	
5	60 Wind - No Ice	None				64	80	
6	90 Wind - No Ice	None				32	40	
7	120 Wind - No Ice	None				64	80	
8	135 Wind - No Ice	None				64	80	
9	150 Wind - No Ice	None				64	80	
10	180 Wind - No Ice	None				32	40	
11	210 Wind - No Ice	None				64	80	
12	225 Wind - No Ice	None				64	80	
13	240 Wind - No Ice	None				64	80	
14	270 Wind - No Ice	None				32	40	
15	300 Wind - No Ice	None				64	80	
16	315 Wind - No Ice	None				64	80	
17	330 Wind - No Ice	None				64	80	
18	Ice Weight	None				32	40	3
19	0 Wind - Ice	None				32	40	
20	30 Wind - Ice	None				64	80	
21	45 Wind - Ice	None				64	80	
22	60 Wind - Ice	None				64	80	
23	90 Wind - Ice	None				32	40	
24	120 Wind - Ice	None				64	80	
25	135 Wind - Ice	None				64	80	
26	150 Wind - Ice	None				64	80	
27	180 Wind - Ice	None				32	40	
28	210 Wind - Ice	None				64	80	
29	225 Wind - Ice	None				64	80	
30	240 Wind - Ice	None				64	80	
31	270 Wind - Ice	None				32	40	
32	300 Wind - Ice	None				64	80	
33	315 Wind - Ice	None				64	80	
34	330 Wind - Ice	None				64	80	
35	Lm	None				1		
36	Lv	None				1		
37	Seismic Load X	ELX	-1			32		
38	Seismic Load Z	ELZ		-1		32		
39	BLC 1 Transient Area...	None					68	
40	BLC 18 Transient Are...	None					68	



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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Load Combinations

Description	Solve PD...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
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+1.0 120-...	Yes	Y	1	1.2	18	1	24	1					
40	1.2D+1.0Di+1.0 135-...	Yes	Y	1	1.2	18	1	25	1					
41	1.2D+1.0Di+1.0 150-...	Yes	Y	1	1.2	18	1	26	1					
42	1.2D+1.0Di+1.0 180-...	Yes	Y	1	1.2	18	1	27	1					
43	1.2D+1.0Di+1.0 210-...	Yes	Y	1	1.2	18	1	28	1					
44	1.2D+1.0Di+1.0 225-...	Yes	Y	1	1.2	18	1	29	1					
45	1.2D+1.0Di+1.0 240-...	Yes	Y	1	1.2	18	1	30	1					
46	1.2D+1.0Di+1.0 270-...	Yes	Y	1	1.2	18	1	31	1					
47	1.2D+1.0Di+1.0 300-...	Yes	Y	1	1.2	18	1	32	1					
48	1.2D+1.0Di+1.0 315-...	Yes	Y	1	1.2	18	1	33	1					
49	1.2D+1.0Di+1.0 330-...	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	.068	35	1.5					



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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Load Combinations (Continued)

Description	Solve PD...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
52	1.2D+1.5Lm+1.0 30-...	Yes	Y	1	1.2	3	.068	35	1.5					
53	1.2D+1.5Lm+1.0 45-...	Yes	Y	1	1.2	4	.068	35	1.5					
54	1.2D+1.5Lm+1.0 60-...	Yes	Y	1	1.2	5	.068	35	1.5					
55	1.2D+1.5Lm+1.0 90-...	Yes	Y	1	1.2	6	.068	35	1.5					
56	1.2D+1.5Lm+1.0 12-...	Yes	Y	1	1.2	7	.068	35	1.5					
57	1.2D+1.5Lm+1.0 13-...	Yes	Y	1	1.2	8	.068	35	1.5					
58	1.2D+1.5Lm+1.0 15-...	Yes	Y	1	1.2	9	.068	35	1.5					
59	1.2D+1.5Lm+1.0 18-...	Yes	Y	1	1.2	10	.068	35	1.5					
60	1.2D+1.5Lm+1.0 21-...	Yes	Y	1	1.2	11	.068	35	1.5					
61	1.2D+1.5Lm+1.0 22-...	Yes	Y	1	1.2	12	.068	35	1.5					
62	1.2D+1.5Lm+1.0 24-...	Yes	Y	1	1.2	13	.068	35	1.5					
63	1.2D+1.5Lm+1.0 27-...	Yes	Y	1	1.2	14	.068	35	1.5					
64	1.2D+1.5Lm+1.0 30-...	Yes	Y	1	1.2	15	.068	35	1.5					
65	1.2D+1.5Lm+1.0 31-...	Yes	Y	1	1.2	16	.068	35	1.5					
66	1.2D+1.5Lm+1.0 33-...	Yes	Y	1	1.2	17	.068	35	1.5					

Joint Loads and Enforced Displacements (BLC 35 : Lm)

Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft, k*s^2*ft)]	
1	N45	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, k*s^2*ft)]	
1	FF2	L	Y	-25

Member Point Loads (BLC 1 : Dead)

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	Y	-.03	.75
2	MP-1	Y	-.071	2.5
3	MP-1	Y	-.072	2.5
4	MP-1	Y	-.06	6
5	MP-2	Y	-.015	.25
6	MP-2	Y	-.016	2.5
7	MP-3	Y	-.033	1
8	MP-3	Y	-.033	3
9	MP-4	Y	-.04	.25
10	MP-4	Y	-.016	2.5
11	MP-5	Y	-.03	.75
12	MP-5	Y	-.071	2.5
13	MP-5	Y	-.072	2.5
14	MP-5	Y	-.06	6
15	MP-6	Y	-.04	.25
16	MP-6	Y	-.016	3
17	MP-7	Y	-.015	.25
18	MP-8	Y	-.026	.25
19	MP-8	Y	-.071	2.5
20	MP-8	Y	-.072	2.5
21	MP-8	Y	-.06	6
22	MP-9	Y	-.034	.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
23	MP-10	Y	-0.15	.25
24	MP-1	Y	-0.03	5.75
25	MP-2	Y	-0.15	4.25
26	MP-4	Y	-0.04	4.75
27	MP-5	Y	-0.03	5.75
28	MP-6	Y	-0.04	4.75
29	MP-7	Y	-0.15	4.25
30	MP-8	Y	-0.26	4.25
31	MP-9	Y	-0.34	4.25
32	MP-10	Y	-0.15	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	-.192	.75
2	MP-1	X	-.044	2.5
3	MP-1	X	-.042	2.5
4	MP-1	X	-.058	6
5	MP-2	X	-.08	.25
6	MP-2	X	-.017	2.5
7	MP-3	X	-.038	1
8	MP-3	X	-.038	3
9	MP-4	X	-.199	.25
10	MP-4	X	-.017	2.5
11	MP-5	X	-.101	.75
12	MP-5	X	-.057	2.5
13	MP-5	X	-.049	2.5
14	MP-5	X	-.039	6
15	MP-6	X	-.116	.25
16	MP-6	X	-.015	3
17	MP-7	X	-.054	.25
18	MP-8	X	-.067	.25
19	MP-8	X	-.057	2.5
20	MP-8	X	-.049	2.5
21	MP-8	X	-.039	6
22	MP-9	X	-.074	.25
23	MP-10	X	-.054	.25
24	MP-1	X	-.192	5.75
25	MP-2	X	-.08	4.25
26	MP-4	X	-.199	4.75
27	MP-5	X	-.101	5.75
28	MP-6	X	-.116	4.75
29	MP-7	X	-.054	4.25
30	MP-8	X	-.067	4.25
31	MP-9	X	-.074	4.25
32	MP-10	X	-.054	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	-.14	.75
2	MP-1	X	-.042	2.5
3	MP-1	X	-.039	2.5



Company : Tower Engineering Professionals
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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
4	MP-1	X	-.045	6
5	MP-2	X	-.061	.25
6	MP-2	X	-.014	2.5
7	MP-3	X	-.033	1
8	MP-3	X	-.033	3
9	MP-4	X	-.149	.25
10	MP-4	X	-.014	2.5
11	MP-5	X	-.062	.75
12	MP-5	X	-.053	2.5
13	MP-5	X	-.045	2.5
14	MP-5	X	-.029	6
15	MP-6	X	-.076	.25
16	MP-6	X	-.012	3
17	MP-7	X	-.039	.25
18	MP-8	X	-.092	.25
19	MP-8	X	-.042	2.5
20	MP-8	X	-.039	2.5
21	MP-8	X	-.045	6
22	MP-9	X	-.096	.25
23	MP-10	X	-.061	.25
24	MP-1	X	-.14	5.75
25	MP-2	X	-.061	4.25
26	MP-4	X	-.149	4.75
27	MP-5	X	-.062	5.75
28	MP-6	X	-.076	4.75
29	MP-7	X	-.039	4.25
30	MP-8	X	-.092	4.25
31	MP-9	X	-.096	4.25
32	MP-10	X	-.061	4.25
33	MP-1	Z	-.081	.75
34	MP-1	Z	-.024	2.5
35	MP-1	Z	-.022	2.5
36	MP-1	Z	-.026	6
37	MP-2	Z	-.035	.25
38	MP-2	Z	-.008	2.5
39	MP-3	Z	-.019	1
40	MP-3	Z	-.019	3
41	MP-4	Z	-.086	.25
42	MP-4	Z	-.008	2.5
43	MP-5	Z	-.036	.75
44	MP-5	Z	-.031	2.5
45	MP-5	Z	-.026	2.5
46	MP-5	Z	-.017	6
47	MP-6	Z	-.044	.25
48	MP-6	Z	-.007	3
49	MP-7	Z	-.022	.25
50	MP-8	Z	-.053	.25
51	MP-8	Z	-.024	2.5
52	MP-8	Z	-.022	2.5
53	MP-8	Z	-.026	6
54	MP-9	Z	-.056	.25
55	MP-10	Z	-.035	.25



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
56	MP-1	Z	-0.81	5.75
57	MP-2	Z	-0.35	4.25
58	MP-4	Z	-0.86	4.75
59	MP-5	Z	-0.36	5.75
60	MP-6	Z	-0.44	4.75
61	MP-7	Z	-0.22	4.25
62	MP-8	Z	-0.53	4.25
63	MP-9	Z	-0.56	4.25
64	MP-10	Z	-0.35	4.25

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	X	-0.93	.75
2	MP-1	X	-0.37	2.5
3	MP-1	X	-0.33	2.5
4	MP-1	X	-0.32	6
5	MP-2	X	-0.44	.25
6	MP-2	X	-0.11	2.5
7	MP-3	X	-0.27	1
8	MP-3	X	-0.27	3
9	MP-4	X	-1.02	.25
10	MP-4	X	-0.11	2.5
11	MP-5	X	-0.56	.75
12	MP-5	X	-0.43	2.5
13	MP-5	X	-0.36	2.5
14	MP-5	X	-0.25	6
15	MP-6	X	-0.68	.25
16	MP-6	X	-.01	3
17	MP-7	X	-0.33	.25
18	MP-8	X	-0.86	.25
19	MP-8	X	-0.32	2.5
20	MP-8	X	-.03	2.5
21	MP-8	X	-.04	6
22	MP-9	X	-0.88	.25
23	MP-10	X	-0.55	.25
24	MP-1	X	-0.93	5.75
25	MP-2	X	-0.44	4.25
26	MP-4	X	-1.02	4.75
27	MP-5	X	-0.56	5.75
28	MP-6	X	-0.68	4.75
29	MP-7	X	-0.33	4.25
30	MP-8	X	-0.86	4.25
31	MP-9	X	-0.88	4.25
32	MP-10	X	-0.55	4.25
33	MP-1	Z	-0.93	.75
34	MP-1	Z	-0.37	2.5
35	MP-1	Z	-0.33	2.5
36	MP-1	Z	-0.32	6
37	MP-2	Z	-0.44	.25
38	MP-2	Z	-0.11	2.5
39	MP-3	Z	-0.27	1



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
40	MP-3	Z	-0.27	3
41	MP-4	Z	-1.02	.25
42	MP-4	Z	-0.11	2.5
43	MP-5	Z	-0.56	.75
44	MP-5	Z	-0.43	2.5
45	MP-5	Z	-0.36	2.5
46	MP-5	Z	-0.25	6
47	MP-6	Z	-0.68	.25
48	MP-6	Z	-.01	3
49	MP-7	Z	-0.33	.25
50	MP-8	Z	-0.86	.25
51	MP-8	Z	-0.32	2.5
52	MP-8	Z	-.03	2.5
53	MP-8	Z	-.04	6
54	MP-9	Z	-0.88	.25
55	MP-10	Z	-0.55	.25
56	MP-1	Z	-0.93	5.75
57	MP-2	Z	-0.44	4.25
58	MP-4	Z	-1.02	4.75
59	MP-5	Z	-0.56	5.75
60	MP-6	Z	-0.68	4.75
61	MP-7	Z	-0.33	4.25
62	MP-8	Z	-0.86	4.25
63	MP-9	Z	-0.88	4.25
64	MP-10	Z	-0.55	4.25

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	X	-0.51	.75
2	MP-1	X	-0.29	2.5
3	MP-1	X	-0.25	2.5
4	MP-1	X	-.02	6
5	MP-2	X	-0.27	.25
6	MP-2	X	-0.07	2.5
7	MP-3	X	-0.19	1
8	MP-3	X	-0.19	3
9	MP-4	X	-0.58	.25
10	MP-4	X	-0.07	2.5
11	MP-5	X	-0.51	.75
12	MP-5	X	-0.29	2.5
13	MP-5	X	-0.25	2.5
14	MP-5	X	-.02	6
15	MP-6	X	-0.58	.25
16	MP-6	X	-0.07	3
17	MP-7	X	-0.27	.25
18	MP-8	X	-0.63	.25
19	MP-8	X	-0.22	2.5
20	MP-8	X	-0.21	2.5
21	MP-8	X	-0.29	6
22	MP-9	X	-0.65	.25
23	MP-10	X	-.04	.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
24	MP-1	X	-0.51	5.75
25	MP-2	X	-0.27	4.25
26	MP-4	X	-0.58	4.75
27	MP-5	X	-0.51	5.75
28	MP-6	X	-0.58	4.75
29	MP-7	X	-0.27	4.25
30	MP-8	X	-0.63	4.25
31	MP-9	X	-0.65	4.25
32	MP-10	X	-0.4	4.25
33	MP-1	Z	-0.88	.75
34	MP-1	Z	-.05	2.5
35	MP-1	Z	-.043	2.5
36	MP-1	Z	-.034	6
37	MP-2	Z	-0.46	.25
38	MP-2	Z	-0.13	2.5
39	MP-3	Z	-.033	1
40	MP-3	Z	-.033	3
41	MP-4	Z	-.1	.25
42	MP-4	Z	-0.13	2.5
43	MP-5	Z	-.088	.75
44	MP-5	Z	-.05	2.5
45	MP-5	Z	-.043	2.5
46	MP-5	Z	-.034	6
47	MP-6	Z	-.1	.25
48	MP-6	Z	-.013	3
49	MP-7	Z	-.046	.25
50	MP-8	Z	-.11	.25
51	MP-8	Z	-.038	2.5
52	MP-8	Z	-.037	2.5
53	MP-8	Z	-.05	6
54	MP-9	Z	-.113	.25
55	MP-10	Z	-.069	.25
56	MP-1	Z	-0.88	5.75
57	MP-2	Z	-0.46	4.25
58	MP-4	Z	-.1	4.75
59	MP-5	Z	-0.88	5.75
60	MP-6	Z	-.1	4.75
61	MP-7	Z	-0.46	4.25
62	MP-8	Z	-.11	4.25
63	MP-9	Z	-.113	4.25
64	MP-10	Z	-0.69	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	Z	-0.71	.75
2	MP-1	Z	-.062	2.5
3	MP-1	Z	-.051	2.5
4	MP-1	Z	-.033	6
5	MP-2	Z	-0.45	.25
6	MP-2	Z	-.014	2.5
7	MP-3	Z	-0.38	1



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
8	MP-3	Z	-.038	3
9	MP-4	Z	-.088	.25
10	MP-4	Z	-.014	2.5
11	MP-5	Z	-.162	.75
12	MP-5	Z	-.049	2.5
13	MP-5	Z	-.045	2.5
14	MP-5	Z	-.052	6
15	MP-6	Z	-.172	.25
16	MP-6	Z	-.017	3
17	MP-7	Z	-.071	.25
18	MP-8	Z	-.107	.25
19	MP-8	Z	-.049	2.5
20	MP-8	Z	-.045	2.5
21	MP-8	Z	-.052	6
22	MP-9	Z	-.111	.25
23	MP-10	Z	-.071	.25
24	MP-1	Z	-.071	5.75
25	MP-2	Z	-.045	4.25
26	MP-4	Z	-.088	4.75
27	MP-5	Z	-.162	5.75
28	MP-6	Z	-.172	4.75
29	MP-7	Z	-.071	4.25
30	MP-8	Z	-.107	4.25
31	MP-9	Z	-.111	4.25
32	MP-10	Z	-.071	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	.051	.75
2	MP-1	X	.029	2.5
3	MP-1	X	.025	2.5
4	MP-1	X	.02	6
5	MP-2	X	.027	.25
6	MP-2	X	.007	2.5
7	MP-3	X	.019	1
8	MP-3	X	.019	3
9	MP-4	X	.058	.25
10	MP-4	X	.007	2.5
11	MP-5	X	.096	.75
12	MP-5	X	.022	2.5
13	MP-5	X	.021	2.5
14	MP-5	X	.029	6
15	MP-6	X	.1	.25
16	MP-6	X	.009	3
17	MP-7	X	.04	.25
18	MP-8	X	.033	.25
19	MP-8	X	.029	2.5
20	MP-8	X	.025	2.5
21	MP-8	X	.02	6
22	MP-9	X	.037	.25
23	MP-10	X	.027	.25



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
24	MP-1	X	.051	5.75
25	MP-2	X	.027	4.25
26	MP-4	X	.058	4.75
27	MP-5	X	.096	5.75
28	MP-6	X	.1	4.75
29	MP-7	X	.04	4.25
30	MP-8	X	.033	4.25
31	MP-9	X	.037	4.25
32	MP-10	X	.027	4.25
33	MP-1	Z	-.088	.75
34	MP-1	Z	-.05	2.5
35	MP-1	Z	-.043	2.5
36	MP-1	Z	-.034	6
37	MP-2	Z	-.046	.25
38	MP-2	Z	-.013	2.5
39	MP-3	Z	-.033	1
40	MP-3	Z	-.033	3
41	MP-4	Z	-.1	.25
42	MP-4	Z	-.013	2.5
43	MP-5	Z	-.166	.75
44	MP-5	Z	-.038	2.5
45	MP-5	Z	-.037	2.5
46	MP-5	Z	-.05	6
47	MP-6	Z	-.173	.25
48	MP-6	Z	-.015	3
49	MP-7	Z	-.069	.25
50	MP-8	Z	-.058	.25
51	MP-8	Z	-.05	2.5
52	MP-8	Z	-.043	2.5
53	MP-8	Z	-.034	6
54	MP-9	Z	-.064	.25
55	MP-10	Z	-.046	.25
56	MP-1	Z	-.088	5.75
57	MP-2	Z	-.046	4.25
58	MP-4	Z	-.1	4.75
59	MP-5	Z	-.166	5.75
60	MP-6	Z	-.173	4.75
61	MP-7	Z	-.069	4.25
62	MP-8	Z	-.058	4.25
63	MP-9	Z	-.064	4.25
64	MP-10	Z	-.046	4.25

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.093	.75
2	MP-1	X	.037	2.5
3	MP-1	X	.033	2.5
4	MP-1	X	.032	6
5	MP-2	X	.044	.25
6	MP-2	X	.011	2.5
7	MP-3	X	.027	1



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
8	MP-3	X	.027	3
9	MP-4	X	.102	.25
10	MP-4	X	.011	2.5
11	MP-5	X	.13	.75
12	MP-5	X	.032	2.5
13	MP-5	X	.03	2.5
14	MP-5	X	.04	6
15	MP-6	X	.136	.25
16	MP-6	X	.012	3
17	MP-7	X	.055	.25
18	MP-8	X	.037	.25
19	MP-8	X	.043	2.5
20	MP-8	X	.036	2.5
21	MP-8	X	.025	6
22	MP-9	X	.042	.25
23	MP-10	X	.033	.25
24	MP-1	X	.093	5.75
25	MP-2	X	.044	4.25
26	MP-4	X	.102	4.75
27	MP-5	X	.13	5.75
28	MP-6	X	.136	4.75
29	MP-7	X	.055	4.25
30	MP-8	X	.037	4.25
31	MP-9	X	.042	4.25
32	MP-10	X	.033	4.25
33	MP-1	Z	-.093	.75
34	MP-1	Z	-.037	2.5
35	MP-1	Z	-.033	2.5
36	MP-1	Z	-.032	6
37	MP-2	Z	-.044	.25
38	MP-2	Z	-.011	2.5
39	MP-3	Z	-.027	1
40	MP-3	Z	-.027	3
41	MP-4	Z	-.102	.25
42	MP-4	Z	-.011	2.5
43	MP-5	Z	-.13	.75
44	MP-5	Z	-.032	2.5
45	MP-5	Z	-.03	2.5
46	MP-5	Z	-.04	6
47	MP-6	Z	-.136	.25
48	MP-6	Z	-.012	3
49	MP-7	Z	-.055	.25
50	MP-8	Z	-.037	.25
51	MP-8	Z	-.043	2.5
52	MP-8	Z	-.036	2.5
53	MP-8	Z	-.025	6
54	MP-9	Z	-.042	.25
55	MP-10	Z	-.033	.25
56	MP-1	Z	-.093	5.75
57	MP-2	Z	-.044	4.25
58	MP-4	Z	-.102	4.75
59	MP-5	Z	-.13	5.75



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
60	MP-6	Z	- .136	4.75
61	MP-7	Z	- .055	4.25
62	MP-8	Z	- .037	4.25
63	MP-9	Z	- .042	4.25
64	MP-10	Z	- .033	4.25

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.14	.75
2	MP-1	X	.042	2.5
3	MP-1	X	.039	2.5
4	MP-1	X	.045	6
5	MP-2	X	.061	.25
6	MP-2	X	.014	2.5
7	MP-3	X	.033	1
8	MP-3	X	.033	3
9	MP-4	X	.149	.25
10	MP-4	X	.014	2.5
11	MP-5	X	.14	.75
12	MP-5	X	.042	2.5
13	MP-5	X	.039	2.5
14	MP-5	X	.045	6
15	MP-6	X	.149	.25
16	MP-6	X	.014	3
17	MP-7	X	.061	.25
18	MP-8	X	.041	.25
19	MP-8	X	.053	2.5
20	MP-8	X	.045	2.5
21	MP-8	X	.029	6
22	MP-9	X	.048	.25
23	MP-10	X	.039	.25
24	MP-1	X	.14	5.75
25	MP-2	X	.061	4.25
26	MP-4	X	.149	4.75
27	MP-5	X	.14	5.75
28	MP-6	X	.149	4.75
29	MP-7	X	.061	4.25
30	MP-8	X	.041	4.25
31	MP-9	X	.048	4.25
32	MP-10	X	.039	4.25
33	MP-1	Z	-.081	.75
34	MP-1	Z	-.024	2.5
35	MP-1	Z	-.022	2.5
36	MP-1	Z	-.026	6
37	MP-2	Z	-.035	.25
38	MP-2	Z	-.008	2.5
39	MP-3	Z	-.019	1
40	MP-3	Z	-.019	3
41	MP-4	Z	-.086	.25
42	MP-4	Z	-.008	2.5
43	MP-5	Z	-.081	.75



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
44	MP-5	Z	-.024	2.5
45	MP-5	Z	-.022	2.5
46	MP-5	Z	-.026	6
47	MP-6	Z	-.086	.25
48	MP-6	Z	-.008	3
49	MP-7	Z	-.035	.25
50	MP-8	Z	-.023	.25
51	MP-8	Z	-.031	2.5
52	MP-8	Z	-.026	2.5
53	MP-8	Z	-.017	6
54	MP-9	Z	-.028	.25
55	MP-10	Z	-.022	.25
56	MP-1	Z	-.081	5.75
57	MP-2	Z	-.035	4.25
58	MP-4	Z	-.086	4.75
59	MP-5	Z	-.081	5.75
60	MP-6	Z	-.086	4.75
61	MP-7	Z	-.035	4.25
62	MP-8	Z	-.023	4.25
63	MP-9	Z	-.028	4.25
64	MP-10	Z	-.022	4.25

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.192	.75
2	MP-1	X	.044	2.5
3	MP-1	X	.042	2.5
4	MP-1	X	.058	6
5	MP-2	X	.08	.25
6	MP-2	X	.017	2.5
7	MP-3	X	.038	1
8	MP-3	X	.038	3
9	MP-4	X	.199	.25
10	MP-4	X	.017	2.5
11	MP-5	X	.101	.75
12	MP-5	X	.057	2.5
13	MP-5	X	.049	2.5
14	MP-5	X	.039	6
15	MP-6	X	.116	.25
16	MP-6	X	.015	3
17	MP-7	X	.054	.25
18	MP-8	X	.067	.25
19	MP-8	X	.057	2.5
20	MP-8	X	.049	2.5
21	MP-8	X	.039	6
22	MP-9	X	.074	.25
23	MP-10	X	.054	.25
24	MP-1	X	.192	5.75
25	MP-2	X	.08	4.25
26	MP-4	X	.199	4.75
27	MP-5	X	.101	5.75



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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
28	MP-6	X	.116 4.75
29	MP-7	X	.054 4.25
30	MP-8	X	.067 4.25
31	MP-9	X	.074 4.25
32	MP-10	X	.054 4.25

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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.14 .75
2	MP-1	X	.042 2.5
3	MP-1	X	.039 2.5
4	MP-1	X	.045 6
5	MP-2	X	.061 .25
6	MP-2	X	.014 2.5
7	MP-3	X	.033 1
8	MP-3	X	.033 3
9	MP-4	X	.149 .25
10	MP-4	X	.014 2.5
11	MP-5	X	.062 .75
12	MP-5	X	.053 2.5
13	MP-5	X	.045 2.5
14	MP-5	X	.029 6
15	MP-6	X	.076 .25
16	MP-6	X	.012 3
17	MP-7	X	.039 .25
18	MP-8	X	.092 .25
19	MP-8	X	.042 2.5
20	MP-8	X	.039 2.5
21	MP-8	X	.045 6
22	MP-9	X	.096 .25
23	MP-10	X	.061 .25
24	MP-1	X	.14 5.75
25	MP-2	X	.061 4.25
26	MP-4	X	.149 4.75
27	MP-5	X	.062 5.75
28	MP-6	X	.076 4.75
29	MP-7	X	.039 4.25
30	MP-8	X	.092 4.25
31	MP-9	X	.096 4.25
32	MP-10	X	.061 4.25
33	MP-1	Z	.081 .75
34	MP-1	Z	.024 2.5
35	MP-1	Z	.022 2.5
36	MP-1	Z	.026 6
37	MP-2	Z	.035 .25
38	MP-2	Z	.008 2.5
39	MP-3	Z	.019 1
40	MP-3	Z	.019 3
41	MP-4	Z	.086 .25
42	MP-4	Z	.008 2.5
43	MP-5	Z	.036 .75



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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
44	MP-5	Z	.031 2.5
45	MP-5	Z	.026 2.5
46	MP-5	Z	.017 6
47	MP-6	Z	.044 .25
48	MP-6	Z	.007 3
49	MP-7	Z	.022 .25
50	MP-8	Z	.053 .25
51	MP-8	Z	.024 2.5
52	MP-8	Z	.022 2.5
53	MP-8	Z	.026 6
54	MP-9	Z	.056 .25
55	MP-10	Z	.035 .25
56	MP-1	Z	.081 5.75
57	MP-2	Z	.035 4.25
58	MP-4	Z	.086 4.75
59	MP-5	Z	.036 5.75
60	MP-6	Z	.044 4.75
61	MP-7	Z	.022 4.25
62	MP-8	Z	.053 4.25
63	MP-9	Z	.056 4.25
64	MP-10	Z	.035 4.25

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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	.093 .75
2	MP-1	X	.037 2.5
3	MP-1	X	.033 2.5
4	MP-1	X	.032 6
5	MP-2	X	.044 .25
6	MP-2	X	.011 2.5
7	MP-3	X	.027 1
8	MP-3	X	.027 3
9	MP-4	X	.102 .25
10	MP-4	X	.011 2.5
11	MP-5	X	.056 .75
12	MP-5	X	.043 2.5
13	MP-5	X	.036 2.5
14	MP-5	X	.025 6
15	MP-6	X	.068 .25
16	MP-6	X	.01 3
17	MP-7	X	.033 .25
18	MP-8	X	.086 .25
19	MP-8	X	.032 2.5
20	MP-8	X	.03 2.5
21	MP-8	X	.04 6
22	MP-9	X	.088 .25
23	MP-10	X	.055 .25
24	MP-1	X	.093 5.75
25	MP-2	X	.044 4.25
26	MP-4	X	.102 4.75
27	MP-5	X	.056 5.75



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
28	MP-6	X	.068	4.75
29	MP-7	X	4.25	4.25
30	MP-8	X	.086	4.25
31	MP-9	X	4.25	4.25
32	MP-10	X	.055	4.25
33	MP-1	Z	.093	.75
34	MP-1	Z	.037	2.5
35	MP-1	Z	.033	2.5
36	MP-1	Z	.032	6
37	MP-2	Z	.044	.25
38	MP-2	Z	.011	2.5
39	MP-3	Z	.027	1
40	MP-3	Z	.027	3
41	MP-4	Z	.102	.25
42	MP-4	Z	.011	2.5
43	MP-5	Z	.056	.75
44	MP-5	Z	.043	2.5
45	MP-5	Z	.036	2.5
46	MP-5	Z	.025	6
47	MP-6	Z	.068	.25
48	MP-6	Z	.01	3
49	MP-7	Z	.033	.25
50	MP-8	Z	.086	.25
51	MP-8	Z	.032	2.5
52	MP-8	Z	.03	2.5
53	MP-8	Z	.04	6
54	MP-9	Z	.088	.25
55	MP-10	Z	.055	.25
56	MP-1	Z	.093	5.75
57	MP-2	Z	.044	4.25
58	MP-4	Z	.102	4.75
59	MP-5	Z	.056	5.75
60	MP-6	Z	.068	4.75
61	MP-7	Z	.033	4.25
62	MP-8	Z	.086	4.25
63	MP-9	Z	.088	4.25
64	MP-10	Z	.055	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.051	.75
2	MP-1	X	.029	2.5
3	MP-1	X	.025	2.5
4	MP-1	X	.02	6
5	MP-2	X	.027	.25
6	MP-2	X	.007	2.5
7	MP-3	X	.019	1
8	MP-3	X	.019	3
9	MP-4	X	.058	.25
10	MP-4	X	.007	2.5
11	MP-5	X	.051	.75



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 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP-5	X	.029	2.5
13	MP-5	X	.025	2.5
14	MP-5	X	.02	6
15	MP-6	X	.058	.25
16	MP-6	X	.007	3
17	MP-7	X	.027	.25
18	MP-8	X	.063	.25
19	MP-8	X	.022	2.5
20	MP-8	X	.021	2.5
21	MP-8	X	.029	6
22	MP-9	X	.065	.25
23	MP-10	X	.04	.25
24	MP-1	X	.051	5.75
25	MP-2	X	.027	4.25
26	MP-4	X	.058	4.75
27	MP-5	X	.051	5.75
28	MP-6	X	.058	4.75
29	MP-7	X	.027	4.25
30	MP-8	X	.063	4.25
31	MP-9	X	.065	4.25
32	MP-10	X	.04	4.25
33	MP-1	Z	.088	.75
34	MP-1	Z	.05	2.5
35	MP-1	Z	.043	2.5
36	MP-1	Z	.034	6
37	MP-2	Z	.046	.25
38	MP-2	Z	.013	2.5
39	MP-3	Z	.033	1
40	MP-3	Z	.033	3
41	MP-4	Z	.1	.25
42	MP-4	Z	.013	2.5
43	MP-5	Z	.088	.75
44	MP-5	Z	.05	2.5
45	MP-5	Z	.043	2.5
46	MP-5	Z	.034	6
47	MP-6	Z	.1	.25
48	MP-6	Z	.013	3
49	MP-7	Z	.046	.25
50	MP-8	Z	.11	.25
51	MP-8	Z	.038	2.5
52	MP-8	Z	.037	2.5
53	MP-8	Z	.05	6
54	MP-9	Z	.113	.25
55	MP-10	Z	.069	.25
56	MP-1	Z	.088	5.75
57	MP-2	Z	.046	4.25
58	MP-4	Z	.1	4.75
59	MP-5	Z	.088	5.75
60	MP-6	Z	.1	4.75
61	MP-7	Z	.046	4.25
62	MP-8	Z	.11	4.25
63	MP-9	Z	.113	4.25



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
64	MP-10	Z	.069 4.25

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	Z	.071 .75
2	MP-1	Z	.062 2.5
3	MP-1	Z	.051 2.5
4	MP-1	Z	.033 6
5	MP-2	Z	.045 2.5
6	MP-2	Z	.014 2.5
7	MP-3	Z	.038 1
8	MP-3	Z	.038 3
9	MP-4	Z	.088 2.5
10	MP-4	Z	.014 2.5
11	MP-5	Z	.162 .75
12	MP-5	Z	.049 2.5
13	MP-5	Z	.045 2.5
14	MP-5	Z	.052 6
15	MP-6	Z	.172 2.5
16	MP-6	Z	.017 3
17	MP-7	Z	.071 2.5
18	MP-8	Z	.107 2.5
19	MP-8	Z	.049 2.5
20	MP-8	Z	.045 2.5
21	MP-8	Z	.052 6
22	MP-9	Z	.111 2.5
23	MP-10	Z	.071 2.5
24	MP-1	Z	.071 5.75
25	MP-2	Z	.045 4.25
26	MP-4	Z	.088 4.75
27	MP-5	Z	.162 5.75
28	MP-6	Z	.172 4.75
29	MP-7	Z	.071 4.25
30	MP-8	Z	.107 4.25
31	MP-9	Z	.111 4.25
32	MP-10	Z	.071 4.25

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	-.051 .75
2	MP-1	X	-.029 2.5
3	MP-1	X	-.025 2.5
4	MP-1	X	-.02 6
5	MP-2	X	-.027 2.5
6	MP-2	X	-.007 2.5
7	MP-3	X	-.019 1
8	MP-3	X	-.019 3
9	MP-4	X	-.058 2.5
10	MP-4	X	-.007 2.5
11	MP-5	X	-.096 .75
12	MP-5	X	-.022 2.5



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
13	MP-5	X	-.021 2.5
14	MP-5	X	-.029 6
15	MP-6	X	-.1 2.5
16	MP-6	X	-.009 3
17	MP-7	X	-.04 2.5
18	MP-8	X	-.033 2.5
19	MP-8	X	-.029 2.5
20	MP-8	X	-.025 2.5
21	MP-8	X	-.02 6
22	MP-9	X	-.037 2.5
23	MP-10	X	-.027 2.5
24	MP-1	X	-.051 5.75
25	MP-2	X	-.027 4.25
26	MP-4	X	-.058 4.75
27	MP-5	X	-.096 5.75
28	MP-6	X	-.1 4.75
29	MP-7	X	-.04 4.25
30	MP-8	X	-.033 4.25
31	MP-9	X	-.037 4.25
32	MP-10	X	-.027 4.25
33	MP-1	Z	.088 .75
34	MP-1	Z	.05 2.5
35	MP-1	Z	.043 2.5
36	MP-1	Z	.034 6
37	MP-2	Z	.046 2.5
38	MP-2	Z	.013 2.5
39	MP-3	Z	.033 1
40	MP-3	Z	.033 3
41	MP-4	Z	.1 2.5
42	MP-4	Z	.013 2.5
43	MP-5	Z	.166 .75
44	MP-5	Z	.038 2.5
45	MP-5	Z	.037 2.5
46	MP-5	Z	.05 6
47	MP-6	Z	.173 2.5
48	MP-6	Z	.015 3
49	MP-7	Z	.069 2.5
50	MP-8	Z	.058 2.5
51	MP-8	Z	.05 2.5
52	MP-8	Z	.043 2.5
53	MP-8	Z	.034 6
54	MP-9	Z	.064 2.5
55	MP-10	Z	.046 2.5
56	MP-1	Z	.088 5.75
57	MP-2	Z	.046 4.25
58	MP-4	Z	.1 4.75
59	MP-5	Z	.166 5.75
60	MP-6	Z	.173 4.75
61	MP-7	Z	.069 4.25
62	MP-8	Z	.058 4.25
63	MP-9	Z	.064 4.25
64	MP-10	Z	.046 4.25



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	-0.93	.75
2	MP-1	X	-0.37	2.5
3	MP-1	X	-0.33	2.5
4	MP-1	X	-0.32	6
5	MP-2	X	-0.44	.25
6	MP-2	X	-0.11	2.5
7	MP-3	X	-0.27	1
8	MP-3	X	-0.27	3
9	MP-4	X	-1.02	.25
10	MP-4	X	-0.11	2.5
11	MP-5	X	-.13	.75
12	MP-5	X	-0.32	2.5
13	MP-5	X	-.03	2.5
14	MP-5	X	-.04	6
15	MP-6	X	-.136	.25
16	MP-6	X	-.012	3
17	MP-7	X	-.055	.25
18	MP-8	X	-0.37	.25
19	MP-8	X	-0.43	2.5
20	MP-8	X	-0.36	2.5
21	MP-8	X	-.025	6
22	MP-9	X	-.042	.25
23	MP-10	X	-0.33	.25
24	MP-1	X	-0.93	5.75
25	MP-2	X	-0.44	4.25
26	MP-4	X	-1.02	4.75
27	MP-5	X	-.13	5.75
28	MP-6	X	-.136	4.75
29	MP-7	X	-.055	4.25
30	MP-8	X	-0.37	4.25
31	MP-9	X	-.042	4.25
32	MP-10	X	-0.33	4.25
33	MP-1	Z	.093	.75
34	MP-1	Z	.037	2.5
35	MP-1	Z	.033	2.5
36	MP-1	Z	.032	6
37	MP-2	Z	.044	.25
38	MP-2	Z	.011	2.5
39	MP-3	Z	.027	1
40	MP-3	Z	.027	3
41	MP-4	Z	.102	.25
42	MP-4	Z	.011	2.5
43	MP-5	Z	.13	.75
44	MP-5	Z	.032	2.5
45	MP-5	Z	.03	2.5
46	MP-5	Z	.04	6
47	MP-6	Z	.136	.25
48	MP-6	Z	.012	3
49	MP-7	Z	.055	.25
50	MP-8	Z	.037	.25
51	MP-8	Z	.043	2.5
52	MP-8	Z	.036	2.5



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
53	MP-8	Z	.025	6
54	MP-9	Z	.042	.25
55	MP-10	Z	.033	.25
56	MP-1	Z	.093	5.75
57	MP-2	Z	.044	4.25
58	MP-4	Z	.102	4.75
59	MP-5	Z	.13	5.75
60	MP-6	Z	.136	4.75
61	MP-7	Z	.055	4.25
62	MP-8	Z	.037	4.25
63	MP-9	Z	.042	4.25
64	MP-10	Z	.033	4.25

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	-.14	.75
2	MP-1	X	-.042	2.5
3	MP-1	X	-.039	2.5
4	MP-1	X	-.045	6
5	MP-2	X	-.061	.25
6	MP-2	X	-.014	2.5
7	MP-3	X	-.033	1
8	MP-3	X	-.033	3
9	MP-4	X	-.149	.25
10	MP-4	X	-.014	2.5
11	MP-5	X	-.14	.75
12	MP-5	X	-.042	2.5
13	MP-5	X	-.039	2.5
14	MP-5	X	-.045	6
15	MP-6	X	-.149	.25
16	MP-6	X	-.014	3
17	MP-7	X	-.061	.25
18	MP-8	X	-.041	.25
19	MP-8	X	-.053	2.5
20	MP-8	X	-.045	2.5
21	MP-8	X	-.029	6
22	MP-9	X	-.048	.25
23	MP-10	X	-.039	.25
24	MP-1	X	-.14	5.75
25	MP-2	X	-.061	4.25
26	MP-4	X	-.149	4.75
27	MP-5	X	-.14	5.75
28	MP-6	X	-.149	4.75
29	MP-7	X	-.061	4.25
30	MP-8	X	-.041	4.25
31	MP-9	X	-.048	4.25
32	MP-10	X	-.039	4.25
33	MP-1	Z	.081	.75
34	MP-1	Z	.024	2.5
35	MP-1	Z	.022	2.5
36	MP-1	Z	.026	6



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
37	MP-2	Z	.035	.25
38	MP-2	Z	.008	2.5
39	MP-3	Z	.019	1
40	MP-3	Z	.019	3
41	MP-4	Z	.086	.25
42	MP-4	Z	.008	2.5
43	MP-5	Z	.081	.75
44	MP-5	Z	.024	2.5
45	MP-5	Z	.022	2.5
46	MP-5	Z	.026	6
47	MP-6	Z	.086	.25
48	MP-6	Z	.008	3
49	MP-7	Z	.035	.25
50	MP-8	Z	.023	.25
51	MP-8	Z	.031	2.5
52	MP-8	Z	.026	2.5
53	MP-8	Z	.017	6
54	MP-9	Z	.028	.25
55	MP-10	Z	.022	.25
56	MP-1	Z	.081	5.75
57	MP-2	Z	.035	4.25
58	MP-4	Z	.086	4.75
59	MP-5	Z	.081	5.75
60	MP-6	Z	.086	4.75
61	MP-7	Z	.035	4.25
62	MP-8	Z	.023	4.25
63	MP-9	Z	.028	4.25
64	MP-10	Z	.022	4.25

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	Y	-.092	.75
2	MP-1	Y	-.047	2.5
3	MP-1	Y	-.045	2.5
4	MP-1	Y	-.041	6
5	MP-2	Y	-.041	.25
6	MP-2	Y	-.016	2.5
7	MP-3	Y	-.048	1
8	MP-3	Y	-.048	3
9	MP-4	Y	-.091	.25
10	MP-4	Y	-.016	2.5
11	MP-5	Y	-.092	.75
12	MP-5	Y	-.047	2.5
13	MP-5	Y	-.045	2.5
14	MP-5	Y	-.041	6
15	MP-6	Y	-.091	.25
16	MP-6	Y	-.016	3
17	MP-7	Y	-.041	.25
18	MP-8	Y	-.065	.25
19	MP-8	Y	-.047	2.5
20	MP-8	Y	-.045	2.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
21	MP-8	Y	-.041	6
22	MP-9	Y	-.064	.25
23	MP-10	Y	-.041	.25
24	MP-1	Y	-.092	5.75
25	MP-2	Y	-.041	4.25
26	MP-4	Y	-.091	4.75
27	MP-5	Y	-.092	5.75
28	MP-6	Y	-.091	4.75
29	MP-7	Y	-.041	4.25
30	MP-8	Y	-.065	4.25
31	MP-9	Y	-.064	4.25
32	MP-10	Y	-.041	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	-.041	.75
2	MP-1	X	-.016	2.5
3	MP-1	X	-.013	2.5
4	MP-1	X	-.015	6
5	MP-2	X	-.018	.25
6	MP-2	X	-.005	2.5
7	MP-3	X	-.009	1
8	MP-3	X	-.009	3
9	MP-4	X	-.043	.25
10	MP-4	X	-.005	2.5
11	MP-5	X	-.041	.75
12	MP-5	X	-.016	2.5
13	MP-5	X	-.013	2.5
14	MP-5	X	-.015	6
15	MP-6	X	-.043	.25
16	MP-6	X	-.005	3
17	MP-7	X	-.018	.25
18	MP-8	X	-.027	.25
19	MP-8	X	-.016	2.5
20	MP-8	X	-.013	2.5
21	MP-8	X	-.015	6
22	MP-9	X	-.029	.25
23	MP-10	X	-.018	.25
24	MP-1	X	-.041	5.75
25	MP-2	X	-.018	4.25
26	MP-4	X	-.043	4.75
27	MP-5	X	-.041	5.75
28	MP-6	X	-.043	4.75
29	MP-7	X	-.018	4.25
30	MP-8	X	-.027	4.25
31	MP-9	X	-.029	4.25
32	MP-10	X	-.018	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	-.03	.75



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
2	MP-1	X	-0.11	2.5
3	MP-1	X	-.01	2.5
4	MP-1	X	-.012	6
5	MP-2	X	-.015	.25
6	MP-2	X	-.005	2.5
7	MP-3	X	-.008	1
8	MP-3	X	-.008	3
9	MP-4	X	-.033	.25
10	MP-4	X	-.005	2.5
11	MP-5	X	-.015	.75
12	MP-5	X	-.013	2.5
13	MP-5	X	-.011	2.5
14	MP-5	X	-.008	6
15	MP-6	X	-.019	.25
16	MP-6	X	-.004	3
17	MP-7	X	-.01	.25
18	MP-8	X	-.02	.25
19	MP-8	X	-.011	2.5
20	MP-8	X	-.01	2.5
21	MP-8	X	-.012	6
22	MP-9	X	-.022	.25
23	MP-10	X	-.015	.25
24	MP-1	X	-.03	5.75
25	MP-2	X	-.015	4.25
26	MP-4	X	-.033	4.75
27	MP-5	X	-.015	5.75
28	MP-6	X	-.019	4.75
29	MP-7	X	-.01	4.25
30	MP-8	X	-.02	4.25
31	MP-9	X	-.022	4.25
32	MP-10	X	-.015	4.25
33	MP-1	Z	-.017	.75
34	MP-1	Z	-.006	2.5
35	MP-1	Z	-.006	2.5
36	MP-1	Z	-.007	6
37	MP-2	Z	-.008	.25
38	MP-2	Z	-.003	2.5
39	MP-3	Z	-.005	1
40	MP-3	Z	-.005	3
41	MP-4	Z	-.019	.25
42	MP-4	Z	-.003	2.5
43	MP-5	Z	-.009	.75
44	MP-5	Z	-.008	2.5
45	MP-5	Z	-.007	2.5
46	MP-5	Z	-.005	6
47	MP-6	Z	-.011	.25
48	MP-6	Z	-.002	3
49	MP-7	Z	-.006	.25
50	MP-8	Z	-.012	.25
51	MP-8	Z	-.006	2.5
52	MP-8	Z	-.006	2.5
53	MP-8	Z	-.007	6



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
54	MP-9	Z	-.012	.25
55	MP-10	Z	-.008	.25
56	MP-1	Z	-.017	5.75
57	MP-2	Z	-.008	4.25
58	MP-4	Z	-.019	4.75
59	MP-5	Z	-.009	5.75
60	MP-6	Z	-.011	4.75
61	MP-7	Z	-.006	4.25
62	MP-8	Z	-.012	4.25
63	MP-9	Z	-.012	4.25
64	MP-10	Z	-.008	4.25

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.021	.75
2	MP-1	X	-.01	2.5
3	MP-1	X	-.009	2.5
4	MP-1	X	-.008	6
5	MP-2	X	-.011	.25
6	MP-2	X	-.004	2.5
7	MP-3	X	-.007	1
8	MP-3	X	-.007	3
9	MP-4	X	-.023	.25
10	MP-4	X	-.004	2.5
11	MP-5	X	-.013	.75
12	MP-5	X	-.011	2.5
13	MP-5	X	-.009	2.5
14	MP-5	X	-.007	6
15	MP-6	X	-.016	.25
16	MP-6	X	-.003	3
17	MP-7	X	-.009	.25
18	MP-8	X	-.019	.25
19	MP-8	X	-.008	2.5
20	MP-8	X	-.008	2.5
21	MP-8	X	-.01	6
22	MP-9	X	-.02	.25
23	MP-10	X	-.013	.25
24	MP-1	X	-.021	5.75
25	MP-2	X	-.011	4.25
26	MP-4	X	-.023	4.75
27	MP-5	X	-.013	5.75
28	MP-6	X	-.016	4.75
29	MP-7	X	-.009	4.25
30	MP-8	X	-.019	4.25
31	MP-9	X	-.02	4.25
32	MP-10	X	-.013	4.25
33	MP-1	Z	-.021	.75
34	MP-1	Z	-.01	2.5
35	MP-1	Z	-.009	2.5
36	MP-1	Z	-.008	6
37	MP-2	Z	-.011	.25



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
38	MP-2	Z	-0.04	2.5
39	MP-3	Z	-0.07	1
40	MP-3	Z	-0.07	3
41	MP-4	Z	-0.23	.25
42	MP-4	Z	-0.04	2.5
43	MP-5	Z	-0.13	.75
44	MP-5	Z	-0.11	2.5
45	MP-5	Z	-0.09	2.5
46	MP-5	Z	-0.07	6
47	MP-6	Z	-0.16	.25
48	MP-6	Z	-0.03	3
49	MP-7	Z	-0.09	.25
50	MP-8	Z	-0.19	.25
51	MP-8	Z	-0.08	2.5
52	MP-8	Z	-0.08	2.5
53	MP-8	Z	-.01	6
54	MP-9	Z	-.02	.25
55	MP-10	Z	-.013	.25
56	MP-1	Z	-.021	5.75
57	MP-2	Z	-.011	4.25
58	MP-4	Z	-.023	4.75
59	MP-5	Z	-.013	5.75
60	MP-6	Z	-.016	4.75
61	MP-7	Z	-.009	4.25
62	MP-8	Z	-.019	4.25
63	MP-9	Z	-.02	4.25
64	MP-10	Z	-.013	4.25

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
1	MP-1	X	-.012	.75
2	MP-1	X	-.007	2.5
3	MP-1	X	-.006	2.5
4	MP-1	X	-.005	6
5	MP-2	X	-.007	.25
6	MP-2	X	-.002	2.5
7	MP-3	X	-.005	1
8	MP-3	X	-.005	3
9	MP-4	X	-.013	.25
10	MP-4	X	-.002	2.5
11	MP-5	X	-.012	.75
12	MP-5	X	-.007	2.5
13	MP-5	X	-.006	2.5
14	MP-5	X	-.005	6
15	MP-6	X	-.013	.25
16	MP-6	X	-.002	3
17	MP-7	X	-.007	.25
18	MP-8	X	-.014	.25
19	MP-8	X	-.006	2.5
20	MP-8	X	-.006	2.5
21	MP-8	X	-.007	6



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
22	MP-9	X	-.014	.25
23	MP-10	X	-.009	.25
24	MP-1	X	-.012	5.75
25	MP-2	X	-.007	4.25
26	MP-4	X	-.013	4.75
27	MP-5	X	-.012	5.75
28	MP-6	X	-.013	4.75
29	MP-7	X	-.007	4.25
30	MP-8	X	-.014	4.25
31	MP-9	X	-.014	4.25
32	MP-10	X	-.009	4.25
33	MP-1	Z	-.02	.75
34	MP-1	Z	-.013	2.5
35	MP-1	Z	-.011	2.5
36	MP-1	Z	-.009	6
37	MP-2	Z	-.012	.25
38	MP-2	Z	-.004	2.5
39	MP-3	Z	-.008	1
40	MP-3	Z	-.008	3
41	MP-4	Z	-.023	.25
42	MP-4	Z	-.004	2.5
43	MP-5	Z	-.02	.75
44	MP-5	Z	-.013	2.5
45	MP-5	Z	-.011	2.5
46	MP-5	Z	-.009	6
47	MP-6	Z	-.023	.25
48	MP-6	Z	-.004	3
49	MP-7	Z	-.012	.25
50	MP-8	Z	-.024	.25
51	MP-8	Z	-.01	2.5
52	MP-8	Z	-.01	2.5
53	MP-8	Z	-.013	6
54	MP-9	Z	-.025	.25
55	MP-10	Z	-.016	.25
56	MP-1	Z	-.02	5.75
57	MP-2	Z	-.012	4.25
58	MP-4	Z	-.023	4.75
59	MP-5	Z	-.02	5.75
60	MP-6	Z	-.023	4.75
61	MP-7	Z	-.012	4.25
62	MP-8	Z	-.024	4.25
63	MP-9	Z	-.025	4.25
64	MP-10	Z	-.016	4.25

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
1	MP-1	Z	-.017	.75
2	MP-1	Z	-.012	2.5
3	MP-1	Z	-.011	2.5
4	MP-1	Z	-.009	6
5	MP-2	Z	-.012	.25



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
6	MP-2	Z	-0.05	2.5
7	MP-3	Z	-0.09	1
8	MP-3	Z	-0.09	3
9	MP-4	Z	-0.21	.25
10	MP-4	Z	-0.05	2.5
11	MP-5	Z	-0.17	.75
12	MP-5	Z	-0.12	2.5
13	MP-5	Z	-0.11	2.5
14	MP-5	Z	-0.09	6
15	MP-6	Z	-0.21	.25
16	MP-6	Z	-0.05	3
17	MP-7	Z	-0.12	.25
18	MP-8	Z	-0.12	.25
19	MP-8	Z	-0.12	2.5
20	MP-8	Z	-0.11	2.5
21	MP-8	Z	-0.09	6
22	MP-9	Z	-0.14	.25
23	MP-10	Z	-0.12	.25
24	MP-1	Z	-0.17	5.75
25	MP-2	Z	-0.12	4.25
26	MP-4	Z	-0.21	4.75
27	MP-5	Z	-0.17	5.75
28	MP-6	Z	-0.21	4.75
29	MP-7	Z	-0.12	4.25
30	MP-8	Z	-0.12	4.25
31	MP-9	Z	-0.14	4.25
32	MP-10	Z	-0.12	4.25

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
1	MP-1	X	.012	.75
2	MP-1	X	.007	2.5
3	MP-1	X	.006	2.5
4	MP-1	X	.005	6
5	MP-2	X	.007	.25
6	MP-2	X	.002	2.5
7	MP-3	X	.005	1
8	MP-3	X	.005	3
9	MP-4	X	.013	.25
10	MP-4	X	.002	2.5
11	MP-5	X	.02	.75
12	MP-5	X	.006	2.5
13	MP-5	X	.006	2.5
14	MP-5	X	.007	6
15	MP-6	X	.021	.25
16	MP-6	X	.003	3
17	MP-7	X	.009	.25
18	MP-8	X	.008	.25
19	MP-8	X	.007	2.5
20	MP-8	X	.006	2.5
21	MP-8	X	.005	6



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
22	MP-9	X	.009	.25
23	MP-10	X	.007	.25
24	MP-1	X	.012	5.75
25	MP-2	X	.007	4.25
26	MP-4	X	.013	4.75
27	MP-5	X	.02	5.75
28	MP-6	X	.021	4.75
29	MP-7	X	.009	4.25
30	MP-8	X	.008	4.25
31	MP-9	X	.009	4.25
32	MP-10	X	.007	4.25
33	MP-1	Z	-.02	.75
34	MP-1	Z	-.013	2.5
35	MP-1	Z	-.011	2.5
36	MP-1	Z	-.009	6
37	MP-2	Z	-.012	.25
38	MP-2	Z	-.004	2.5
39	MP-3	Z	-.008	1
40	MP-3	Z	-.008	3
41	MP-4	Z	-.023	.25
42	MP-4	Z	-.004	2.5
43	MP-5	Z	-.035	.75
44	MP-5	Z	-.01	2.5
45	MP-5	Z	-.01	2.5
46	MP-5	Z	-.013	6
47	MP-6	Z	-.037	.25
48	MP-6	Z	-.005	3
49	MP-7	Z	-.016	.25
50	MP-8	Z	-.013	.25
51	MP-8	Z	-.013	2.5
52	MP-8	Z	-.011	2.5
53	MP-8	Z	-.009	6
54	MP-9	Z	-.015	.25
55	MP-10	Z	-.012	.25
56	MP-1	Z	-.02	5.75
57	MP-2	Z	-.012	4.25
58	MP-4	Z	-.023	4.75
59	MP-5	Z	-.035	5.75
60	MP-6	Z	-.037	4.75
61	MP-7	Z	-.016	4.25
62	MP-8	Z	-.013	4.25
63	MP-9	Z	-.015	4.25
64	MP-10	Z	-.012	4.25

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft,%]
1	MP-1	X	.021	.75
2	MP-1	X	.01	2.5
3	MP-1	X	.009	2.5
4	MP-1	X	.008	6
5	MP-2	X	.011	.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
6	MP-2	X	.004	2.5
7	MP-3	X	.007	1
8	MP-3	X	.007	3
9	MP-4	X	.023	.25
10	MP-4	X	.004	2.5
11	MP-5	X	.028	.75
12	MP-5	X	.008	2.5
13	MP-5	X	.008	2.5
14	MP-5	X	.01	6
15	MP-6	X	.029	.25
16	MP-6	X	.004	3
17	MP-7	X	.013	.25
18	MP-8	X	.009	.25
19	MP-8	X	.011	2.5
20	MP-8	X	.009	2.5
21	MP-8	X	.007	6
22	MP-9	X	.01	.25
23	MP-10	X	.009	.25
24	MP-1	X	.021	5.75
25	MP-2	X	.011	4.25
26	MP-4	X	.023	4.75
27	MP-5	X	.028	5.75
28	MP-6	X	.029	4.75
29	MP-7	X	.013	4.25
30	MP-8	X	.009	4.25
31	MP-9	X	.01	4.25
32	MP-10	X	.009	4.25
33	MP-1	Z	-.021	.75
34	MP-1	Z	-.01	2.5
35	MP-1	Z	-.009	2.5
36	MP-1	Z	-.008	6
37	MP-2	Z	-.011	.25
38	MP-2	Z	-.004	2.5
39	MP-3	Z	-.007	1
40	MP-3	Z	-.007	3
41	MP-4	Z	-.023	.25
42	MP-4	Z	-.004	2.5
43	MP-5	Z	-.028	.75
44	MP-5	Z	-.008	2.5
45	MP-5	Z	-.008	2.5
46	MP-5	Z	-.01	6
47	MP-6	Z	-.029	.25
48	MP-6	Z	-.004	3
49	MP-7	Z	-.013	.25
50	MP-8	Z	-.009	.25
51	MP-8	Z	-.011	2.5
52	MP-8	Z	-.009	2.5
53	MP-8	Z	-.007	6
54	MP-9	Z	-.01	.25
55	MP-10	Z	-.009	.25
56	MP-1	Z	-.021	5.75
57	MP-2	Z	-.011	4.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
58	MP-4	Z	-.023	4.75
59	MP-5	Z	-.028	5.75
60	MP-6	Z	-.029	4.75
61	MP-7	Z	-.013	4.25
62	MP-8	Z	-.009	4.25
63	MP-9	Z	-.01	4.25
64	MP-10	Z	-.009	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	.03	.75
2	MP-1	X	.011	2.5
3	MP-1	X	.01	2.5
4	MP-1	X	.012	6
5	MP-2	X	.015	.25
6	MP-2	X	.005	2.5
7	MP-3	X	.008	1
8	MP-3	X	.008	3
9	MP-4	X	.033	.25
10	MP-4	X	.005	2.5
11	MP-5	X	.03	.75
12	MP-5	X	.011	2.5
13	MP-5	X	.01	2.5
14	MP-5	X	.012	6
15	MP-6	X	.033	.25
16	MP-6	X	.005	3
17	MP-7	X	.015	.25
18	MP-8	X	.01	.25
19	MP-8	X	.013	2.5
20	MP-8	X	.011	2.5
21	MP-8	X	.008	6
22	MP-9	X	.012	.25
23	MP-10	X	.01	.25
24	MP-1	X	.03	5.75
25	MP-2	X	.015	4.25
26	MP-4	X	.033	4.75
27	MP-5	X	.03	5.75
28	MP-6	X	.033	4.75
29	MP-7	X	.015	4.25
30	MP-8	X	.01	4.25
31	MP-9	X	.012	4.25
32	MP-10	X	.01	4.25
33	MP-1	Z	-.017	.75
34	MP-1	Z	-.006	2.5
35	MP-1	Z	-.006	2.5
36	MP-1	Z	-.007	6
37	MP-2	Z	-.008	.25
38	MP-2	Z	-.003	2.5
39	MP-3	Z	-.005	1
40	MP-3	Z	-.005	3
41	MP-4	Z	-.019	.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
42	MP-4	Z	-0.03	2.5
43	MP-5	Z	-0.17	.75
44	MP-5	Z	-0.06	2.5
45	MP-5	Z	-0.06	2.5
46	MP-5	Z	-0.07	6
47	MP-6	Z	-0.19	.25
48	MP-6	Z	-0.03	3
49	MP-7	Z	-0.08	.25
50	MP-8	Z	-0.06	.25
51	MP-8	Z	-0.08	2.5
52	MP-8	Z	-0.07	2.5
53	MP-8	Z	-0.05	6
54	MP-9	Z	-0.07	.25
55	MP-10	Z	-0.06	.25
56	MP-1	Z	-0.17	5.75
57	MP-2	Z	-0.08	4.25
58	MP-4	Z	-0.19	4.75
59	MP-5	Z	-0.17	5.75
60	MP-6	Z	-0.19	4.75
61	MP-7	Z	-0.08	4.25
62	MP-8	Z	-0.06	4.25
63	MP-9	Z	-0.07	4.25
64	MP-10	Z	-0.06	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	.041	.75
2	MP-1	X	.016	2.5
3	MP-1	X	.013	2.5
4	MP-1	X	.015	6
5	MP-2	X	.018	.25
6	MP-2	X	.005	2.5
7	MP-3	X	.009	1
8	MP-3	X	.009	3
9	MP-4	X	.043	.25
10	MP-4	X	.005	2.5
11	MP-5	X	.041	.75
12	MP-5	X	.016	2.5
13	MP-5	X	.013	2.5
14	MP-5	X	.015	6
15	MP-6	X	.043	.25
16	MP-6	X	.005	3
17	MP-7	X	.018	.25
18	MP-8	X	.027	.25
19	MP-8	X	.016	2.5
20	MP-8	X	.013	2.5
21	MP-8	X	.015	6
22	MP-9	X	.029	.25
23	MP-10	X	.018	.25
24	MP-1	X	.041	5.75
25	MP-2	X	.018	4.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
26	MP-4	X	.043	4.75
27	MP-5	X	.041	5.75
28	MP-6	X	.043	4.75
29	MP-7	X	.018	4.25
30	MP-8	X	.027	4.25
31	MP-9	X	.029	4.25
32	MP-10	X	.018	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	.03	.75
2	MP-1	X	.011	2.5
3	MP-1	X	.01	2.5
4	MP-1	X	.012	6
5	MP-2	X	.015	.25
6	MP-2	X	.005	2.5
7	MP-3	X	.008	1
8	MP-3	X	.008	3
9	MP-4	X	.033	.25
10	MP-4	X	.005	2.5
11	MP-5	X	.015	.75
12	MP-5	X	.013	2.5
13	MP-5	X	.011	2.5
14	MP-5	X	.008	6
15	MP-6	X	.019	.25
16	MP-6	X	.004	3
17	MP-7	X	.01	.25
18	MP-8	X	.02	.25
19	MP-8	X	.011	2.5
20	MP-8	X	.01	2.5
21	MP-8	X	.012	6
22	MP-9	X	.022	.25
23	MP-10	X	.015	.25
24	MP-1	X	.03	5.75
25	MP-2	X	.015	4.25
26	MP-4	X	.033	4.75
27	MP-5	X	.015	5.75
28	MP-6	X	.019	4.75
29	MP-7	X	.01	4.25
30	MP-8	X	.02	4.25
31	MP-9	X	.022	4.25
32	MP-10	X	.015	4.25
33	MP-1	Z	.017	.75
34	MP-1	Z	.006	2.5
35	MP-1	Z	.006	2.5
36	MP-1	Z	.007	6
37	MP-2	Z	.008	.25
38	MP-2	Z	.003	2.5
39	MP-3	Z	.005	1
40	MP-3	Z	.005	3
41	MP-4	Z	.019	.25



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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]	
42	MP-4	Z	.003	2.5
43	MP-5	Z	.009	.75
44	MP-5	Z	.008	2.5
45	MP-5	Z	.007	2.5
46	MP-5	Z	.005	6
47	MP-6	Z	.011	.25
48	MP-6	Z	.002	3
49	MP-7	Z	.006	.25
50	MP-8	Z	.012	.25
51	MP-8	Z	.006	2.5
52	MP-8	Z	.006	2.5
53	MP-8	Z	.007	6
54	MP-9	Z	.012	.25
55	MP-10	Z	.008	.25
56	MP-1	Z	.017	5.75
57	MP-2	Z	.008	4.25
58	MP-4	Z	.019	4.75
59	MP-5	Z	.009	5.75
60	MP-6	Z	.011	4.75
61	MP-7	Z	.006	4.25
62	MP-8	Z	.012	4.25
63	MP-9	Z	.012	4.25
64	MP-10	Z	.008	4.25

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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]	
1	MP-1	X	.021	.75
2	MP-1	X	.01	2.5
3	MP-1	X	.009	2.5
4	MP-1	X	.008	6
5	MP-2	X	.011	.25
6	MP-2	X	.004	2.5
7	MP-3	X	.007	1
8	MP-3	X	.007	3
9	MP-4	X	.023	.25
10	MP-4	X	.004	2.5
11	MP-5	X	.013	.75
12	MP-5	X	.011	2.5
13	MP-5	X	.009	2.5
14	MP-5	X	.007	6
15	MP-6	X	.016	.25
16	MP-6	X	.003	3
17	MP-7	X	.009	.25
18	MP-8	X	.019	.25
19	MP-8	X	.008	2.5
20	MP-8	X	.008	2.5
21	MP-8	X	.01	6
22	MP-9	X	.02	.25
23	MP-10	X	.013	.25
24	MP-1	X	.021	5.75
25	MP-2	X	.011	4.25



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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]	
26	MP-4	X	.023	4.75
27	MP-5	X	.013	5.75
28	MP-6	X	.016	4.75
29	MP-7	X	.009	4.25
30	MP-8	X	.019	4.25
31	MP-9	X	.02	4.25
32	MP-10	X	.013	4.25
33	MP-1	Z	.021	.75
34	MP-1	Z	.01	2.5
35	MP-1	Z	.009	2.5
36	MP-1	Z	.008	6
37	MP-2	Z	.011	.25
38	MP-2	Z	.004	2.5
39	MP-3	Z	.007	1
40	MP-3	Z	.007	3
41	MP-4	Z	.023	.25
42	MP-4	Z	.004	2.5
43	MP-5	Z	.013	.75
44	MP-5	Z	.011	2.5
45	MP-5	Z	.009	2.5
46	MP-5	Z	.007	6
47	MP-6	Z	.016	.25
48	MP-6	Z	.003	3
49	MP-7	Z	.009	.25
50	MP-8	Z	.019	.25
51	MP-8	Z	.008	2.5
52	MP-8	Z	.008	2.5
53	MP-8	Z	.01	6
54	MP-9	Z	.02	.25
55	MP-10	Z	.013	.25
56	MP-1	Z	.021	5.75
57	MP-2	Z	.011	4.25
58	MP-4	Z	.023	4.75
59	MP-5	Z	.013	5.75
60	MP-6	Z	.016	4.75
61	MP-7	Z	.009	4.25
62	MP-8	Z	.019	4.25
63	MP-9	Z	.02	4.25
64	MP-10	Z	.013	4.25

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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]	
1	MP-1	X	.012	.75
2	MP-1	X	.007	2.5
3	MP-1	X	.006	2.5
4	MP-1	X	.005	6
5	MP-2	X	.007	.25
6	MP-2	X	.002	2.5
7	MP-3	X	.005	1
8	MP-3	X	.005	3
9	MP-4	X	.013	.25



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
10	MP-4	X	.002	2.5
11	MP-5	X	.012	.75
12	MP-5	X	.007	2.5
13	MP-5	X	.006	2.5
14	MP-5	X	.005	6
15	MP-6	X	.013	.25
16	MP-6	X	.002	3
17	MP-7	X	.007	.25
18	MP-8	X	.014	.25
19	MP-8	X	.006	2.5
20	MP-8	X	.006	2.5
21	MP-8	X	.007	6
22	MP-9	X	.014	.25
23	MP-10	X	.009	.25
24	MP-1	X	.012	5.75
25	MP-2	X	.007	4.25
26	MP-4	X	.013	4.75
27	MP-5	X	.012	5.75
28	MP-6	X	.013	4.75
29	MP-7	X	.007	4.25
30	MP-8	X	.014	4.25
31	MP-9	X	.014	4.25
32	MP-10	X	.009	4.25
33	MP-1	Z	.02	.75
34	MP-1	Z	.013	2.5
35	MP-1	Z	.011	2.5
36	MP-1	Z	.009	6
37	MP-2	Z	.012	.25
38	MP-2	Z	.004	2.5
39	MP-3	Z	.008	1
40	MP-3	Z	.008	3
41	MP-4	Z	.023	.25
42	MP-4	Z	.004	2.5
43	MP-5	Z	.02	.75
44	MP-5	Z	.013	2.5
45	MP-5	Z	.011	2.5
46	MP-5	Z	.009	6
47	MP-6	Z	.023	.25
48	MP-6	Z	.004	3
49	MP-7	Z	.012	.25
50	MP-8	Z	.024	.25
51	MP-8	Z	.01	2.5
52	MP-8	Z	.01	2.5
53	MP-8	Z	.013	6
54	MP-9	Z	.025	.25
55	MP-10	Z	.016	.25
56	MP-1	Z	.02	5.75
57	MP-2	Z	.012	4.25
58	MP-4	Z	.023	4.75
59	MP-5	Z	.02	5.75
60	MP-6	Z	.023	4.75
61	MP-7	Z	.012	4.25



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
62	MP-8	Z	.024	4.25
63	MP-9	Z	.025	4.25
64	MP-10	Z	.016	4.25

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	Z	.017	.75
2	MP-1	Z	.012	2.5
3	MP-1	Z	.011	2.5
4	MP-1	Z	.009	6
5	MP-2	Z	.012	.25
6	MP-2	Z	.005	2.5
7	MP-3	Z	.009	1
8	MP-3	Z	.009	3
9	MP-4	Z	.021	.25
10	MP-4	Z	.005	2.5
11	MP-5	Z	.017	.75
12	MP-5	Z	.012	2.5
13	MP-5	Z	.011	2.5
14	MP-5	Z	.009	6
15	MP-6	Z	.021	.25
16	MP-6	Z	.005	3
17	MP-7	Z	.012	.25
18	MP-8	Z	.012	.25
19	MP-8	Z	.012	2.5
20	MP-8	Z	.011	2.5
21	MP-8	Z	.009	6
22	MP-9	Z	.014	.25
23	MP-10	Z	.012	.25
24	MP-1	Z	.017	5.75
25	MP-2	Z	.012	4.25
26	MP-4	Z	.021	4.75
27	MP-5	Z	.017	5.75
28	MP-6	Z	.021	4.75
29	MP-7	Z	.012	4.25
30	MP-8	Z	.012	4.25
31	MP-9	Z	.014	4.25
32	MP-10	Z	.012	4.25

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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	-.012	.75
2	MP-1	X	-.007	2.5
3	MP-1	X	-.006	2.5
4	MP-1	X	-.005	6
5	MP-2	X	-.007	.25
6	MP-2	X	-.002	2.5
7	MP-3	X	-.005	1
8	MP-3	X	-.005	3
9	MP-4	X	-.013	.25
10	MP-4	X	-.002	2.5



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
11	MP-5	X	-.02	.75
12	MP-5	X	-.006	2.5
13	MP-5	X	-.006	2.5
14	MP-5	X	-.007	6
15	MP-6	X	-.021	.25
16	MP-6	X	-.003	3
17	MP-7	X	-.009	.25
18	MP-8	X	-.008	.25
19	MP-8	X	-.007	2.5
20	MP-8	X	-.006	2.5
21	MP-8	X	-.005	6
22	MP-9	X	-.009	.25
23	MP-10	X	-.007	.25
24	MP-1	X	-.012	5.75
25	MP-2	X	-.007	4.25
26	MP-4	X	-.013	4.75
27	MP-5	X	-.02	5.75
28	MP-6	X	-.021	4.75
29	MP-7	X	-.009	4.25
30	MP-8	X	-.008	4.25
31	MP-9	X	-.009	4.25
32	MP-10	X	-.007	4.25
33	MP-1	Z	.02	.75
34	MP-1	Z	.013	2.5
35	MP-1	Z	.011	2.5
36	MP-1	Z	.009	6
37	MP-2	Z	.012	.25
38	MP-2	Z	.004	2.5
39	MP-3	Z	.008	1
40	MP-3	Z	.008	3
41	MP-4	Z	.023	.25
42	MP-4	Z	.004	2.5
43	MP-5	Z	.035	.75
44	MP-5	Z	.01	2.5
45	MP-5	Z	.01	2.5
46	MP-5	Z	.013	6
47	MP-6	Z	.037	.25
48	MP-6	Z	.005	3
49	MP-7	Z	.016	.25
50	MP-8	Z	.013	.25
51	MP-8	Z	.013	2.5
52	MP-8	Z	.011	2.5
53	MP-8	Z	.009	6
54	MP-9	Z	.015	.25
55	MP-10	Z	.012	.25
56	MP-1	Z	.02	5.75
57	MP-2	Z	.012	4.25
58	MP-4	Z	.023	4.75
59	MP-5	Z	.035	5.75
60	MP-6	Z	.037	4.75
61	MP-7	Z	.016	4.25
62	MP-8	Z	.013	4.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
63	MP-9	Z	.015	4.25
64	MP-10	Z	.012	4.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-1	X	-.021	.75
2	MP-1	X	-.01	2.5
3	MP-1	X	-.009	2.5
4	MP-1	X	-.008	6
5	MP-2	X	-.011	.25
6	MP-2	X	-.004	2.5
7	MP-3	X	-.007	1
8	MP-3	X	-.007	3
9	MP-4	X	-.023	.25
10	MP-4	X	-.004	2.5
11	MP-5	X	-.028	.75
12	MP-5	X	-.008	2.5
13	MP-5	X	-.008	2.5
14	MP-5	X	-.01	6
15	MP-6	X	-.029	.25
16	MP-6	X	-.004	3
17	MP-7	X	-.013	.25
18	MP-8	X	-.009	.25
19	MP-8	X	-.011	2.5
20	MP-8	X	-.009	2.5
21	MP-8	X	-.007	6
22	MP-9	X	-.01	.25
23	MP-10	X	-.009	.25
24	MP-1	X	-.021	5.75
25	MP-2	X	-.011	4.25
26	MP-4	X	-.023	4.75
27	MP-5	X	-.028	5.75
28	MP-6	X	-.029	4.75
29	MP-7	X	-.013	4.25
30	MP-8	X	-.009	4.25
31	MP-9	X	-.01	4.25
32	MP-10	X	-.009	4.25
33	MP-1	Z	.021	.75
34	MP-1	Z	.01	2.5
35	MP-1	Z	.009	2.5
36	MP-1	Z	.008	6
37	MP-2	Z	.011	.25
38	MP-2	Z	.004	2.5
39	MP-3	Z	.007	1
40	MP-3	Z	.007	3
41	MP-4	Z	.023	.25
42	MP-4	Z	.004	2.5
43	MP-5	Z	.028	.75
44	MP-5	Z	.008	2.5
45	MP-5	Z	.008	2.5
46	MP-5	Z	.01	6



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]	
47	MP-6	Z	.029	25
48	MP-6	Z	.004	3
49	MP-7	Z	.013	25
50	MP-8	Z	.009	25
51	MP-8	Z	.011	2.5
52	MP-8	Z	.009	2.5
53	MP-8	Z	.007	6
54	MP-9	Z	.01	25
55	MP-10	Z	.009	25
56	MP-1	Z	.021	5.75
57	MP-2	Z	.011	4.25
58	MP-4	Z	.023	4.75
59	MP-5	Z	.028	5.75
60	MP-6	Z	.029	4.75
61	MP-7	Z	.013	4.25
62	MP-8	Z	.009	4.25
63	MP-9	Z	.01	4.25
64	MP-10	Z	.009	4.25

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]	
1	MP-1	X	-.03	.75
2	MP-1	X	-.011	2.5
3	MP-1	X	-.01	2.5
4	MP-1	X	-.012	6
5	MP-2	X	-.015	.25
6	MP-2	X	-.005	2.5
7	MP-3	X	-.008	1
8	MP-3	X	-.008	3
9	MP-4	X	-.033	.25
10	MP-4	X	-.005	2.5
11	MP-5	X	-.03	.75
12	MP-5	X	-.011	2.5
13	MP-5	X	-.01	2.5
14	MP-5	X	-.012	6
15	MP-6	X	-.033	.25
16	MP-6	X	-.005	3
17	MP-7	X	-.015	.25
18	MP-8	X	-.01	.25
19	MP-8	X	-.013	2.5
20	MP-8	X	-.011	2.5
21	MP-8	X	-.008	6
22	MP-9	X	-.012	.25
23	MP-10	X	-.01	.25
24	MP-1	X	-.03	5.75
25	MP-2	X	-.015	4.25
26	MP-4	X	-.033	4.75
27	MP-5	X	-.03	5.75
28	MP-6	X	-.033	4.75
29	MP-7	X	-.015	4.25
30	MP-8	X	-.01	4.25



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]	
31	MP-9	X	-.012	4.25
32	MP-10	X	-.01	4.25
33	MP-1	Z	.017	.75
34	MP-1	Z	.006	2.5
35	MP-1	Z	.006	2.5
36	MP-1	Z	.007	6
37	MP-2	Z	.008	.25
38	MP-2	Z	.003	2.5
39	MP-3	Z	.005	1
40	MP-3	Z	.005	3
41	MP-4	Z	.019	.25
42	MP-4	Z	.003	2.5
43	MP-5	Z	.017	.75
44	MP-5	Z	.006	2.5
45	MP-5	Z	.006	2.5
46	MP-5	Z	.007	6
47	MP-6	Z	.019	.25
48	MP-6	Z	.003	3
49	MP-7	Z	.008	.25
50	MP-8	Z	.006	.25
51	MP-8	Z	.008	2.5
52	MP-8	Z	.007	2.5
53	MP-8	Z	.005	6
54	MP-9	Z	.007	.25
55	MP-10	Z	.006	.25
56	MP-1	Z	.017	5.75
57	MP-2	Z	.008	4.25
58	MP-4	Z	.019	4.75
59	MP-5	Z	.017	5.75
60	MP-6	Z	.019	4.75
61	MP-7	Z	.008	4.25
62	MP-8	Z	.006	4.25
63	MP-9	Z	.007	4.25
64	MP-10	Z	.006	4.25

Member Point Loads (BLC 37 : Seismic Load X)

Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]	
1	MP-1	X	-.03	.75
2	MP-1	X	-.071	2.5
3	MP-1	X	-.072	2.5
4	MP-1	X	-.06	6
5	MP-2	X	-.015	.25
6	MP-2	X	-.016	2.5
7	MP-3	X	-.033	1
8	MP-3	X	-.033	3
9	MP-4	X	-.04	.25
10	MP-4	X	-.016	2.5
11	MP-5	X	-.03	.75
12	MP-5	X	-.071	2.5
13	MP-5	X	-.072	2.5
14	MP-5	X	-.06	6



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP-6	X	-04	25
16	MP-6	X	-016	3
17	MP-7	X	-015	25
18	MP-8	X	-026	25
19	MP-8	X	-071	2.5
20	MP-8	X	-072	2.5
21	MP-8	X	-06	6
22	MP-9	X	-034	25
23	MP-10	X	-015	25
24	MP-1	X	-03	5.75
25	MP-2	X	-015	4.25
26	MP-4	X	-04	4.75
27	MP-5	X	-03	5.75
28	MP-6	X	-04	4.75
29	MP-7	X	-015	4.25
30	MP-8	X	-026	4.25
31	MP-9	X	-034	4.25
32	MP-10	X	-015	4.25

Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-03	.75
2	MP-1	Z	-071	2.5
3	MP-1	Z	-072	2.5
4	MP-1	Z	-06	6
5	MP-2	Z	-015	.25
6	MP-2	Z	-016	2.5
7	MP-3	Z	-033	1
8	MP-3	Z	-033	3
9	MP-4	Z	-04	.25
10	MP-4	Z	-016	2.5
11	MP-5	Z	-03	.75
12	MP-5	Z	-071	2.5
13	MP-5	Z	-072	2.5
14	MP-5	Z	-06	6
15	MP-6	Z	-04	.25
16	MP-6	Z	-016	3
17	MP-7	Z	-015	.25
18	MP-8	Z	-026	.25
19	MP-8	Z	-071	2.5
20	MP-8	Z	-072	2.5
21	MP-8	Z	-06	6
22	MP-9	Z	-034	.25
23	MP-10	Z	-015	.25
24	MP-1	Z	-03	5.75
25	MP-2	Z	-015	4.25
26	MP-4	Z	-04	4.75
27	MP-5	Z	-03	5.75
28	MP-6	Z	-04	4.75
29	MP-7	Z	-015	4.25
30	MP-8	Z	-026	4.25



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
31	MP-9	Z	-034	4.25
32	MP-10	Z	-015	4.25

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....]	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	-011	-011	0	%100
2	SA2	X	-011	-011	0	%100
3	SA3	X	0	0	0	%100
4	GS11	X	-008	-008	0	%100
5	GS12	X	-008	-008	0	%100
6	GS13	X	-018	-018	0	%100
7	FF-H2-3	X	-019	-019	0	%100
8	SF1-H2-3	X	-008	-008	0	%100
9	SF2-H2-1	X	-008	-008	0	%100
10	GS14	X	-007	-007	0	%100
11	GS15	X	-007	-007	0	%100
12	GS16	X	-016	-016	0	%100
13	GS17	X	-007	-007	0	%100
14	GS18	X	-007	-007	0	%100
15	GS19	X	-015	-015	0	%100
16	GSC2	X	-005	-005	0	%100
17	GSC1	X	-005	-005	0	%100
18	GSC3	X	-011	-011	0	%100
19	SF1-H2-2	X	-008	-008	0	%100
20	FF-H2-2	X	-019	-019	0	%100
21	SF2-H2-2	X	-008	-008	0	%100
22	SF1-H2-1	X	-008	-008	0	%100
23	FF-H2-1	X	-019	-019	0	%100
24	SF2-H2-3	X	-008	-008	0	%100
25	MP-1	X	-007	-007	0	%100
26	MP-2	X	-007	-007	0	%100
27	MP-3	X	-007	-007	0	%100
28	MP-4	X	-007	-007	0	%100
29	MP-5	X	-007	-007	0	%100
30	MP-6	X	-007	-007	0	%100
31	MP-7	X	-007	-007	0	%100
32	MP-8	X	-007	-007	0	%100
33	MP-9	X	-007	-007	0	%100
34	MP-10	X	-007	-007	0	%100
35	HR1	X	-007	-007	0	%100
36	HR2	X	-004	-004	0	%100
37	HR3	X	-004	-004	0	%100
38	HC1	X	-004	-004	0	%100
39	HC2	X	-004	-004	0	%100
40	HC3	X	-009	-009	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....]	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	-006	-006	0	%100
2	SA2	X	-011	-011	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
3	SA3	X	-0.04	-0.04	0	%100
4	GS11	X	-0.11	-0.11	0	%100
5	GS12	X	0	0	0	%100
6	GS13	X	-0.13	-0.13	0	%100
7	FF-H2-3	X	-0.14	-0.14	0	%100
8	SF1-H2-3	X	-0.12	-0.12	0	%100
9	SF2-H2-1	X	0	0	0	%100
10	GS14	X	-0.11	-0.11	0	%100
11	GS15	X	0	0	0	%100
12	GS16	X	-0.12	-0.12	0	%100
13	GS17	X	-0.1	-0.1	0	%100
14	GS18	X	0	0	0	%100
15	GS19	X	-0.11	-0.11	0	%100
16	GSC2	X	0	0	0	%100
17	GSC1	X	-0.08	-0.08	0	%100
18	GSC3	X	-0.08	-0.08	0	%100
19	SF1-H2-2	X	-0.13	-0.13	0	%100
20	FF-H2-2	X	-0.14	-0.14	0	%100
21	SF2-H2-2	X	0	0	0	%100
22	SF1-H2-1	X	-0.12	-0.12	0	%100
23	FF-H2-1	X	-0.14	-0.14	0	%100
24	SF2-H2-3	X	0	0	0	%100
25	MP-1	X	-0.06	-0.06	0	%100
26	MP-2	X	-0.06	-0.06	0	%100
27	MP-3	X	-0.06	-0.06	0	%100
28	MP-4	X	-0.06	-0.06	0	%100
29	MP-5	X	-0.06	-0.06	0	%100
30	MP-6	X	-0.06	-0.06	0	%100
31	MP-7	X	-0.06	-0.06	0	%100
32	MP-8	X	-0.06	-0.06	0	%100
33	MP-9	X	-0.06	-0.06	0	%100
34	MP-10	X	-0.06	-0.06	0	%100
35	HR1	X	-0.06	-0.06	0	%100
36	HR2	X	-0.06	-0.06	0	%100
37	HR3	X	0	0	0	%100
38	HC1	X	-0.06	-0.06	0	%100
39	HC2	X	0	0	0	%100
40	HC3	X	-0.07	-0.07	0	%100
41	SA1	Z	-0.03	-0.03	0	%100
42	SA2	Z	-0.06	-0.06	0	%100
43	SA3	Z	-0.03	-0.03	0	%100
44	GS11	Z	-0.07	-0.07	0	%100
45	GS12	Z	0	0	0	%100
46	GS13	Z	-0.08	-0.08	0	%100
47	FF-H2-3	Z	-0.08	-0.08	0	%100
48	SF1-H2-3	Z	-0.08	-0.08	0	%100
49	SF2-H2-1	Z	0	0	0	%100
50	GS14	Z	-0.07	-0.07	0	%100
51	GS15	Z	0	0	0	%100
52	GS16	Z	-0.07	-0.07	0	%100
53	GS17	Z	-0.06	-0.06	0	%100
54	GS18	Z	0	0	0	%100



Company : Tower Engineering Professionals
 Designer : S.JL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
55	GS19	Z	-0.06	-0.06	0	%100
56	GSC2	Z	0	0	0	%100
57	GSC1	Z	-0.05	-0.05	0	%100
58	GSC3	Z	-0.05	-0.05	0	%100
59	SF1-H2-2	Z	-0.08	-0.08	0	%100
60	FF-H2-2	Z	-0.08	-0.08	0	%100
61	SF2-H2-2	Z	0	0	0	%100
62	SF1-H2-1	Z	-0.08	-0.08	0	%100
63	FF-H2-1	Z	-0.08	-0.08	0	%100
64	SF2-H2-3	Z	0	0	0	%100
65	MP-1	Z	-0.04	-0.04	0	%100
66	MP-2	Z	-0.04	-0.04	0	%100
67	MP-3	Z	-0.04	-0.04	0	%100
68	MP-4	Z	-0.04	-0.04	0	%100
69	MP-5	Z	-0.04	-0.04	0	%100
70	MP-6	Z	-0.04	-0.04	0	%100
71	MP-7	Z	-0.04	-0.04	0	%100
72	MP-8	Z	-0.04	-0.04	0	%100
73	MP-9	Z	-0.04	-0.04	0	%100
74	MP-10	Z	-0.04	-0.04	0	%100
75	HR1	Z	-0.03	-0.03	0	%100
76	HR2	Z	-0.03	-0.03	0	%100
77	HR3	Z	0	0	0	%100
78	HC1	Z	-0.04	-0.04	0	%100
79	HC2	Z	0	0	0	%100
80	HC3	Z	-0.04	-0.04	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	SA1	X	-0.02	-0.02	0	%100
2	SA2	X	-0.09	-0.09	0	%100
3	SA3	X	-0.05	-0.05	0	%100
4	GS11	X	-0.1	-0.1	0	%100
5	GS12	X	-0.03	-0.03	0	%100
6	GS13	X	-0.09	-0.09	0	%100
7	FF-H2-3	X	-0.1	-0.1	0	%100
8	SF1-H2-3	X	-0.11	-0.11	0	%100
9	SF2-H2-1	X	-0.03	-0.03	0	%100
10	GS14	X	-0.1	-0.1	0	%100
11	GS15	X	-0.03	-0.03	0	%100
12	GS16	X	-0.08	-0.08	0	%100
13	GS17	X	-0.09	-0.09	0	%100
14	GS18	X	-0.02	-0.02	0	%100
15	GS19	X	-0.07	-0.07	0	%100
16	GSC2	X	-0.02	-0.02	0	%100
17	GSC1	X	-0.07	-0.07	0	%100
18	GSC3	X	-0.05	-0.05	0	%100
19	SF1-H2-2	X	-0.12	-0.12	0	%100
20	FF-H2-2	X	-0.1	-0.1	0	%100
21	SF2-H2-2	X	-0.03	-0.03	0	%100
22	SF1-H2-1	X	-0.11	-0.11	0	%100



Company : Tower Engineering Professionals
 Designer : S.JL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
23	FF-H2-1	X	-01	-01	0	%100
24	SF2-H2-3	X	-003	-003	0	%100
25	MP-1	X	-005	-005	0	%100
26	MP-2	X	-005	-005	0	%100
27	MP-3	X	-005	-005	0	%100
28	MP-4	X	-005	-005	0	%100
29	MP-5	X	-005	-005	0	%100
30	MP-6	X	-005	-005	0	%100
31	MP-7	X	-005	-005	0	%100
32	MP-8	X	-005	-005	0	%100
33	MP-9	X	-005	-005	0	%100
34	MP-10	X	-005	-005	0	%100
35	HR1	X	-004	-004	0	%100
36	HR2	X	-005	-005	0	%100
37	HR3	X	-001	-001	0	%100
38	HC1	X	-005	-005	0	%100
39	HC2	X	-001	-001	0	%100
40	HC3	X	-004	-004	0	%100
41	SA1	Z	-002	-002	0	%100
42	SA2	Z	-008	-008	0	%100
43	SA3	Z	-007	-007	0	%100
44	GS11	Z	-012	-012	0	%100
45	GS12	Z	-003	-003	0	%100
46	GS13	Z	-009	-009	0	%100
47	FF-H2-3	Z	-01	-01	0	%100
48	SF1-H2-3	Z	-013	-013	0	%100
49	SF2-H2-1	Z	-003	-003	0	%100
50	GS14	Z	-011	-011	0	%100
51	GS15	Z	-003	-003	0	%100
52	GS16	Z	-008	-008	0	%100
53	GS17	Z	-01	-01	0	%100
54	GS18	Z	-003	-003	0	%100
55	GS19	Z	-007	-007	0	%100
56	GSC2	Z	-002	-002	0	%100
57	GSC1	Z	-007	-007	0	%100
58	GSC3	Z	-005	-005	0	%100
59	SF1-H2-2	Z	-013	-013	0	%100
60	FF-H2-2	Z	-01	-01	0	%100
61	SF2-H2-2	Z	-003	-003	0	%100
62	SF1-H2-1	Z	-013	-013	0	%100
63	FF-H2-1	Z	-01	-01	0	%100
64	SF2-H2-3	Z	-003	-003	0	%100
65	MP-1	Z	-005	-005	0	%100
66	MP-2	Z	-005	-005	0	%100
67	MP-3	Z	-005	-005	0	%100
68	MP-4	Z	-005	-005	0	%100
69	MP-5	Z	-005	-005	0	%100
70	MP-6	Z	-005	-005	0	%100
71	MP-7	Z	-005	-005	0	%100
72	MP-8	Z	-005	-005	0	%100
73	MP-9	Z	-005	-005	0	%100
74	MP-10	Z	-005	-005	0	%100



Company : Tower Engineering Professionals
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 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
75	HR1	Z	-004	-004	0	%100
76	HR2	Z	-005	-005	0	%100
77	HR3	Z	-001	-001	0	%100
78	HC1	Z	-006	-006	0	%100
79	HC2	Z	-002	-002	0	%100
80	HC3	Z	-004	-004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	SA1	X	0	0	0	%100
2	SA2	X	-006	-006	0	%100
3	SA3	X	-004	-004	0	%100
4	GS11	X	-008	-008	0	%100
5	GS12	X	-004	-004	0	%100
6	GS13	X	-004	-004	0	%100
7	FF-H2-3	X	-005	-005	0	%100
8	SF1-H2-3	X	-008	-008	0	%100
9	SF2-H2-1	X	-004	-004	0	%100
10	GS14	X	-007	-007	0	%100
11	GS15	X	-004	-004	0	%100
12	GS16	X	-004	-004	0	%100
13	GS17	X	-007	-007	0	%100
14	GS18	X	-003	-003	0	%100
15	GS19	X	-004	-004	0	%100
16	GSC2	X	-003	-003	0	%100
17	GSC1	X	-005	-005	0	%100
18	GSC3	X	-003	-003	0	%100
19	SF1-H2-2	X	-008	-008	0	%100
20	FF-H2-2	X	-005	-005	0	%100
21	SF2-H2-2	X	-004	-004	0	%100
22	SF1-H2-1	X	-008	-008	0	%100
23	FF-H2-1	X	-005	-005	0	%100
24	SF2-H2-3	X	-004	-004	0	%100
25	MP-1	X	-004	-004	0	%100
26	MP-2	X	-004	-004	0	%100
27	MP-3	X	-004	-004	0	%100
28	MP-4	X	-004	-004	0	%100
29	MP-5	X	-004	-004	0	%100
30	MP-6	X	-004	-004	0	%100
31	MP-7	X	-004	-004	0	%100
32	MP-8	X	-004	-004	0	%100
33	MP-9	X	-004	-004	0	%100
34	MP-10	X	-004	-004	0	%100
35	HR1	X	-002	-002	0	%100
36	HR2	X	-004	-004	0	%100
37	HR3	X	-002	-002	0	%100
38	HC1	X	-004	-004	0	%100
39	HC2	X	-002	-002	0	%100
40	HC3	X	-002	-002	0	%100
41	SA1	Z	0	0	0	%100
42	SA2	Z	-009	-009	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
43	SA3	Z	-01	-01	0	%100
44	GS11	Z	-015	-015	0	%100
45	GS12	Z	-007	-007	0	%100
46	GS13	Z	-008	-008	0	%100
47	FF-H2-3	Z	-008	-008	0	%100
48	SF1-H2-3	Z	-016	-016	0	%100
49	SF2-H2-1	Z	-008	-008	0	%100
50	GS14	Z	-014	-014	0	%100
51	GS15	Z	-007	-007	0	%100
52	GS16	Z	-007	-007	0	%100
53	GS17	Z	-012	-012	0	%100
54	GS18	Z	-006	-006	0	%100
55	GS19	Z	-006	-006	0	%100
56	GSC2	Z	-005	-005	0	%100
57	GSC1	Z	-009	-009	0	%100
58	GSC3	Z	-005	-005	0	%100
59	SF1-H2-2	Z	-016	-016	0	%100
60	FF-H2-2	Z	-008	-008	0	%100
61	SF2-H2-2	Z	-008	-008	0	%100
62	SF1-H2-1	Z	-016	-016	0	%100
63	FF-H2-1	Z	-008	-008	0	%100
64	SF2-H2-3	Z	-008	-008	0	%100
65	MP-1	Z	-006	-006	0	%100
66	MP-2	Z	-006	-006	0	%100
67	MP-3	Z	-006	-006	0	%100
68	MP-4	Z	-006	-006	0	%100
69	MP-5	Z	-006	-006	0	%100
70	MP-6	Z	-006	-006	0	%100
71	MP-7	Z	-006	-006	0	%100
72	MP-8	Z	-006	-006	0	%100
73	MP-9	Z	-006	-006	0	%100
74	MP-10	Z	-006	-006	0	%100
75	HR1	Z	-003	-003	0	%100
76	HR2	Z	-006	-006	0	%100
77	HR3	Z	-003	-003	0	%100
78	HC1	Z	-007	-007	0	%100
79	HC2	Z	-004	-004	0	%100
80	HC3	Z	-004	-004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	SA1	Z	-006	-006	0	%100
2	SA2	Z	-006	-006	0	%100
3	SA3	Z	-014	-014	0	%100
4	GS11	Z	-015	-015	0	%100
5	GS12	Z	-015	-015	0	%100
6	GS13	Z	0	0	0	%100
7	FF-H2-3	Z	0	0	0	%100
8	SF1-H2-3	Z	-016	-016	0	%100
9	SF2-H2-1	Z	-016	-016	0	%100
10	GS14	Z	-014	-014	0	%100



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 Designer : S.J.L
 Job Number : TEP No. 218217.416540
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Member Distributed Loads (BLC 6 : 90 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
11	GS15	Z	-014	-014	0	%100
12	GS16	Z	0	0	0	%100
13	GS17	Z	-012	-012	0	%100
14	GS18	Z	-012	-012	0	%100
15	GS19	Z	0	0	0	%100
16	GSC2	Z	-009	-009	0	%100
17	GSC1	Z	-009	-009	0	%100
18	GSC3	Z	0	0	0	%100
19	SF1-H2-2	Z	-016	-016	0	%100
20	FF-H2-2	Z	0	0	0	%100
21	SF2-H2-2	Z	-016	-016	0	%100
22	SF1-H2-1	Z	-016	-016	0	%100
23	FF-H2-1	Z	0	0	0	%100
24	SF2-H2-3	Z	-016	-016	0	%100
25	MP-1	Z	-007	-007	0	%100
26	MP-2	Z	-007	-007	0	%100
27	MP-3	Z	-007	-007	0	%100
28	MP-4	Z	-007	-007	0	%100
29	MP-5	Z	-007	-007	0	%100
30	MP-6	Z	-007	-007	0	%100
31	MP-7	Z	-007	-007	0	%100
32	MP-8	Z	-007	-007	0	%100
33	MP-9	Z	-007	-007	0	%100
34	MP-10	Z	-007	-007	0	%100
35	HR1	Z	0	0	0	%100
36	HR2	Z	-006	-006	0	%100
37	HR3	Z	-006	-006	0	%100
38	HC1	Z	-007	-007	0	%100
39	HC2	Z	-007	-007	0	%100
40	HC3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	SA1	X	.006	.006	0	%100
2	SA2	X	0	0	0	%100
3	SA3	X	.004	.004	0	%100
4	GS11	X	.004	.004	0	%100
5	GS12	X	.008	.008	0	%100
6	GS13	X	.004	.004	0	%100
7	FF-H2-3	X	.005	.005	0	%100
8	SF1-H2-3	X	.004	.004	0	%100
9	SF2-H2-1	X	.008	.008	0	%100
10	GS14	X	.004	.004	0	%100
11	GS15	X	.007	.007	0	%100
12	GS16	X	.004	.004	0	%100
13	GS17	X	.003	.003	0	%100
14	GS18	X	.007	.007	0	%100
15	GS19	X	.004	.004	0	%100
16	GSC2	X	.005	.005	0	%100
17	GSC1	X	.003	.003	0	%100
18	GSC3	X	.003	.003	0	%100



Company : Tower Engineering Professionals
 Designer : S.JL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
19	SF1-H2-2	X	.004	.004	0 %100
20	FF-H2-2	X	.005	.005	0 %100
21	SF2-H2-2	X	.008	.008	0 %100
22	SF1-H2-1	X	.004	.004	0 %100
23	FF-H2-1	X	.005	.005	0 %100
24	SF2-H2-3	X	.008	.008	0 %100
25	MP-1	X	.004	.004	0 %100
26	MP-2	X	.004	.004	0 %100
27	MP-3	X	.004	.004	0 %100
28	MP-4	X	.004	.004	0 %100
29	MP-5	X	.004	.004	0 %100
30	MP-6	X	.004	.004	0 %100
31	MP-7	X	.004	.004	0 %100
32	MP-8	X	.004	.004	0 %100
33	MP-9	X	.004	.004	0 %100
34	MP-10	X	.004	.004	0 %100
35	HR1	X	.002	.002	0 %100
36	HR2	X	.002	.002	0 %100
37	HR3	X	.004	.004	0 %100
38	HC1	X	.002	.002	0 %100
39	HC2	X	.004	.004	0 %100
40	HC3	X	.002	.002	0 %100
41	SA1	Z	-.009	-.009	0 %100
42	SA2	Z	0	0	0 %100
43	SA3	Z	-.01	-.01	0 %100
44	GS1	Z	-.007	-.007	0 %100
45	GS2	Z	-.015	-.015	0 %100
46	GS3	Z	-.008	-.008	0 %100
47	FF-H2-3	Z	-.008	-.008	0 %100
48	SF1-H2-3	Z	-.008	-.008	0 %100
49	SF2-H2-1	Z	-.016	-.016	0 %100
50	GS4	Z	-.007	-.007	0 %100
51	GS5	Z	-.014	-.014	0 %100
52	GS6	Z	-.007	-.007	0 %100
53	GS7	Z	-.006	-.006	0 %100
54	GS8	Z	-.012	-.012	0 %100
55	GS9	Z	-.006	-.006	0 %100
56	GSC2	Z	-.009	-.009	0 %100
57	GSC1	Z	-.005	-.005	0 %100
58	GSC3	Z	-.005	-.005	0 %100
59	SF1-H2-2	Z	-.008	-.008	0 %100
60	FF-H2-2	Z	-.008	-.008	0 %100
61	SF2-H2-2	Z	-.016	-.016	0 %100
62	SF1-H2-1	Z	-.008	-.008	0 %100
63	FF-H2-1	Z	-.008	-.008	0 %100
64	SF2-H2-3	Z	-.016	-.016	0 %100
65	MP-1	Z	-.006	-.006	0 %100
66	MP-2	Z	-.006	-.006	0 %100
67	MP-3	Z	-.006	-.006	0 %100
68	MP-4	Z	-.006	-.006	0 %100
69	MP-5	Z	-.006	-.006	0 %100
70	MP-6	Z	-.006	-.006	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
71	MP-7	Z	-.006	-.006	0 %100
72	MP-8	Z	-.006	-.006	0 %100
73	MP-9	Z	-.006	-.006	0 %100
74	MP-10	Z	-.006	-.006	0 %100
75	HR1	Z	-.003	-.003	0 %100
76	HR2	Z	-.003	-.003	0 %100
77	HR3	Z	-.006	-.006	0 %100
78	HC1	Z	-.004	-.004	0 %100
79	HC2	Z	-.007	-.007	0 %100
80	HC3	Z	-.004	-.004	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	.009	.009	0 %100
2	SA2	X	.002	.002	0 %100
3	SA3	X	.005	.005	0 %100
4	GS1	X	.003	.003	0 %100
5	GS2	X	.01	.01	0 %100
6	GS3	X	.009	.009	0 %100
7	FF-H2-3	X	.01	.01	0 %100
8	SF1-H2-3	X	.003	.003	0 %100
9	SF2-H2-1	X	.011	.011	0 %100
10	GS4	X	.003	.003	0 %100
11	GS5	X	.01	.01	0 %100
12	GS6	X	.008	.008	0 %100
13	GS7	X	.002	.002	0 %100
14	GS8	X	.009	.009	0 %100
15	GS9	X	.007	.007	0 %100
16	GSC2	X	.007	.007	0 %100
17	GSC1	X	.002	.002	0 %100
18	GSC3	X	.005	.005	0 %100
19	SF1-H2-2	X	.003	.003	0 %100
20	FF-H2-2	X	.01	.01	0 %100
21	SF2-H2-2	X	.012	.012	0 %100
22	SF1-H2-1	X	.003	.003	0 %100
23	FF-H2-1	X	.01	.01	0 %100
24	SF2-H2-3	X	.011	.011	0 %100
25	MP-1	X	.005	.005	0 %100
26	MP-2	X	.005	.005	0 %100
27	MP-3	X	.005	.005	0 %100
28	MP-4	X	.005	.005	0 %100
29	MP-5	X	.005	.005	0 %100
30	MP-6	X	.005	.005	0 %100
31	MP-7	X	.005	.005	0 %100
32	MP-8	X	.005	.005	0 %100
33	MP-9	X	.005	.005	0 %100
34	MP-10	X	.005	.005	0 %100
35	HR1	X	.004	.004	0 %100
36	HR2	X	.001	.001	0 %100
37	HR3	X	.005	.005	0 %100
38	HC1	X	.001	.001	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
39	HC2	X	.005	.005	0 %100
40	HC3	X	.004	.004	0 %100
41	SA1	Z	-.008	-.008	0 %100
42	SA2	Z	-.002	-.002	0 %100
43	SA3	Z	-.007	-.007	0 %100
44	GS11	Z	-.003	-.003	0 %100
45	GS12	Z	-.012	-.012	0 %100
46	GS13	Z	-.009	-.009	0 %100
47	FF-H2-3	Z	-.01	-.01	0 %100
48	SF1-H2-3	Z	-.003	-.003	0 %100
49	SF2-H2-1	Z	-.013	-.013	0 %100
50	GS14	Z	-.003	-.003	0 %100
51	GS15	Z	-.011	-.011	0 %100
52	GS16	Z	-.008	-.008	0 %100
53	GS17	Z	-.003	-.003	0 %100
54	GS18	Z	-.01	-.01	0 %100
55	GS19	Z	-.007	-.007	0 %100
56	GSC2	Z	-.007	-.007	0 %100
57	GSC1	Z	-.002	-.002	0 %100
58	GSC3	Z	-.005	-.005	0 %100
59	SF1-H2-2	Z	-.003	-.003	0 %100
60	FF-H2-2	Z	-.01	-.01	0 %100
61	SF2-H2-2	Z	-.013	-.013	0 %100
62	SF1-H2-1	Z	-.003	-.003	0 %100
63	FF-H2-1	Z	-.01	-.01	0 %100
64	SF2-H2-3	Z	-.013	-.013	0 %100
65	MP-1	Z	-.005	-.005	0 %100
66	MP-2	Z	-.005	-.005	0 %100
67	MP-3	Z	-.005	-.005	0 %100
68	MP-4	Z	-.005	-.005	0 %100
69	MP-5	Z	-.005	-.005	0 %100
70	MP-6	Z	-.005	-.005	0 %100
71	MP-7	Z	-.005	-.005	0 %100
72	MP-8	Z	-.005	-.005	0 %100
73	MP-9	Z	-.005	-.005	0 %100
74	MP-10	Z	-.005	-.005	0 %100
75	HR1	Z	-.004	-.004	0 %100
76	HR2	Z	-.001	-.001	0 %100
77	HR3	Z	-.005	-.005	0 %100
78	HC1	Z	-.002	-.002	0 %100
79	HC2	Z	-.006	-.006	0 %100
80	HC3	Z	-.004	-.004	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	.011	.011	0 %100
2	SA2	X	.006	.006	0 %100
3	SA3	X	.004	.004	0 %100
4	GS11	X	0	0	0 %100
5	GS12	X	.011	.011	0 %100
6	GS13	X	.013	.013	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
7	FF-H2-3	X	.014	.014	0 %100
8	SF1-H2-3	X	0	0	0 %100
9	SF2-H2-1	X	.012	.012	0 %100
10	GS14	X	0	0	0 %100
11	GS15	X	.011	.011	0 %100
12	GS16	X	.012	.012	0 %100
13	GS17	X	0	0	0 %100
14	GS18	X	.01	.01	0 %100
15	GS19	X	.011	.011	0 %100
16	GSC2	X	.008	.008	0 %100
17	GSC1	X	0	0	0 %100
18	GSC3	X	.008	.008	0 %100
19	SF1-H2-2	X	0	0	0 %100
20	FF-H2-2	X	.014	.014	0 %100
21	SF2-H2-2	X	.013	.013	0 %100
22	SF1-H2-1	X	0	0	0 %100
23	FF-H2-1	X	.014	.014	0 %100
24	SF2-H2-3	X	.012	.012	0 %100
25	MP-1	X	.006	.006	0 %100
26	MP-2	X	.006	.006	0 %100
27	MP-3	X	.006	.006	0 %100
28	MP-4	X	.006	.006	0 %100
29	MP-5	X	.006	.006	0 %100
30	MP-6	X	.006	.006	0 %100
31	MP-7	X	.006	.006	0 %100
32	MP-8	X	.006	.006	0 %100
33	MP-9	X	.006	.006	0 %100
34	MP-10	X	.006	.006	0 %100
35	HR1	X	.006	.006	0 %100
36	HR2	X	0	0	0 %100
37	HR3	X	.006	.006	0 %100
38	HC1	X	0	0	0 %100
39	HC2	X	.006	.006	0 %100
40	HC3	X	.007	.007	0 %100
41	SA1	Z	-.006	-.006	0 %100
42	SA2	Z	-.003	-.003	0 %100
43	SA3	Z	-.003	-.003	0 %100
44	GS11	Z	0	0	0 %100
45	GS12	Z	-.007	-.007	0 %100
46	GS13	Z	-.008	-.008	0 %100
47	FF-H2-3	Z	-.008	-.008	0 %100
48	SF1-H2-3	Z	0	0	0 %100
49	SF2-H2-1	Z	-.008	-.008	0 %100
50	GS14	Z	0	0	0 %100
51	GS15	Z	-.007	-.007	0 %100
52	GS16	Z	-.007	-.007	0 %100
53	GS17	Z	0	0	0 %100
54	GS18	Z	-.006	-.006	0 %100
55	GS19	Z	-.006	-.006	0 %100
56	GSC2	Z	-.005	-.005	0 %100
57	GSC1	Z	0	0	0 %100
58	GSC3	Z	-.005	-.005	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
59	SF1-H2-2	Z	0	0	%100
60	FF-H2-2	Z	-.008	-.008	%100
61	SF2-H2-2	Z	-.008	-.008	%100
62	SF1-H2-1	Z	0	0	%100
63	FF-H2-1	Z	-.008	-.008	%100
64	SF2-H2-3	Z	-.008	-.008	%100
65	MP-1	Z	-.004	-.004	%100
66	MP-2	Z	-.004	-.004	%100
67	MP-3	Z	-.004	-.004	%100
68	MP-4	Z	-.004	-.004	%100
69	MP-5	Z	-.004	-.004	%100
70	MP-6	Z	-.004	-.004	%100
71	MP-7	Z	-.004	-.004	%100
72	MP-8	Z	-.004	-.004	%100
73	MP-9	Z	-.004	-.004	%100
74	MP-10	Z	-.004	-.004	%100
75	HR1	Z	-.003	-.003	%100
76	HR2	Z	0	0	%100
77	HR3	Z	-.003	-.003	%100
78	HC1	Z	0	0	%100
79	HC2	Z	-.004	-.004	%100
80	HC3	Z	-.004	-.004	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	.011	.011	%100
2	SA2	X	.011	.011	%100
3	SA3	X	0	0	%100
4	GS1	X	.008	.008	%100
5	GS2	X	.008	.008	%100
6	GS3	X	.018	.018	%100
7	FF-H2-3	X	.019	.019	%100
8	SF1-H2-3	X	.008	.008	%100
9	SF2-H2-1	X	.008	.008	%100
10	GS4	X	.007	.007	%100
11	GS5	X	.007	.007	%100
12	GS6	X	.016	.016	%100
13	GS7	X	.007	.007	%100
14	GS8	X	.007	.007	%100
15	GS9	X	.015	.015	%100
16	GSC2	X	.005	.005	%100
17	GSC1	X	.005	.005	%100
18	GSC3	X	.011	.011	%100
19	SF1-H2-2	X	.008	.008	%100
20	FF-H2-2	X	.019	.019	%100
21	SF2-H2-2	X	.008	.008	%100
22	SF1-H2-1	X	.008	.008	%100
23	FF-H2-1	X	.019	.019	%100
24	SF2-H2-3	X	.008	.008	%100
25	MP-1	X	.007	.007	%100
26	MP-2	X	.007	.007	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
27	MP-3	X	.007	.007	%100
28	MP-4	X	.007	.007	%100
29	MP-5	X	.007	.007	%100
30	MP-6	X	.007	.007	%100
31	MP-7	X	.007	.007	%100
32	MP-8	X	.007	.007	%100
33	MP-9	X	.007	.007	%100
34	MP-10	X	.007	.007	%100
35	HR1	X	.007	.007	%100
36	HR2	X	.004	.004	%100
37	HR3	X	.004	.004	%100
38	HC1	X	.004	.004	%100
39	HC2	X	.004	.004	%100
40	HC3	X	.009	.009	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	.006	.006	%100
2	SA2	X	.011	.011	%100
3	SA3	X	.004	.004	%100
4	GS1	X	.011	.011	%100
5	GS2	X	0	0	%100
6	GS3	X	.013	.013	%100
7	FF-H2-3	X	.014	.014	%100
8	SF1-H2-3	X	.012	.012	%100
9	SF2-H2-1	X	0	0	%100
10	GS4	X	.011	.011	%100
11	GS5	X	0	0	%100
12	GS6	X	.012	.012	%100
13	GS7	X	.01	.01	%100
14	GS8	X	0	0	%100
15	GS9	X	.011	.011	%100
16	GSC2	X	0	0	%100
17	GSC1	X	.008	.008	%100
18	GSC3	X	.008	.008	%100
19	SF1-H2-2	X	.013	.013	%100
20	FF-H2-2	X	.014	.014	%100
21	SF2-H2-2	X	0	0	%100
22	SF1-H2-1	X	.012	.012	%100
23	FF-H2-1	X	.014	.014	%100
24	SF2-H2-3	X	0	0	%100
25	MP-1	X	.006	.006	%100
26	MP-2	X	.006	.006	%100
27	MP-3	X	.006	.006	%100
28	MP-4	X	.006	.006	%100
29	MP-5	X	.006	.006	%100
30	MP-6	X	.006	.006	%100
31	MP-7	X	.006	.006	%100
32	MP-8	X	.006	.006	%100
33	MP-9	X	.006	.006	%100
34	MP-10	X	.006	.006	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
35	HR1	X	.006	.006	0 %100
36	HR2	X	.006	.006	0 %100
37	HR3	X	0	0	0 %100
38	HC1	X	.006	.006	0 %100
39	HC2	X	0	0	0 %100
40	HC3	X	.007	.007	0 %100
41	SA1	Z	.003	.003	0 %100
42	SA2	Z	.006	.006	0 %100
43	SA3	Z	.003	.003	0 %100
44	GS11	Z	.007	.007	0 %100
45	GS12	Z	0	0	0 %100
46	GS13	Z	.008	.008	0 %100
47	FF-H2-3	Z	.008	.008	0 %100
48	SF1-H2-3	Z	.008	.008	0 %100
49	SF2-H2-1	Z	0	0	0 %100
50	GS14	Z	.007	.007	0 %100
51	GS15	Z	0	0	0 %100
52	GS16	Z	.007	.007	0 %100
53	GS17	Z	.006	.006	0 %100
54	GS18	Z	0	0	0 %100
55	GS19	Z	.006	.006	0 %100
56	GSC2	Z	0	0	0 %100
57	GSC1	Z	.005	.005	0 %100
58	GSC3	Z	.005	.005	0 %100
59	SF1-H2-2	Z	.008	.008	0 %100
60	FF-H2-2	Z	.008	.008	0 %100
61	SF2-H2-2	Z	0	0	0 %100
62	SF1-H2-1	Z	.008	.008	0 %100
63	FF-H2-1	Z	.008	.008	0 %100
64	SF2-H2-3	Z	0	0	0 %100
65	MP-1	Z	.004	.004	0 %100
66	MP-2	Z	.004	.004	0 %100
67	MP-3	Z	.004	.004	0 %100
68	MP-4	Z	.004	.004	0 %100
69	MP-5	Z	.004	.004	0 %100
70	MP-6	Z	.004	.004	0 %100
71	MP-7	Z	.004	.004	0 %100
72	MP-8	Z	.004	.004	0 %100
73	MP-9	Z	.004	.004	0 %100
74	MP-10	Z	.004	.004	0 %100
75	HR1	Z	.003	.003	0 %100
76	HR2	Z	.003	.003	0 %100
77	HR3	Z	0	0	0 %100
78	HC1	Z	.004	.004	0 %100
79	HC2	Z	0	0	0 %100
80	HC3	Z	.004	.004	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	.002	.002	0 %100
2	SA2	X	.009	.009	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
3	SA3	X	.005	.005	0 %100
4	GS11	X	.01	.01	0 %100
5	GS12	X	.003	.003	0 %100
6	GS13	X	.009	.009	0 %100
7	FF-H2-3	X	.01	.01	0 %100
8	SF1-H2-3	X	.011	.011	0 %100
9	SF2-H2-1	X	.003	.003	0 %100
10	GS14	X	.01	.01	0 %100
11	GS15	X	.003	.003	0 %100
12	GS16	X	.008	.008	0 %100
13	GS17	X	.009	.009	0 %100
14	GS18	X	.002	.002	0 %100
15	GS19	X	.007	.007	0 %100
16	GSC2	X	.002	.002	0 %100
17	GSC1	X	.007	.007	0 %100
18	GSC3	X	.005	.005	0 %100
19	SF1-H2-2	X	.012	.012	0 %100
20	FF-H2-2	X	.01	.01	0 %100
21	SF2-H2-2	X	.003	.003	0 %100
22	SF1-H2-1	X	.011	.011	0 %100
23	FF-H2-1	X	.01	.01	0 %100
24	SF2-H2-3	X	.003	.003	0 %100
25	MP-1	X	.005	.005	0 %100
26	MP-2	X	.005	.005	0 %100
27	MP-3	X	.005	.005	0 %100
28	MP-4	X	.005	.005	0 %100
29	MP-5	X	.005	.005	0 %100
30	MP-6	X	.005	.005	0 %100
31	MP-7	X	.005	.005	0 %100
32	MP-8	X	.005	.005	0 %100
33	MP-9	X	.005	.005	0 %100
34	MP-10	X	.005	.005	0 %100
35	HR1	X	.004	.004	0 %100
36	HR2	X	.005	.005	0 %100
37	HR3	X	.001	.001	0 %100
38	HC1	X	.005	.005	0 %100
39	HC2	X	.001	.001	0 %100
40	HC3	X	.004	.004	0 %100
41	SA1	Z	.002	.002	0 %100
42	SA2	Z	.008	.008	0 %100
43	SA3	Z	.007	.007	0 %100
44	GS11	Z	.012	.012	0 %100
45	GS12	Z	.003	.003	0 %100
46	GS13	Z	.009	.009	0 %100
47	FF-H2-3	Z	.01	.01	0 %100
48	SF1-H2-3	Z	.013	.013	0 %100
49	SF2-H2-1	Z	.003	.003	0 %100
50	GS14	Z	.011	.011	0 %100
51	GS15	Z	.003	.003	0 %100
52	GS16	Z	.008	.008	0 %100
53	GS17	Z	.01	.01	0 %100
54	GS18	Z	.003	.003	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
55	GS19	Z	.007	.007	0 %100
56	GSC2	Z	.002	.002	0 %100
57	GSC1	Z	.007	.007	0 %100
58	GSC3	Z	.005	.005	0 %100
59	SF1-H2-2	Z	.013	.013	0 %100
60	FF-H2-2	Z	.01	.01	0 %100
61	SF2-H2-2	Z	.003	.003	0 %100
62	SF1-H2-1	Z	.013	.013	0 %100
63	FF-H2-1	Z	.01	.01	0 %100
64	SF2-H2-3	Z	.003	.003	0 %100
65	MP-1	Z	.005	.005	0 %100
66	MP-2	Z	.005	.005	0 %100
67	MP-3	Z	.005	.005	0 %100
68	MP-4	Z	.005	.005	0 %100
69	MP-5	Z	.005	.005	0 %100
70	MP-6	Z	.005	.005	0 %100
71	MP-7	Z	.005	.005	0 %100
72	MP-8	Z	.005	.005	0 %100
73	MP-9	Z	.005	.005	0 %100
74	MP-10	Z	.005	.005	0 %100
75	HR1	Z	.004	.004	0 %100
76	HR2	Z	.005	.005	0 %100
77	HR3	Z	.001	.001	0 %100
78	HC1	Z	.006	.006	0 %100
79	HC2	Z	.002	.002	0 %100
80	HC3	Z	.004	.004	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	0	0	0 %100
2	SA2	X	.006	.006	0 %100
3	SA3	X	.004	.004	0 %100
4	GS11	X	.008	.008	0 %100
5	GS12	X	.004	.004	0 %100
6	GS13	X	.004	.004	0 %100
7	FF-H2-3	X	.005	.005	0 %100
8	SF1-H2-3	X	.008	.008	0 %100
9	SF2-H2-1	X	.004	.004	0 %100
10	GS14	X	.007	.007	0 %100
11	GS15	X	.004	.004	0 %100
12	GS16	X	.004	.004	0 %100
13	GS17	X	.007	.007	0 %100
14	GS18	X	.003	.003	0 %100
15	GS19	X	.004	.004	0 %100
16	GSC2	X	.003	.003	0 %100
17	GSC1	X	.005	.005	0 %100
18	GSC3	X	.003	.003	0 %100
19	SF1-H2-2	X	.008	.008	0 %100
20	FF-H2-2	X	.005	.005	0 %100
21	SF2-H2-2	X	.004	.004	0 %100
22	SF1-H2-1	X	.008	.008	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
23	FF-H2-1	X	.005	.005	0 %100
24	SF2-H2-3	X	.004	.004	0 %100
25	MP-1	X	.004	.004	0 %100
26	MP-2	X	.004	.004	0 %100
27	MP-3	X	.004	.004	0 %100
28	MP-4	X	.004	.004	0 %100
29	MP-5	X	.004	.004	0 %100
30	MP-6	X	.004	.004	0 %100
31	MP-7	X	.004	.004	0 %100
32	MP-8	X	.004	.004	0 %100
33	MP-9	X	.004	.004	0 %100
34	MP-10	X	.004	.004	0 %100
35	HR1	X	.002	.002	0 %100
36	HR2	X	.004	.004	0 %100
37	HR3	X	.002	.002	0 %100
38	HC1	X	.004	.004	0 %100
39	HC2	X	.002	.002	0 %100
40	HC3	X	.002	.002	0 %100
41	SA1	Z	0	0	0 %100
42	SA2	Z	.009	.009	0 %100
43	SA3	Z	.01	.01	0 %100
44	GS11	Z	.015	.015	0 %100
45	GS12	Z	.007	.007	0 %100
46	GS13	Z	.008	.008	0 %100
47	FF-H2-3	Z	.008	.008	0 %100
48	SF1-H2-3	Z	.016	.016	0 %100
49	SF2-H2-1	Z	.008	.008	0 %100
50	GS14	Z	.014	.014	0 %100
51	GS15	Z	.007	.007	0 %100
52	GS16	Z	.007	.007	0 %100
53	GS17	Z	.012	.012	0 %100
54	GS18	Z	.006	.006	0 %100
55	GS19	Z	.006	.006	0 %100
56	GSC2	Z	.005	.005	0 %100
57	GSC1	Z	.009	.009	0 %100
58	GSC3	Z	.005	.005	0 %100
59	SF1-H2-2	Z	.016	.016	0 %100
60	FF-H2-2	Z	.008	.008	0 %100
61	SF2-H2-2	Z	.008	.008	0 %100
62	SF1-H2-1	Z	.016	.016	0 %100
63	FF-H2-1	Z	.008	.008	0 %100
64	SF2-H2-3	Z	.008	.008	0 %100
65	MP-1	Z	.006	.006	0 %100
66	MP-2	Z	.006	.006	0 %100
67	MP-3	Z	.006	.006	0 %100
68	MP-4	Z	.006	.006	0 %100
69	MP-5	Z	.006	.006	0 %100
70	MP-6	Z	.006	.006	0 %100
71	MP-7	Z	.006	.006	0 %100
72	MP-8	Z	.006	.006	0 %100
73	MP-9	Z	.006	.006	0 %100
74	MP-10	Z	.006	.006	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
75	HR1	Z	.003	.003	0 %100
76	HR2	Z	.006	.006	0 %100
77	HR3	Z	.003	.003	0 %100
78	HC1	Z	.007	.007	0 %100
79	HC2	Z	.004	.004	0 %100
80	HC3	Z	.004	.004	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	Z	.006	.006	0 %100
2	SA2	Z	.006	.006	0 %100
3	SA3	Z	.014	.014	0 %100
4	GSi1	Z	.015	.015	0 %100
5	GSi2	Z	.015	.015	0 %100
6	GSi3	Z	0	0	0 %100
7	FF-H2-3	Z	0	0	0 %100
8	SF1-H2-3	Z	.016	.016	0 %100
9	SF2-H2-1	Z	.016	.016	0 %100
10	GSi4	Z	.014	.014	0 %100
11	GSi5	Z	.014	.014	0 %100
12	GSi6	Z	0	0	0 %100
13	GSi7	Z	.012	.012	0 %100
14	GSi8	Z	.012	.012	0 %100
15	GSi9	Z	0	0	0 %100
16	GSC2	Z	.009	.009	0 %100
17	GSC1	Z	.009	.009	0 %100
18	GSC3	Z	0	0	0 %100
19	SF1-H2-2	Z	.016	.016	0 %100
20	FF-H2-2	Z	0	0	0 %100
21	SF2-H2-2	Z	.016	.016	0 %100
22	SF1-H2-1	Z	.016	.016	0 %100
23	FF-H2-1	Z	0	0	0 %100
24	SF2-H2-3	Z	.016	.016	0 %100
25	MP-1	Z	.007	.007	0 %100
26	MP-2	Z	.007	.007	0 %100
27	MP-3	Z	.007	.007	0 %100
28	MP-4	Z	.007	.007	0 %100
29	MP-5	Z	.007	.007	0 %100
30	MP-6	Z	.007	.007	0 %100
31	MP-7	Z	.007	.007	0 %100
32	MP-8	Z	.007	.007	0 %100
33	MP-9	Z	.007	.007	0 %100
34	MP-10	Z	.007	.007	0 %100
35	HR1	Z	0	0	0 %100
36	HR2	Z	.006	.006	0 %100
37	HR3	Z	.006	.006	0 %100
38	HC1	Z	.007	.007	0 %100
39	HC2	Z	.007	.007	0 %100
40	HC3	Z	0	0	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	-.006	-.006	0 %100
2	SA2	X	0	0	0 %100
3	SA3	X	-.004	-.004	0 %100
4	GSi1	X	-.004	-.004	0 %100
5	GSi2	X	-.008	-.008	0 %100
6	GSi3	X	-.004	-.004	0 %100
7	FF-H2-3	X	-.005	-.005	0 %100
8	SF1-H2-3	X	-.004	-.004	0 %100
9	SF2-H2-1	X	-.008	-.008	0 %100
10	GSi4	X	-.004	-.004	0 %100
11	GSi5	X	-.007	-.007	0 %100
12	GSi6	X	-.004	-.004	0 %100
13	GSi7	X	-.003	-.003	0 %100
14	GSi8	X	-.007	-.007	0 %100
15	GSi9	X	-.004	-.004	0 %100
16	GSC2	X	-.005	-.005	0 %100
17	GSC1	X	-.003	-.003	0 %100
18	GSC3	X	-.003	-.003	0 %100
19	SF1-H2-2	X	-.004	-.004	0 %100
20	FF-H2-2	X	-.005	-.005	0 %100
21	SF2-H2-2	X	-.008	-.008	0 %100
22	SF1-H2-1	X	-.004	-.004	0 %100
23	FF-H2-1	X	-.005	-.005	0 %100
24	SF2-H2-3	X	-.008	-.008	0 %100
25	MP-1	X	-.004	-.004	0 %100
26	MP-2	X	-.004	-.004	0 %100
27	MP-3	X	-.004	-.004	0 %100
28	MP-4	X	-.004	-.004	0 %100
29	MP-5	X	-.004	-.004	0 %100
30	MP-6	X	-.004	-.004	0 %100
31	MP-7	X	-.004	-.004	0 %100
32	MP-8	X	-.004	-.004	0 %100
33	MP-9	X	-.004	-.004	0 %100
34	MP-10	X	-.004	-.004	0 %100
35	HR1	X	-.002	-.002	0 %100
36	HR2	X	-.002	-.002	0 %100
37	HR3	X	-.004	-.004	0 %100
38	HC1	X	-.002	-.002	0 %100
39	HC2	X	-.004	-.004	0 %100
40	HC3	X	-.002	-.002	0 %100
41	SA1	Z	.009	.009	0 %100
42	SA2	Z	0	0	0 %100
43	SA3	Z	.01	.01	0 %100
44	GSi1	Z	.007	.007	0 %100
45	GSi2	Z	.015	.015	0 %100
46	GSi3	Z	.008	.008	0 %100
47	FF-H2-3	Z	.008	.008	0 %100
48	SF1-H2-3	Z	.008	.008	0 %100
49	SF2-H2-1	Z	.016	.016	0 %100
50	GSi4	Z	.007	.007	0 %100
51	GSi5	Z	.014	.014	0 %100
52	GSi6	Z	.007	.007	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
53	GS17	Z	.006	.006	0 %100
54	GS18	Z	.012	.012	0 %100
55	GS19	Z	.006	.006	0 %100
56	GSC2	Z	.009	.009	0 %100
57	GSC1	Z	.005	.005	0 %100
58	GSC3	Z	.005	.005	0 %100
59	SF1-H2-2	Z	.008	.008	0 %100
60	FF-H2-2	Z	.008	.008	0 %100
61	SF2-H2-2	Z	.016	.016	0 %100
62	SF1-H2-1	Z	.008	.008	0 %100
63	FF-H2-1	Z	.008	.008	0 %100
64	SF2-H2-3	Z	.016	.016	0 %100
65	MP-1	Z	.006	.006	0 %100
66	MP-2	Z	.006	.006	0 %100
67	MP-3	Z	.006	.006	0 %100
68	MP-4	Z	.006	.006	0 %100
69	MP-5	Z	.006	.006	0 %100
70	MP-6	Z	.006	.006	0 %100
71	MP-7	Z	.006	.006	0 %100
72	MP-8	Z	.006	.006	0 %100
73	MP-9	Z	.006	.006	0 %100
74	MP-10	Z	.006	.006	0 %100
75	HR1	Z	.003	.003	0 %100
76	HR2	Z	.003	.003	0 %100
77	HR3	Z	.006	.006	0 %100
78	HC1	Z	.004	.004	0 %100
79	HC2	Z	.007	.007	0 %100
80	HC3	Z	.004	.004	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	-.009	-.009	0 %100
2	SA2	X	-.002	-.002	0 %100
3	SA3	X	-.005	-.005	0 %100
4	GS11	X	-.003	-.003	0 %100
5	GS12	X	-.01	-.01	0 %100
6	GS13	X	-.009	-.009	0 %100
7	FF-H2-3	X	-.01	-.01	0 %100
8	SF1-H2-3	X	-.003	-.003	0 %100
9	SF2-H2-1	X	-.011	-.011	0 %100
10	GS14	X	-.003	-.003	0 %100
11	GS15	X	-.01	-.01	0 %100
12	GS16	X	-.008	-.008	0 %100
13	GS17	X	-.002	-.002	0 %100
14	GS18	X	-.009	-.009	0 %100
15	GS19	X	-.007	-.007	0 %100
16	GSC2	X	-.007	-.007	0 %100
17	GSC1	X	-.002	-.002	0 %100
18	GSC3	X	-.005	-.005	0 %100
19	SF1-H2-2	X	-.003	-.003	0 %100
20	FF-H2-2	X	-.01	-.01	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
21	SF2-H2-2	X	-.012	-.012	0 %100
22	SF1-H2-1	X	-.003	-.003	0 %100
23	FF-H2-1	X	-.01	-.01	0 %100
24	SF2-H2-3	X	-.011	-.011	0 %100
25	MP-1	X	-.005	-.005	0 %100
26	MP-2	X	-.005	-.005	0 %100
27	MP-3	X	-.005	-.005	0 %100
28	MP-4	X	-.005	-.005	0 %100
29	MP-5	X	-.005	-.005	0 %100
30	MP-6	X	-.005	-.005	0 %100
31	MP-7	X	-.005	-.005	0 %100
32	MP-8	X	-.005	-.005	0 %100
33	MP-9	X	-.005	-.005	0 %100
34	MP-10	X	-.005	-.005	0 %100
35	HR1	X	-.004	-.004	0 %100
36	HR2	X	-.001	-.001	0 %100
37	HR3	X	-.005	-.005	0 %100
38	HC1	X	-.001	-.001	0 %100
39	HC2	X	-.005	-.005	0 %100
40	HC3	X	-.004	-.004	0 %100
41	SA1	Z	.008	.008	0 %100
42	SA2	Z	.002	.002	0 %100
43	SA3	Z	.007	.007	0 %100
44	GS11	Z	.003	.003	0 %100
45	GS12	Z	.012	.012	0 %100
46	GS13	Z	.009	.009	0 %100
47	FF-H2-3	Z	.01	.01	0 %100
48	SF1-H2-3	Z	.003	.003	0 %100
49	SF2-H2-1	Z	.013	.013	0 %100
50	GS14	Z	.003	.003	0 %100
51	GS15	Z	.011	.011	0 %100
52	GS16	Z	.008	.008	0 %100
53	GS17	Z	.003	.003	0 %100
54	GS18	Z	.01	.01	0 %100
55	GS19	Z	.007	.007	0 %100
56	GSC2	Z	.007	.007	0 %100
57	GSC1	Z	.002	.002	0 %100
58	GSC3	Z	.005	.005	0 %100
59	SF1-H2-2	Z	.003	.003	0 %100
60	FF-H2-2	Z	.01	.01	0 %100
61	SF2-H2-2	Z	.013	.013	0 %100
62	SF1-H2-1	Z	.003	.003	0 %100
63	FF-H2-1	Z	.01	.01	0 %100
64	SF2-H2-3	Z	.013	.013	0 %100
65	MP-1	Z	.005	.005	0 %100
66	MP-2	Z	.005	.005	0 %100
67	MP-3	Z	.005	.005	0 %100
68	MP-4	Z	.005	.005	0 %100
69	MP-5	Z	.005	.005	0 %100
70	MP-6	Z	.005	.005	0 %100
71	MP-7	Z	.005	.005	0 %100
72	MP-8	Z	.005	.005	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
73	MP-9	Z	.005	.005	0	%100
74	MP-10	Z	.005	.005	0	%100
75	HR1	Z	.004	.004	0	%100
76	HR2	Z	.001	.001	0	%100
77	HR3	Z	.005	.005	0	%100
78	HC1	Z	.002	.002	0	%100
79	HC2	Z	.006	.006	0	%100
80	HC3	Z	.004	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	SA1	X	-.011	-.011	0	%100
2	SA2	X	-.006	-.006	0	%100
3	SA3	X	-.004	-.004	0	%100
4	GS1	X	0	0	0	%100
5	GS12	X	-.011	-.011	0	%100
6	GS13	X	-.013	-.013	0	%100
7	FF-H2-3	X	-.014	-.014	0	%100
8	SF1-H2-3	X	0	0	0	%100
9	SF2-H2-1	X	-.012	-.012	0	%100
10	GS14	X	0	0	0	%100
11	GS15	X	-.011	-.011	0	%100
12	GS16	X	-.012	-.012	0	%100
13	GS17	X	0	0	0	%100
14	GS18	X	-.01	-.01	0	%100
15	GS19	X	-.011	-.011	0	%100
16	GSC2	X	-.008	-.008	0	%100
17	GSC1	X	0	0	0	%100
18	GSC3	X	-.008	-.008	0	%100
19	SF1-H2-2	X	0	0	0	%100
20	FF-H2-2	X	-.014	-.014	0	%100
21	SF2-H2-2	X	-.013	-.013	0	%100
22	SF1-H2-1	X	0	0	0	%100
23	FF-H2-1	X	-.014	-.014	0	%100
24	SF2-H2-3	X	-.012	-.012	0	%100
25	MP-1	X	-.006	-.006	0	%100
26	MP-2	X	-.006	-.006	0	%100
27	MP-3	X	-.006	-.006	0	%100
28	MP-4	X	-.006	-.006	0	%100
29	MP-5	X	-.006	-.006	0	%100
30	MP-6	X	-.006	-.006	0	%100
31	MP-7	X	-.006	-.006	0	%100
32	MP-8	X	-.006	-.006	0	%100
33	MP-9	X	-.006	-.006	0	%100
34	MP-10	X	-.006	-.006	0	%100
35	HR1	X	-.006	-.006	0	%100
36	HR2	X	0	0	0	%100
37	HR3	X	-.006	-.006	0	%100
38	HC1	X	0	0	0	%100
39	HC2	X	-.006	-.006	0	%100
40	HC3	X	-.007	-.007	0	%100



Company : Tower Engineering Professionals
 Designer : S.J.L
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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
41	SA1	Z	.006	.006	0	%100
42	SA2	Z	.003	.003	0	%100
43	SA3	Z	.003	.003	0	%100
44	GS1	Z	0	0	0	%100
45	GS12	Z	.007	.007	0	%100
46	GS13	Z	.008	.008	0	%100
47	FF-H2-3	Z	.008	.008	0	%100
48	SF1-H2-3	Z	0	0	0	%100
49	SF2-H2-1	Z	.008	.008	0	%100
50	GS14	Z	0	0	0	%100
51	GS15	Z	.007	.007	0	%100
52	GS16	Z	.007	.007	0	%100
53	GS17	Z	0	0	0	%100
54	GS18	Z	.006	.006	0	%100
55	GS19	Z	.006	.006	0	%100
56	GSC2	Z	.005	.005	0	%100
57	GSC1	Z	0	0	0	%100
58	GSC3	Z	.005	.005	0	%100
59	SF1-H2-2	Z	0	0	0	%100
60	FF-H2-2	Z	.008	.008	0	%100
61	SF2-H2-2	Z	.008	.008	0	%100
62	SF1-H2-1	Z	0	0	0	%100
63	FF-H2-1	Z	.008	.008	0	%100
64	SF2-H2-3	Z	.008	.008	0	%100
65	MP-1	Z	.004	.004	0	%100
66	MP-2	Z	.004	.004	0	%100
67	MP-3	Z	.004	.004	0	%100
68	MP-4	Z	.004	.004	0	%100
69	MP-5	Z	.004	.004	0	%100
70	MP-6	Z	.004	.004	0	%100
71	MP-7	Z	.004	.004	0	%100
72	MP-8	Z	.004	.004	0	%100
73	MP-9	Z	.004	.004	0	%100
74	MP-10	Z	.004	.004	0	%100
75	HR1	Z	.003	.003	0	%100
76	HR2	Z	0	0	0	%100
77	HR3	Z	.003	.003	0	%100
78	HC1	Z	0	0	0	%100
79	HC2	Z	.004	.004	0	%100
80	HC3	Z	.004	.004	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	SA1	Y	-.009	-.009	0	%100
2	SA2	Y	-.009	-.009	0	%100
3	SA3	Y	-.009	-.009	0	%100
4	GS1	Y	-.007	-.007	0	%100
5	GS12	Y	-.007	-.007	0	%100
6	GS13	Y	-.007	-.007	0	%100
7	FF-H2-3	Y	-.007	-.007	0	%100
8	SF1-H2-3	Y	-.007	-.007	0	%100



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 Designer : S.JL
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Member Distributed Loads (BLC 18 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
9	SF2-H2-1	Y	-0.07	-0.07	0 %100
10	GS14	Y	-0.07	-0.07	0 %100
11	GS15	Y	-0.07	-0.07	0 %100
12	GS16	Y	-0.07	-0.07	0 %100
13	GS17	Y	-0.07	-0.07	0 %100
14	GS18	Y	-0.07	-0.07	0 %100
15	GS19	Y	-0.07	-0.07	0 %100
16	GSC2	Y	-0.09	-0.09	0 %100
17	GSC1	Y	-0.09	-0.09	0 %100
18	GSC3	Y	-0.09	-0.09	0 %100
19	SF1-H2-2	Y	-0.08	-0.08	0 %100
20	FF-H2-2	Y	-0.08	-0.08	0 %100
21	SF2-H2-2	Y	-0.08	-0.08	0 %100
22	SF1-H2-1	Y	-0.07	-0.07	0 %100
23	FF-H2-1	Y	-0.07	-0.07	0 %100
24	SF2-H2-3	Y	-0.07	-0.07	0 %100
25	MP-1	Y	-0.05	-0.05	0 %100
26	MP-2	Y	-0.05	-0.05	0 %100
27	MP-3	Y	-0.05	-0.05	0 %100
28	MP-4	Y	-0.05	-0.05	0 %100
29	MP-5	Y	-0.05	-0.05	0 %100
30	MP-6	Y	-0.05	-0.05	0 %100
31	MP-7	Y	-0.05	-0.05	0 %100
32	MP-8	Y	-0.05	-0.05	0 %100
33	MP-9	Y	-0.05	-0.05	0 %100
34	MP-10	Y	-0.05	-0.05	0 %100
35	HR1	Y	-0.05	-0.05	0 %100
36	HR2	Y	-0.05	-0.05	0 %100
37	HR3	Y	-0.05	-0.05	0 %100
38	HC1	Y	-0.05	-0.05	0 %100
39	HC2	Y	-0.05	-0.05	0 %100
40	HC3	Y	-0.05	-0.05	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
1	SA1	X	-0.04	-0.04	0 %100
2	SA2	X	-0.04	-0.04	0 %100
3	SA3	X	-0.03	-0.03	0 %100
4	GS11	X	-0.04	-0.04	0 %100
5	GS12	X	-0.04	-0.04	0 %100
6	GS13	X	-0.05	-0.05	0 %100
7	FF-H2-3	X	-0.05	-0.05	0 %100
8	SF1-H2-3	X	-0.05	-0.05	0 %100
9	SF2-H2-1	X	-0.05	-0.05	0 %100
10	GS14	X	-0.04	-0.04	0 %100
11	GS15	X	-0.04	-0.04	0 %100
12	GS16	X	-0.05	-0.05	0 %100
13	GS17	X	-0.04	-0.04	0 %100
14	GS18	X	-0.04	-0.04	0 %100
15	GS19	X	-0.04	-0.04	0 %100
16	GSC2	X	-0.05	-0.05	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
17	GSC1	X	-0.05	-0.05	0 %100
18	GSC3	X	-0.05	-0.05	0 %100
19	SF1-H2-2	X	-0.05	-0.05	0 %100
20	FF-H2-2	X	-0.05	-0.05	0 %100
21	SF2-H2-2	X	-0.05	-0.05	0 %100
22	SF1-H2-1	X	-0.05	-0.05	0 %100
23	FF-H2-1	X	-0.05	-0.05	0 %100
24	SF2-H2-3	X	-0.05	-0.05	0 %100
25	MP-1	X	-0.02	-0.02	0 %100
26	MP-2	X	-0.02	-0.02	0 %100
27	MP-3	X	-0.02	-0.02	0 %100
28	MP-4	X	-0.02	-0.02	0 %100
29	MP-5	X	-0.02	-0.02	0 %100
30	MP-6	X	-0.02	-0.02	0 %100
31	MP-7	X	-0.02	-0.02	0 %100
32	MP-8	X	-0.02	-0.02	0 %100
33	MP-9	X	-0.02	-0.02	0 %100
34	MP-10	X	-0.02	-0.02	0 %100
35	HR1	X	-0.03	-0.03	0 %100
36	HR2	X	-0.02	-0.02	0 %100
37	HR3	X	-0.02	-0.02	0 %100
38	HC1	X	-0.03	-0.03	0 %100
39	HC2	X	-0.03	-0.03	0 %100
40	HC3	X	-0.03	-0.03	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
1	SA1	X	-0.02	-0.02	0 %100
2	SA2	X	-0.03	-0.03	0 %100
3	SA3	X	-0.01	-0.01	0 %100
4	GS11	X	-0.03	-0.03	0 %100
5	GS12	X	0	0	0 %100
6	GS13	X	-0.04	-0.04	0 %100
7	FF-H2-3	X	-0.04	-0.04	0 %100
8	SF1-H2-3	X	-0.03	-0.03	0 %100
9	SF2-H2-1	X	0	0	0 %100
10	GS14	X	-0.03	-0.03	0 %100
11	GS15	X	0	0	0 %100
12	GS16	X	-0.04	-0.04	0 %100
13	GS17	X	-0.03	-0.03	0 %100
14	GS18	X	0	0	0 %100
15	GS19	X	-0.03	-0.03	0 %100
16	GSC2	X	0	0	0 %100
17	GSC1	X	-0.04	-0.04	0 %100
18	GSC3	X	-0.04	-0.04	0 %100
19	SF1-H2-2	X	-0.04	-0.04	0 %100
20	FF-H2-2	X	-0.04	-0.04	0 %100
21	SF2-H2-2	X	0	0	0 %100
22	SF1-H2-1	X	-0.03	-0.03	0 %100
23	FF-H2-1	X	-0.04	-0.04	0 %100
24	SF2-H2-3	X	0	0	0 %100



Company : Tower Engineering Professionals
 Designer : S.J.L
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 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
25	MP-1	X	-0.02	-0.02	0	%100
26	MP-2	X	-0.02	-0.02	0	%100
27	MP-3	X	-0.02	-0.02	0	%100
28	MP-4	X	-0.02	-0.02	0	%100
29	MP-5	X	-0.02	-0.02	0	%100
30	MP-6	X	-0.02	-0.02	0	%100
31	MP-7	X	-0.02	-0.02	0	%100
32	MP-8	X	-0.02	-0.02	0	%100
33	MP-9	X	-0.02	-0.02	0	%100
34	MP-10	X	-0.02	-0.02	0	%100
35	HR1	X	-0.02	-0.02	0	%100
36	HR2	X	-0.02	-0.02	0	%100
37	HR3	X	0	0	0	%100
38	HC1	X	-0.02	-0.02	0	%100
39	HC2	X	0	0	0	%100
40	HC3	X	-0.03	-0.03	0	%100
41	SA1	Z	-0.00907	-0.00907	0	%100
42	SA2	Z	-0.02	-0.02	0	%100
43	SA3	Z	-0.01	-0.01	0	%100
44	GS11	Z	-0.02	-0.02	0	%100
45	GS12	Z	0	0	0	%100
46	GS13	Z	-0.02	-0.02	0	%100
47	FF-H2-3	Z	-0.02	-0.02	0	%100
48	SF1-H2-3	Z	-0.02	-0.02	0	%100
49	SF2-H2-1	Z	0	0	0	%100
50	GS14	Z	-0.02	-0.02	0	%100
51	GS15	Z	0	0	0	%100
52	GS16	Z	-0.02	-0.02	0	%100
53	GS17	Z	-0.02	-0.02	0	%100
54	GS18	Z	0	0	0	%100
55	GS19	Z	-0.02	-0.02	0	%100
56	GSC2	Z	0	0	0	%100
57	GSC1	Z	-0.02	-0.02	0	%100
58	GSC3	Z	-0.02	-0.02	0	%100
59	SF1-H2-2	Z	-0.02	-0.02	0	%100
60	FF-H2-2	Z	-0.02	-0.02	0	%100
61	SF2-H2-2	Z	0	0	0	%100
62	SF1-H2-1	Z	-0.02	-0.02	0	%100
63	FF-H2-1	Z	-0.02	-0.02	0	%100
64	SF2-H2-3	Z	0	0	0	%100
65	MP-1	Z	-0.01	-0.01	0	%100
66	MP-2	Z	-0.01	-0.01	0	%100
67	MP-3	Z	-0.01	-0.01	0	%100
68	MP-4	Z	-0.01	-0.01	0	%100
69	MP-5	Z	-0.01	-0.01	0	%100
70	MP-6	Z	-0.01	-0.01	0	%100
71	MP-7	Z	-0.01	-0.01	0	%100
72	MP-8	Z	-0.01	-0.01	0	%100
73	MP-9	Z	-0.01	-0.01	0	%100
74	MP-10	Z	-0.01	-0.01	0	%100
75	HR1	Z	-0.01	-0.01	0	%100
76	HR2	Z	-0.01	-0.01	0	%100



Company : Tower Engineering Professionals
 Designer : S.J.L
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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
77	HR3	Z	0	0	0	%100
78	HC1	Z	-0.01	-0.01	0	%100
79	HC2	Z	0	0	0	%100
80	HC3	Z	-0.01	-0.01	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	SA1	X	-0.00733	-0.00733	0	%100
2	SA2	X	-0.03	-0.03	0	%100
3	SA3	X	-0.02	-0.02	0	%100
4	GS11	X	-0.03	-0.03	0	%100
5	GS12	X	-0.00788	-0.00788	0	%100
6	GS13	X	-0.02	-0.02	0	%100
7	FF-H2-3	X	-0.03	-0.03	0	%100
8	SF1-H2-3	X	-0.03	-0.03	0	%100
9	SF2-H2-1	X	-0.00837	-0.00837	0	%100
10	GS14	X	-0.03	-0.03	0	%100
11	GS15	X	-0.00767	-0.00767	0	%100
12	GS16	X	-0.02	-0.02	0	%100
13	GS17	X	-0.03	-0.03	0	%100
14	GS18	X	-0.00751	-0.00751	0	%100
15	GS19	X	-0.02	-0.02	0	%100
16	GSC2	X	-0.00913	-0.00913	0	%100
17	GSC1	X	-0.03	-0.03	0	%100
18	GSC3	X	-0.02	-0.02	0	%100
19	SF1-H2-2	X	-0.03	-0.03	0	%100
20	FF-H2-2	X	-0.03	-0.03	0	%100
21	SF2-H2-2	X	-0.00869	-0.00869	0	%100
22	SF1-H2-1	X	-0.03	-0.03	0	%100
23	FF-H2-1	X	-0.03	-0.03	0	%100
24	SF2-H2-3	X	-0.00837	-0.00837	0	%100
25	MP-1	X	-0.02	-0.02	0	%100
26	MP-2	X	-0.01	-0.01	0	%100
27	MP-3	X	-0.02	-0.02	0	%100
28	MP-4	X	-0.01	-0.01	0	%100
29	MP-5	X	-0.02	-0.02	0	%100
30	MP-6	X	-0.01	-0.01	0	%100
31	MP-7	X	-0.01	-0.01	0	%100
32	MP-8	X	-0.02	-0.02	0	%100
33	MP-9	X	-0.01	-0.01	0	%100
34	MP-10	X	-0.01	-0.01	0	%100
35	HR1	X	-0.01	-0.01	0	%100
36	HR2	X	-0.02	-0.02	0	%100
37	HR3	X	-0.00435	-0.00435	0	%100
38	HC1	X	-0.02	-0.02	0	%100
39	HC2	X	-0.00604	-0.00604	0	%100
40	HC3	X	-0.02	-0.02	0	%100
41	SA1	Z	-0.00664	-0.00664	0	%100
42	SA2	Z	-0.02	-0.02	0	%100
43	SA3	Z	-0.02	-0.02	0	%100
44	GS11	Z	-0.03	-0.03	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,kstf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
45	GSi2	Z	-0.0087	-0.0087	0 %100
46	GSi3	Z	-0.002	-0.002	0 %100
47	FF-H2-3	Z	-0.002	-0.002	0 %100
48	SF1-H2-3	Z	-0.003	-0.003	0 %100
49	SF2-H2-1	Z	-0.00923	-0.00923	0 %100
50	GSi4	Z	-0.003	-0.003	0 %100
51	GSi5	Z	-0.00839	-0.00839	0 %100
52	GSi6	Z	-0.002	-0.002	0 %100
53	GSi7	Z	-0.003	-0.003	0 %100
54	GSi8	Z	-0.00796	-0.00796	0 %100
55	GSi9	Z	-0.002	-0.002	0 %100
56	GSC2	Z	-0.00913	-0.00913	0 %100
57	GSC1	Z	-0.003	-0.003	0 %100
58	GSC3	Z	-0.002	-0.002	0 %100
59	SF1-H2-2	Z	-0.003	-0.003	0 %100
60	FF-H2-2	Z	-0.002	-0.002	0 %100
61	SF2-H2-2	Z	-0.00931	-0.00931	0 %100
62	SF1-H2-1	Z	-0.003	-0.003	0 %100
63	FF-H2-1	Z	-0.002	-0.002	0 %100
64	SF2-H2-3	Z	-0.00923	-0.00923	0 %100
65	MP-1	Z	-0.002	-0.002	0 %100
66	MP-2	Z	-0.002	-0.002	0 %100
67	MP-3	Z	-0.002	-0.002	0 %100
68	MP-4	Z	-0.002	-0.002	0 %100
69	MP-5	Z	-0.002	-0.002	0 %100
70	MP-6	Z	-0.002	-0.002	0 %100
71	MP-7	Z	-0.002	-0.002	0 %100
72	MP-8	Z	-0.002	-0.002	0 %100
73	MP-9	Z	-0.002	-0.002	0 %100
74	MP-10	Z	-0.002	-0.002	0 %100
75	HR1	Z	-0.001	-0.001	0 %100
76	HR2	Z	-0.002	-0.002	0 %100
77	HR3	Z	-0.00517	-0.00517	0 %100
78	HC1	Z	-0.002	-0.002	0 %100
79	HC2	Z	-0.00619	-0.00619	0 %100
80	HC3	Z	-0.002	-0.002	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,kstf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	0	0	0 %100
2	SA2	X	-0.002	-0.002	0 %100
3	SA3	X	-0.001	-0.001	0 %100
4	GSi1	X	-0.002	-0.002	0 %100
5	GSi2	X	-0.001	-0.001	0 %100
6	GSi3	X	-0.001	-0.001	0 %100
7	FF-H2-3	X	-0.001	-0.001	0 %100
8	SF1-H2-3	X	-0.002	-0.002	0 %100
9	SF2-H2-1	X	-0.001	-0.001	0 %100
10	GSi4	X	-0.002	-0.002	0 %100
11	GSi5	X	-0.001	-0.001	0 %100
12	GSi6	X	-0.001	-0.001	0 %100



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
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Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,kstf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
13	GSi7	X	-0.002	-0.002	0 %100
14	GSi8	X	-0.001	-0.001	0 %100
15	GSi9	X	-0.001	-0.001	0 %100
16	GSC2	X	-0.001	-0.001	0 %100
17	GSC1	X	-0.002	-0.002	0 %100
18	GSC3	X	-0.001	-0.001	0 %100
19	SF1-H2-2	X	-0.002	-0.002	0 %100
20	FF-H2-2	X	-0.001	-0.001	0 %100
21	SF2-H2-2	X	-0.001	-0.001	0 %100
22	SF1-H2-1	X	-0.002	-0.002	0 %100
23	FF-H2-1	X	-0.001	-0.001	0 %100
24	SF2-H2-3	X	-0.001	-0.001	0 %100
25	MP-1	X	-0.001	-0.001	0 %100
26	MP-2	X	-0.001	-0.001	0 %100
27	MP-3	X	-0.001	-0.001	0 %100
28	MP-4	X	-0.001	-0.001	0 %100
29	MP-5	X	-0.001	-0.001	0 %100
30	MP-6	X	-0.001	-0.001	0 %100
31	MP-7	X	-0.001	-0.001	0 %100
32	MP-8	X	-0.001	-0.001	0 %100
33	MP-9	X	-0.001	-0.001	0 %100
34	MP-10	X	-0.001	-0.001	0 %100
35	HR1	X	-0.00706	-0.00706	0 %100
36	HR2	X	-0.001	-0.001	0 %100
37	HR3	X	-0.00595	-0.00595	0 %100
38	HC1	X	-0.002	-0.002	0 %100
39	HC2	X	-0.00825	-0.00825	0 %100
40	HC3	X	-0.00858	-0.00858	0 %100
41	SA1	Z	0	0	0 %100
42	SA2	Z	-0.003	-0.003	0 %100
43	SA3	Z	-0.003	-0.003	0 %100
44	GSi1	Z	-0.004	-0.004	0 %100
45	GSi2	Z	-0.002	-0.002	0 %100
46	GSi3	Z	-0.002	-0.002	0 %100
47	FF-H2-3	Z	-0.002	-0.002	0 %100
48	SF1-H2-3	Z	-0.004	-0.004	0 %100
49	SF2-H2-1	Z	-0.002	-0.002	0 %100
50	GSi4	Z	-0.004	-0.004	0 %100
51	GSi5	Z	-0.002	-0.002	0 %100
52	GSi6	Z	-0.002	-0.002	0 %100
53	GSi7	Z	-0.004	-0.004	0 %100
54	GSi8	Z	-0.002	-0.002	0 %100
55	GSi9	Z	-0.002	-0.002	0 %100
56	GSC2	Z	-0.002	-0.002	0 %100
57	GSC1	Z	-0.004	-0.004	0 %100
58	GSC3	Z	-0.002	-0.002	0 %100
59	SF1-H2-2	Z	-0.004	-0.004	0 %100
60	FF-H2-2	Z	-0.002	-0.002	0 %100
61	SF2-H2-2	Z	-0.002	-0.002	0 %100
62	SF1-H2-1	Z	-0.004	-0.004	0 %100
63	FF-H2-1	Z	-0.002	-0.002	0 %100
64	SF2-H2-3	Z	-0.002	-0.002	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]	
65	MP-1	Z	-0.02	-0.02	0	%100
66	MP-2	Z	-0.02	-0.02	0	%100
67	MP-3	Z	-0.02	-0.02	0	%100
68	MP-4	Z	-0.02	-0.02	0	%100
69	MP-5	Z	-0.02	-0.02	0	%100
70	MP-6	Z	-0.02	-0.02	0	%100
71	MP-7	Z	-0.02	-0.02	0	%100
72	MP-8	Z	-0.02	-0.02	0	%100
73	MP-9	Z	-0.02	-0.02	0	%100
74	MP-10	Z	-0.02	-0.02	0	%100
75	HR1	Z	-0.01	-0.01	0	%100
76	HR2	Z	-0.02	-0.02	0	%100
77	HR3	Z	-0.01	-0.01	0	%100
78	HC1	Z	-0.03	-0.03	0	%100
79	HC2	Z	-0.01	-0.01	0	%100
80	HC3	Z	-0.01	-0.01	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]	
1	SA1	Z	-0.02	-0.02	0	%100
2	SA2	Z	-0.02	-0.02	0	%100
3	SA3	Z	-0.04	-0.04	0	%100
4	GS11	Z	-0.04	-0.04	0	%100
5	GS12	Z	-0.04	-0.04	0	%100
6	GS13	Z	0	0	0	%100
7	FF-H2-3	Z	0	0	0	%100
8	SF1-H2-3	Z	-0.04	-0.04	0	%100
9	SF2-H2-1	Z	-0.04	-0.04	0	%100
10	GS14	Z	-0.04	-0.04	0	%100
11	GS15	Z	-0.04	-0.04	0	%100
12	GS16	Z	0	0	0	%100
13	GS17	Z	-0.04	-0.04	0	%100
14	GS18	Z	-0.04	-0.04	0	%100
15	GS19	Z	0	0	0	%100
16	GSC2	Z	-0.04	-0.04	0	%100
17	GSC1	Z	-0.04	-0.04	0	%100
18	GSC3	Z	0	0	0	%100
19	SF1-H2-2	Z	-0.04	-0.04	0	%100
20	FF-H2-2	Z	0	0	0	%100
21	SF2-H2-2	Z	-0.04	-0.04	0	%100
22	SF1-H2-1	Z	-0.04	-0.04	0	%100
23	FF-H2-1	Z	0	0	0	%100
24	SF2-H2-3	Z	-0.04	-0.04	0	%100
25	MP-1	Z	-0.03	-0.03	0	%100
26	MP-2	Z	-0.02	-0.02	0	%100
27	MP-3	Z	-0.03	-0.03	0	%100
28	MP-4	Z	-0.02	-0.02	0	%100
29	MP-5	Z	-0.03	-0.03	0	%100
30	MP-6	Z	-0.02	-0.02	0	%100
31	MP-7	Z	-0.02	-0.02	0	%100
32	MP-8	Z	-0.03	-0.03	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]	
33	MP-9	Z	-0.02	-0.02	0	%100
34	MP-10	Z	-0.02	-0.02	0	%100
35	HR1	Z	0	0	0	%100
36	HR2	Z	-0.02	-0.02	0	%100
37	HR3	Z	-0.02	-0.02	0	%100
38	HC1	Z	-0.03	-0.03	0	%100
39	HC2	Z	-0.03	-0.03	0	%100
40	HC3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]	
1	SA1	X	.002	.002	0	%100
2	SA2	X	0	0	0	%100
3	SA3	X	.001	.001	0	%100
4	GS11	X	.001	.001	0	%100
5	GS12	X	.002	.002	0	%100
6	GS13	X	.001	.001	0	%100
7	FF-H2-3	X	.001	.001	0	%100
8	SF1-H2-3	X	.001	.001	0	%100
9	SF2-H2-1	X	.002	.002	0	%100
10	GS14	X	.001	.001	0	%100
11	GS15	X	.002	.002	0	%100
12	GS16	X	.001	.001	0	%100
13	GS17	X	.001	.001	0	%100
14	GS18	X	.002	.002	0	%100
15	GS19	X	.001	.001	0	%100
16	GSC2	X	.002	.002	0	%100
17	GSC1	X	.001	.001	0	%100
18	GSC3	X	.001	.001	0	%100
19	SF1-H2-2	X	.001	.001	0	%100
20	FF-H2-2	X	.001	.001	0	%100
21	SF2-H2-2	X	.002	.002	0	%100
22	SF1-H2-1	X	.001	.001	0	%100
23	FF-H2-1	X	.001	.001	0	%100
24	SF2-H2-3	X	.002	.002	0	%100
25	MP-1	X	.001	.001	0	%100
26	MP-2	X	.001	.001	0	%100
27	MP-3	X	.001	.001	0	%100
28	MP-4	X	.001	.001	0	%100
29	MP-5	X	.001	.001	0	%100
30	MP-6	X	.001	.001	0	%100
31	MP-7	X	.001	.001	0	%100
32	MP-8	X	.001	.001	0	%100
33	MP-9	X	.001	.001	0	%100
34	MP-10	X	.001	.001	0	%100
35	HR1	X	.000706	.000706	0	%100
36	HR2	X	.000595	.000595	0	%100
37	HR3	X	.001	.001	0	%100
38	HC1	X	.000825	.000825	0	%100
39	HC2	X	.002	.002	0	%100
40	HC3	X	.000858	.000858	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
41	SA1	Z	-0.003	-0.003	0 %100
42	SA2	Z	0	0	0 %100
43	SA3	Z	-0.003	-0.003	0 %100
44	GS1	Z	-0.002	-0.002	0 %100
45	GS2	Z	-0.004	-0.004	0 %100
46	GS3	Z	-0.002	-0.002	0 %100
47	FF-H2-3	Z	-0.002	-0.002	0 %100
48	SF1-H2-3	Z	-0.002	-0.002	0 %100
49	SF2-H2-1	Z	-0.004	-0.004	0 %100
50	GS4	Z	-0.002	-0.002	0 %100
51	GS5	Z	-0.004	-0.004	0 %100
52	GS6	Z	-0.002	-0.002	0 %100
53	GS7	Z	-0.002	-0.002	0 %100
54	GS8	Z	-0.004	-0.004	0 %100
55	GS9	Z	-0.002	-0.002	0 %100
56	GSC2	Z	-0.004	-0.004	0 %100
57	GSC1	Z	-0.002	-0.002	0 %100
58	GSC3	Z	-0.002	-0.002	0 %100
59	SF1-H2-2	Z	-0.002	-0.002	0 %100
60	FF-H2-2	Z	-0.002	-0.002	0 %100
61	SF2-H2-2	Z	-0.004	-0.004	0 %100
62	SF1-H2-1	Z	-0.002	-0.002	0 %100
63	FF-H2-1	Z	-0.002	-0.002	0 %100
64	SF2-H2-3	Z	-0.004	-0.004	0 %100
65	MP-1	Z	-0.002	-0.002	0 %100
66	MP-2	Z	-0.002	-0.002	0 %100
67	MP-3	Z	-0.002	-0.002	0 %100
68	MP-4	Z	-0.002	-0.002	0 %100
69	MP-5	Z	-0.002	-0.002	0 %100
70	MP-6	Z	-0.002	-0.002	0 %100
71	MP-7	Z	-0.002	-0.002	0 %100
72	MP-8	Z	-0.002	-0.002	0 %100
73	MP-9	Z	-0.002	-0.002	0 %100
74	MP-10	Z	-0.002	-0.002	0 %100
75	HR1	Z	-0.001	-0.001	0 %100
76	HR2	Z	-0.001	-0.001	0 %100
77	HR3	Z	-0.002	-0.002	0 %100
78	HC1	Z	-0.001	-0.001	0 %100
79	HC2	Z	-0.003	-0.003	0 %100
80	HC3	Z	-0.001	-0.001	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
1	SA1	X	.003	.003	0 %100
2	SA2	X	.000733	.000733	0 %100
3	SA3	X	.002	.002	0 %100
4	GS1	X	.000788	.000788	0 %100
5	GS2	X	.003	.003	0 %100
6	GS3	X	.002	.002	0 %100
7	FF-H2-3	X	.003	.003	0 %100
8	SF1-H2-3	X	.000837	.000837	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft, %]	End Location[ft, %]
9	SF2-H2-1	X	.003	.003	0 %100
10	GS4	X	.000767	.000767	0 %100
11	GS5	X	.003	.003	0 %100
12	GS6	X	.002	.002	0 %100
13	GS7	X	.000751	.000751	0 %100
14	GS8	X	.003	.003	0 %100
15	GS9	X	.002	.002	0 %100
16	GSC2	X	.003	.003	0 %100
17	GSC1	X	.000913	.000913	0 %100
18	GSC3	X	.002	.002	0 %100
19	SF1-H2-2	X	.000869	.000869	0 %100
20	FF-H2-2	X	.003	.003	0 %100
21	SF2-H2-2	X	.003	.003	0 %100
22	SF1-H2-1	X	.000837	.000837	0 %100
23	FF-H2-1	X	.003	.003	0 %100
24	SF2-H2-3	X	.003	.003	0 %100
25	MP-1	X	.002	.002	0 %100
26	MP-2	X	.001	.001	0 %100
27	MP-3	X	.002	.002	0 %100
28	MP-4	X	.001	.001	0 %100
29	MP-5	X	.002	.002	0 %100
30	MP-6	X	.001	.001	0 %100
31	MP-7	X	.001	.001	0 %100
32	MP-8	X	.002	.002	0 %100
33	MP-9	X	.001	.001	0 %100
34	MP-10	X	.001	.001	0 %100
35	HR1	X	.001	.001	0 %100
36	HR2	X	.000435	.000435	0 %100
37	HR3	X	.002	.002	0 %100
38	HC1	X	.000604	.000604	0 %100
39	HC2	X	.002	.002	0 %100
40	HC3	X	.002	.002	0 %100
41	SA1	Z	-.002	-.002	0 %100
42	SA2	Z	-.000664	-.000664	0 %100
43	SA3	Z	-.002	-.002	0 %100
44	GS1	Z	-.00087	-.00087	0 %100
45	GS2	Z	-.003	-.003	0 %100
46	GS3	Z	-.002	-.002	0 %100
47	FF-H2-3	Z	-.002	-.002	0 %100
48	SF1-H2-3	Z	-.000923	-.000923	0 %100
49	SF2-H2-1	Z	-.003	-.003	0 %100
50	GS4	Z	-.000839	-.000839	0 %100
51	GS5	Z	-.003	-.003	0 %100
52	GS6	Z	-.002	-.002	0 %100
53	GS7	Z	-.000796	-.000796	0 %100
54	GS8	Z	-.003	-.003	0 %100
55	GS9	Z	-.002	-.002	0 %100
56	GSC2	Z	-.003	-.003	0 %100
57	GSC1	Z	-.000913	-.000913	0 %100
58	GSC3	Z	-.002	-.002	0 %100
59	SF1-H2-2	Z	-.000931	-.000931	0 %100
60	FF-H2-2	Z	-.002	-.002	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
61	SF2-H2-2	Z	-0.003	-0.003	0	%100
62	SF1-H2-1	Z	-0.00923	-0.00923	0	%100
63	FF-H2-1	Z	-0.002	-0.002	0	%100
64	SF2-H2-3	Z	-0.003	-0.003	0	%100
65	MP-1	Z	-0.002	-0.002	0	%100
66	MP-2	Z	-0.002	-0.002	0	%100
67	MP-3	Z	-0.002	-0.002	0	%100
68	MP-4	Z	-0.002	-0.002	0	%100
69	MP-5	Z	-0.002	-0.002	0	%100
70	MP-6	Z	-0.002	-0.002	0	%100
71	MP-7	Z	-0.002	-0.002	0	%100
72	MP-8	Z	-0.002	-0.002	0	%100
73	MP-9	Z	-0.002	-0.002	0	%100
74	MP-10	Z	-0.002	-0.002	0	%100
75	HR1	Z	-0.001	-0.001	0	%100
76	HR2	Z	-0.000517	-0.000517	0	%100
77	HR3	Z	-0.002	-0.002	0	%100
78	HC1	Z	-0.000619	-0.000619	0	%100
79	HC2	Z	-0.002	-0.002	0	%100
80	HC3	Z	-0.002	-0.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	SA1	X	.003	.003	0	%100
2	SA2	X	.002	.002	0	%100
3	SA3	X	.001	.001	0	%100
4	GS11	X	0	0	0	%100
5	GS12	X	.003	.003	0	%100
6	GS13	X	.004	.004	0	%100
7	FF-H2-3	X	.004	.004	0	%100
8	SF1-H2-3	X	0	0	0	%100
9	SF2-H2-1	X	.003	.003	0	%100
10	GS14	X	0	0	0	%100
11	GS15	X	.003	.003	0	%100
12	GS16	X	.004	.004	0	%100
13	GS17	X	0	0	0	%100
14	GS18	X	.003	.003	0	%100
15	GS19	X	.003	.003	0	%100
16	GSC2	X	.004	.004	0	%100
17	GSC1	X	0	0	0	%100
18	GSC3	X	.004	.004	0	%100
19	SF1-H2-2	X	0	0	0	%100
20	FF-H2-2	X	.004	.004	0	%100
21	SF2-H2-2	X	.004	.004	0	%100
22	SF1-H2-1	X	0	0	0	%100
23	FF-H2-1	X	.004	.004	0	%100
24	SF2-H2-3	X	.003	.003	0	%100
25	MP-1	X	.002	.002	0	%100
26	MP-2	X	.002	.002	0	%100
27	MP-3	X	.002	.002	0	%100
28	MP-4	X	.002	.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
29	MP-5	X	.002	.002	0	%100
30	MP-6	X	.002	.002	0	%100
31	MP-7	X	.002	.002	0	%100
32	MP-8	X	.002	.002	0	%100
33	MP-9	X	.002	.002	0	%100
34	MP-10	X	.002	.002	0	%100
35	HR1	X	.002	.002	0	%100
36	HR2	X	0	0	0	%100
37	HR3	X	.002	.002	0	%100
38	HC1	X	0	0	0	%100
39	HC2	X	.002	.002	0	%100
40	HC3	X	.003	.003	0	%100
41	SA1	Z	-.002	-.002	0	%100
42	SA2	Z	-.000907	-.000907	0	%100
43	SA3	Z	-.001	-.001	0	%100
44	GS11	Z	0	0	0	%100
45	GS12	Z	-.002	-.002	0	%100
46	GS13	Z	-.002	-.002	0	%100
47	FF-H2-3	Z	-.002	-.002	0	%100
48	SF1-H2-3	Z	0	0	0	%100
49	SF2-H2-1	Z	-.002	-.002	0	%100
50	GS14	Z	0	0	0	%100
51	GS15	Z	-.002	-.002	0	%100
52	GS16	Z	-.002	-.002	0	%100
53	GS17	Z	0	0	0	%100
54	GS18	Z	-.002	-.002	0	%100
55	GS19	Z	-.002	-.002	0	%100
56	GSC2	Z	-.002	-.002	0	%100
57	GSC1	Z	0	0	0	%100
58	GSC3	Z	-.002	-.002	0	%100
59	SF1-H2-2	Z	0	0	0	%100
60	FF-H2-2	Z	-.002	-.002	0	%100
61	SF2-H2-2	Z	-.002	-.002	0	%100
62	SF1-H2-1	Z	0	0	0	%100
63	FF-H2-1	Z	-.002	-.002	0	%100
64	SF2-H2-3	Z	-.002	-.002	0	%100
65	MP-1	Z	-.001	-.001	0	%100
66	MP-2	Z	-.001	-.001	0	%100
67	MP-3	Z	-.001	-.001	0	%100
68	MP-4	Z	-.001	-.001	0	%100
69	MP-5	Z	-.001	-.001	0	%100
70	MP-6	Z	-.001	-.001	0	%100
71	MP-7	Z	-.001	-.001	0	%100
72	MP-8	Z	-.001	-.001	0	%100
73	MP-9	Z	-.001	-.001	0	%100
74	MP-10	Z	-.001	-.001	0	%100
75	HR1	Z	-.001	-.001	0	%100
76	HR2	Z	0	0	0	%100
77	HR3	Z	-.001	-.001	0	%100
78	HC1	Z	0	0	0	%100
79	HC2	Z	-.001	-.001	0	%100
80	HC3	Z	-.001	-.001	0	%100



Company : Tower Engineering Professionals
 Designer : S.J.L.
 Job Number : TEP No. 218217.416540
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Member Distributed Loads (BLC 27 : 180 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1 SA1	X	.004	.004	0	%100
2 SA2	X	.004	.004	0	%100
3 SA3	X	.003	.003	0	%100
4 GSI1	X	.004	.004	0	%100
5 GSI2	X	.004	.004	0	%100
6 GSI3	X	.005	.005	0	%100
7 FF-H2-3	X	.005	.005	0	%100
8 SF1-H2-3	X	.005	.005	0	%100
9 SF2-H2-1	X	.005	.005	0	%100
10 GSI4	X	.004	.004	0	%100
11 GSI5	X	.004	.004	0	%100
12 GSI6	X	.005	.005	0	%100
13 GSI7	X	.004	.004	0	%100
14 GSI8	X	.004	.004	0	%100
15 GSI9	X	.004	.004	0	%100
16 GSC2	X	.005	.005	0	%100
17 GSC1	X	.005	.005	0	%100
18 GSC3	X	.005	.005	0	%100
19 SF1-H2-2	X	.005	.005	0	%100
20 FF-H2-2	X	.005	.005	0	%100
21 SF2-H2-2	X	.005	.005	0	%100
22 SF1-H2-1	X	.005	.005	0	%100
23 FF-H2-1	X	.005	.005	0	%100
24 SF2-H2-3	X	.005	.005	0	%100
25 MP-1	X	.002	.002	0	%100
26 MP-2	X	.002	.002	0	%100
27 MP-3	X	.002	.002	0	%100
28 MP-4	X	.002	.002	0	%100
29 MP-5	X	.002	.002	0	%100
30 MP-6	X	.002	.002	0	%100
31 MP-7	X	.002	.002	0	%100
32 MP-8	X	.002	.002	0	%100
33 MP-9	X	.002	.002	0	%100
34 MP-10	X	.002	.002	0	%100
35 HR1	X	.003	.003	0	%100
36 HR2	X	.002	.002	0	%100
37 HR3	X	.002	.002	0	%100
38 HC1	X	.003	.003	0	%100
39 HC2	X	.003	.003	0	%100
40 HC3	X	.003	.003	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1 SA1	X	.002	.002	0	%100
2 SA2	X	.003	.003	0	%100
3 SA3	X	.001	.001	0	%100
4 GSI1	X	.003	.003	0	%100
5 GSI2	X	0	0	0	%100
6 GSI3	X	.004	.004	0	%100
7 FF-H2-3	X	.004	.004	0	%100
8 SF1-H2-3	X	.003	.003	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
9 SF2-H2-1	X	0	0	0	%100
10 GSI4	X	.003	.003	0	%100
11 GSI5	X	0	0	0	%100
12 GSI6	X	.004	.004	0	%100
13 GSI7	X	.003	.003	0	%100
14 GSI8	X	0	0	0	%100
15 GSI9	X	.003	.003	0	%100
16 GSC2	X	0	0	0	%100
17 GSC1	X	.004	.004	0	%100
18 GSC3	X	.004	.004	0	%100
19 SF1-H2-2	X	.004	.004	0	%100
20 FF-H2-2	X	.004	.004	0	%100
21 SF2-H2-2	X	0	0	0	%100
22 SF1-H2-1	X	.003	.003	0	%100
23 FF-H2-1	X	.004	.004	0	%100
24 SF2-H2-3	X	0	0	0	%100
25 MP-1	X	.002	.002	0	%100
26 MP-2	X	.002	.002	0	%100
27 MP-3	X	.002	.002	0	%100
28 MP-4	X	.002	.002	0	%100
29 MP-5	X	.002	.002	0	%100
30 MP-6	X	.002	.002	0	%100
31 MP-7	X	.002	.002	0	%100
32 MP-8	X	.002	.002	0	%100
33 MP-9	X	.002	.002	0	%100
34 MP-10	X	.002	.002	0	%100
35 HR1	X	.002	.002	0	%100
36 HR2	X	.002	.002	0	%100
37 HR3	X	0	0	0	%100
38 HC1	X	.002	.002	0	%100
39 HC2	X	0	0	0	%100
40 HC3	X	.003	.003	0	%100
41 SA1	Z	.000907	.000907	0	%100
42 SA2	Z	.002	.002	0	%100
43 SA3	Z	.001	.001	0	%100
44 GSI1	Z	.002	.002	0	%100
45 GSI2	Z	0	0	0	%100
46 GSI3	Z	.002	.002	0	%100
47 FF-H2-3	Z	.002	.002	0	%100
48 SF1-H2-3	Z	.002	.002	0	%100
49 SF2-H2-1	Z	0	0	0	%100
50 GSI4	Z	.002	.002	0	%100
51 GSI5	Z	0	0	0	%100
52 GSI6	Z	.002	.002	0	%100
53 GSI7	Z	.002	.002	0	%100
54 GSI8	Z	0	0	0	%100
55 GSI9	Z	.002	.002	0	%100
56 GSC2	Z	0	0	0	%100
57 GSC1	Z	.002	.002	0	%100
58 GSC3	Z	.002	.002	0	%100
59 SF1-H2-2	Z	.002	.002	0	%100
60 FF-H2-2	Z	.002	.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
61	SF2-H2-2	Z	0	0	%100	
62	SF1-H2-1	Z	.002	.002	%100	
63	FF-H2-1	Z	.002	.002	%100	
64	SF2-H2-3	Z	0	0	%100	
65	MP-1	Z	.001	.001	0	%100
66	MP-2	Z	.001	.001	0	%100
67	MP-3	Z	.001	.001	0	%100
68	MP-4	Z	.001	.001	0	%100
69	MP-5	Z	.001	.001	0	%100
70	MP-6	Z	.001	.001	0	%100
71	MP-7	Z	.001	.001	0	%100
72	MP-8	Z	.001	.001	0	%100
73	MP-9	Z	.001	.001	0	%100
74	MP-10	Z	.001	.001	0	%100
75	HR1	Z	.001	.001	0	%100
76	HR2	Z	.001	.001	0	%100
77	HR3	Z	0	0	0	%100
78	HC1	Z	.001	.001	0	%100
79	HC2	Z	0	0	0	%100
80	HC3	Z	.001	.001	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	SA1	X	.000733	.000733	0	%100
2	SA2	X	.003	.003	0	%100
3	SA3	X	.002	.002	0	%100
4	GS11	X	.003	.003	0	%100
5	GS12	X	.000788	.000788	0	%100
6	GS13	X	.002	.002	0	%100
7	FF-H2-3	X	.003	.003	0	%100
8	SF1-H2-3	X	.003	.003	0	%100
9	SF2-H2-1	X	.000837	.000837	0	%100
10	GS14	X	.003	.003	0	%100
11	GS15	X	.000767	.000767	0	%100
12	GS16	X	.002	.002	0	%100
13	GS17	X	.003	.003	0	%100
14	GS18	X	.000751	.000751	0	%100
15	GS19	X	.002	.002	0	%100
16	GSC2	X	.000913	.000913	0	%100
17	GSC1	X	.003	.003	0	%100
18	GSC3	X	.002	.002	0	%100
19	SF1-H2-2	X	.003	.003	0	%100
20	FF-H2-2	X	.003	.003	0	%100
21	SF2-H2-2	X	.000869	.000869	0	%100
22	SF1-H2-1	X	.003	.003	0	%100
23	FF-H2-1	X	.003	.003	0	%100
24	SF2-H2-3	X	.000837	.000837	0	%100
25	MP-1	X	.002	.002	0	%100
26	MP-2	X	.001	.001	0	%100
27	MP-3	X	.002	.002	0	%100
28	MP-4	X	.001	.001	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,kst]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]	
29	MP-5	X	.002	.002	0	%100
30	MP-6	X	.001	.001	0	%100
31	MP-7	X	.001	.001	0	%100
32	MP-8	X	.002	.002	0	%100
33	MP-9	X	.001	.001	0	%100
34	MP-10	X	.001	.001	0	%100
35	HR1	X	.001	.001	0	%100
36	HR2	X	.002	.002	0	%100
37	HR3	X	.000435	.000435	0	%100
38	HC1	X	.002	.002	0	%100
39	HC2	X	.000604	.000604	0	%100
40	HC3	X	.002	.002	0	%100
41	SA1	Z	.000664	.000664	0	%100
42	SA2	Z	.002	.002	0	%100
43	SA3	Z	.002	.002	0	%100
44	GS11	Z	.003	.003	0	%100
45	GS12	Z	.00087	.00087	0	%100
46	GS13	Z	.002	.002	0	%100
47	FF-H2-3	Z	.002	.002	0	%100
48	SF1-H2-3	Z	.003	.003	0	%100
49	SF2-H2-1	Z	.000923	.000923	0	%100
50	GS14	Z	.003	.003	0	%100
51	GS15	Z	.000839	.000839	0	%100
52	GS16	Z	.002	.002	0	%100
53	GS17	Z	.003	.003	0	%100
54	GS18	Z	.000796	.000796	0	%100
55	GS19	Z	.002	.002	0	%100
56	GSC2	Z	.000913	.000913	0	%100
57	GSC1	Z	.003	.003	0	%100
58	GSC3	Z	.002	.002	0	%100
59	SF1-H2-2	Z	.003	.003	0	%100
60	FF-H2-2	Z	.002	.002	0	%100
61	SF2-H2-2	Z	.000931	.000931	0	%100
62	SF1-H2-1	Z	.003	.003	0	%100
63	FF-H2-1	Z	.002	.002	0	%100
64	SF2-H2-3	Z	.000923	.000923	0	%100
65	MP-1	Z	.002	.002	0	%100
66	MP-2	Z	.002	.002	0	%100
67	MP-3	Z	.002	.002	0	%100
68	MP-4	Z	.002	.002	0	%100
69	MP-5	Z	.002	.002	0	%100
70	MP-6	Z	.002	.002	0	%100
71	MP-7	Z	.002	.002	0	%100
72	MP-8	Z	.002	.002	0	%100
73	MP-9	Z	.002	.002	0	%100
74	MP-10	Z	.002	.002	0	%100
75	HR1	Z	.001	.001	0	%100
76	HR2	Z	.002	.002	0	%100
77	HR3	Z	.000517	.000517	0	%100
78	HC1	Z	.002	.002	0	%100
79	HC2	Z	.000619	.000619	0	%100
80	HC3	Z	.002	.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1 SA1	X	0	0	0	%100
2 SA2	X	.002	.002	0	%100
3 SA3	X	.001	.001	0	%100
4 GSI1	X	.002	.002	0	%100
5 GSI2	X	.001	.001	0	%100
6 GSI3	X	.001	.001	0	%100
7 FF-H2-3	X	.001	.001	0	%100
8 SF1-H2-3	X	.002	.002	0	%100
9 SF2-H2-1	X	.001	.001	0	%100
10 GSI4	X	.002	.002	0	%100
11 GSI5	X	.001	.001	0	%100
12 GSI6	X	.001	.001	0	%100
13 GSI7	X	.002	.002	0	%100
14 GSI8	X	.001	.001	0	%100
15 GSI9	X	.001	.001	0	%100
16 GSC2	X	.001	.001	0	%100
17 GSC1	X	.002	.002	0	%100
18 GSC3	X	.001	.001	0	%100
19 SF1-H2-2	X	.002	.002	0	%100
20 FF-H2-2	X	.001	.001	0	%100
21 SF2-H2-2	X	.001	.001	0	%100
22 SF1-H2-1	X	.002	.002	0	%100
23 FF-H2-1	X	.001	.001	0	%100
24 SF2-H2-3	X	.001	.001	0	%100
25 MP-1	X	.001	.001	0	%100
26 MP-2	X	.001	.001	0	%100
27 MP-3	X	.001	.001	0	%100
28 MP-4	X	.001	.001	0	%100
29 MP-5	X	.001	.001	0	%100
30 MP-6	X	.001	.001	0	%100
31 MP-7	X	.001	.001	0	%100
32 MP-8	X	.001	.001	0	%100
33 MP-9	X	.001	.001	0	%100
34 MP-10	X	.001	.001	0	%100
35 HR1	X	.000706	.000706	0	%100
36 HR2	X	.001	.001	0	%100
37 HR3	X	.000595	.000595	0	%100
38 HC1	X	.002	.002	0	%100
39 HC2	X	.000825	.000825	0	%100
40 HC3	X	.000858	.000858	0	%100
41 SA1	Z	0	0	0	%100
42 SA2	Z	.003	.003	0	%100
43 SA3	Z	.003	.003	0	%100
44 GSI1	Z	.004	.004	0	%100
45 GSI2	Z	.002	.002	0	%100
46 GSI3	Z	.002	.002	0	%100
47 FF-H2-3	Z	.002	.002	0	%100
48 SF1-H2-3	Z	.004	.004	0	%100
49 SF2-H2-1	Z	.002	.002	0	%100
50 GSI4	Z	.004	.004	0	%100
51 GSI5	Z	.002	.002	0	%100
52 GSI6	Z	.002	.002	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
53 GSI7	Z	.004	.004	0	%100
54 GSI8	Z	.002	.002	0	%100
55 GSI9	Z	.002	.002	0	%100
56 GSC2	Z	.002	.002	0	%100
57 GSC1	Z	.004	.004	0	%100
58 GSC3	Z	.002	.002	0	%100
59 SF1-H2-2	Z	.004	.004	0	%100
60 FF-H2-2	Z	.002	.002	0	%100
61 SF2-H2-2	Z	.002	.002	0	%100
62 SF1-H2-1	Z	.004	.004	0	%100
63 FF-H2-1	Z	.002	.002	0	%100
64 SF2-H2-3	Z	.002	.002	0	%100
65 MP-1	Z	.002	.002	0	%100
66 MP-2	Z	.002	.002	0	%100
67 MP-3	Z	.002	.002	0	%100
68 MP-4	Z	.002	.002	0	%100
69 MP-5	Z	.002	.002	0	%100
70 MP-6	Z	.002	.002	0	%100
71 MP-7	Z	.002	.002	0	%100
72 MP-8	Z	.002	.002	0	%100
73 MP-9	Z	.002	.002	0	%100
74 MP-10	Z	.002	.002	0	%100
75 HR1	Z	.001	.001	0	%100
76 HR2	Z	.002	.002	0	%100
77 HR3	Z	.001	.001	0	%100
78 HC1	Z	.003	.003	0	%100
79 HC2	Z	.001	.001	0	%100
80 HC3	Z	.001	.001	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1 SA1	Z	.002	.002	0	%100
2 SA2	Z	.002	.002	0	%100
3 SA3	Z	.004	.004	0	%100
4 GSI1	Z	.004	.004	0	%100
5 GSI2	Z	.004	.004	0	%100
6 GSI3	Z	0	0	0	%100
7 FF-H2-3	Z	0	0	0	%100
8 SF1-H2-3	Z	.004	.004	0	%100
9 SF2-H2-1	Z	.004	.004	0	%100
10 GSI4	Z	.004	.004	0	%100
11 GSI5	Z	.004	.004	0	%100
12 GSI6	Z	0	0	0	%100
13 GSI7	Z	.004	.004	0	%100
14 GSI8	Z	.004	.004	0	%100
15 GSI9	Z	0	0	0	%100
16 GSC2	Z	.004	.004	0	%100
17 GSC1	Z	.004	.004	0	%100
18 GSC3	Z	0	0	0	%100
19 SF1-H2-2	Z	.004	.004	0	%100
20 FF-H2-2	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
21	SF2-H2-2	Z	.004	.004	0 %100
22	SF1-H2-1	Z	.004	.004	0 %100
23	FF-H2-1	Z	0	0	0 %100
24	SF2-H2-3	Z	.004	.004	0 %100
25	MP-1	Z	.003	.003	0 %100
26	MP-2	Z	.002	.002	0 %100
27	MP-3	Z	.003	.003	0 %100
28	MP-4	Z	.002	.002	0 %100
29	MP-5	Z	.003	.003	0 %100
30	MP-6	Z	.002	.002	0 %100
31	MP-7	Z	.002	.002	0 %100
32	MP-8	Z	.003	.003	0 %100
33	MP-9	Z	.002	.002	0 %100
34	MP-10	Z	.002	.002	0 %100
35	HR1	Z	0	0	0 %100
36	HR2	Z	.002	.002	0 %100
37	HR3	Z	.002	.002	0 %100
38	HC1	Z	.003	.003	0 %100
39	HC2	Z	.003	.003	0 %100
40	HC3	Z	0	0	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
1	SA1	X	-.002	-.002	0 %100
2	SA2	X	0	0	0 %100
3	SA3	X	-.001	-.001	0 %100
4	GS11	X	-.001	-.001	0 %100
5	GS12	X	-.002	-.002	0 %100
6	GS13	X	-.001	-.001	0 %100
7	FF-H2-3	X	-.001	-.001	0 %100
8	SF1-H2-3	X	-.001	-.001	0 %100
9	SF2-H2-1	X	-.002	-.002	0 %100
10	GS14	X	-.001	-.001	0 %100
11	GS15	X	-.002	-.002	0 %100
12	GS16	X	-.001	-.001	0 %100
13	GS17	X	-.001	-.001	0 %100
14	GS18	X	-.002	-.002	0 %100
15	GS19	X	-.001	-.001	0 %100
16	GSC2	X	-.002	-.002	0 %100
17	GSC1	X	-.001	-.001	0 %100
18	GSC3	X	-.001	-.001	0 %100
19	SF1-H2-2	X	-.001	-.001	0 %100
20	FF-H2-2	X	-.001	-.001	0 %100
21	SF2-H2-2	X	-.002	-.002	0 %100
22	SF1-H2-1	X	-.001	-.001	0 %100
23	FF-H2-1	X	-.001	-.001	0 %100
24	SF2-H2-3	X	-.002	-.002	0 %100
25	MP-1	X	-.001	-.001	0 %100
26	MP-2	X	-.001	-.001	0 %100
27	MP-3	X	-.001	-.001	0 %100
28	MP-4	X	-.001	-.001	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,...	Start Location[ft,%]	End Location[ft,%]
29	MP-5	X	-.001	-.001	0 %100
30	MP-6	X	-.001	-.001	0 %100
31	MP-7	X	-.001	-.001	0 %100
32	MP-8	X	-.001	-.001	0 %100
33	MP-9	X	-.001	-.001	0 %100
34	MP-10	X	-.001	-.001	0 %100
35	HR1	X	-.000706	-.000706	0 %100
36	HR2	X	-.000595	-.000595	0 %100
37	HR3	X	-.001	-.001	0 %100
38	HC1	X	-.000825	-.000825	0 %100
39	HC2	X	-.002	-.002	0 %100
40	HC3	X	-.000858	-.000858	0 %100
41	SA1	Z	.003	.003	0 %100
42	SA2	Z	0	0	0 %100
43	SA3	Z	.003	.003	0 %100
44	GS11	Z	.002	.002	0 %100
45	GS12	Z	.004	.004	0 %100
46	GS13	Z	.002	.002	0 %100
47	FF-H2-3	Z	.002	.002	0 %100
48	SF1-H2-3	Z	.002	.002	0 %100
49	SF2-H2-1	Z	.004	.004	0 %100
50	GS14	Z	.002	.002	0 %100
51	GS15	Z	.004	.004	0 %100
52	GS16	Z	.002	.002	0 %100
53	GS17	Z	.002	.002	0 %100
54	GS18	Z	.004	.004	0 %100
55	GS19	Z	.002	.002	0 %100
56	GSC2	Z	.004	.004	0 %100
57	GSC1	Z	.002	.002	0 %100
58	GSC3	Z	.002	.002	0 %100
59	SF1-H2-2	Z	.002	.002	0 %100
60	FF-H2-2	Z	.002	.002	0 %100
61	SF2-H2-2	Z	.004	.004	0 %100
62	SF1-H2-1	Z	.002	.002	0 %100
63	FF-H2-1	Z	.002	.002	0 %100
64	SF2-H2-3	Z	.004	.004	0 %100
65	MP-1	Z	.002	.002	0 %100
66	MP-2	Z	.002	.002	0 %100
67	MP-3	Z	.002	.002	0 %100
68	MP-4	Z	.002	.002	0 %100
69	MP-5	Z	.002	.002	0 %100
70	MP-6	Z	.002	.002	0 %100
71	MP-7	Z	.002	.002	0 %100
72	MP-8	Z	.002	.002	0 %100
73	MP-9	Z	.002	.002	0 %100
74	MP-10	Z	.002	.002	0 %100
75	HR1	Z	.001	.001	0 %100
76	HR2	Z	.001	.001	0 %100
77	HR3	Z	.002	.002	0 %100
78	HC1	Z	.001	.001	0 %100
79	HC2	Z	.003	.003	0 %100
80	HC3	Z	.001	.001	0 %100



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]
1	SA1	X	-0.003	-0.003	0 %100
2	SA2	X	-0.000733	-0.000733	0 %100
3	SA3	X	-0.002	-0.002	0 %100
4	GS11	X	-0.000788	-0.000788	0 %100
5	GS12	X	-0.003	-0.003	0 %100
6	GS13	X	-0.002	-0.002	0 %100
7	FF-H2-3	X	-0.003	-0.003	0 %100
8	SF1-H2-3	X	-0.000837	-0.000837	0 %100
9	SF2-H2-1	X	-0.003	-0.003	0 %100
10	GS14	X	-0.000767	-0.000767	0 %100
11	GS15	X	-0.003	-0.003	0 %100
12	GS16	X	-0.002	-0.002	0 %100
13	GS17	X	-0.000751	-0.000751	0 %100
14	GS18	X	-0.003	-0.003	0 %100
15	GS19	X	-0.002	-0.002	0 %100
16	GSC2	X	-0.003	-0.003	0 %100
17	GSC1	X	-0.000913	-0.000913	0 %100
18	GSC3	X	-0.002	-0.002	0 %100
19	SF1-H2-2	X	-0.000869	-0.000869	0 %100
20	FF-H2-2	X	-0.003	-0.003	0 %100
21	SF2-H2-2	X	-0.003	-0.003	0 %100
22	SF1-H2-1	X	-0.000837	-0.000837	0 %100
23	FF-H2-1	X	-0.003	-0.003	0 %100
24	SF2-H2-3	X	-0.003	-0.003	0 %100
25	MP-1	X	-0.002	-0.002	0 %100
26	MP-2	X	-0.001	-0.001	0 %100
27	MP-3	X	-0.002	-0.002	0 %100
28	MP-4	X	-0.001	-0.001	0 %100
29	MP-5	X	-0.002	-0.002	0 %100
30	MP-6	X	-0.001	-0.001	0 %100
31	MP-7	X	-0.001	-0.001	0 %100
32	MP-8	X	-0.002	-0.002	0 %100
33	MP-9	X	-0.001	-0.001	0 %100
34	MP-10	X	-0.001	-0.001	0 %100
35	HR1	X	-0.001	-0.001	0 %100
36	HR2	X	-0.000435	-0.000435	0 %100
37	HR3	X	-0.002	-0.002	0 %100
38	HC1	X	-0.000604	-0.000604	0 %100
39	HC2	X	-0.002	-0.002	0 %100
40	HC3	X	-0.002	-0.002	0 %100
41	SA1	Z	0.002	0.002	0 %100
42	SA2	Z	0.000664	0.000664	0 %100
43	SA3	Z	0.002	0.002	0 %100
44	GS11	Z	0.00087	0.00087	0 %100
45	GS12	Z	0.003	0.003	0 %100
46	GS13	Z	0.002	0.002	0 %100
47	FF-H2-3	Z	0.002	0.002	0 %100
48	SF1-H2-3	Z	0.000923	0.000923	0 %100
49	SF2-H2-1	Z	0.003	0.003	0 %100
50	GS14	Z	0.000839	0.000839	0 %100
51	GS15	Z	0.003	0.003	0 %100
52	GS16	Z	0.002	0.002	0 %100



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]
53	GS17	Z	0.000796	0.000796	0 %100
54	GS18	Z	0.003	0.003	0 %100
55	GS19	Z	0.002	0.002	0 %100
56	GSC2	Z	0.003	0.003	0 %100
57	GSC1	Z	0.000913	0.000913	0 %100
58	GSC3	Z	0.002	0.002	0 %100
59	SF1-H2-2	Z	0.000931	0.000931	0 %100
60	FF-H2-2	Z	0.002	0.002	0 %100
61	SF2-H2-2	Z	0.003	0.003	0 %100
62	SF1-H2-1	Z	0.000923	0.000923	0 %100
63	FF-H2-1	Z	0.002	0.002	0 %100
64	SF2-H2-3	Z	0.003	0.003	0 %100
65	MP-1	Z	0.002	0.002	0 %100
66	MP-2	Z	0.002	0.002	0 %100
67	MP-3	Z	0.002	0.002	0 %100
68	MP-4	Z	0.002	0.002	0 %100
69	MP-5	Z	0.002	0.002	0 %100
70	MP-6	Z	0.002	0.002	0 %100
71	MP-7	Z	0.002	0.002	0 %100
72	MP-8	Z	0.002	0.002	0 %100
73	MP-9	Z	0.002	0.002	0 %100
74	MP-10	Z	0.002	0.002	0 %100
75	HR1	Z	0.001	0.001	0 %100
76	HR2	Z	0.000517	0.000517	0 %100
77	HR3	Z	0.002	0.002	0 %100
78	HC1	Z	0.000619	0.000619	0 %100
79	HC2	Z	0.002	0.002	0 %100
80	HC3	Z	0.002	0.002	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]
1	SA1	X	-0.003	-0.003	0 %100
2	SA2	X	-0.002	-0.002	0 %100
3	SA3	X	-0.001	-0.001	0 %100
4	GS11	X	0	0	0 %100
5	GS12	X	-0.003	-0.003	0 %100
6	GS13	X	-0.004	-0.004	0 %100
7	FF-H2-3	X	-0.004	-0.004	0 %100
8	SF1-H2-3	X	0	0	0 %100
9	SF2-H2-1	X	-0.003	-0.003	0 %100
10	GS14	X	0	0	0 %100
11	GS15	X	-0.003	-0.003	0 %100
12	GS16	X	-0.004	-0.004	0 %100
13	GS17	X	0	0	0 %100
14	GS18	X	-0.003	-0.003	0 %100
15	GS19	X	-0.003	-0.003	0 %100
16	GSC2	X	-0.004	-0.004	0 %100
17	GSC1	X	0	0	0 %100
18	GSC3	X	-0.004	-0.004	0 %100
19	SF1-H2-2	X	0	0	0 %100
20	FF-H2-2	X	-0.004	-0.004	0 %100



Company : Tower Engineering Professionals
 Designer : S.J.L
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....	Start Location[ft,%]	End Location[ft,%]	
21	SF2-H2-2	X	-0.04	-0.04	0	%100
22	SF1-H2-1	X	0	0	0	%100
23	FF-H2-1	X	-0.04	-0.04	0	%100
24	SF2-H2-3	X	-0.003	-0.003	0	%100
25	MP-1	X	-0.002	-0.002	0	%100
26	MP-2	X	-0.002	-0.002	0	%100
27	MP-3	X	-0.002	-0.002	0	%100
28	MP-4	X	-0.002	-0.002	0	%100
29	MP-5	X	-0.002	-0.002	0	%100
30	MP-6	X	-0.002	-0.002	0	%100
31	MP-7	X	-0.002	-0.002	0	%100
32	MP-8	X	-0.002	-0.002	0	%100
33	MP-9	X	-0.002	-0.002	0	%100
34	MP-10	X	-0.002	-0.002	0	%100
35	HR1	X	-0.002	-0.002	0	%100
36	HR2	X	0	0	0	%100
37	HR3	X	-0.002	-0.002	0	%100
38	HC1	X	0	0	0	%100
39	HC2	X	-0.002	-0.002	0	%100
40	HC3	X	-0.003	-0.003	0	%100
41	SA1	Z	.002	.002	0	%100
42	SA2	Z	.000907	.000907	0	%100
43	SA3	Z	.001	.001	0	%100
44	GS11	Z	0	0	0	%100
45	GS12	Z	.002	.002	0	%100
46	GS13	Z	.002	.002	0	%100
47	FF-H2-3	Z	.002	.002	0	%100
48	SF1-H2-3	Z	0	0	0	%100
49	SF2-H2-1	Z	.002	.002	0	%100
50	GS14	Z	0	0	0	%100
51	GS15	Z	.002	.002	0	%100
52	GS16	Z	.002	.002	0	%100
53	GS17	Z	0	0	0	%100
54	GS18	Z	.002	.002	0	%100
55	GS19	Z	.002	.002	0	%100
56	GSC2	Z	.002	.002	0	%100
57	GSC1	Z	0	0	0	%100
58	GSC3	Z	.002	.002	0	%100
59	SF1-H2-2	Z	0	0	0	%100
60	FF-H2-2	Z	.002	.002	0	%100
61	SF2-H2-2	Z	.002	.002	0	%100
62	SF1-H2-1	Z	0	0	0	%100
63	FF-H2-1	Z	.002	.002	0	%100
64	SF2-H2-3	Z	.002	.002	0	%100
65	MP-1	Z	.001	.001	0	%100
66	MP-2	Z	.001	.001	0	%100
67	MP-3	Z	.001	.001	0	%100
68	MP-4	Z	.001	.001	0	%100
69	MP-5	Z	.001	.001	0	%100
70	MP-6	Z	.001	.001	0	%100
71	MP-7	Z	.001	.001	0	%100
72	MP-8	Z	.001	.001	0	%100



Company : Tower Engineering Professionals
 Designer : S.J.L
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....	Start Location[ft,%]	End Location[ft,%]	
73	MP-9	Z	.001	.001	0	%100
74	MP-10	Z	.001	.001	0	%100
75	HR1	Z	.001	.001	0	%100
76	HR2	Z	0	0	0	%100
77	HR3	Z	.001	.001	0	%100
78	HC1	Z	0	0	0	%100
79	HC2	Z	.001	.001	0	%100
80	HC3	Z	.001	.001	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....	Start Location[ft,%]	End Location[ft,%]	
1	SA1	Y	.0008068	-.002	2.55	2.975
2	SA1	Y	-.002	-.005	2.975	3.4
3	SA1	Y	-.005	-.011	3.4	3.825
4	SA1	Y	-.011	-.024	3.825	4.25
5	GS11	Y	-.0003109	-.005	0	1.008
6	GS11	Y	-.005	-.007	1.008	2.016
7	GS11	Y	-.007	-.006	2.016	3.024
8	GS11	Y	-.006	-.004	3.024	4.032
9	GS11	Y	-.004	-.0003109	4.032	5.04
10	SF2-H2-1	Y	-.003	-.002	1.575	3.412
11	SF2-H2-1	Y	-.002	-.002	3.412	5.25
12	GS14	Y	-.009	-.009	0	.775
13	GS14	Y	-.009	-.008	.775	1.549
14	GS14	Y	-.008	-.009	1.549	2.324
15	GS14	Y	-.009	-.011	2.324	3.098
16	GS14	Y	-.011	-.008	3.098	3.873
17	GS17	Y	-.015	-.007	0	.588
18	GS17	Y	-.007	-.005	.588	1.176
19	GS17	Y	-.005	-.006	1.176	1.764
20	GS17	Y	-.006	-.001	1.764	2.351
21	FF-H2-1	Y	-.003	-.003	0	1.838
22	FF-H2-1	Y	-.003	-.002	1.838	3.675
23	SA3	Y	.0009421	-.002	2.55	2.975
24	SA3	Y	-.002	-.005	2.975	3.4
25	SA3	Y	-.005	-.012	3.4	3.825
26	SA3	Y	-.012	-.027	3.825	4.25
27	GS13	Y	-.0003177	-.005	0	1.008
28	GS13	Y	-.005	-.007	1.008	2.016
29	GS13	Y	-.007	-.007	2.016	3.024
30	GS13	Y	-.007	-.005	3.024	4.032
31	GS13	Y	-.005	-.0003177	4.032	5.04
32	SF1-H2-3	Y	-.004	-.003	1.575	2.8
33	SF1-H2-3	Y	-.003	-.002	2.8	4.025
34	SF1-H2-3	Y	-.002	-.001	4.025	5.25
35	GS16	Y	-.009	-.009	0	.775
36	GS16	Y	-.009	-.007	.775	1.549
37	GS16	Y	-.007	-.007	1.549	2.324
38	GS16	Y	-.007	-.01	2.324	3.098
39	GS16	Y	-.01	-.011	3.098	3.873
40	GS19	Y	-.011	-.007	0	.47



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]	
41	GS19	Y	-0.007	-0.006	.47	.941
42	GS19	Y	-0.006	-0.008	.941	1.411
43	GS19	Y	-0.008	-0.005	1.411	1.881
44	GS19	Y	-0.005	-0.002	1.881	2.351
45	SF2-H2-3	Y	-0.002	-0.002	0	1.837
46	SF2-H2-3	Y	-0.002	-0.003	1.837	3.675
47	SA2	Y	.0008068	-0.002	2.55	2.975
48	SA2	Y	-0.002	-0.005	2.975	3.4
49	SA2	Y	-0.005	-0.011	3.4	3.825
50	SA2	Y	-0.011	-0.024	3.825	4.25
51	GS12	Y	-.0003044	-0.004	0	1.008
52	GS12	Y	-0.004	-0.006	1.008	2.016
53	GS12	Y	-0.006	-0.006	2.016	3.024
54	GS12	Y	-0.006	-0.004	3.024	4.032
55	GS12	Y	-0.004	-.0003044	4.032	5.04
56	FF-H2-3	Y	-0.002	-0.003	1.575	3.413
57	FF-H2-3	Y	-0.003	-0.003	3.413	5.25
58	GS15	Y	-0.008	-0.011	0	.775
59	GS15	Y	-0.011	-0.009	.775	1.549
60	GS15	Y	-0.009	-0.008	1.549	2.324
61	GS15	Y	-0.008	-0.009	2.324	3.098
62	GS15	Y	-0.009	-0.009	3.098	3.873
63	GS18	Y	-0.001	-0.006	0	.588
64	GS18	Y	-0.006	-0.005	.588	1.176
65	GS18	Y	-0.005	-0.007	1.176	1.764
66	GS18	Y	-0.007	-0.015	1.764	2.351
67	SF1-H2-1	Y	-0.003	-0.003	0	1.838
68	SF1-H2-1	Y	-0.003	-0.003	1.838	3.675

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]	
1	SA1	Y	.0003631	-0.001	2.55	2.975
2	SA1	Y	-0.001	-0.002	2.975	3.4
3	SA1	Y	-0.002	-0.005	3.4	3.825
4	SA1	Y	-0.005	-0.011	3.825	4.25
5	GS11	Y	-.0001399	-0.002	0	1.008
6	GS11	Y	-0.002	-0.003	1.008	2.016
7	GS11	Y	-0.003	-0.003	2.016	3.024
8	GS11	Y	-0.003	-0.002	3.024	4.032
9	GS11	Y	-0.002	-.0001399	4.032	5.04
10	SF2-H2-1	Y	-0.001	-0.001	1.575	3.412
11	SF2-H2-1	Y	-0.001	-.0008385	3.412	5.25
12	GS14	Y	-0.004	-0.004	0	.775
13	GS14	Y	-0.004	-0.004	.775	1.549
14	GS14	Y	-0.004	-0.004	1.549	2.324
15	GS14	Y	-0.004	-0.005	2.324	3.098
16	GS14	Y	-0.005	-0.004	3.098	3.873
17	GS17	Y	-0.007	-0.003	0	.588
18	GS17	Y	-0.003	-0.002	.588	1.176
19	GS17	Y	-0.002	-0.003	1.176	1.764
20	GS17	Y	-0.003	-.0005918	1.764	2.351



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,....	Start Location[ft, %]	End Location[ft, %]	
21	FF-H2-1	Y	-0.001	-0.001	0	1.838
22	FF-H2-1	Y	-0.001	-0.001	1.838	3.675
23	SA3	Y	.0004239	-0.001	2.55	2.975
24	SA3	Y	-0.001	-0.002	2.975	3.4
25	SA3	Y	-0.002	-0.005	3.4	3.825
26	SA3	Y	-0.005	-0.012	3.825	4.25
27	GS13	Y	-.000143	-0.002	0	1.008
28	GS13	Y	-0.002	-0.003	1.008	2.016
29	GS13	Y	-0.003	-0.003	2.016	3.024
30	GS13	Y	-0.003	-0.002	3.024	4.032
31	GS13	Y	-0.002	-.000143	4.032	5.04
32	SF1-H2-3	Y	-0.002	-0.002	1.575	2.8
33	SF1-H2-3	Y	-0.001	-.0009379	2.8	4.025
34	SF1-H2-3	Y	-.0009379	-.0004579	4.025	5.25
35	GS16	Y	-0.004	-0.004	0	.775
36	GS16	Y	-0.004	-0.003	.775	1.549
37	GS16	Y	-0.003	-0.003	1.549	2.324
38	GS16	Y	-0.003	-0.004	2.324	3.098
39	GS16	Y	-0.004	-0.005	3.098	3.873
40	GS19	Y	-0.005	-0.003	0	.47
41	GS19	Y	-0.003	-0.003	.47	.941
42	GS19	Y	-0.003	-0.003	.941	1.411
43	GS19	Y	-0.003	-0.002	1.411	1.881
44	GS19	Y	-0.002	-.0007559	1.881	2.351
45	SF2-H2-3	Y	-.0008907	-0.001	0	1.837
46	SF2-H2-3	Y	-0.001	-0.001	1.837	3.675
47	SA2	Y	.0003631	-0.001	2.55	2.975
48	SA2	Y	-0.001	-0.002	2.975	3.4
49	SA2	Y	-0.002	-0.005	3.4	3.825
50	SA2	Y	-0.005	-0.011	3.825	4.25
51	GS12	Y	-.000137	-0.002	0	1.008
52	GS12	Y	-0.002	-0.003	1.008	2.016
53	GS12	Y	-0.003	-0.003	2.016	3.024
54	GS12	Y	-0.003	-0.002	3.024	4.032
55	GS12	Y	-0.002	-.000137	4.032	5.04
56	FF-H2-3	Y	-0.001	-0.001	1.575	3.413
57	FF-H2-3	Y	-0.001	-0.001	3.413	5.25
58	GS15	Y	-0.003	-0.005	0	.775
59	GS15	Y	-0.005	-0.004	.775	1.549
60	GS15	Y	-0.004	-0.004	1.549	2.324
61	GS15	Y	-0.004	-0.004	2.324	3.098
62	GS15	Y	-0.004	-0.004	3.098	3.873
63	GS18	Y	-.0005918	-0.003	0	.588
64	GS18	Y	-0.003	-0.002	.588	1.176
65	GS18	Y	-0.002	-0.003	1.176	1.764
66	GS18	Y	-0.003	-0.007	1.764	2.351
67	SF1-H2-1	Y	-0.001	-0.001	0	1.838
68	SF1-H2-1	Y	-0.001	-0.001	1.838	3.675



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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Member Area Loads (BLC 1 : Dead)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	GS12	GS114	GS113	GS11	Y	Two Way	-.012
2	GS16	GS118	GS117	GS15	Y	Two Way	-.012
3	GS14	GS13	GS115	GS116	Y	Two Way	-.012

Member Area Loads (BLC 18 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	GS12	GS114	GS113	GS11	Y	Two Way	-.005
2	GS16	GS118	GS117	GS15	Y	Two Way	-.005
3	GS14	GS13	GS115	GS116	Y	Two Way	-.005

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	SA1	max	1.274	18	2.565	45	1.59	22	-1.106	5	4.086	33	4.013	44
		min	-1.258	10	-.476	5	-1.586	14	-6.758	45	-4.075	9	.504	4
3	SA2	max	1.117	2	2.043	39	1.444	7	5.243	56	2.903	11	3.505	57
		min	-1.123	26	-.33	15	-1.453	31	.612	15	-2.906	3	-.467	16
5	SA3	max	1.63	2	1.966	34	.952	22	-.358	22	2.602	6	-.722	10
		min	-1.64	26	-.317	10	-.949	14	-.334	14	-2.633	30	-5.896	34
7	Totals:	max	4.019	18	6.215	49	3.831	22						
		min	-4.019	10	2.352	2	-3.831	14						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear	Che...	Loc[ft]	Dir	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Eqn
1	SA1	HSS6X3...	.398	0	42	.082	0	z	42	128.907	226.872	20.803	34.155	2.H1-1b
2	MP-5	PIPE 2.0	.385	3.719	33	.172	3.719		32	19.964	32.13	1.872	1.872	1.H1-1b
3	MP-1	PIPE 2.0	.361	3.719	27	.148	3.719		27	19.964	32.13	1.872	1.872	1.H1-1b
4	MP-7	PIPE 2.0	.350	3.49	29	.127	3.49		30	19.964	32.13	1.872	1.872	2.H1-1b
5	MP-6	PIPE 2.0	.322	3.49	18	.066	3.49		22	19.964	32.13	1.872	1.872	2.H1-1b
6	SA2	HSS6X3...	.307	0	53	.084	0	z	42	128.907	226.872	20.803	34.155	1.H1-1b
7	MP-10	PIPE 2.0	.293	3.49	18	.135	3.49		19	19.964	32.13	1.872	1.872	2.H1-1b
8	MP-4	PIPE 2.0	.292	3.49	40	.155	3.49		25	19.964	32.13	1.872	1.872	1.H1-1b
9	SA3	HSS6X3...	.289	0	34	.060	0	z	47	128.907	226.872	20.803	34.155	2.H1-1b
10	MP-8	PIPE 2.0	.283	3.719	23	.129	3.719		22	19.964	32.13	1.872	1.872	1.H1-1b
11	MP-9	PIPE 2.0	.271	3.49	24	.046	3.49		27	19.964	32.13	1.872	1.872	2.H1-1b
12	MP-2	PIPE 2.0	.248	3.49	29	.055	3.49		33	19.964	32.13	1.872	1.872	2.H1-1b
13	HR3	PIPE 2.0	.247	4.688	18	.105	.911		23	1.428	32.13	1.872	1.872	3.H1-1b
14	HC2	L2.5x2.5x4	.244	1.25	51	.057	0	y	51	37.734	38.556	1.114	2.537	2.H2-1
15	HR1	PIPE 2.0	.227	11.719	24	.151	.781		52	1.428	32.13	1.872	1.872	3.H1-1b
16	MP-3	PIPE 2.0	.226	3.719	23	.044	3.719		20	19.964	32.13	1.872	1.872	2.H1-1b
17	HR2	PIPE 2.0	.204	4.688	23	.131	11.719		53	1.428	32.13	1.872	1.872	3.H1-1b
18	HC3	L2.5x2.5x4	.201	0	20	.045	0	y	45	37.734	38.556	1.114	2.537	2.H2-1
19	HC1	L2.5x2.5x4	.199	0	31	.036	0	y	24	37.734	38.556	1.114	2.537	2.H2-1
20	GSC2	PL3.5x3	.011	0	18	.109	0	y	60	13.334	21.254	.084	1.55	2.H1-1b
21	GSC1	PL3.5x3	.009	0	23	.089	0	y	33	13.334	21.254	.084	1.55	2.H1-1b
22	GSC3	PL3.5x3	.006	0	21	.071	0	y	22	13.334	21.254	.084	1.55	2.H1-1b



Company : Tower Engineering Professionals
 Designer : SJL
 Job Number : TEP No. 218217.416540
 Model Name : CCI BU No 857528

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Envelope AISI S100-16: LRFD Cold Formed Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC	Shea.	Loc.	Dir	LC	phi*Pn...	phi*Pn...	phi*Tn...	phi*M...	phi*M...	phi*...	phi*...	Cb	Eqn	
1	GS14	Sabre ...	.553		1.937	30	.050	1.937	y	48	47.287	57.218	2.818	6.075	12.2	19.7	1.333	H1.2-1
2	GS15	Sabre ...	.548		1.937	24	.048	1.937	y	57	47.287	57.218	2.818	6.075	12.2	19.7	1.404	H1.2-1
3	GS16	Sabre ...	.480		1.937	19	.046	1.937	z	27	47.287	57.218	2.818	6.075	12.2	19.7	1.394	H1.2-1
4	GS12	Sabre ...	.474		2.52	25	.075	2.52	y	42	45.245	57.218	2.818	6.075	12.2	19.7	1.359	H1.2-1
5	GS11	Sabre ...	.468		2.52	30	.084	2.52	y	42	45.245	57.218	2.818	6.075	12.2	19.7	1.331	H1.2-1
6	FF-H2-1	4.5CU...	.411		1.805	25	.048	4.539	y	33	39.107	59.713	2.247	6.949	13.9	19.7	1.793	H1.2-1
7	GS13	Sabre ...	.401		2.52	19	.068	2.52	y	47	45.245	57.218	2.818	6.075	12.2	19.7	1.325	H1.2-1
8	SF2-H...	4.5CU...	.390		3.445	32	.050	3.445	z	23	39.107	59.713	2.247	6.949	13.9	19.7	1.739	H1.2-1
9	FF-H2-3	4.5CU...	.354		3.445	26	.065	1.711	y	50	39.107	59.713	2.247	6.949	13.9	19.7	1.775	H1.2-1
10	SF1-H...	4.5CU...	.349		1.859	18	.128	1.602	y	37	39.107	59.713	2.247	6.949	13.9	19.7	1.958	H1.2-1
11	SF2-H...	4.5CU...	.284		1.805	30	.145	1.602	y	34	39.107	59.713	2.247	6.949	13.9	19.7	1.824	H1.2-1
12	SF1-H...	4.5CU...	.253		3.445	21	.039	3.445	z	29	39.107	59.713	2.247	6.949	13.9	19.7	1.729	H1.2-1
13	SF2-H...	5CU3x4	.138		2.67	47	.093	2.67	y	47	67.217	82.586	2.977	10.827	19.8	24.3	1.13	H2-1
14	SF1-H...	5CU3x4	.122		2.636	19	.080	2.67	y	36	67.217	82.586	2.977	10.826	19.8	24.3	1.01	H1.2-1
15	FF-H2-2	5CU3x4	.118		2.636	25	.021	3.15	z	33	67.217	82.586	2.977	10.826	19.8	24.3	1.095	H1.2-1
16	GS19	Sabre ...	.008		0	30	.008	0	y	30	47.681	57.218	2.818	6.076	12.2	19.7	1.14	H2-1
17	GS17	Sabre ...	.008		1.151	22	.006	0	y	22	47.681	57.218	2.818	6.075	12.2	19.7	1.132	H1.2-1
18	GS18	Sabre ...	.007		1.176	33	.007	2.351	y	29	47.681	57.218	2.818	6.075	12.2	19.7	1.132	H1.2-1

APPENDIX D
ADDITIONAL CALCULATIONS

Moment Bolt Group - Support Arm

Bolt Size: 0.625 in
 # Bolts: 4
 Plate Width: 11.5 in
 Plate Height: 11.5 in
 Bolt H Gap: 9.5 in
 Bolt V Gap: 9.5 in
 Plate T: 0.5 in
 Slip Member Ø: N/A in
 Bolt Grade: A325N
 $F_{u_{bolt}}$: 120 ksi
 r: 6.7175 in
 J: 180.50 in⁴/in²
 $Bolt_{Area}$: 0.307 in²
 $Bolt_{Area, Net Tensile}$: 0.226 in²
 Pretension: 19 kips
 Slotted Holes: No

Code Checks Per ANSI/TIA-222-H:		
Bolt Capacity =	27.1%	PASS
Plate Capacity =	76.2%	PASS

Plate Bending

Horizontal Member height: 3 in
 Horizontal Member width: 6 in

Plate Fy: 36 ksi

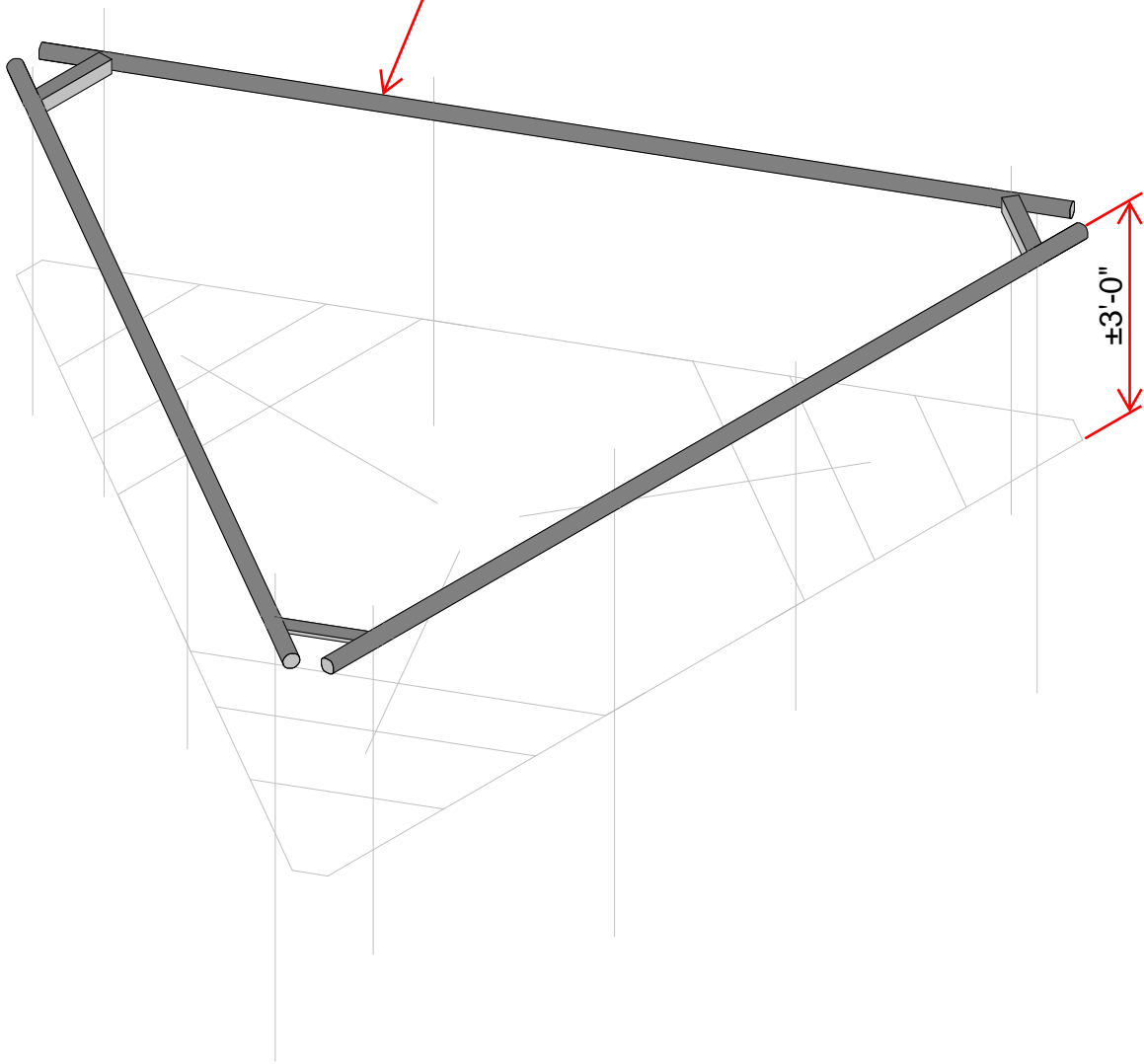
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 M_y = 17.7368 & \text{k-in} & Z_y = 0.719 \text{ in}^3 \\
 M_z = 17.4723 & \text{k-in} & Z_z = 0.719 \text{ in}^3 \\
 S_y = 0.479 & \text{in}^3 & \\
 S_z = 0.479 & \text{in}^3 &
 \end{array}$$

$\emptyset M_{p_y} (Z)$: 23.288 k-in
 $\emptyset M_{p_y} (S)$: 24.840 k-in
 $\emptyset M_{p_z} (Z)$: 23.288 k-in
 $\emptyset M_{p_z} (S)$: 24.840 k-in

APPENDIX E
MOUNT MODIFICATION DESIGN DRAWINGS



Proposed SitePro HRK12 kit or approved equivalent (1 total). To be installed per manufacturer specifications. Connection hardware included.



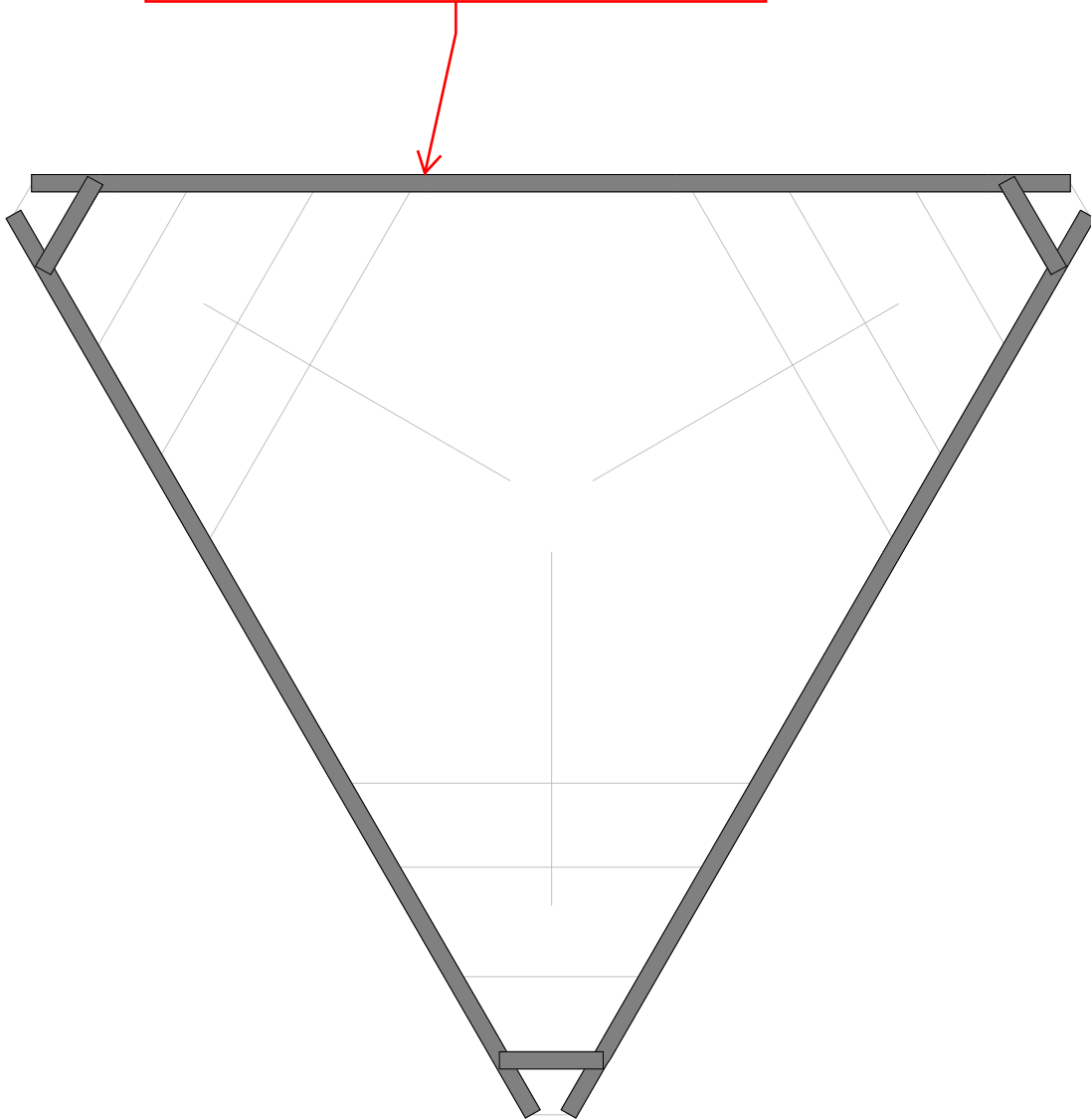
Tower Engineering Profess...
SJL
TEP No. 218217.416540

CCI BU No 857528

SK - 7
May 26, 2020 at 4:02 PM
Mount Rev H.r3d



Proposed SitePro HRK12 kit or approved equivalent (1 total). To be installed per manufacturer specifications. Connection hardware included.



Envelope Only Solution

Tower Engineering Profess...

SJL

TEP No. 218217.416540

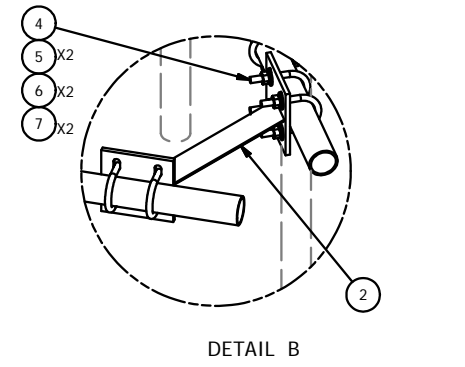
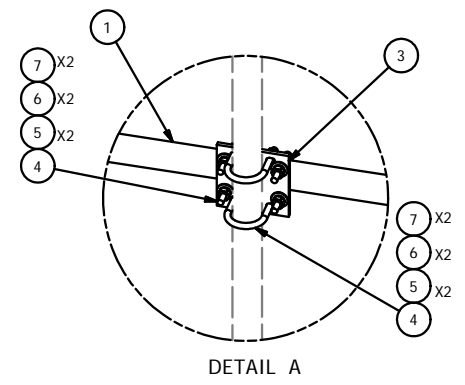
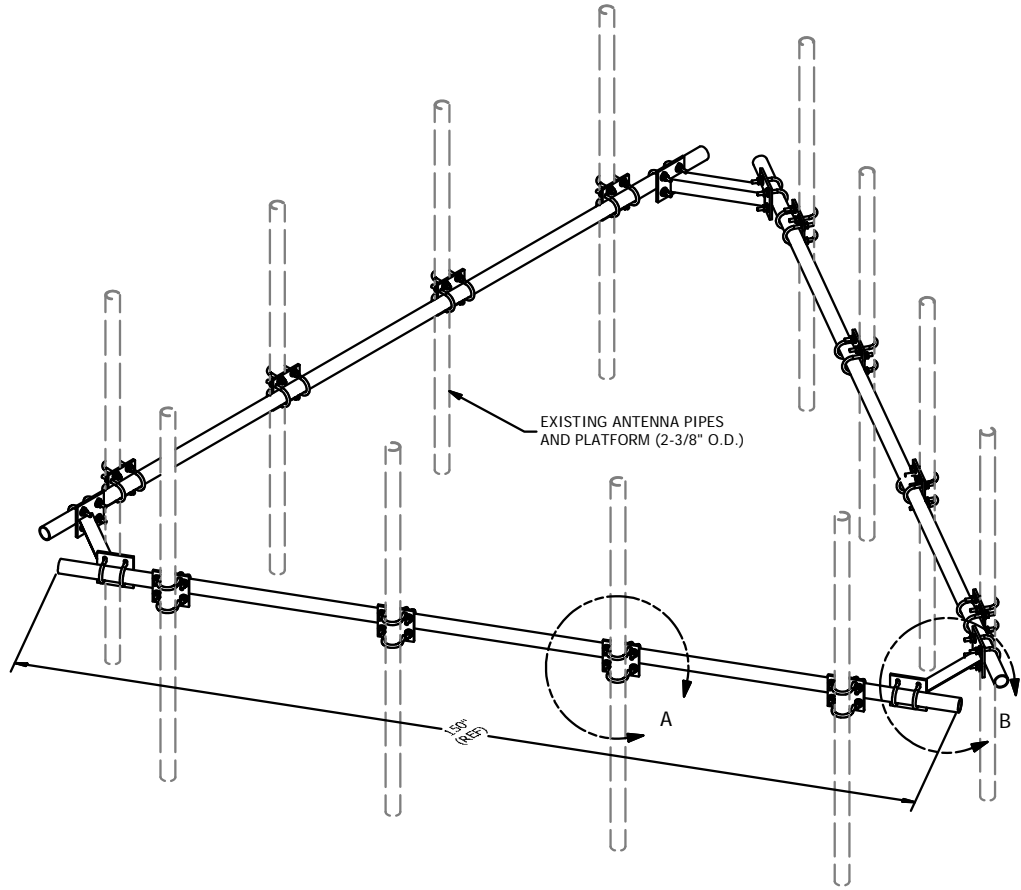
CCI BU No 857528

SK - 8

May 26, 2020 at 3:16 PM

Mount Rev H.r3d

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2150	2-3/8" OD X 150" SCH 40 GALVANIZED PIPE	150 in	48.06	144.17
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	12	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"		3.71	44.50
4	120	G12FW	1/2" HDG USS FLATWASHER		0.03	4.08
5	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.73	43.90
6	120	G12LW	1/2" HDG LOCKWASHER		0.01	1.67
7	120	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	8.58
TOTAL WT. #						261.72



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

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION HANDRAIL KIT FOR 12'-6" FACE			
CPD NO.	DRAWN BY	ENG. APPROVAL	
	KC8 5/30/2012		
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	01	CUSTOMER	BMC 7/14/2014

 A valmont COMPANY	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	Engineering Support Team: 1-888-753-7446
PART NO.	HRK12
DWG. NO.	HRK12

A	REPLACED HCP WITH X-AHCP	CEK	7/10/2014
REV	DESCRIPTION OF REVISIONS	CPD	BY
	REVISION HISTORY		DATE

Exhibit F

Power Density/RF Emissions Report



RF EMISSIONS COMPLIANCE REPORT

Crown Castle on behalf of AT&T Mobility, LLC

Crown Castle Site Name: WOODBURY PAPER MILL RD
Crown Castle Site BU: 857528
AT&T Mobility, LLC FA #: 10128161
85 Paper Mill Road
Woodbury, CT
6/11/2020

Report Status:

AT&T Mobility, LLC is Compliant



Michael Fischer, P.E.
Registered Professional Engineer (Electrical)
Connecticut License Number 33928
Expires January 31, 2021

Signed 11 June 2020

Prepared By:

Site Safe, LLC

Engineering Statement in Re:
Electromagnetic Energy Analysis
AT&T Mobility, LLC
Woodbury, CT

My signature on the cover of this document indicates:

That I am registered as a Professional Engineer in the jurisdiction indicated; and

That I have extensive professional experience in the wireless communications engineering industry; and

That I am an employee of Site Safe, LLC in Vienna, Virginia; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission ("the FCC" and "the FCC Rules") both in general and specifically as they apply to the FCC's Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That the technical information serving as the basis for this report was supplied by Crown Castle on behalf of AT&T Mobility, LLC (see attached Site Summary and Carrier documents) and that AT&T Mobility, LLC's installation involves communications equipment, antennas and associated technical equipment at a location referred to as "WOODBURY PAPER MILL RD" ("the site"); and

That AT&T Mobility, LLC proposes to operate at the site with transmit antennas listed in the carrier summary and with a maximum effective radiated power as specified by AT&T Mobility, LLC and shown on the worksheet and that worst-case 100% duty cycle has been assumed; and

That this analysis has been performed with the assumption that the ground immediately surrounding the tower is primarily flat or falling; and

That at this time, the FCC requires that certain licensees address specific levels of radio frequency energy to which workers or members of the public might possibly be exposed (at §1.1307(b) of the FCC Rules); and

That such consideration of possible exposure of humans to radio frequency energy must utilize the standards set by the FCC, which is the federal agency having jurisdiction over communications facilities; and

That the FCC rules define two tiers of permissible exposure guidelines: 1) "uncontrolled environments," which defines situations in which persons may not be aware of (the "general public"), or may not be able to control their exposure to a transmission facility; and 2) "controlled environments," which defines situations in which persons are aware of their potential for exposure (industry personnel); and

That this statement specifically addresses the uncontrolled environment (which is more conservative than the controlled environment) and the limit set forth in the FCC rules for licensees of AT&T Mobility, LLC's operating frequencies as shown on the attached antenna worksheet; and

That when applying the uncontrolled environment standards, the predicted Maximum Power Density at two meters above ground level from the proposed AT&T Mobility, LLC operation is no more than 1.890% of the maximum permissible exposure limits in any accessible area on the ground; and

That it is understood per FCC Guidelines and OET 65 Appendix A, that regardless of the existent radio frequency environment, only those licensees whose contributions exceed 5% of the exposure limit pertinent to their operation(s) bear any responsibility for bringing any non-compliant area(s) into compliance; and

That when applying the uncontrolled environment standards, the cumulative predicted energy density from the proposed operation is no more than 1.890% of the maximum in any accessible area up to two meters above the ground per OET 65; and

That the calculations provided in this report are based on data provided by the client and antenna pattern data supplied by the antenna manufacturer, in accordance with FCC guidelines listed in OET 65. Horizontal and vertical antenna patterns are combined for modeling purposes to accurately reflect the energy two meters above ground level where on-axis energy refers to maximum energy two meters above the ground along the azimuth of the antenna and where area energy refers to the maximum energy anywhere two meters above the ground regardless of the antenna azimuth, accounting for cumulative energy from multiple antennas for the carrier(s) and frequency range(s) indicated; and

That the Occupational Safety and Health Administration has policies in place which address worker safety in and around communications sites, thus individual companies will be responsible for their employees' training regarding radio frequency safety; and

In summary, it is stated here that the proposed operation at the site will not result in exposure of the public to excessive levels of radio frequency energy as defined in the FCC Rules and Regulations, specifically 47 CFR 1.1307(b), and that AT&T Mobility, LLC's proposed operation is completely compliant.

Finally, it is stated that access to the tower should be restricted to communication industry professionals and approved contractor personnel trained in radio frequency safety and that this instant analysis addresses exposure levels at two meters above ground level and does not address exposure levels on the tower or in the immediate proximity of the antennas.

**AT&T Mobility, LLC
WOODBURY PAPER MILL RD
Site Summary**

Carrier	Area Maximum Percentage MPE
AT&T Mobility, LLC	0.102 %
AT&T Mobility, LLC (Proposed)	0.509 %
AT&T Mobility, LLC (Proposed)	0.243 %
AT&T Mobility, LLC (Proposed)	0.536 %
AT&T Mobility, LLC (Proposed)	0.265 %
AT&T Mobility, LLC (Proposed)	0.235 %
 Composite Site MPE:	 1.890 %

**AT&T Mobility, LLC
 WOODBURY PAPER MILL RD
 Carrier Summary**

Frequency: 850 MHz
 Maximum Permissible Exposure (MPE): 566.67 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 0.57721 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.10186 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
Powerwave	P90-16-XLH-RR	148	30	875	0.224545	0.039626	0.519246	0.091632
Powerwave	P90-16-XLH-RR	148	150	875	0.224545	0.039626	0.519246	0.091632
Powerwave	P90-16-XLH-RR	148	270	875	0.224545	0.039626	0.519246	0.091632

AT&T Mobility, LLC (Proposed)
WOODBURY PAPER MILL RD
Carrier Summary

Frequency: 2100 MHz
 Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 5.09280 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.50928 $\mu\text{W}/\text{cm}^2$

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
CCI	OPA65R-BU6D	148	20	4562	3.624587	0.362459	4.999161	0.499916
CCI	OPA65R-BU6D	148	150	4562	3.624587	0.362459	4.999161	0.499916
CCI	OPA65R-BU4D	148	270	4066	3.843464	0.384346	4.681398	0.468140

**AT&T Mobility, LLC (Proposed)
 WOODBURY PAPER MILL RD
 Carrier Summary**

Frequency: 763 MHz
 Maximum Permissible Exposure (MPE): 508.67 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.23735 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.24325 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
CCI	OPA65R-BU6D	148	20	2450	0.880000	0.173001	0.899625	0.176859
CCI	OPA65R-BU6D	148	150	2450	0.880000	0.173001	0.899625	0.176859
CCI	OPA65R-BU4D	148	270	1775	1.145450	0.225187	1.229912	0.241791

**AT&T Mobility, LLC (Proposed)
 WOODBURY PAPER MILL RD
 Carrier Summary**

Frequency: 1900 MHz
 Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 5.35898 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.53590 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
CCI	DMP65R-BU6D	148	20	4075	4.331002	0.433100	5.248622	0.524862
CCI	DMP65R-BU6D	148	150	4075	4.331002	0.433100	5.248622	0.524862
CCI	DMP65R-BU4D	148	270	3541	3.378505	0.337851	4.280237	0.428024

**AT&T Mobility, LLC (Proposed)
 WOODBURY PAPER MILL RD
 Carrier Summary**

Frequency: 850 MHz
 Maximum Permissible Exposure (MPE): 566.67 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.50376 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.26537 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
CCI	DMP65R-BU6D	148	20	2239	0.804006	0.141883	1.451670	0.256177
CCI	DMP65R-BU6D	148	150	2239	0.804006	0.141883	1.451670	0.256177
CCI	DMP65R-BU4D	148	270	1695	0.931848	0.164444	0.982804	0.173436

**AT&T Mobility, LLC (Proposed)
 WOODBURY PAPER MILL RD
 Carrier Summary**

Frequency: 737 MHz
 Maximum Permissible Exposure (MPE): 491.33 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.15473 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.23502 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
CCI	DMP65R-BU6D	148	20	2400	0.857461	0.174517	1.105343	0.224968
CCI	DMP65R-BU6D	148	150	2400	0.857461	0.174517	1.105343	0.224968
CCI	DMP65R-BU4D	148	270	1582	0.927472	0.188766	0.970035	0.197429