



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

July 13, 2021

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

RE: **Notice of Exempt Modification for Verizon:**
Crown Site BU: 806377
197 South Street, Vernon, CT 06066
Latitude: 41° 51' 12.51" / Longitude: -72° 27' 7.52"

Dear Ms. Bachman:

Verizon currently maintains twelve (12) total antennas at the 117-foot centerline on the existing 132-foot self-support tower located at 197 South Street, Vernon, CT. The property is owned by the Connecticut Water Company and the Tower is owned by Crown Castle. Verizon now intends to swap six (6) antennas, add three (3) antennas, swap six (6) RRHs and remove six (6) RRHs

Tower modifications:

- Swap six (6) antennas
- Add three (3) antennas
- Swap six (6) RRHs
- Remove six (6) RRHs

Ground modifications:

- None

The facility was approved by the Connecticut Siting Council in Docket No. 58A on April 22, 1987. 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 Daniel Champagne, Mayor for the Town of Vernon, George McGregor, Town Planner, the Connecticut Water Company as the property owner and Crown Castle is the tower owner.

Additionally:

1. The proposed modifications will not result in an increase in the height of the existing tower
2. The proposed modifications will not require the extension of the site boundary.

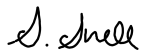
The Foundation for a Wireless World.

CrownCastle.com

3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,



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

Attachments

cc: The Honorable Daniel Champagne, Mayor (*via email only to dchampagne@vernon-ct.gov*)
Vernon Town Hall
14 Park Place, 3rd Floor
Vernon, CT 06066

George McGregor, Town Planner (*via email only to gmcgregor@vernon-ct.gov*)
55 West Main Street, 2nd Floor
Vernon, CT 06066

Connecticut Water Company (*via email only to abraig@ctwater.com*)
93 West Main Street
Clinton, CT 06413-1600

Crown Castle, Tower Owner

Snell, Sarah

From: Snell, Sarah
Sent: Tuesday, July 13, 2021 10:36 AM
To: dchampagne@vernon-ct.gov
Subject: Notice of Exempt Modification for Verizon: 197 South Street, Vernon, CT 06066 - Crown BU 806377
Attachments: 806377_552697_469068_HRT 084 943242_Notice of Exempt Modification Verizon_7.13.2021.pdf

Good Morning,

Attached please find a copy of a Notice of Exempt Modification on behalf of Verizon for equipment changes they will make on the existing tower at the above-referenced address. This filing will be made today with the Connecticut Siting Council which advised that electronic notice is sufficient due to the pandemic.

Kindly confirm receipt of the notice at your earliest convenience. Thank you for your time and attention to this matter.

Regards,

Sarah Snell
Site Acquisition Specialist
O: 508-621-9146 M: 978-886-1765

CROWN CASTLE
1800 W. Park Drive
Westborough, MA 01581
CrownCastle.com

Snell, Sarah

From: Snell, Sarah
Sent: Tuesday, July 13, 2021 10:36 AM
To: gmcgregor@vernon-ct.gov
Subject: Notice of Exempt Modification for Verizon: 197 South Street, Vernon, CT 06066 - Crown BU 806377
Attachments: 806377_552697_469068_HRT 084 943242_Notice of Exempt Modification Verizon_7.13.2021.pdf

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Westborough, MA 01581
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Snell, Sarah

From: Snell, Sarah
Sent: Tuesday, July 13, 2021 10:36 AM
To: abraig@ctwater.com
Subject: Notice of Exempt Modification for Verizon: 197 South Street, Vernon, CT 06066 - Crown BU 806377
Attachments: 806377_552697_469068_HRT 084 943242_Notice of Exempt Modification Verizon_7.13.2021.pdf

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CROWN CASTLE
1800 W. Park Drive
Westborough, MA 01581
CrownCastle.com

Exhibit A

Original Facility Approval

AN APPLICATION FOR AN AMENDMENT TO THE : CONNECTICUT SITING
CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY :
AND PUBLIC NEED FOR TELECOMMUNICATIONS : COUNCIL
TOWERS AND ASSOCIATED EQUIPMENT TO PROVIDE
CELLULAR SERVICE IN HARTFORD, MIDDLESEX,
AND TOLLAND COUNTIES. : April 22, 1987

DECISION AND ORDER

The Connecticut Siting Council (Council) hereby amends the Certificate of Environmental Compatibility and Public Need issued pursuant to sections 16-50g through 16-50x of the Connecticut General Statutes of Connecticut (CGS) for the construction, operation, and maintenance of cellular mobile telephone telecommunications towers and associated equipment in Hartford, Tolland, and Middlesex Counties to permit the relocation of the Vernon tower 250 feet to the west, subject to the conditions below.

1. The tower shall be no taller than necessary to provide the proposed service, and in no event shall exceed a total height, including antennas, of 143 feet.
2. The Certificate holder shall submit a development and management plan (D&M plan) for the Vernon site, pursuant to sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies (RSA). The D&M plan shall provide plans for evergreen screening around the fenced perimeter of the tower site.
3. This facility shall be constructed, operated, and maintained as specified in the Council's record and in the plan required by order number 2.

4. The certificate holder shall comply with any future radiofrequency (RF) standards promulgated by state or federal regulatory agencies.

Upon the establishment of any new governmental RF standards, the facility shall be brought into compliance with such standards.

5. The certificate holder shall permit public or private entities to share space on the tower approved herein, for due consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. In addition to complying with section 16-50j-73 of the RSA, the certificate holder shall notify the Council of the addition of any equipment to the approved tower.

6. A chain link fence not lower than eight feet shall surround the tower and associated equipment.
7. Unless necessary to comply with order eight, no lights shall be installed on this tower.
8. The facility's construction and any future tower sharing shall be in accordance with all applicable federal, state, and municipal laws and regulations. Shared uses by entities not subject to Council jurisdiction pursuant to Section 16-50k of the CGS shall be subject to all applicable federal, state, and municipal laws and regulations.
9. Construction activities shall take place during daylight working hours.

Exhibit B

Property Card

CONNECTICUT WATER CO 93 WEST MAIN ST CLINTON, CT 06413-1600 CENSUS TRACT: 530400 Neighborhood Number 11900 Neighborhood Name General Commercial A TAXING DISTRICT INFORMATION Jurisdiction NameTown of Vernon Area146 Routing Number5887	Tax ID 39-065B-0016A										Printed 02/02/2019				Card No. 1 of 1			
	Transfer of Ownership																	
	Owner		Consideration				Transfer Date		Deed Book/Page		Deed Type							
	NA		0				12/21/1978		351		39							
Site Description Topography Public Utilities Water, Sewer, Gas, Electric Street or Road Paved Neighborhood Zoning: R-22 Legal Acres: 2.0000	Valuation Record																	
	Assessment Year		2011		2016		2018											
	Reason for Change																	
			2011 REVAL		2016 Reval		2018 ASMT											
	Market		L		156820		183200		183200									
			I		270220		263240		263240									
			T		427040		446440		446440									
	70% Assessed/Use		L		109770		128240		128240									
			I		189160		184270		184270									
			T		298930		312510		312510									



Land Size				
	Rating, Soil ID - or - Actual Frontage	Acreage - or - Effective Frontage	Square Feet - or - Effective Depth	Influence Factor
Land Type				

Physical Characteristics

ROOFING

Other

WALLS

B

1

2

U

Frame

Yes

Yes

Yes

Yes

Guard

FRAMING

B

1

2

U

F Res

0

312

0

0

FINISH

UF

SF

FO

FD

1

312

0

0

0

Total

312

0

0

0

HEATING AND AIR CONDITIONING

B

1

2

U

Tax ID 39-065B-0016A

Printed 02/02/2019

01

02

03

26

1 s Mas

12

312

Special Features
Description

Summary of Improvements								
ID	USE	Story Height	Const Type	Grade	Year Cons	Eff Year	Cond	Size or Area
C	UTLSTOR	0.00		Avg	1963	1995	AV	312
01	FENCECL	6.00	51C	Avg	1963	1985	AV	510
02	UTLSHED	0.00	4	Avg	1963	1985	AV	300
03	TANKWATR	0.00	51	Good	1963	2000	AV	125000

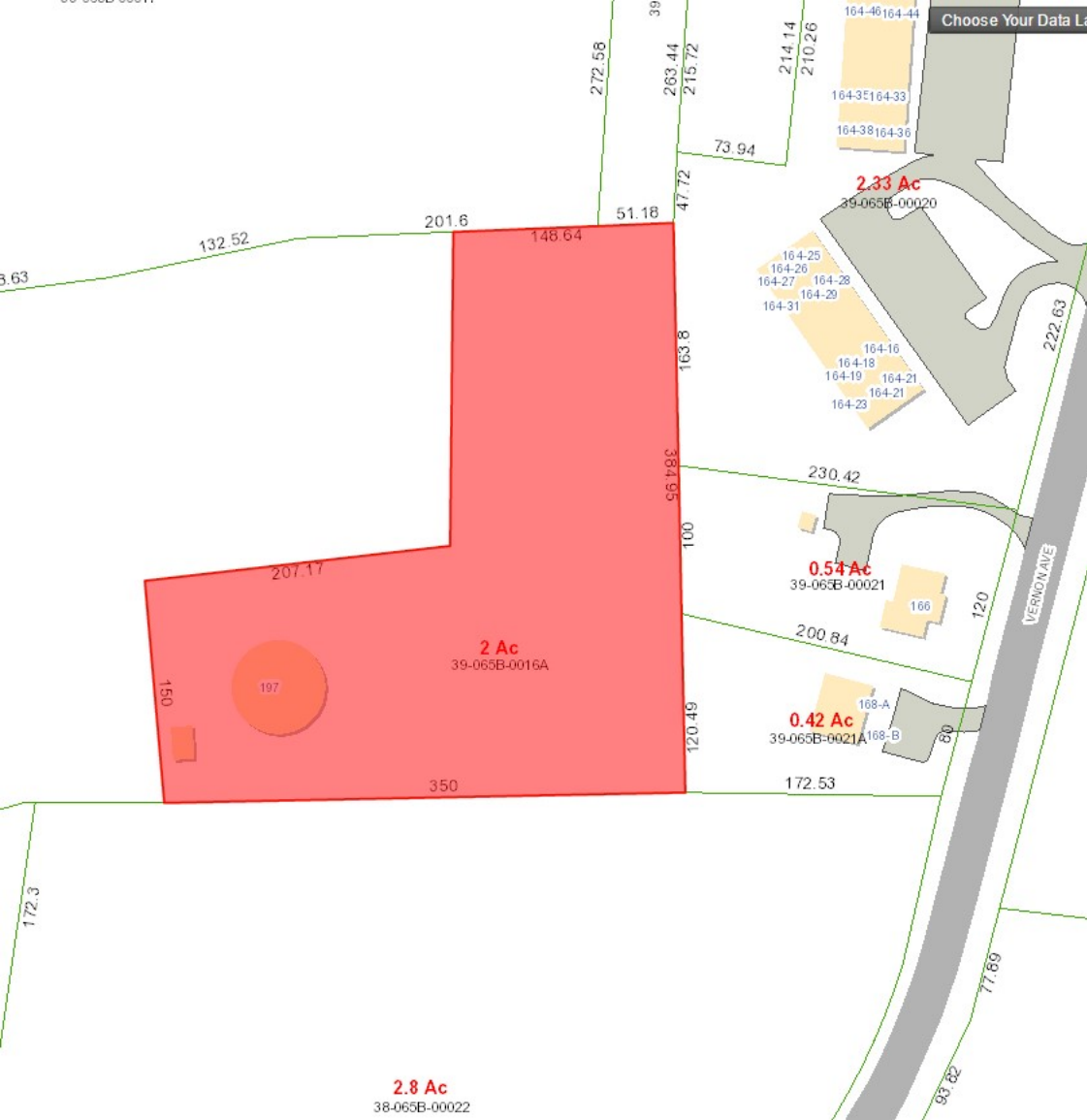


Exhibit C

Construction Drawings



VERIZON SITE NUMBER: 469068

VERIZON SITE NAME: VERNON CT

SITE TYPE: SELF-SUPPORT TOWER

TOWER HEIGHT: 132'-1"

BUSINESS UNIT #: 806377

SITE ADDRESS: 197 SOUTH ST.
VERNON, CT 06066

COUNTY: TOLLAND

JURISDICTION: TOLLAND COUNTY

VERIZON FUZE PROJECT #: 16244122

verizon

180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CC CROWN CASTLE

1500 CORPORATE DRIVE
CANONSBURG, PA 15317

INFINIGY

M ZERO TO INFIN
the solutions are endless

BELLEVUE, WA 98004

VERIZON SITE NUMBER:
469068

BU #: 806377
HRT 084 943242

197 South St.
VERNON, CT 06066

EXISTING 132'-1"
SELF-SUPPORT TOWER

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	06/21/2021	RCD	FINAL CD'S	--

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-1

REVISION:
0

SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	HRT 084 943242
SITE ADDRESS:	197 SOUTH ST. VERNON, CT 06066
COUNTY:	TOLLAND
MAP/PARCEL #:	TBD
AREA OF CONSTRUCTION:	EXISTING
LATTITUDE:	41° 51' 12.3516" N (41.853431°)
LONGITUDE:	72° 27' 7.3044" W (-72.452029°)
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	649.6'
CURRENT ZONING:	TBD
JURISDICTION:	TOLLAND COUNTY
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TBD
	--
TOWER OWNER:	CCATT LLC 1500 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	TBD
	--
TELCO PROVIDER:	TBD
	--

DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	EQUIPMENT SCHEDULES
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT DETAILS
C-6	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	

APPROVALS	
SIGNATURE	DATE
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

CONTRACTOR PMI REQUIREMENTS		
PMI ACCESSED AT	https://pmi.vxwsmart.com	
SMART TOOL VENDOR		
PROJECT NUMBER	6039-Z0001-C	
VzW LOCATION CODE (PSLC)	469068	
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT		

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

LOCATION MAP

DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (180 WASHINGTON VALLEY RD, BEDMINSTER, NJ 07921): DEPART AND HEAD TOWARD WASHINGTON VALLEY RD / COUNTY HWY-620, TURN LEFT ONTO WASHINGTON VALLEY RD / COUNTY HWY-620, BEAR RIGHT ONTO US-206 N / US-202 N / US HIGHWAY 202 206, BEAR RIGHT ONTO US-202 N / US-206 N / US HIGHWAY 202 206, TURN RIGHT ONTO SCHLEY MOUNTAIN RD, HEAD RIGHT ON THE RAMP FOR NY-119 / WESTCHESTER AVE TOWARD HUTCHINSON PKWY / MERRITT PKWY / WHITESTONE BRG, HEAD RIGHT ON THE RAMP FOR HUTCHINSON PKWY N TOWARD MERRITT PKWY, HEAD RIGHT ON THE RAMP FOR I-91 NORTH TOWARD HARTFORD / MIDDLETOWN, HEAD RIGHT ON THE RAMP FOR CT-15 NORTH / US-5 NORTH TOWARD BOSTON / E HARTFORD, KEEP STRAIGHT TO GET ONTO CT-15 N / WILBUR CROSS HWY N, KEEP STRAIGHT TO GET ONTO I-84 E / US-6 E / WILBUR CROSS HWY N, HEAD RIGHT ON THE RAMP TOWARD BOLTON / TUNNEL RD, TURN RIGHT ONTO S FRONTAGE RD TOWARD BOLTON / TUNNEL RD, TURN RIGHT ONTO CT-85 / TUNNEL RD, TURN RIGHT ONTO CT-30 / HARTFORD TPKE, TURN LEFT ONTO VERNON AVE, ARRIVE AT 197 SOUTH ST., VERNON, CT 06066.

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2018 CT STATE BUILDING CODE
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	BY OTHERS
DATED:	
MOUNT ANALYSIS:	NETWORK BUILDING + CONSULTING, LLC
DATED:	05/11/2021
RFDS REVISION:	TBD
DATED:	04/02/2021
ORDER ID:	552697
REVISION:	0

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

PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:

- INSTALL (6) ANTENNAS
- INSTALL (6) RRUS

GROUND SCOPE OF WORK:

- N/A

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

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

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

GREENFIELD GROUNDING NOTES:

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

GENERAL NOTES:

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

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

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

ELECTRICAL INSTALLATION NOTES:

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

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

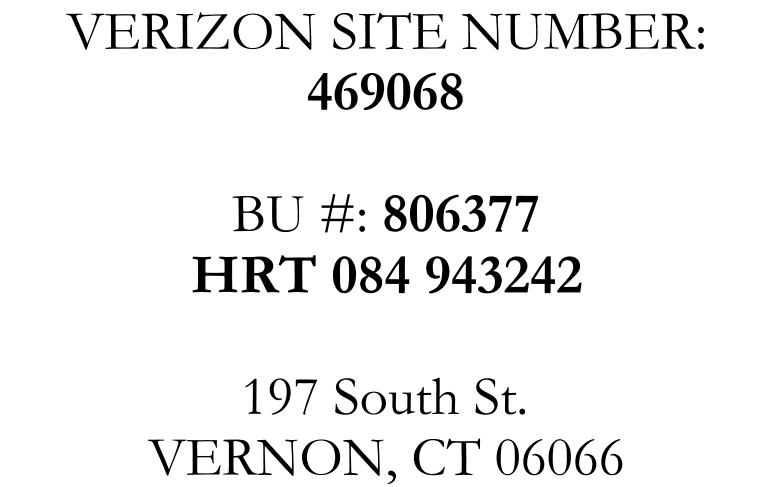
* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

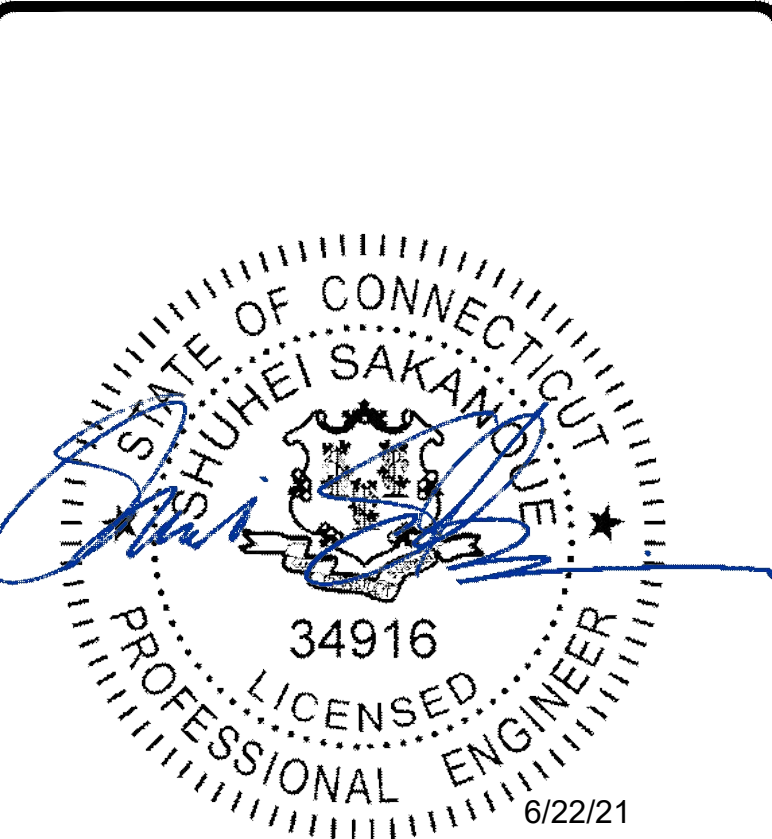
ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET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

APWA UNIFORM COLOR CODE:

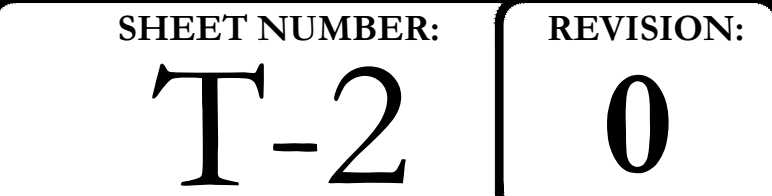
WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER,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

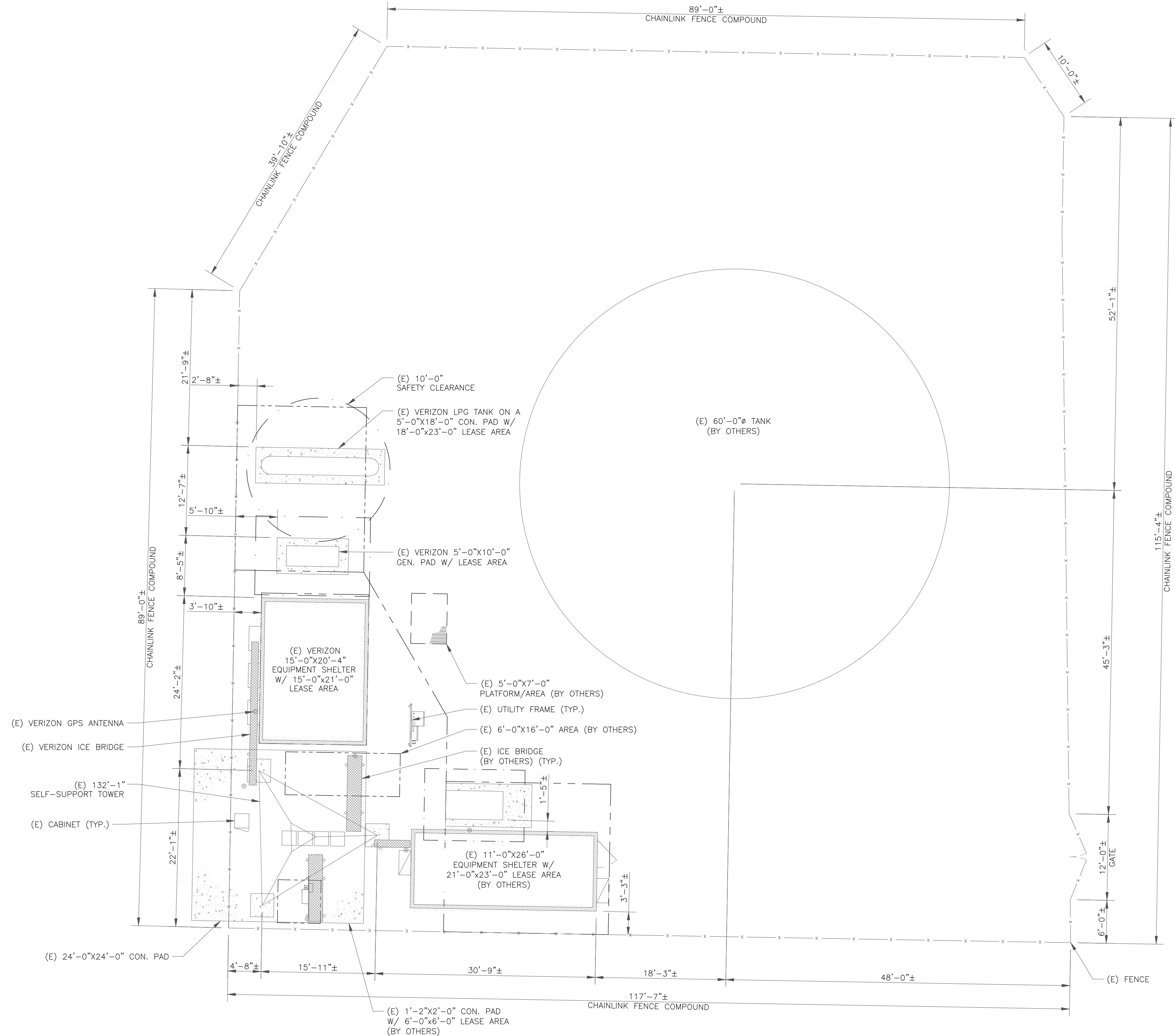


ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	06/21/2021	RCD	FINAL CD'S	--

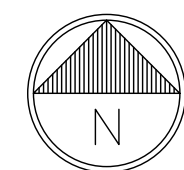


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.





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



verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

INFINIGY
M ZERO TO INFIN
the solutions are endless
BELLEVUE, WA 98004

VERIZON SITE NUMBER:
469068

BU #: **806377**
HRT 084 943242

197 South St.
VERNON, CT 06066

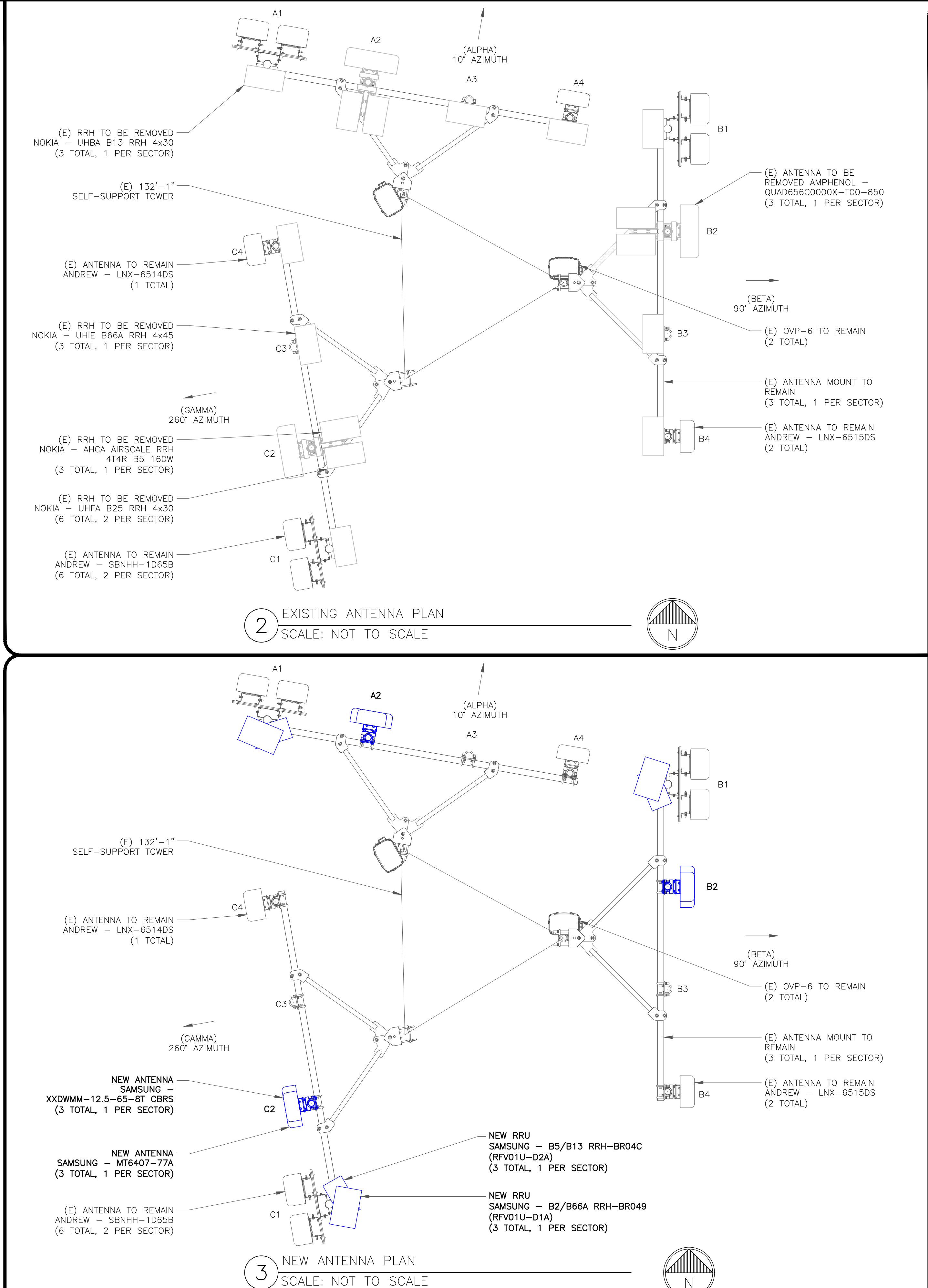
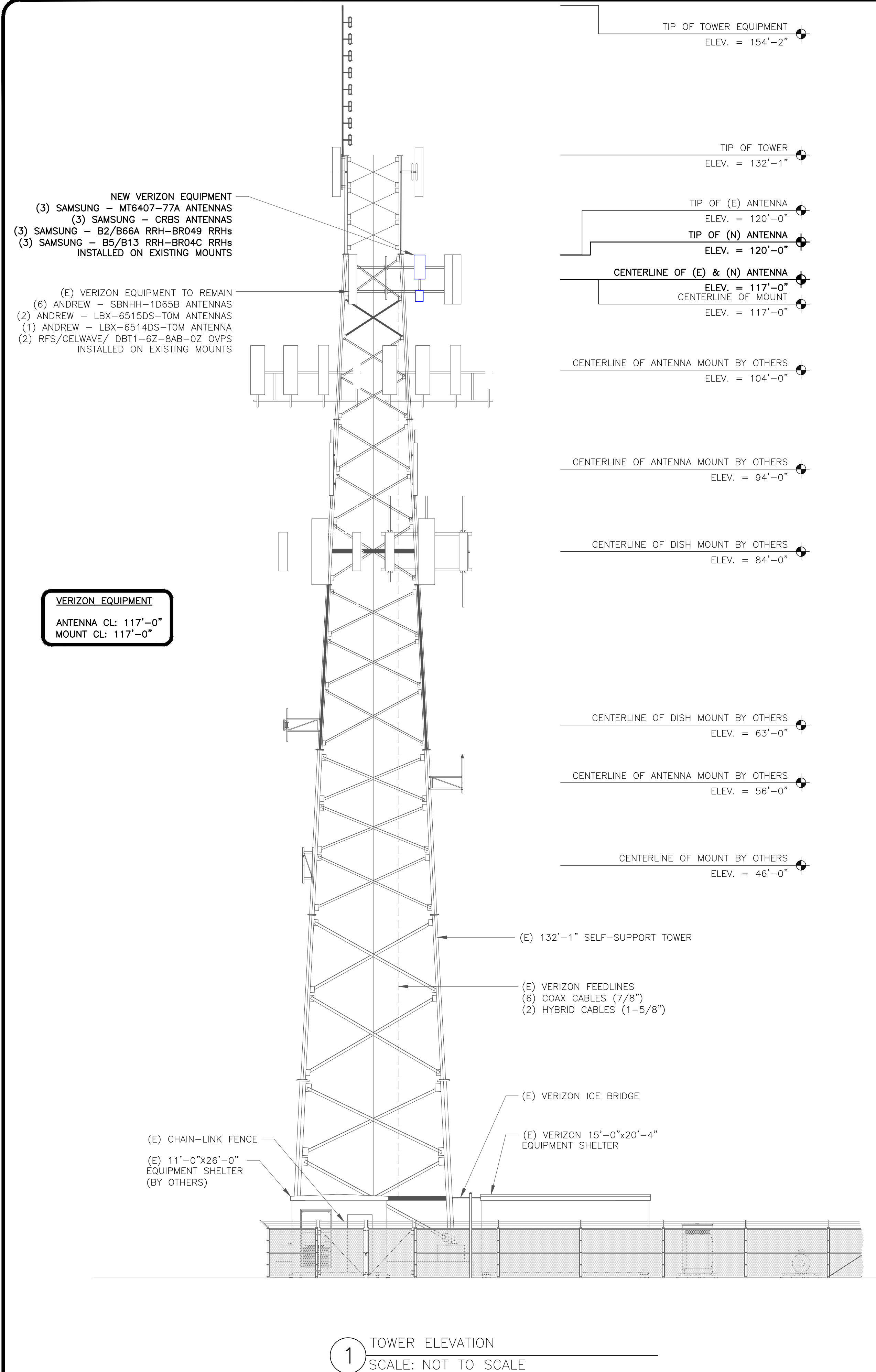
EXISTING 132'-1"
SELF-SUPPORT TOWER

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	06/21/2021	RCD	FINAL CD'S	--



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TO ALTER THIS DOCUMENT.

SHEET NUMBER: **C-1** REVISION: **0**



verizon

180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE

1500 CORPORATE DRIVE
CANONSBURG, PA 15317

INFINIGY

M ZERO TO INFIN

the solutions are endless

BELLEVUE, WA 98004

VERIZON SITE NUMBER:
469068

BU #: **806377**
HRT **084 943242**

197 South St.
VERNON, CT 06066

EXISTING 132'-1"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	06/21/2021	RCD	FINAL CD'S	--

STATE OF CONNECTICUT
SHUHEI SAKAKURA
34916
LICENSED PROFESSIONAL ENGINEER
6/22/21

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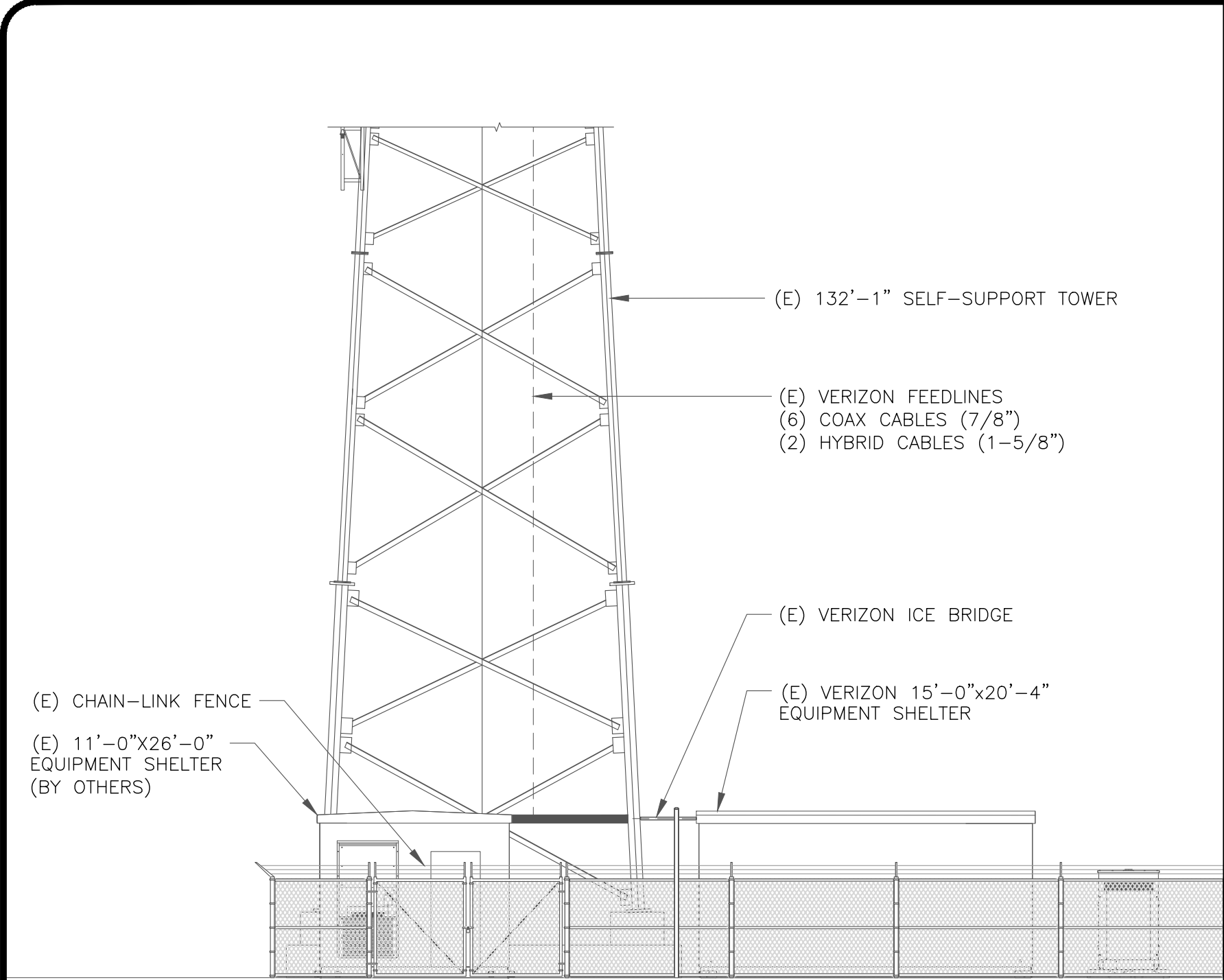
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C-2

REVISION:
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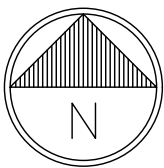
ANTENNA/RRH SCHEDULE									
SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	EXISTING	ANDREW	SBNHH-1D65B	117'-0"	10°	0°	6'/1"/5'/4'	-	-
	EXISTING	ANDREW	SBNHH-1D65B	117'-0"	10°	0°	6'/1"/5'/4'	-	-
A2	NEW	SAMSUNG	MT6407-77A	118'-6"	10°	0°	6'	SAMSUNG	B2/B66A RRH-BR049 (RFV01U-D1A)
	NEW	SAMSUNG	XXDWM-12.5-65-8T CBRS	115'-0"	10°	0°	8'	SAMSUNG	B5/B13 RRH-BR04C (RFV01U-D2A)
A3	-	-	-	-	-	-	-	-	-
A4	EXISTING	ANDREW	LBX-6515DS	117'-0"	10°	2°	0°	-	-
B1	EXISTING	ANDREW	SBNHH-1D65B	117'-0"	90°	0°	6'/0'/2'/4'	-	-
	EXISTING	ANDREW	SBNHH-1D65B	117'-0"	90°	0°	6'/0'/2'/4'	-	-
B2	NEW	SAMSUNG	MT6407-77A	118'-6"	90°	0°	6'	SAMSUNG	B2/B66A RRH-BR049 (RFV01U-D1A)
	NEW	SAMSUNG	XXDWM-12.5-65-8T CBRS	115'-0"	90°	0°	8'	SAMSUNG	B5/B13 RRH-BR04C (RFV01U-D2A)
B3	-	-	-	-	-	-	-	-	-
B4	EXISTING	ANDREW	LBX-6515DS	117'-0"	90°	0°	0°	-	-
C1	EXISTING	ANDREW	SBNHH-1D65B	117'-0"	260°	0°	6'/6'/6'/4'	-	-
	EXISTING	ANDREW	SBNHH-1D65B	117'-0"	260°	0°	6'/6'/6'/4'	-	-
C2	NEW	SAMSUNG	MT6407-77A	118'-6"	260°	0°	6'	SAMSUNG	B2/B66A RRH-BR049 (RFV01U-D1A)
	NEW	SAMSUNG	XXDWM-12.5-65-8T CBRS	115'-0"	260°	0°	8'	SAMSUNG	B5/B13 RRH-BR04C (RFV01U-D2A)
C3	-	-	-	-	-	-	-	-	-
C4	EXISTING	ANDREW	LBX-6514DS	117'-0"	260°	0°	6'	-	-

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE				
STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	7/8"	165'-0"±	6
EXISTING	HYBRID	1-5/8"	165'-0"±	2
TOTAL CABLE QTY:				8



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE



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CANONSURG, PA 15317

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BELLEVUE, WA 98004

VERIZON SITE NUMBER:
469068

BU #: 806377
HRT 084 943242

197 South St.
VERNON, CT 06066

EXISTING 132'-1"
SELF-SUPPORT TOWER

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	06/21/2021	RCD	FINAL CD'S	--

6/22/21

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BELLEVUE, WA 98004

VERIZON SITE NUMBER:
469068

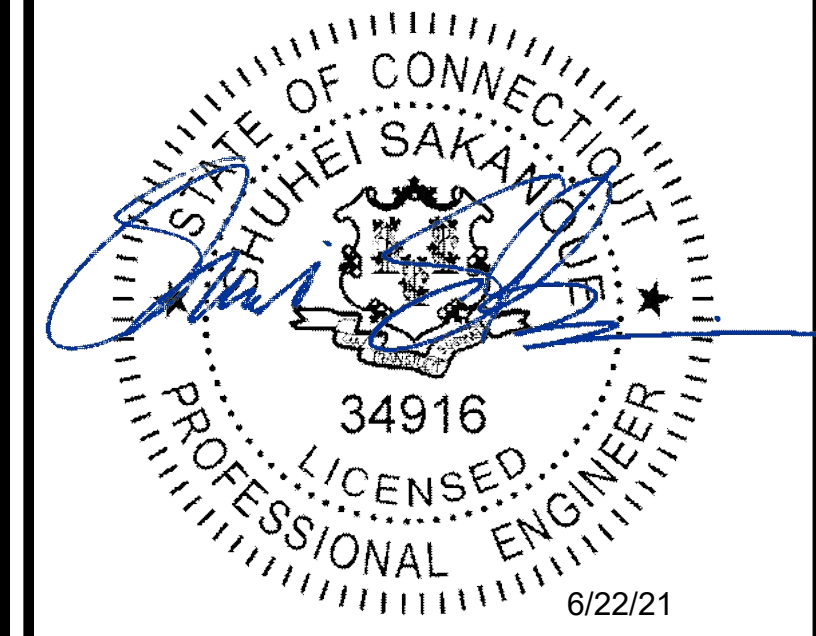
BU #: **806377**
HRT 084 943242

197 South St.
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EXISTING 132'-1"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	06/21/2021	RCD	FINAL CD'S	--

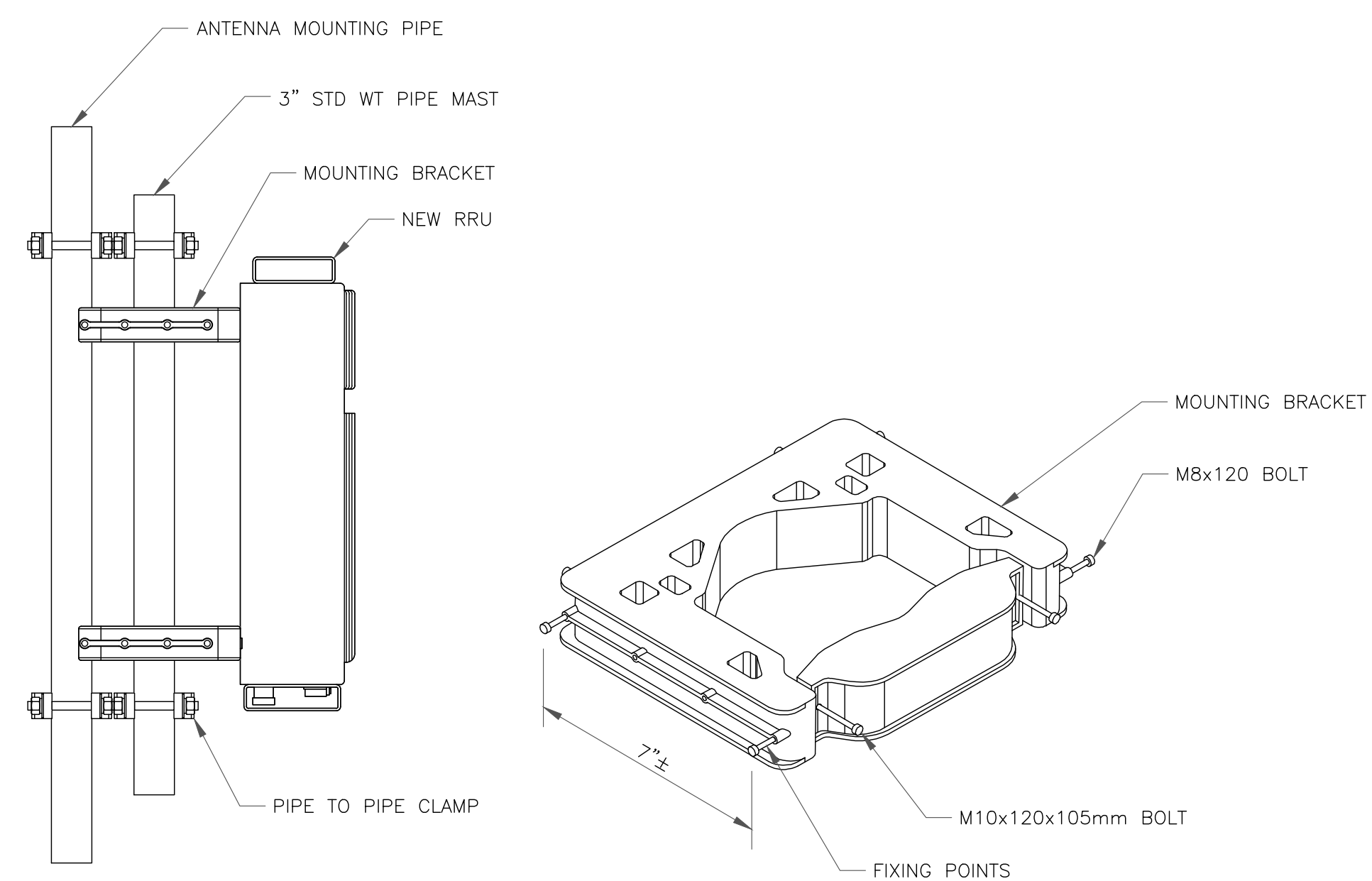


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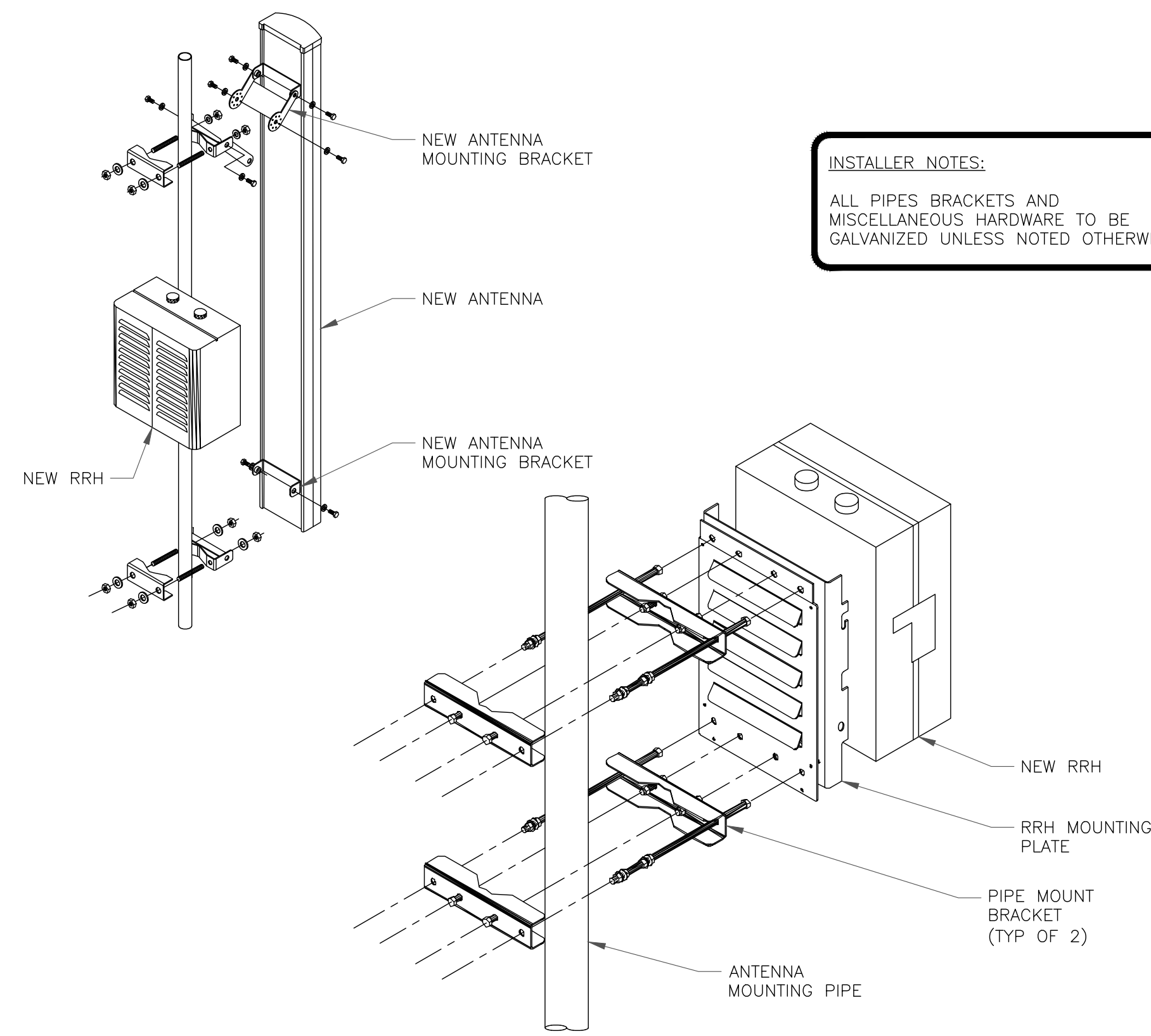
SHEET NUMBER: **C-4** REVISION: **0**

1 NOT USED
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE



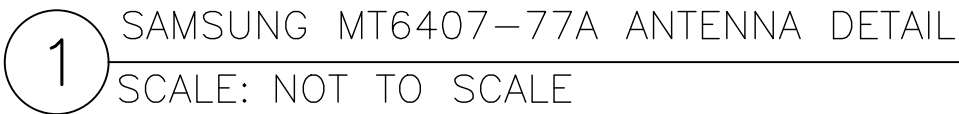
3 NOKIA – FPKA BRACKET MOUNTING DETAIL
SCALE: NOT TO SCALE



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

4 ANTENNA & RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

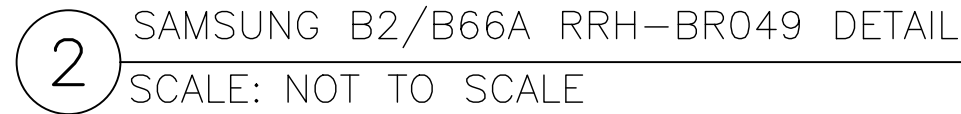
DIMENSIONS, HxWxD: 35.06"x16.06"x5.51"
WEIGHT, W/O BRACKETS: 81.57 lbs



DIMENSIONS, WxDxH: 15.00" X 15.00" X 10.00"

TOTAL WEIGHT: 84.40 lbs

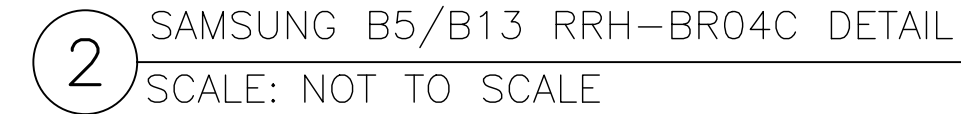
TEMPERATURE: -40° TO 55° C



DIMENSIONS, WxDxH: 15.00" X 15.00" X 8.10"

TOTAL WEIGHT: 70.30 lbs

TEMPERATURE: -40° TO 55° C



DIMENSIONS, HxWxD: 16.16"x11.39"x5.45"
WEIGHT, W/O BRACKETS: 23.0 lbs

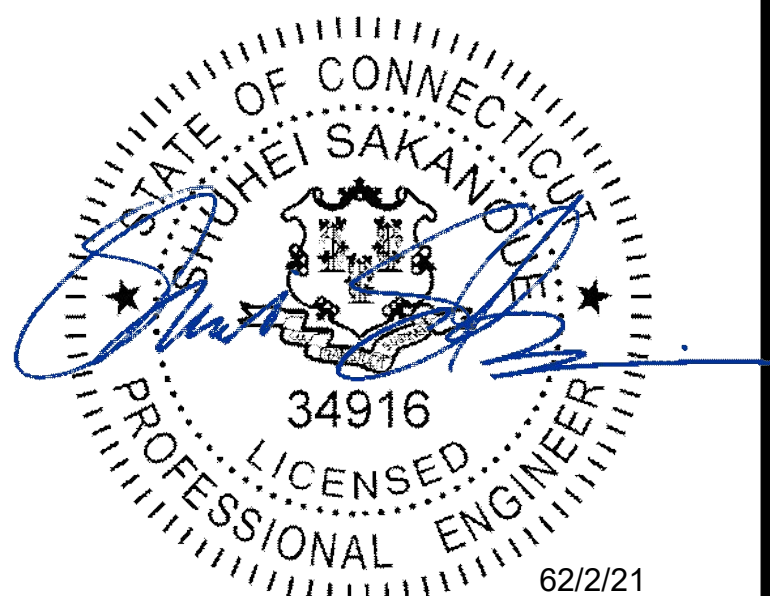


5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE



ISSUED FOR:				
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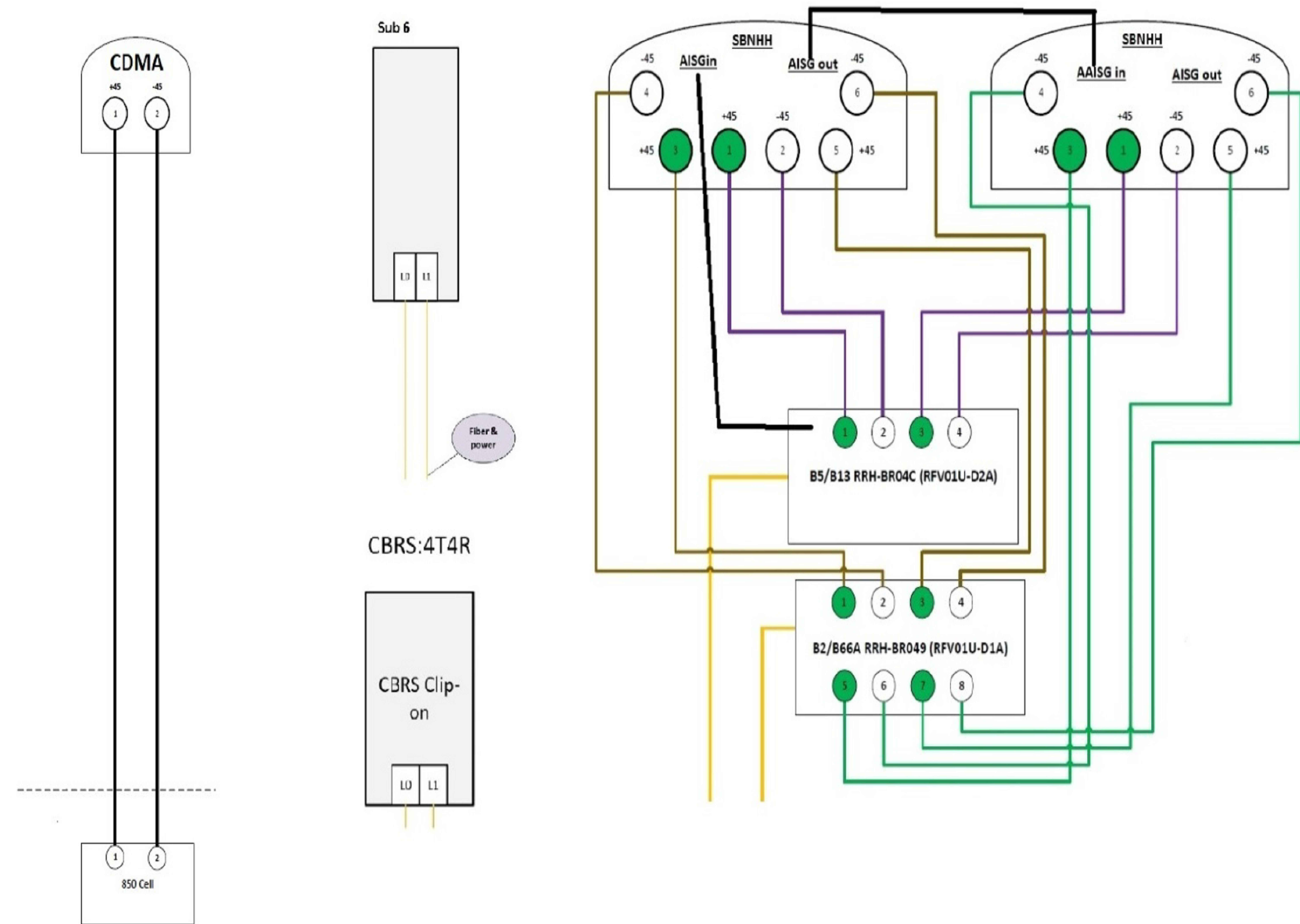
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1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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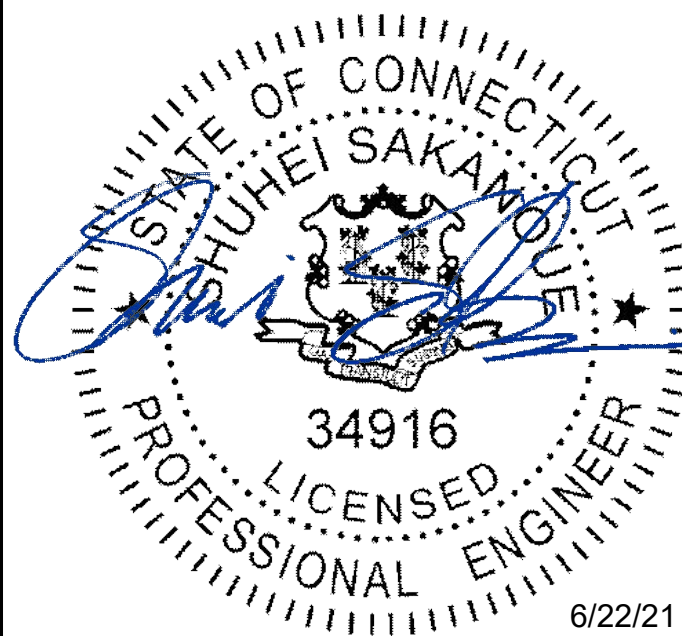
BU #: 806377
HRT 084 943242

197 South St.
VERNON, CT 06066

EXISTING 132'-1"
SELF-SUPPORT TOWER

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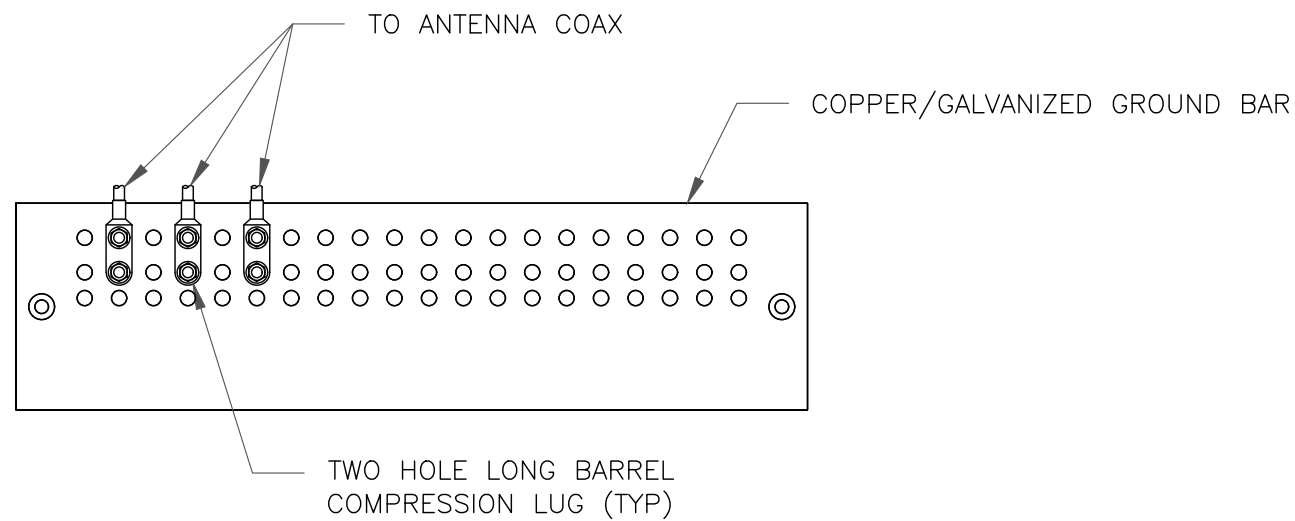
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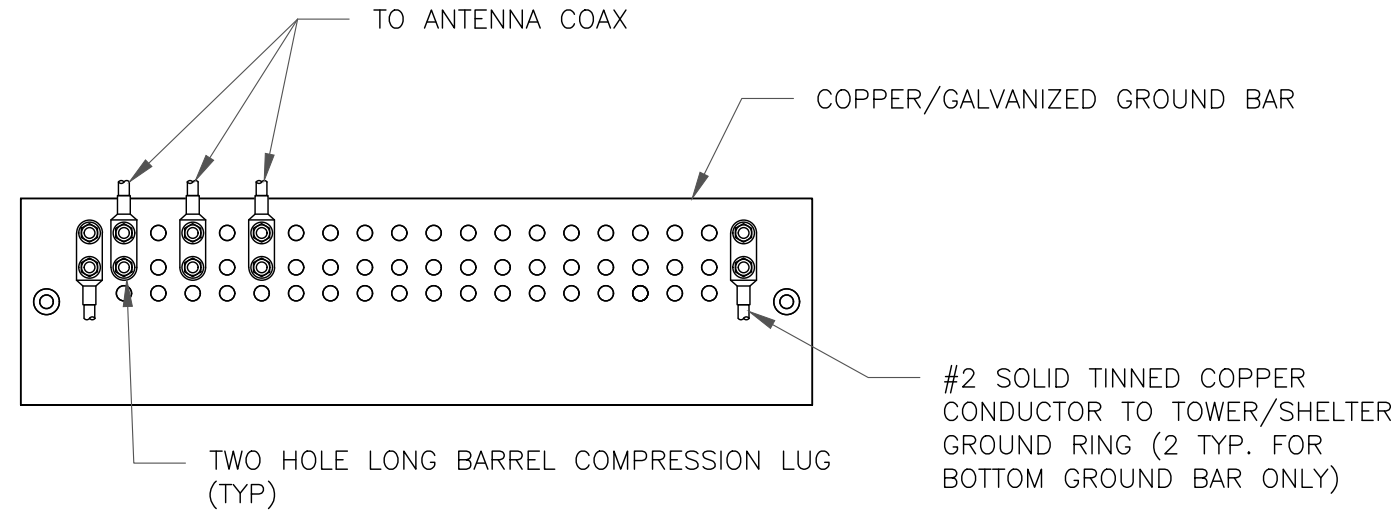
0



NOTES:

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

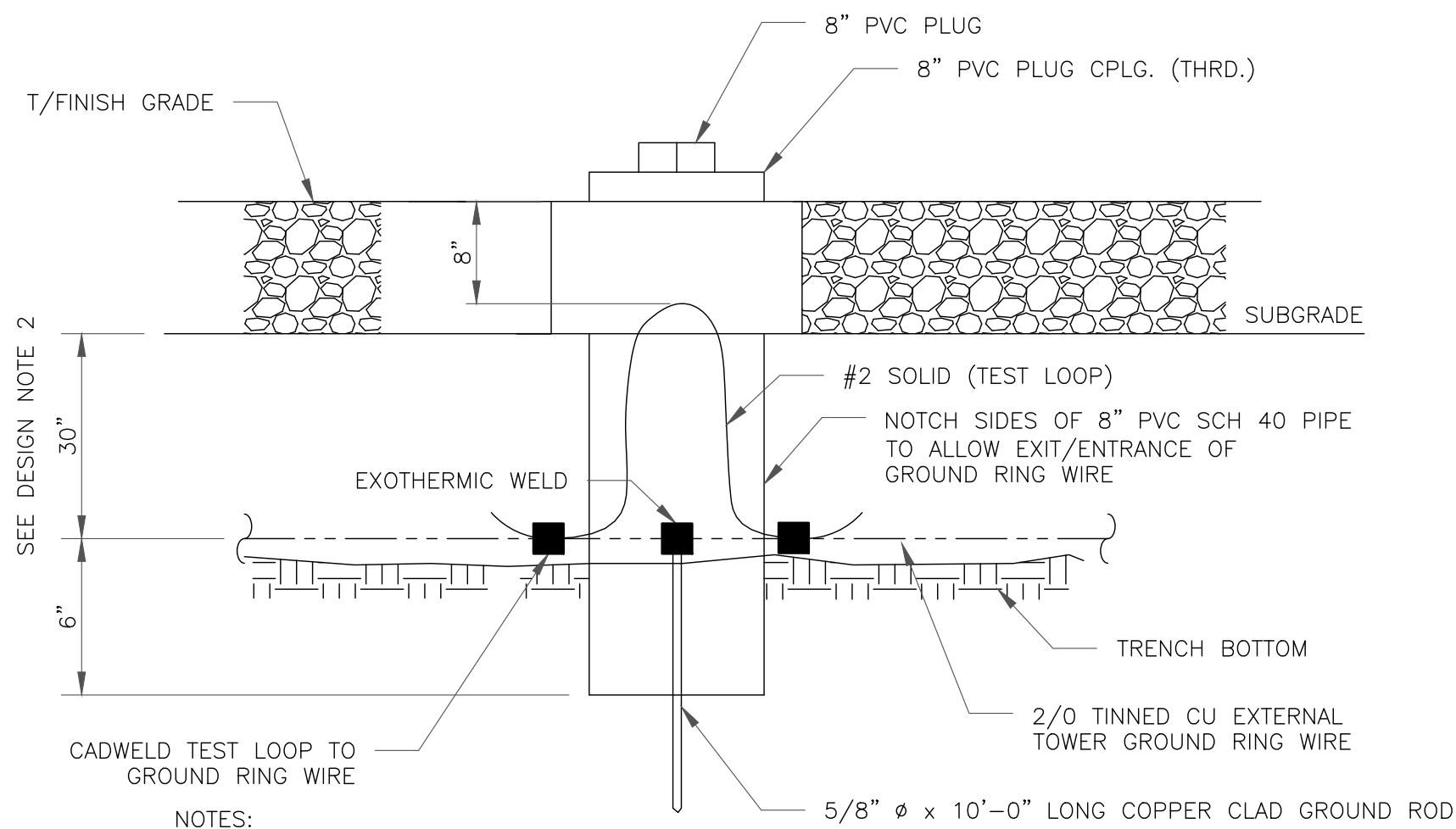
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

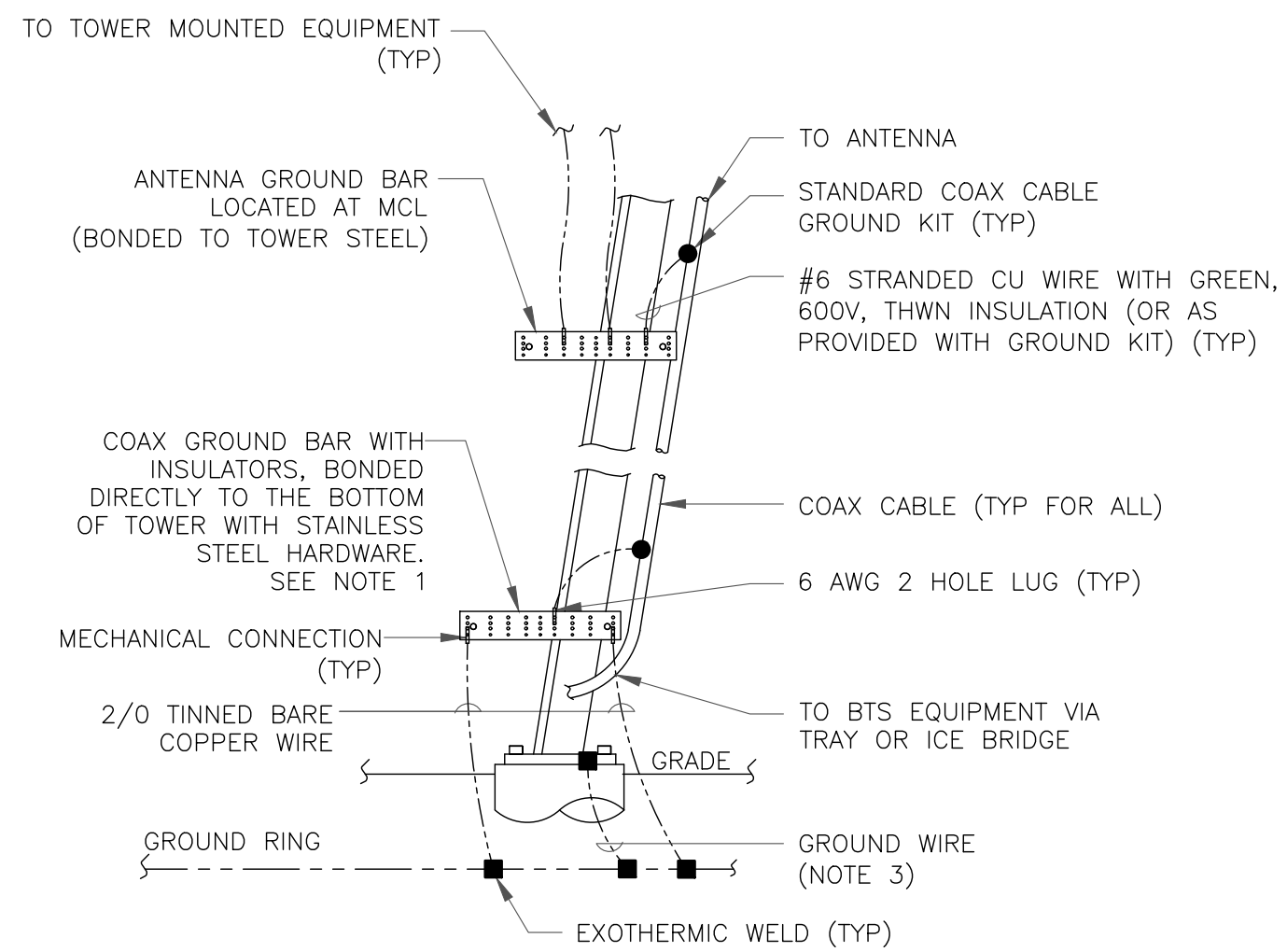
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

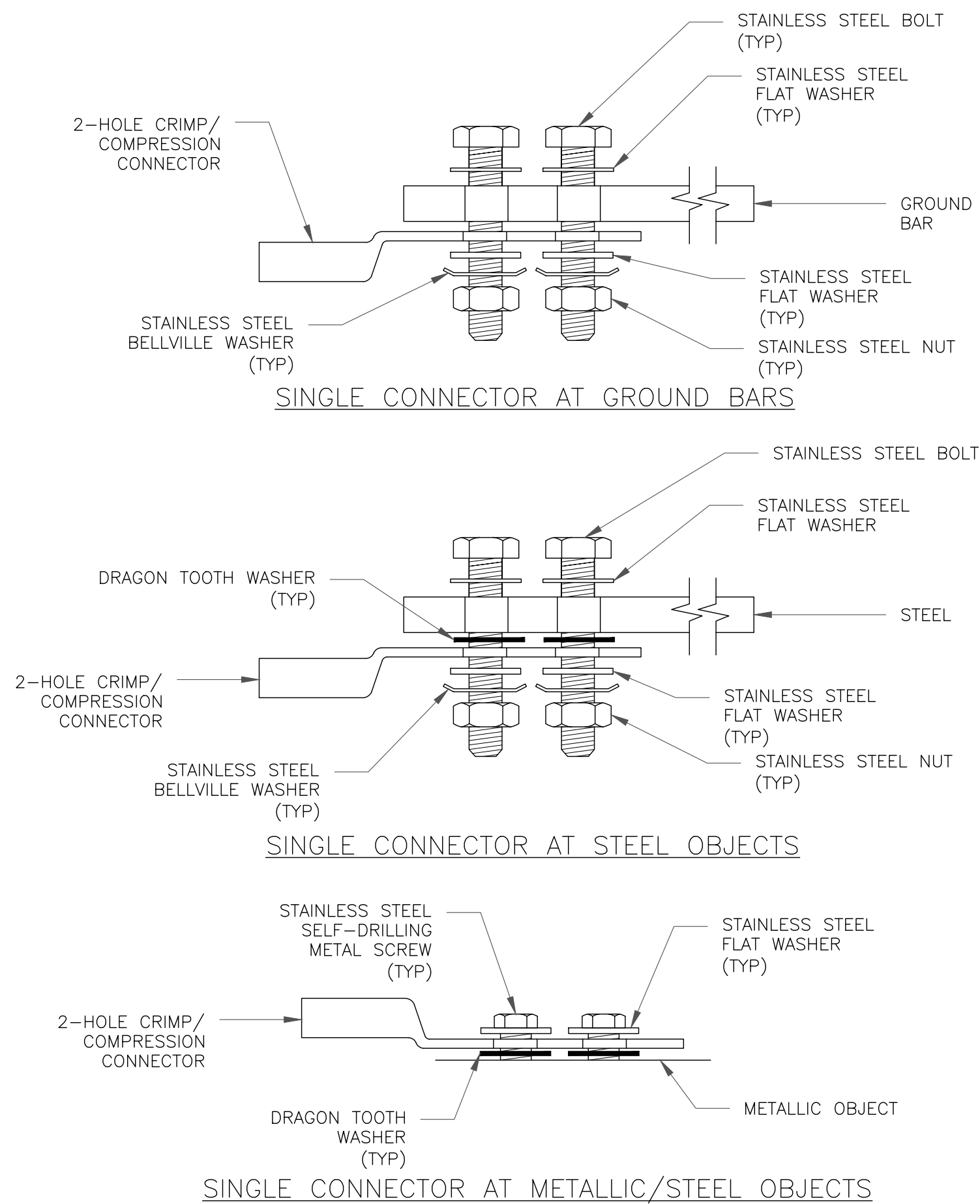
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



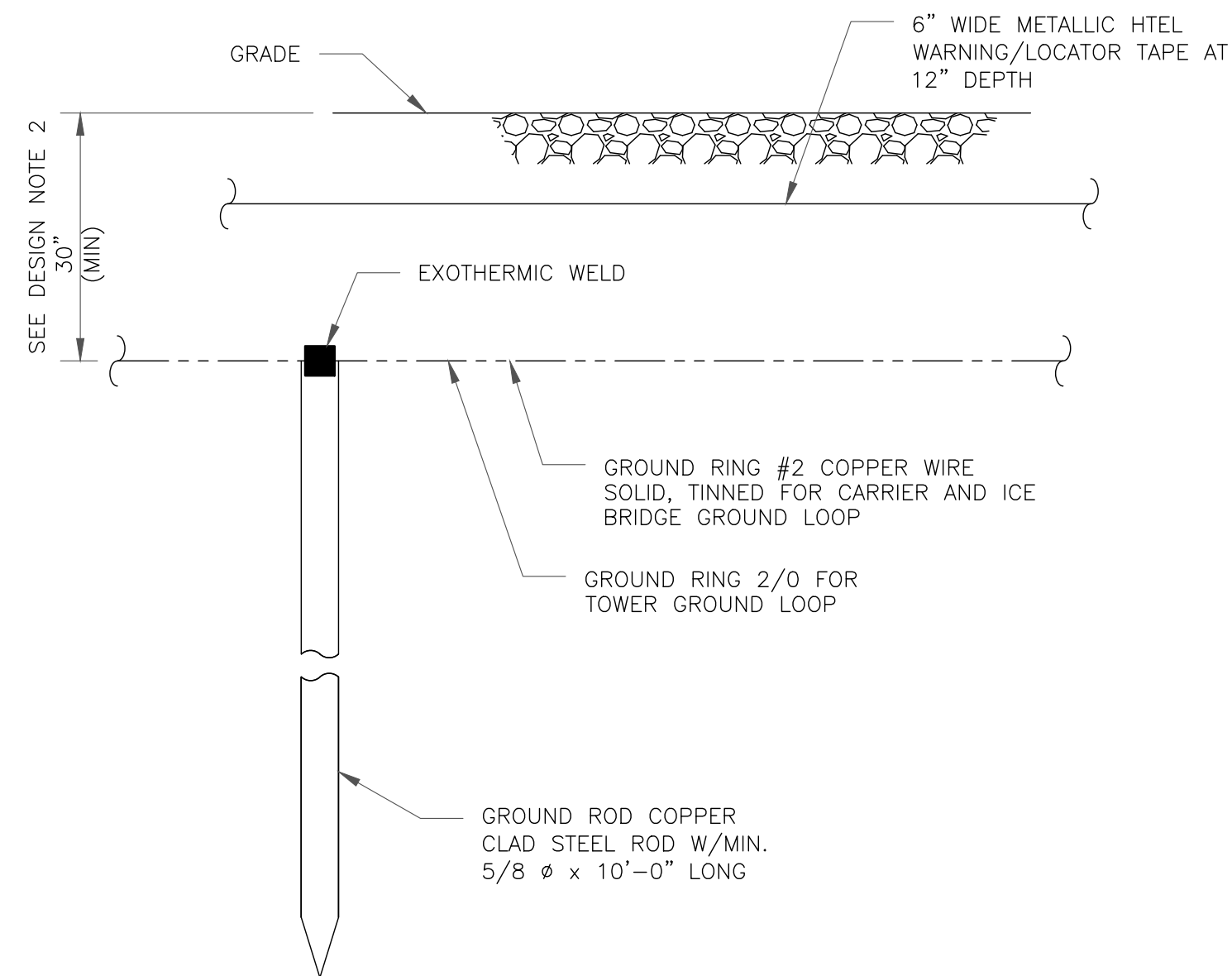
NOTES:

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

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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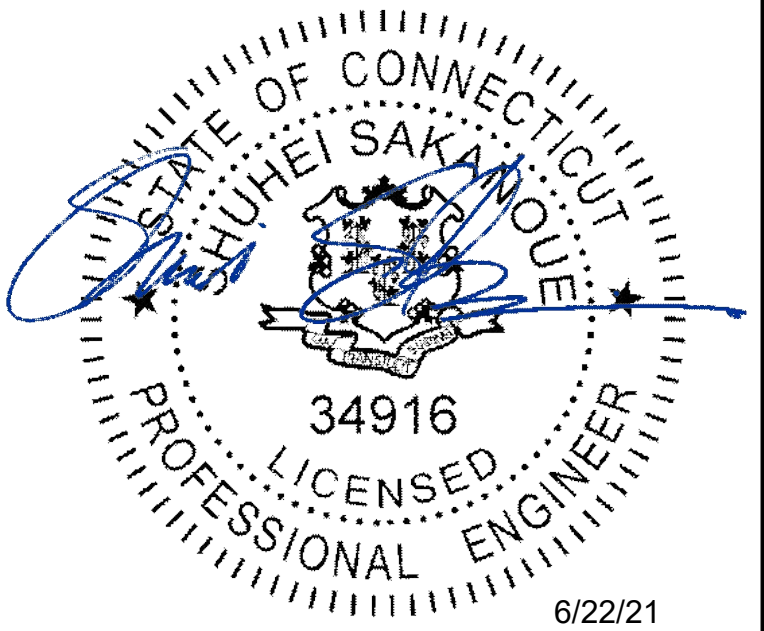
BU #: 806377
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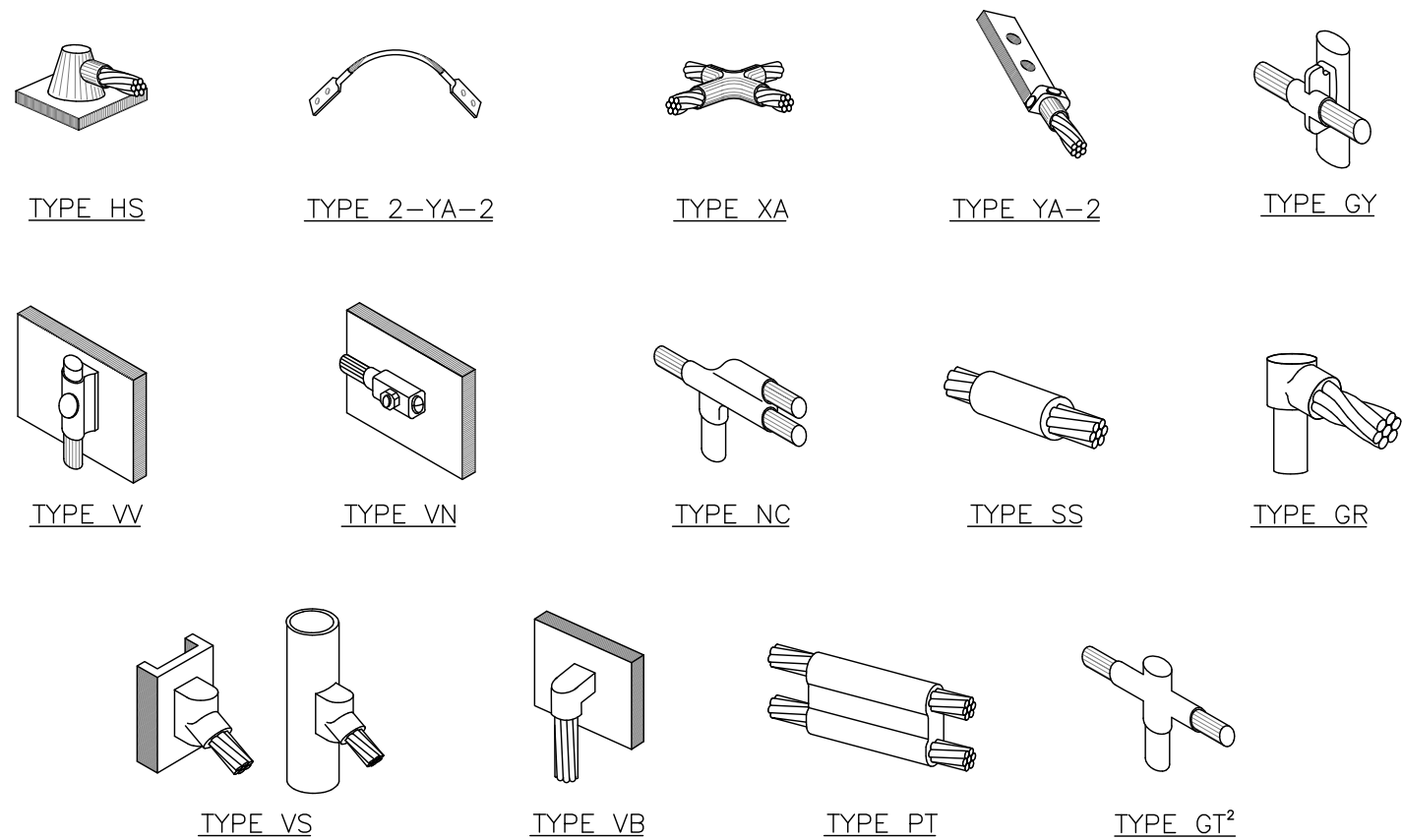
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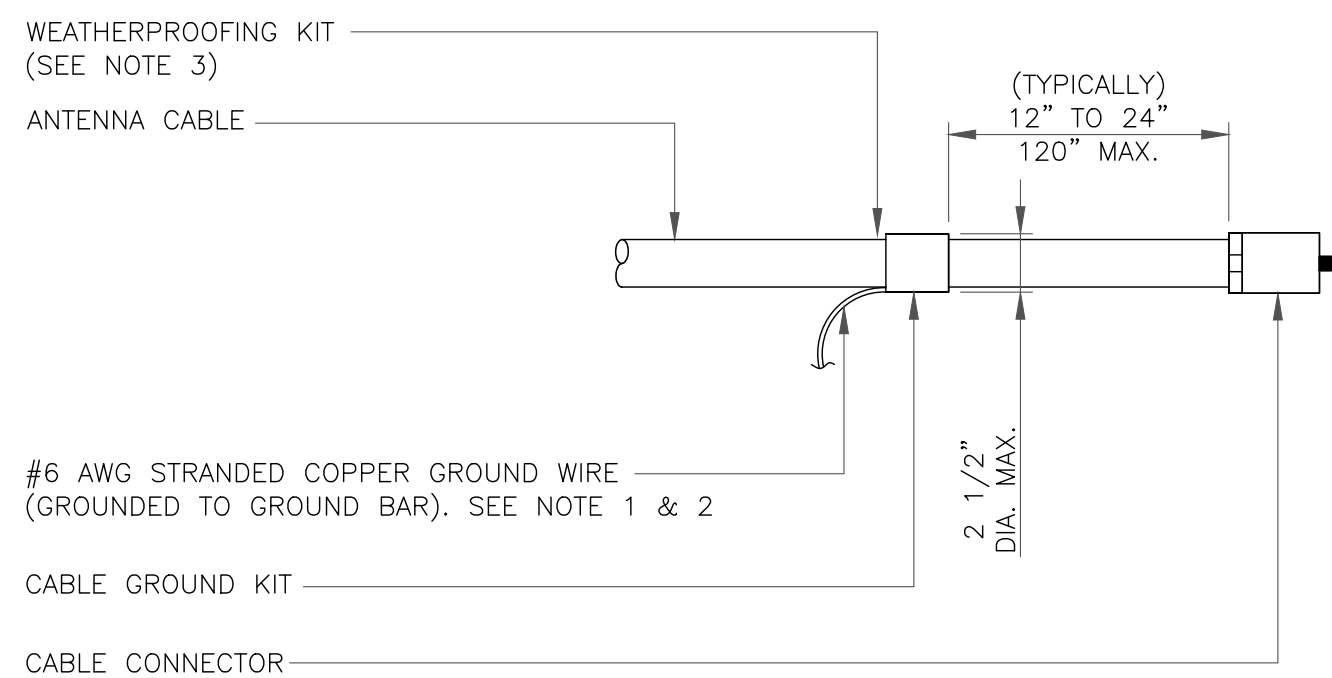
0



NOTE:

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

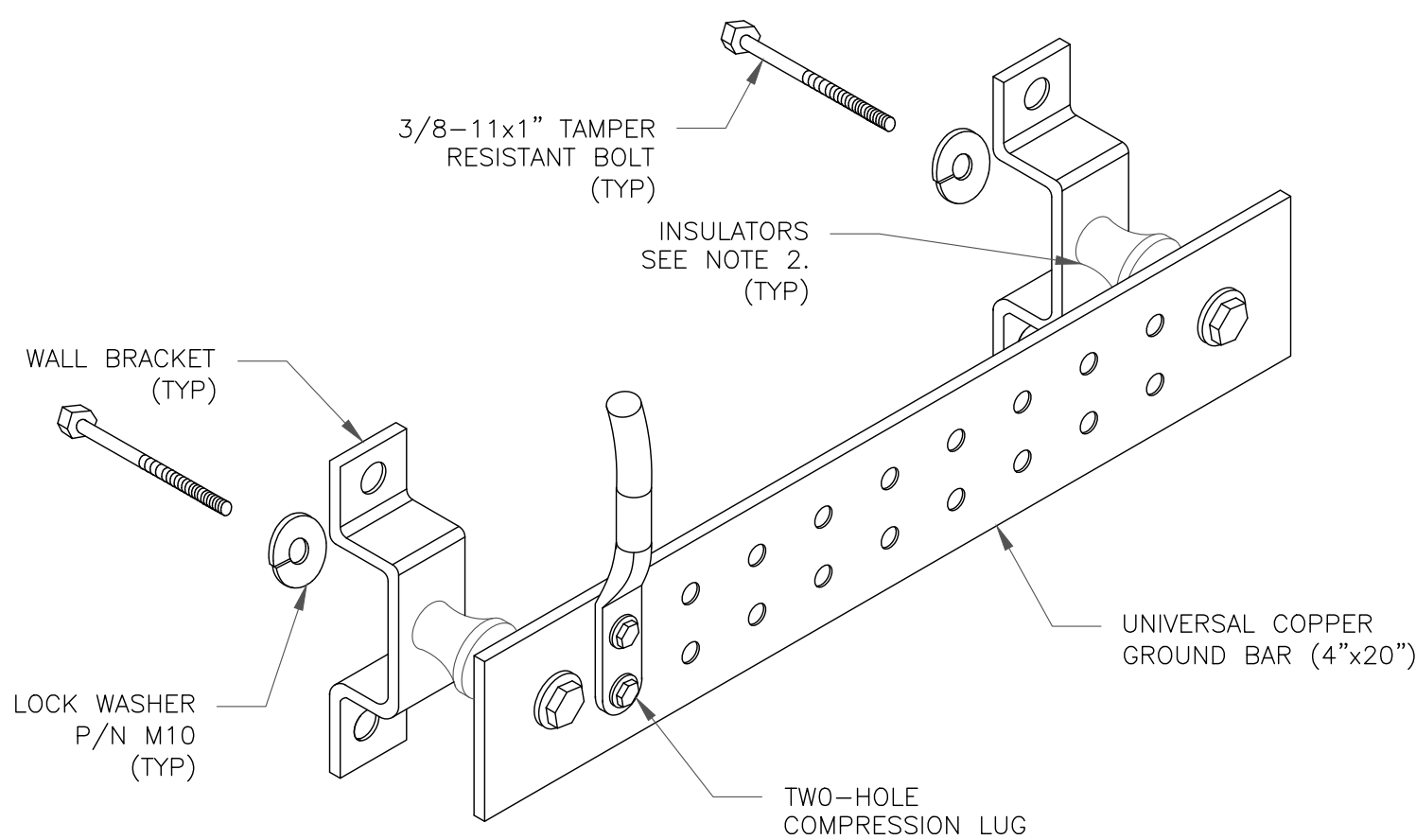
1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

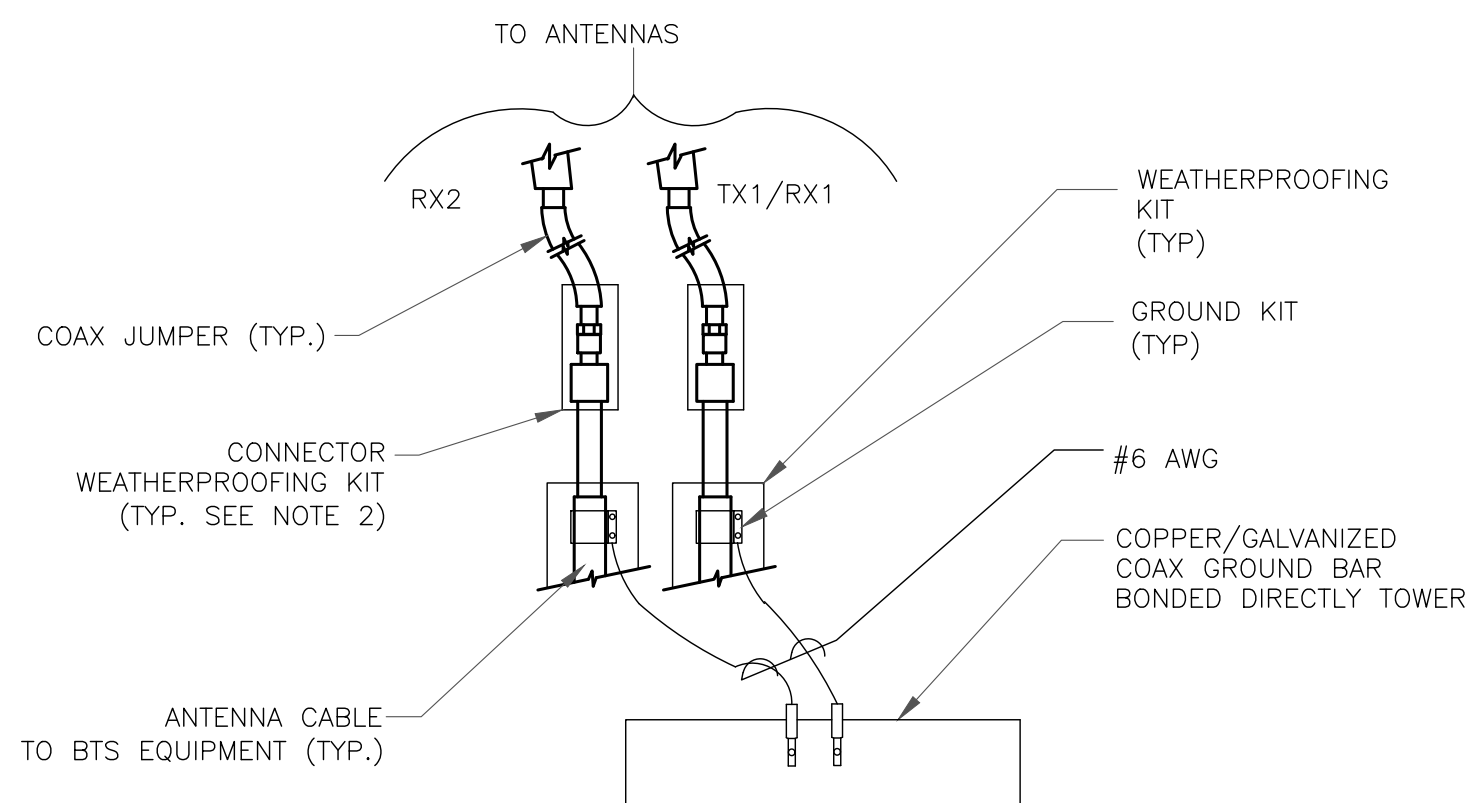
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



NOTES:

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

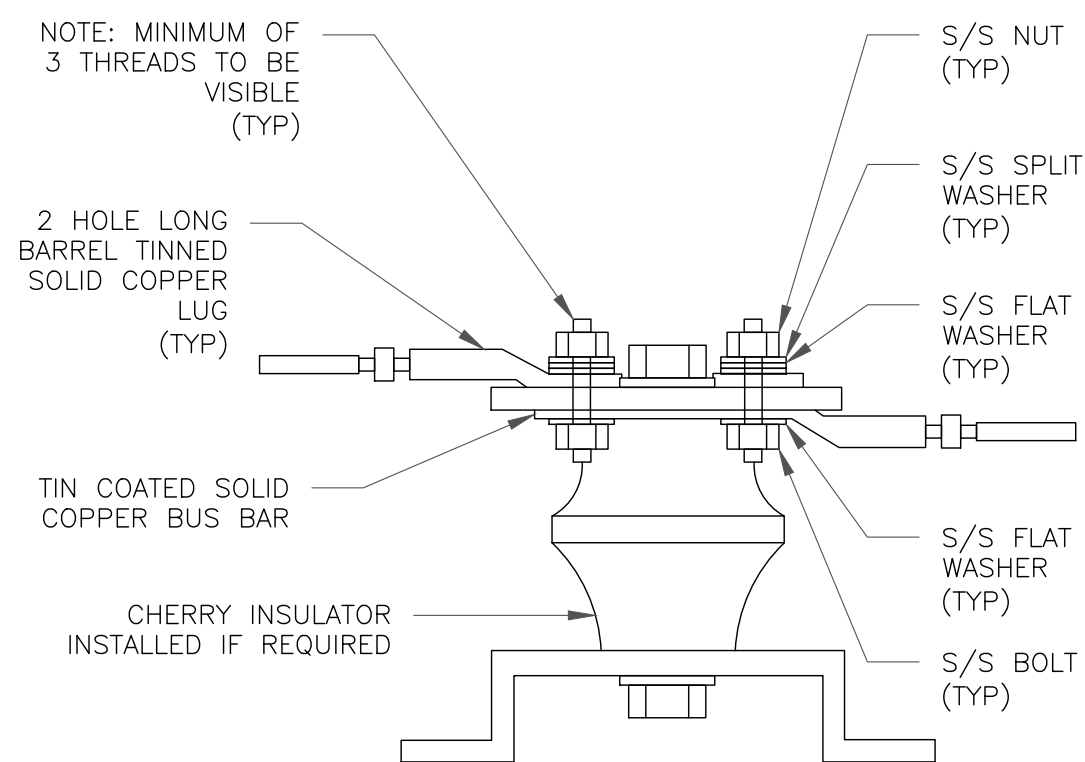
6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

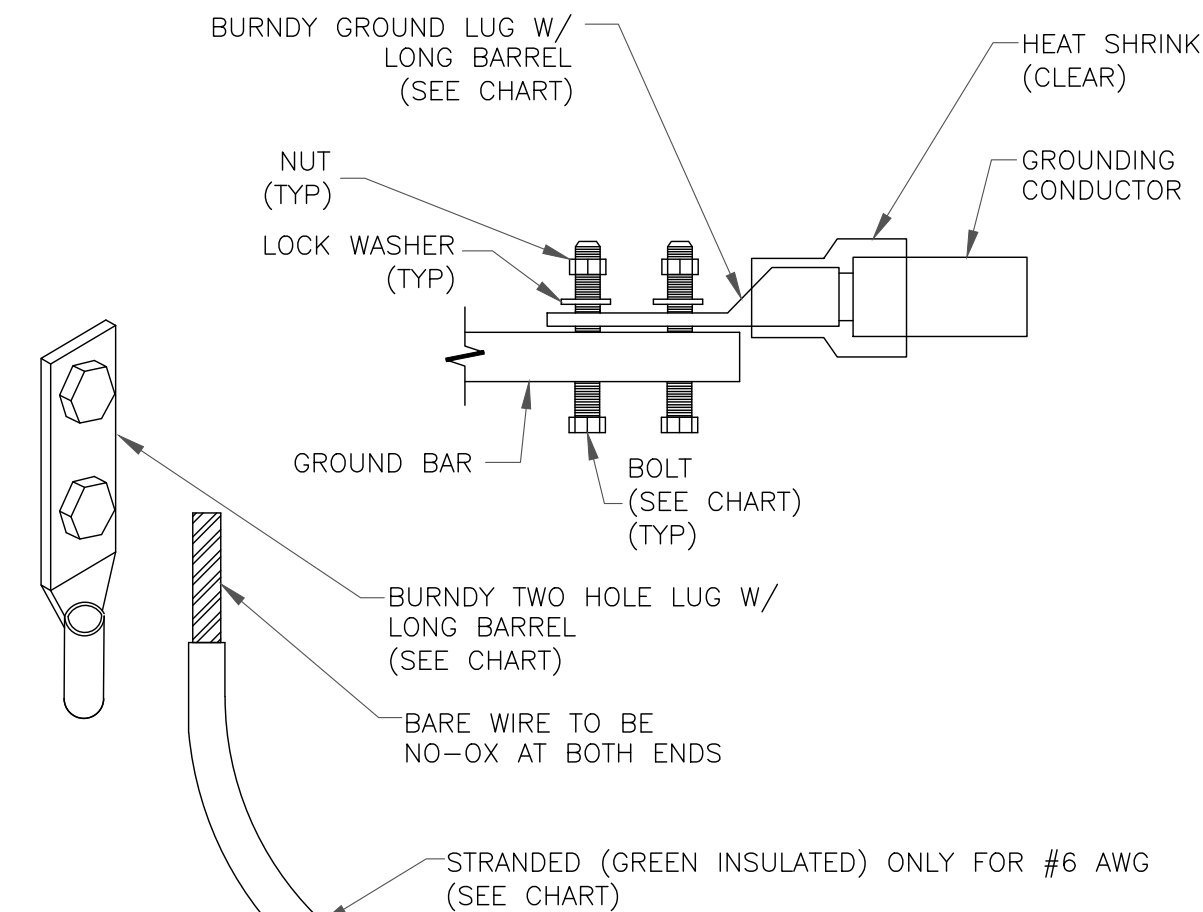
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

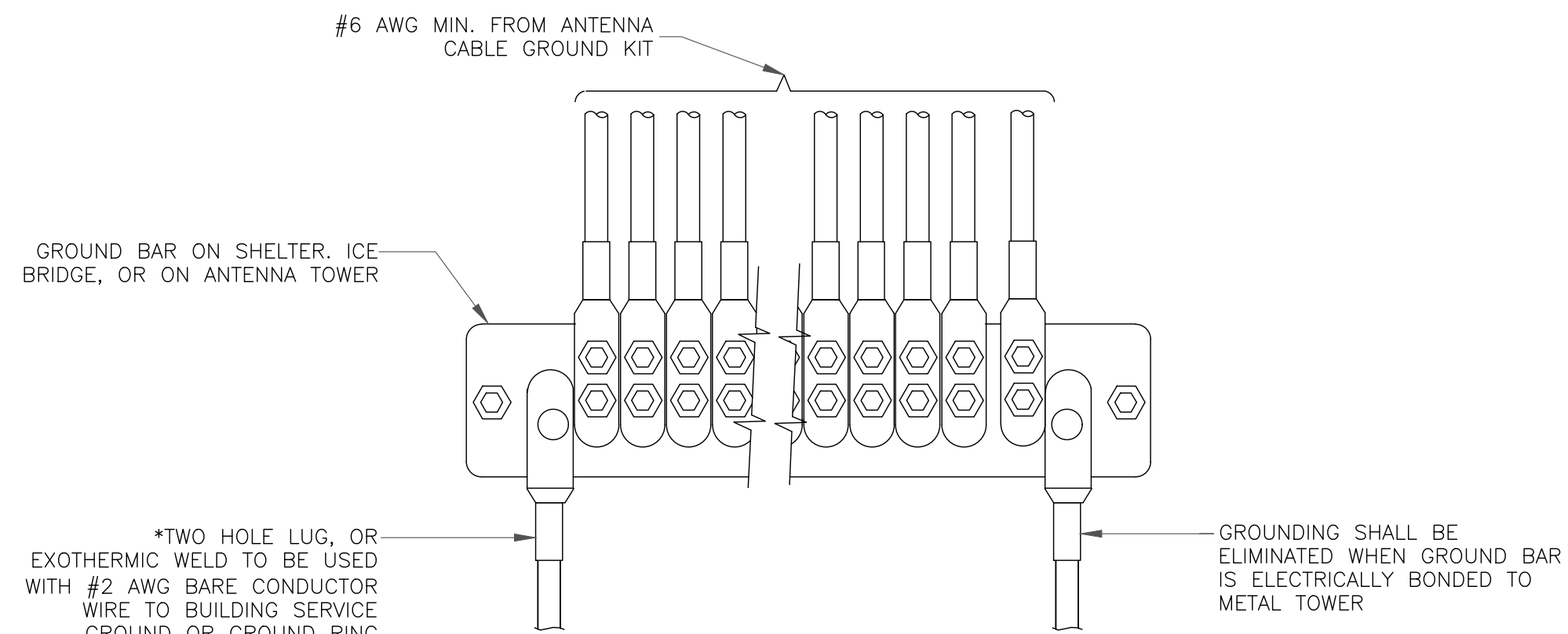
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



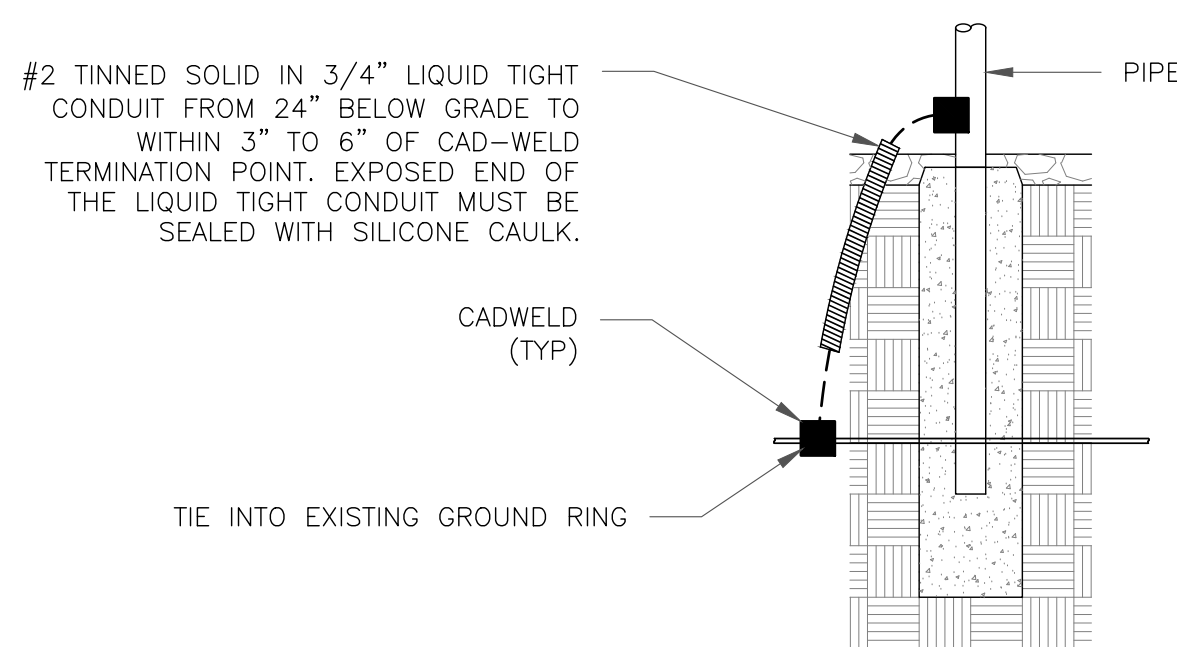
NOTES:

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

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

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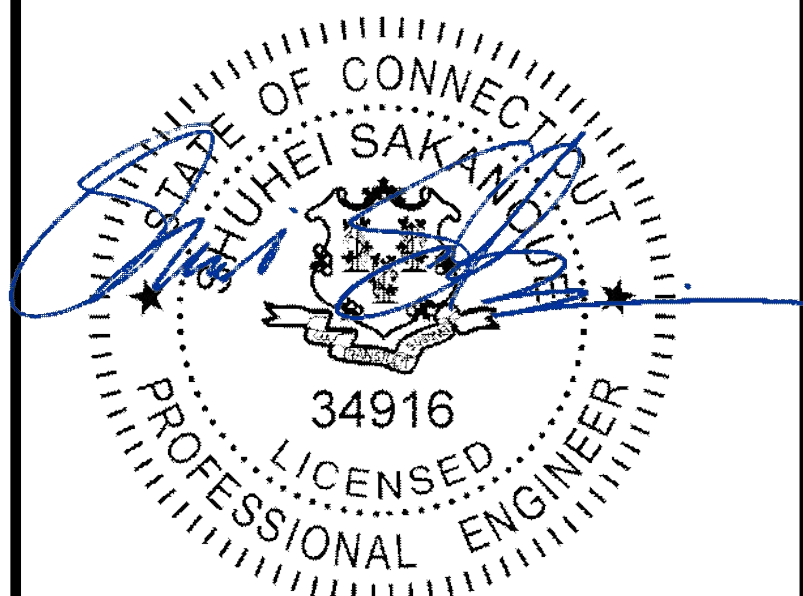
BU #: **806377**
HRT 084 943242

197 South St.
VERNON, CT 06066

EXISTING 132'-1"
SELF-SUPPORT TOWER

ISSUED FOR:

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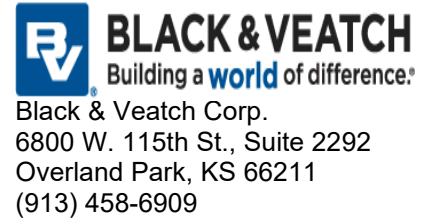
REVISION:

0

Exhibit D

Structural Analysis Report

Date: **May 28, 2021**



Subject: **Structural Analysis Report**

Carrier Designation: **Verizon Wireless Co-Locate**
Site Number: 469941
Site Name: VERNON CT

Crown Castle Designation: **BU Number:** 806377
Site Name: HRT 084 943242
JDE Job Number: 644609
Work Order Number: 1965628
Order Number: 552697 Rev. 3

Engineering Firm Designation: **Black & Veatch Corp. Project Number:** 406642

Site Data: **197 South St., VERNON, Tolland County, CT**
Latitude 41° 51' 12.51", Longitude -72° 27' 7.52"
133.167 Foot - Self Support Tower

Black & Veatch Corp. is pleased to submit this "**Structural Analysis Report**" to determine the structural integrity of the above-mentioned tower.

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

LC7: Proposed Equipment Configuration

Sufficient Capacity – 79.9%

This analysis utilizes an ultimate 3-second gust wind speed of 125 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: Zaheer Thaddi

Respectfully submitted by:

Ping Jiang, P.E.

Professional Engineer



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3.2) Assumptions

4) ANALYSIS RESULTS

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4.1) Recommendations

5) APPENDIX A

tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 133.167 ft Self Support tower designed by ROHN.

The tower has been modified multiple times in the past to accommodate additional loading.

The tower has been modified per reinforcement drawings prepared by L&W Engineering in October of 1995. Reinforcements consist of replacement of pipe legs from elevations 60.0' to 80.0' and tower diagonals from elevations 100.0' to 120.0'. These modifications have not been considered in this analysis.

The tower was later reinforced per reinforcement drawings prepared by SSOE Group in May of 2015. Reinforcement consists of installation of secondary horizontals from 0.0' to 10.0' and 80.0' to 86.7'. These modifications have been considered effective in this analysis. Refer to Post Modification Inspection Report by Engineered Tower Solutions, PLLC. in August of 2016.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	2 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)
117.0	119.0	3	samsung telecommunications	MT6407-77A w/ Mount Pipe	6 2	7/8 1 5/8
	117.0	2	andrew	LBX-6515DS-T0M w/ Mount Pipe		
		1	andrew	LNx-6514DS-T4M w/ Mount Pipe		
		6	andrew	SBNHH-1D65B		
		1	cci tower mounts (v2.1)	Sector Mount [SM 504-3]		
		3	commscope miscl	BSAMNT-SBS-2-2 Side By Side Bracket		
	115.0	2	rfs celwave	DB-T1-6Z-8AB-0Z		
		3	samsung telecommunications	CBRS w/ Mount Pipe		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
56.0	59.0	1	maxrad	GPS-TMG-20N	1	1/2
	56.0	1	cci tower mounts (v2.1)	Side Arm Mount [SO 311-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
130.0	136.0	1	telewave	ANT450D6-9	1	7/8
	130.0	1	cci tower mounts (v2.1)	T-Arm Mount [4' TA 702-3]		
		3	alcatel lucent	1900MHZ RRH (65MHZ)		
		3	alcatel lucent	800MHZ 2X50W RRH W/FILTER		
		3	alcatel lucent	TD-RRH8X20-25		
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
		1	telewave	ANT450D6-9		
104.0	106.0	2	cci antennas	DMP65R-BU6D w/ Mount Pipe	14 5 3	7/8 3/4 3/8
		1	cci antennas	DMP65R-BU8D w/ Mount Pipe		
		2	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe		
		1	cci antennas	HPA-65R-BUU-H8 w/ Mount Pipe		
		2	cci antennas	TPA65R-BU6D_CCIV2 w/ Mount Pipe		
		1	cci antennas	TPA65R-BU8D_CCIV2 w/ Mount Pipe		
		3	communication components inc.	DTMABP7819VG12A		
		3	ericsson	RRUS 32 B2		
		3	ericsson	RRUS 32 B30		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 4478 B14		
		3	ericsson	RRUS 8843 B2/B66A		
		3	kathrein	782-10250		
		3	kathrein	800 10121 w/ Mount Pipe		
		6	kathrein	860 10025		
		3	raycap	DC6-48-60-18-8F		
	104.0	1	cci tower mounts (v2.1)	Sector Mount [SM 503-3]		
94.0	94.0	3	fujitsu	TA08025-B604	1	1 1/2
		3	fujitsu	TA08025-B605		
		3	jma wireless	MX08FRO665-21 w/ Mount Pipe		
		1	raycap	RDIDC-9181-PF-48		
		3	commscope	MTC3975083		
84.0	84.0	3	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe	10 2 1	7/8 1 3/8 1 5/8
		3	ericsson	ERICSSON AIR 21 B2A B4P w/ Mount Pipe		
		3	ericsson	KRY 112 144/1		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	ericsson	RADIO 4449 B12/B71		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	tower mounts	Site Pro 1 VFA12-SD-S 12' V-Frame		
63.0	63.0	1	rfs celwave	SB1-190BB	1	1/2
		1	cci tower mounts (v2.1)	Side Arm Mount [SO 311-1]		
		1	siae microelettronica	ALFOPLUS2_CCIV3		
	61.0	1	redline communications	RDL-3000		
46.0	47.0	1	lucent	KS24019-L112A	1	1/2

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	FDH Engineering, Inc.	1014866	CCISITES
4-POST-MODIFICATION INSPECTION	Engineered Tower Solutions, Plc.	5849707	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	FDH Engineering, Inc.	1014812	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Rohn Industries, Inc.	529704	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	L&W Engineering	2240842	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	SSOE Group.	5678760	CCISITES
4-EXPOSURE CATEGORY/TOPOGRAPHIC FACTOR	Crown Castle	5966024	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.9.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

- 1) 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. Black & Veatch Corp. should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	133.167 - 121.042	Leg	ROHN 2 STD	3	-3.91	38.68	10.1	Pass
T2	121.042 - 100.917	Leg	ROHN 2.5 STD	27	-22.11	59.99	36.9	Pass
T3	100.917 - 94.1042	Leg	ROHN 3 STD	57	-29.56	74.44	39.7	Pass
T4	94.1042 - 87.4375	Leg	ROHN 3 STD	65	-39.44	74.41	53.0	Pass
T5	87.4375 - 80.7708	Leg	ROHN 3 STD	74	-49.81	96.10	51.8	Pass
T6	80.7708 - 60.6042	Leg	ROHN 3 X-STR	86	-79.17	99.06	79.9	Pass
T7	60.6042 - 40.4167	Leg	ROHN 4 X-STR	107	-106.98	167.91	63.7	Pass
T8	40.4167 - 20.2083	Leg	ROHN 5 X-STR	128	-131.04	211.32	62.0	Pass
T9	20.2083 - 10.1042	Leg	ROHN 5 X-STR	143	-143.94	211.32	68.1	Pass
T10	10.1042 - 0	Leg	ROHN 5 X-STR	152	-155.40	265.96	58.4	Pass
T1	133.167 - 121.042	Diagonal	L1 3/4x1 3/4x3/16	9	-0.91	11.51	7.9	Pass
T2	121.042 - 100.917	Diagonal	L1 3/4x1 3/4x3/16	33	-3.34	6.66	50.1	Pass
T3	100.917 - 94.1042	Diagonal	L2 1/2x2 1/2x3/16	60	-4.48	15.17	29.5	Pass
T4	94.1042 - 87.4375	Diagonal	L2 1/2x2 1/2x3/16	69	-4.57	13.54	33.7	Pass
T5	87.4375 - 80.7708	Diagonal	L2 1/2x2 1/2x3/16	78	-5.87	12.58	46.6	Pass
T6	80.7708 - 60.6042	Diagonal	L2 1/2x2 1/2x3/16	91	-5.90	9.54	61.9	Pass
T7	60.6042 - 40.4167	Diagonal	L3x3x3/16	112	-6.40	13.27	48.3	Pass
T8	40.4167 - 20.2083	Diagonal	L3x3x1/4	133	-7.34	11.80	62.2	Pass
T9	20.2083 - 10.1042	Diagonal	L3 1/2x3 1/2x1/4	148	-7.49	17.40	43.0	Pass
T10	10.1042 - 0	Diagonal	L3 1/2x3 1/2x1/4	157	-8.03	16.03	50.1	Pass
T5	87.4375 - 80.7708	Secondary Horizontal	L1 1/2x1 1/2x3/16	82	-0.86	2.37	36.4	Pass
T10	10.1042 - 0	Secondary Horizontal	L2 1/2x2 1/2x3/16	161	-2.82	3.71	76.0	Pass
T1	133.167 - 121.042	Top Girt	L1 3/4x1 3/4x1/8	4	-0.12	2.78	4.4	Pass
T2	121.042 - 100.917	Top Girt	L2x2x1/8	29	-0.38	4.18	9.2	Pass
							Summary	
						Leg (T6)	79.9	Pass
						Diagonal (T8)	62.2	Pass
						Secondary Horizontal (T10)	76.0	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
						Top Girt (T2)	9.2	Pass
						Bolt Checks	78.1	Pass
						Rating =	79.9	Pass

Table 5 - Tower Component Stresses vs. Capacity

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	57.8	Pass
1	Base Foundation (Structure)	0	7.9	Pass
1	Base Foundation (Soil Interaction)	0	63.9	Pass

Structure Rating (max from all components) =	79.9%
---	--------------

Notes:

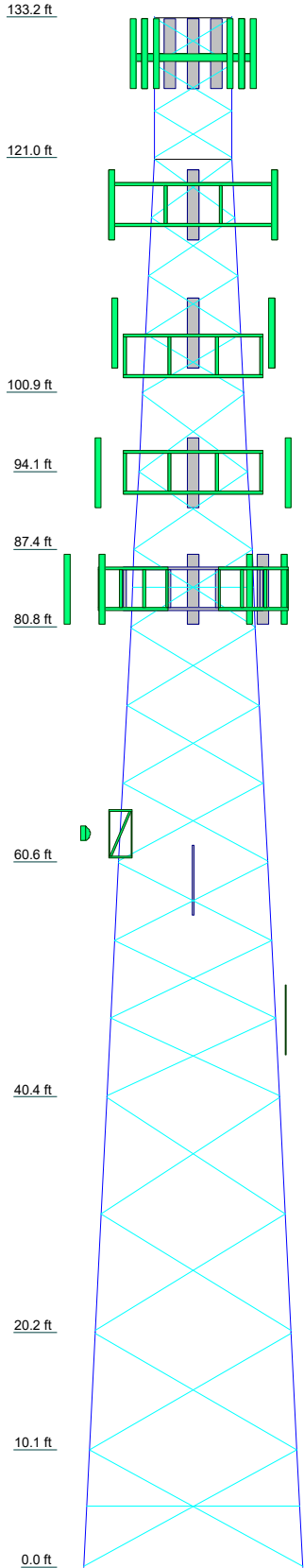
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity. Rating per TIA-222-H Section 15.5.

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

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	
Legs	ROHN 2 STD	ROHN 2.5 STD	ROHN 3 STD	ROHN 3 STD	ROHN 3 X-STR	ROHN 4 X-STR	ROHN 5 X-STR				
Leg Grade	L1 3/4x1 3/4x3/16										
Diagonals	L2 1/2x2 1/2x3/16										
Diagonal Grade	A36										
Top Girts	L2x2x1/8										
Sec. Horizontals	N.A.										
Face Width (ft)	6.60417	6.64593	8.6875	9.35417	10.1208	10.6875	12.7604	14.7708	16.7708	17.7708	18.7708
# Panels @ (ft)	3 @ 4	4 @ 5	0.4	0.4	0.5	1.4	2.0	2.5	1.4	1.6	11.5
Weight (K)	0.5	0.9	0.4	0.4	0.5	1.4	2.0	2.5	1.4	1.6	11.5



SYMBOL LIST			
MARK	SIZE	MARK	SIZE
A	L1 1/2x1 1/2x3/16		

MATERIAL STRENGTH					
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

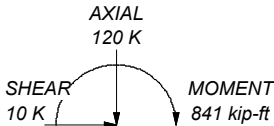
1. Tower is located in Tolland County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 2.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 79.9%

ALL REACTIONS
ARE FACTORED

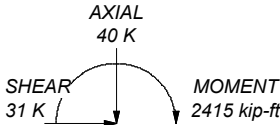
MAX. CORNER REACTIONS AT BASE:

DOWN: 162 K
SHEAR: 19 K

UPLIFT: -132 K
SHEAR: 16 K



TORQUE 13 kip-ft
50 mph WIND - 2.00 in ICE



TORQUE 31 kip-ft
REACTIONS - 125 mph WIND

Black & Veatch Corp.			
6800 W. 115th St., Suite 2292			
Overland Park, KS 66211			
Phone: (913) 458-6909			
FAX: (913) 458-6909			
Job:	HRT 084 943242 (BU# 806377)		
Project:	406642 (806377.1965628)		
Client:	Crown Castle	Drawn by:	Zaheer Thaddi
Code:	TIA-222-H	Date:	05/28/21
Path:			
		App'd:	
		Scale:	NTS
		Dwg No.	E-1

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 133.17 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 6.60 ft at the top and 18.77 ft at the base.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

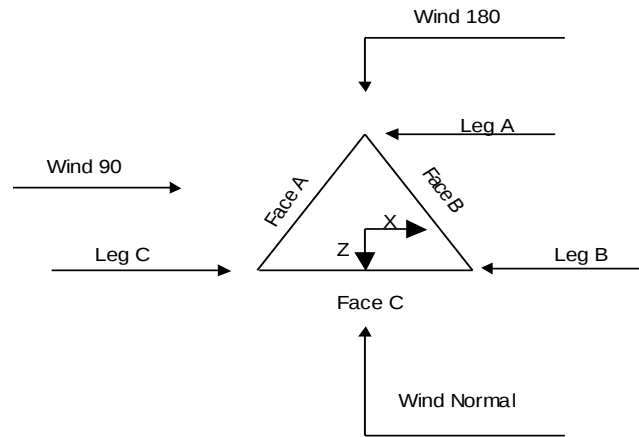
- Tower is located in Tolland County, Connecticut.
- Tower base elevation above sea level: 655.00 ft.
- Basic wind speed of 125 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 2.00 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	✓ Calculate Redundant Bracing Forces
Consider Moments - Diagonals	✓ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Use Moment Magnification	✓ Use Clear Spans For Wind Area	✓ SR Leg Bolts Resist Compression
✓ Use Code Stress Ratios	✓ Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
✓ Use Code Safety Factors - Guys	Retension Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	✓ Bypass Mast Stability Checks	✓ Consider Feed Line Torque
Always Use Max Kz	✓ Use Azimuth Dish Coefficients	✓ Include Angle Block Shear Check
Use Special Wind Profile	✓ Project Wind Area of Appurt.	Use TIA-222-H Bracing Resist.
Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Exemption
Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Use TIA-222-H Tension Splice
✓ Secondary Horizontal Braces Leg	✓ Sort Capacity Reports By Component	Exemption
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	

Poles

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



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	133.17-121.04			6.60	1	12.13
T2	121.04-100.92			6.65	1	20.13
T3	100.92-94.10			8.69	1	6.81
T4	94.10-87.44			9.35	1	6.67
T5	87.44-80.77			10.12	1	6.67
T6	80.77-60.60			10.69	1	20.17
T7	60.60-40.42			12.76	1	20.19
T8	40.42-20.21			14.77	1	20.21
T9	20.21-10.10			16.77	1	10.10
T10	10.10-0.00			17.77	1	10.10

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	133.17-121.04	4.00	X Brace	No	No	1.50	0.00
T2	121.04-100.92	5.00	X Brace	No	No	1.50	0.00
T3	100.92-94.10	6.67	X Brace	No	No	1.75	0.00
T4	94.10-87.44	6.67	X Brace	No	No	0.00	0.00
T5	87.44-80.77	6.67	X Brace	No	Yes	0.00	0.00
T6	80.77-60.60	6.67	X Brace	No	No	1.00	1.00
T7	60.60-40.42	6.67	X Brace	No	No	1.13	1.13
T8	40.42-20.21	10.00	X Brace	No	No	1.25	1.25
T9	20.21-10.10	10.00	X Brace	No	No	1.25	0.00
T10	10.10-0.00	10.00	X Brace	No	Yes	0.00	1.25

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 133.17-121.04	Pipe	ROHN 2 STD	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)
T2 121.04-100.92	Pipe	ROHN 2.5 STD	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)
T3 100.92-94.10	Pipe	ROHN 3 STD	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T4 94.10-87.44	Pipe	ROHN 3 STD	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T5 87.44-80.77	Pipe	ROHN 3 STD	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T6 80.77-60.60	Pipe	ROHN 3 X-STR	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T7 60.60-40.42	Pipe	ROHN 4 X-STR	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T8 40.42-20.21	Pipe	ROHN 5 X-STR	A572-50 (50 ksi)	Equal Angle	L3x3x1/4	A572-50 (50 ksi)
T9 20.21-10.10	Pipe	ROHN 5 X-STR	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A572-50 (50 ksi)
T10 10.10-0.00	Pipe	ROHN 5 X-STR	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A572-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 133.17-121.04	Equal Angle	L1 3/4x1 3/4x1/8	A36 (36 ksi)	Flat Bar		A36 (36 ksi)
T2 121.04-100.92	Equal Angle	L2x2x1/8	A36 (36 ksi)	Flat Bar		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T1 133.17-121.04	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T2 121.04-100.92	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T3 100.92-94.10	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T4 94.10-87.44	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T5 87.44-80.77	Equal Angle	L1 1/2x1 1/2x3/16	A36 (36 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T6 80.77-60.60	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T7 60.60-40.42	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T8 40.42-20.21	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T9 20.21-10.10	Solid Round		A572-50 (50 ksi)	Solid Round	9/16	A572-50 (50 ksi)
T10 10.10-0.00	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)	Solid Round	9/16	A572-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_r	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
T1 133.17-121.04	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00
T2 121.04-100.92	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00
T3 100.92-94.10	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00
T4 94.10-87.44	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00
T5 87.44-80.77	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00
T6 80.77-60.60	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00
T7 60.60-40.42	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00
T8 40.42-20.21	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00
T9 20.21-10.10	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00
T10 10.10-0.00	0.00	0.00	A36 (36 ksi)	1.05	1	1.05	0.00	0.00	0.00

Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	K Factors ¹							
			Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace
				X Y	X Y	X Y	X Y	X Y	X Y	X Y
T1 133.17-121.04	Yes	Yes	1	1	1	1	1	1	1	1
T2 121.04-100.92	Yes	Yes	1	1	1	1	1	1	1	1
T3 100.92-94.10	Yes	Yes	1	1	1	1	1	1	1	1
T4 94.10-87.44	Yes	Yes	1	1	1	1	1	1	1	1
T5 87.44-80.77	Yes	Yes	1	1	1	1	1	1	1	1
T6 80.77-60.60	Yes	Yes	1	1	1	1	1	0.5	1	1
T7 60.60-40.42	Yes	Yes	1	1	1	1	1	1	1	1
T8 40.42-20.21	Yes	Yes	1	1	1	1	1	1	1	1
T9 20.21-10.10	Yes	Yes	1	1	1	1	1	1	1	1
T10 10.10-0.00	Yes	Yes	1	1	1	1	1	1	1	1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 133.17-121.04	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T2 121.04-100.92	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T3 100.92-94.10	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T4 94.10-87.44	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T5 87.44-80.77	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T6 80.77-60.60	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T7 60.60-40.42	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T8 40.42-20.21	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T9 20.21-10.10	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T10 10.10-0.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 133.17-121.04	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T2 121.04-100.92	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T3 100.92-94.10	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T4 94.10-87.44	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T5 87.44-80.77	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T6 80.77-60.60	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T7 60.60-40.42	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T8 40.42-20.21	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T9 20.21-10.10	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T10 10.10-0.00	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 133.17-121.04	Flange	0.63 A325N	4	0.63 A325N	1	0.63 A325N	1	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T2 121.04- 100.92	Flange	0.75 A325N	4	0.63 A325N	1	0.63 A325N	1	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0
T3 100.92- 94.10	Flange	0.00 A325N	0	0.63 A325N	1	0.50 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0
T4 94.10- 87.44	Flange	0.00 A325N	0	0.63 A325N	1	0.50 A325N	0	0.00 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0
T5 87.44- 80.77	Flange	0.88 A325N	4	0.63 A325N	1	0.63 A325N	0	0.00 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	1
T6 80.77- 60.60	Flange	0.88 A325N	4	0.63 A325N	1	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0
T7 60.60- 40.42	Flange	1.00 A325N	4	0.63 A325N	1	0.50 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0
T8 40.42- 20.21	Flange	1.00 A325N	4	0.63 A325N	1	0.50 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0
T9 20.21- 10.10	Flange	0.00 A325N	0	0.63 A325N	1	0.50 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	0
T10 10.10- 0.00	Flange	1.00 A449	0	0.75 A325N	1	0.63 A325N	0	0.00 A325N	0	0.63 A325N	0	0.63 A325N	0	0.63 A325N	1

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacin g in	Width or Diameter in	Perimeter in	Weight klf
Safety Line 3/8 ***	B	No	No	Ar (CaAa)	98.00 - 0.00	0.00	-0.5	1	1	0.38	0.38		0.00
Feedline Ladder (Af)	B	No	No	Af (CaAa)	130.00 - 10.00	0.00	-0.42	1	1	3.00	3.00		0.01
HB078-1- 08U3- M3J(7/8)	B	No	No	Ar (CaAa)	130.00 - 10.00	0.00	-0.44	2	2	0.50	1.09		0.00
LCF12- 50J(1/2) ***	B	No	No	Ar (CaAa)	63.00 - 10.00	0.00	-0.425	1	1	0.50	0.64		0.00
Feedline Ladder (Af)	B	No	No	Af (CaAa)	130.00 - 5.00	0.00	0.409	1	1	3.00	3.00		0.01
HB058-1- 08U1- S2F(5/8)	B	No	No	Ar (CaAa)	130.00 - 5.00	0.00	0.39	1	1	0.50	0.84		0.00
HB114-1- 08U4-M5J(1- 1/4)	B	No	No	Ar (CaAa)	130.00 - 5.00	0.00	0.409	3	3	0.50	1.54		0.00
LDF4- 50A(1/2) ***	B	No	No	Ar (CaAa)	46.00 - 5.00	2.00	0.413	1	1	0.50	0.63		0.00
Feedline Ladder (Af)	A	No	No	Af (CaAa)	117.00 - 10.00	0.00	0.4	1	1	3.00	3.00		0.01
HB158-1- 08U8- S8J18(1-5/8)	A	No	No	Ar (CaAa)	117.00 - 10.00	0.00	0.43	2	2	0.50	1.98		0.00
LDF5- 50A(7/8)	A	No	No	Ar (CaAa)	117.00 - 10.00	0.00	0.4	6	6	0.50	1.03		0.00
LDF4- 50A(1/2) ***	B	No	No	Ar (CaAa)	56.00 - 0.00	0.00	-0.45	1	1	0.50	0.63		0.00
Feedline Ladder (Af)	C	No	No	Af (CaAa)	104.00 - 2.00	0.00	-0.38	1	1	3.00	3.00		0.01
LDF5- 50A(7/8)	C	No	No	Ar (CaAa)	104.00 - 2.00	0.00	-0.38	12	12	0.50	1.03		0.00
FB-L98B- 002-	C	No	No	Ar (CaAa)	104.00 - 2.00	1.00	-0.46	1	1	0.39	0.39		0.00

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
75000(3/8) FB-L98B- 034- XXX(3/8)	C	No	No	Ar (CaAa)	104.00 - 2.00	0.00	-0.46	2	2	0.39	0.39		0.00
WR- VG86ST- BRD(3/4)	C	No	No	Ar (CaAa)	104.00 - 2.00	0.00	-0.44	4	4	0.50	0.80		0.00
WR- VG86ST- BRDA(7/8) ***	C	No	No	Ar (CaAa)	104.00 - 2.00	1.50	-0.415	2	2	0.50	0.88		0.00
T-Bracket	B	No	No	Af (CaAa)	94.00 - 5.00	-10.00	0.45	1	1	1.50	1.50		0.00
CU12PSM9P 6XXX(1-1/2) ***	B	No	No	Af (CaAa)	94.00 - 5.00	-10.00	0.415	1	1	0.50	1.60		0.00
AL5-50(7/8)	B	No	No	Ar (CaAa)	84.00 - 5.00	-10.00	0.45	10	3	0.50	1.10		0.00
HCS 6X12 6AWG(1-3/8)	B	No	No	Ar (CaAa)	84.00 - 5.00	-13.00	0.415	2	2	0.50	1.38		0.00
MLE HYBRID 9POWER/18 FIBER RL 2(1-5/8) ***	B	No	No	Ar (CaAa)	84.00 - 5.00	-13.00	0.45	1	1	0.50	1.63		0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight klf

Feed Line/Linear Appurtenances Section Areas

Tower Section	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
T1	133.17-121.04	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	15.802	0.000	0.20
		C	0.000	0.000	0.000	0.000	0.00
T2	121.04-100.92	A	0.000	0.000	24.350	0.000	0.21
		B	0.000	0.000	35.501	0.000	0.44
		C	0.000	0.000	7.240	0.000	0.05
T3	100.92-94.10	A	0.000	0.000	10.314	0.000	0.09
		B	0.000	0.000	12.163	0.000	0.15
		C	0.000	0.000	15.996	0.000	0.11
T4	94.10-87.44	A	0.000	0.000	10.093	0.000	0.09
		B	0.000	0.000	15.401	0.000	0.19
		C	0.000	0.000	15.654	0.000	0.11
T5	87.44-80.77	A	0.000	0.000	10.093	0.000	0.09
		B	0.000	0.000	20.423	0.000	0.21
		C	0.000	0.000	15.654	0.000	0.11
T6	80.77-60.60	A	0.000	0.000	30.532	0.000	0.26
		B	0.000	0.000	77.929	0.000	0.72
		C	0.000	0.000	47.354	0.000	0.33

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
T7	60.60-40.42	A	0.000	0.000	30.564	0.000	0.26
		B	0.000	0.000	80.471	0.000	0.73
		C	0.000	0.000	47.402	0.000	0.33
T8	40.42-20.21	A	0.000	0.000	30.595	0.000	0.26
		B	0.000	0.000	81.756	0.000	0.73
		C	0.000	0.000	47.451	0.000	0.33
T9	20.21-10.10	A	0.000	0.000	15.298	0.000	0.13
		B	0.000	0.000	40.878	0.000	0.37
		C	0.000	0.000	23.726	0.000	0.16
T10	10.10-0.00	A	0.000	0.000	0.158	0.000	0.00
		B	0.000	0.000	17.240	0.000	0.14
		C	0.000	0.000	19.029	0.000	0.13

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
T1	133.17-121.04	A	1.945	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	41.665	0.000	0.75
		C		0.000	0.000	0.000	0.000	0.00
T2	121.04-100.92	A	1.919	0.000	0.000	61.594	0.000	0.98
		B		0.000	0.000	92.919	0.000	1.65
		C		0.000	0.000	21.841	0.000	0.31
T3	100.92-94.10	A	1.895	0.000	0.000	25.943	0.000	0.41
		B		0.000	0.000	32.859	0.000	0.57
		C		0.000	0.000	47.963	0.000	0.67
T4	94.10-87.44	A	1.881	0.000	0.000	25.309	0.000	0.40
		B		0.000	0.000	41.538	0.000	0.73
		C		0.000	0.000	46.780	0.000	0.65
T5	87.44-80.77	A	1.867	0.000	0.000	25.226	0.000	0.39
		B		0.000	0.000	51.781	0.000	0.88
		C		0.000	0.000	46.614	0.000	0.64
T6	80.77-60.60	A	1.835	0.000	0.000	75.745	0.000	1.17
		B		0.000	0.000	188.995	0.000	3.10
		C		0.000	0.000	139.880	0.000	1.91
T7	60.60-40.42	A	1.774	0.000	0.000	74.758	0.000	1.14
		B		0.000	0.000	202.027	0.000	3.21
		C		0.000	0.000	137.897	0.000	1.85
T8	40.42-20.21	A	1.686	0.000	0.000	73.285	0.000	1.08
		B		0.000	0.000	204.209	0.000	3.13
		C		0.000	0.000	134.942	0.000	1.76
T9	20.21-10.10	A	1.573	0.000	0.000	35.653	0.000	0.51
		B		0.000	0.000	98.239	0.000	1.46
		C		0.000	0.000	65.494	0.000	0.82
T10	10.10-0.00	A	1.409	0.000	0.000	0.353	0.000	0.00
		B		0.000	0.000	40.262	0.000	0.55
		C		0.000	0.000	50.238	0.000	0.59

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
T1	133.17-121.04	4.58	-1.55	5.94	-2.10
T2	121.04-100.92	6.81	-9.39	9.10	-9.67
T3	100.92-94.10	13.79	-7.93	18.55	-6.02
T4	94.10-87.44	15.06	-6.92	20.76	-4.51
T5	87.44-80.77	16.29	-4.63	21.98	-2.41
T6	80.77-60.60	20.88	-3.24	27.03	-0.89
T7	60.60-40.42	21.45	-4.08	29.22	-3.35
T8	40.42-20.21	25.84	-4.85	34.63	-3.92

Section	Elevation	CP _x	CP _z	CP _x Ice	CP _z Ice
	ft	in	in	in	in
T9	20.21-10.10	26.16	-4.96	36.18	-4.29
T10	10.10-0.00	19.89	8.14	30.63	11.09

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	3	Feedline Ladder (Af)	121.04 - 130.00	0.6000	0.5705
T1	4	HB078-1-08U3-M3J(7/8)	121.04 - 130.00	0.6000	0.5705
T1	8	Feedline Ladder (Af)	121.04 - 130.00	0.6000	0.5705
T1	9	HB058-1-08U1-S2F(5/8)	121.04 - 130.00	0.6000	0.5705
T1	10	HB114-1-08U4-M5J(1-1/4)	121.04 - 130.00	0.6000	0.5705
T2	3	Feedline Ladder (Af)	100.92 - 121.04	0.6000	0.6000
T2	4	HB078-1-08U3-M3J(7/8)	100.92 - 121.04	0.6000	0.6000
T2	8	Feedline Ladder (Af)	100.92 - 121.04	0.6000	0.6000
T2	9	HB058-1-08U1-S2F(5/8)	100.92 - 121.04	0.6000	0.6000
T2	10	HB114-1-08U4-M5J(1-1/4)	100.92 - 121.04	0.6000	0.6000
T2	13	Feedline Ladder (Af)	100.92 - 117.00	0.6000	0.6000
T2	15	HB158-1-08U8-S8J18(1-5/8)	100.92 - 117.00	0.6000	0.6000
T2	16	LDF5-50A(7/8)	100.92 - 117.00	0.6000	0.6000
T2	19	Feedline Ladder (Af)	100.92 - 104.00	0.6000	0.6000
T2	21	LDF5-50A(7/8)	100.92 - 104.00	0.6000	0.6000
T2	22	FB-L98B-002-75000(3/8)	100.92 - 104.00	0.6000	0.6000
T2	23	FB-L98B-034-XXX(3/8)	100.92 - 104.00	0.6000	0.6000
T2	24	WR-VG86ST-BRD(3/4)	100.92 - 104.00	0.6000	0.6000
T2	25	WR-VG86ST-BRDA(7/8)	100.92 - 104.00	0.6000	0.6000
T3	1	Safety Line 3/8	94.10 - 98.00	0.6000	0.6000
T3	3	Feedline Ladder (Af)	94.10 - 100.92	0.6000	0.6000
T3	4	HB078-1-08U3-M3J(7/8)	94.10 - 100.92	0.6000	0.6000
T3	8	Feedline Ladder (Af)	94.10 - 100.92	0.6000	0.6000
T3	9	HB058-1-08U1-S2F(5/8)	94.10 - 100.92	0.6000	0.6000
T3	10	HB114-1-08U4-M5J(1-1/4)	94.10 - 100.92	0.6000	0.6000
T3	13	Feedline Ladder (Af)	94.10 - 100.92	0.6000	0.6000
T3	15	HB158-1-08U8-S8J18(1-5/8)	94.10 - 100.92	0.6000	0.6000
T3	16	LDF5-50A(7/8)	94.10 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T3	19	Feedline Ladder (Af)	100.92 94.10 -	0.6000	0.6000
T3	21	LDF5-50A(7/8)	100.92 94.10 -	0.6000	0.6000
T3	22	FB-L98B-002-75000(3/8)	100.92 94.10 -	0.6000	0.6000
T3	23	FB-L98B-034-XXX(3/8)	100.92 94.10 -	0.6000	0.6000
T3	24	WR-VG86ST-BRD(3/4)	100.92 94.10 -	0.6000	0.6000
T3	25	WR-VG86ST-BRDA(7/8)	100.92 94.10 -	0.6000	0.6000
T4	1	Safety Line 3/8	87.44 - 94.10	0.6000	0.6000
T4	3	Feedline Ladder (Af)	87.44 - 94.10	0.6000	0.6000
T4	4	HB078-1-08U3-M3J(7/8)	87.44 - 94.10	0.6000	0.6000
T4	8	Feedline Ladder (Af)	87.44 - 94.10	0.6000	0.6000
T4	9	HB058-1-08U1-S2F(5/8)	87.44 - 94.10	0.6000	0.6000
T4	10	HB114-1-08U4-M5J(1-1/4)	87.44 - 94.10	0.6000	0.6000
T4	13	Feedline Ladder (Af)	87.44 - 94.10	0.6000	0.6000
T4	15	HB158-1-08U8-S8J18(1-5/8)	87.44 - 94.10	0.6000	0.6000
T4	16	LDF5-50A(7/8)	87.44 - 94.10	0.6000	0.6000
T4	19	Feedline Ladder (Af)	87.44 - 94.10	0.6000	0.6000
T4	21	LDF5-50A(7/8)	87.44 - 94.10	0.6000	0.6000
T4	22	FB-L98B-002-75000(3/8)	87.44 - 94.10	0.6000	0.6000
T4	23	FB-L98B-034-XXX(3/8)	87.44 - 94.10	0.6000	0.6000
T4	24	WR-VG86ST-BRD(3/4)	87.44 - 94.10	0.6000	0.6000
T4	25	WR-VG86ST-BRDA(7/8)	87.44 - 94.10	0.6000	0.6000
T4	27	T-Bracket	87.44 - 94.00	0.6000	0.6000
T4	28	CU12PSM9P6XXX(1-1/2)	87.44 - 94.00	0.6000	0.6000
T5	1	Safety Line 3/8	80.77 - 87.44	0.6000	0.6000
T5	3	Feedline Ladder (Af)	80.77 - 87.44	0.6000	0.6000
T5	4	HB078-1-08U3-M3J(7/8)	80.77 - 87.44	0.6000	0.6000
T5	8	Feedline Ladder (Af)	80.77 - 87.44	0.6000	0.6000
T5	9	HB058-1-08U1-S2F(5/8)	80.77 - 87.44	0.6000	0.6000
T5	10	HB114-1-08U4-M5J(1-1/4)	80.77 - 87.44	0.6000	0.6000
T5	13	Feedline Ladder (Af)	80.77 - 87.44	0.6000	0.6000
T5	15	HB158-1-08U8-S8J18(1-5/8)	80.77 - 87.44	0.6000	0.6000
T5	16	LDF5-50A(7/8)	80.77 - 87.44	0.6000	0.6000
T5	19	Feedline Ladder (Af)	80.77 - 87.44	0.6000	0.6000
T5	21	LDF5-50A(7/8)	80.77 - 87.44	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T5	22	FB-L98B-002-75000(3/8)	80.77 - 87.44	0.6000	0.6000
T5	23	FB-L98B-034-XXX(3/8)	80.77 - 87.44	0.6000	0.6000
T5	24	WR-VG86ST-BRD(3/4)	80.77 - 87.44	0.6000	0.6000
T5	25	WR-VG86ST-BRDA(7/8)	80.77 - 87.44	0.6000	0.6000
T5	27	T-Bracket	80.77 - 87.44	0.6000	0.6000
T5	28	CU12PSM9P6XXX(1-1/2)	80.77 - 87.44	0.6000	0.6000
T5	30	AL5-50(7/8)	80.77 - 84.00	0.6000	0.6000
T5	31	HCS 6X12 6AWG(1-3/8)	80.77 - 84.00	0.6000	0.6000
T5	32	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	80.77 - 84.00	0.6000	0.6000
T6	1	Safety Line 3/8	60.60 - 80.77	0.6000	0.6000
T6	3	Feedline Ladder (Af)	60.60 - 80.77	0.6000	0.6000
T6	4	HB078-1-08U3-M3J(7/8)	60.60 - 80.77	0.6000	0.6000
T6	5	LCF12-50J(1/2)	60.60 - 63.00	0.6000	0.6000
T6	8	Feedline Ladder (Af)	60.60 - 80.77	0.6000	0.6000
T6	9	HB058-1-08U1-S2F(5/8)	60.60 - 80.77	0.6000	0.6000
T6	10	HB114-1-08U4-M5J(1-1/4)	60.60 - 80.77	0.6000	0.6000
T6	13	Feedline Ladder (Af)	60.60 - 80.77	0.6000	0.6000
T6	15	HB158-1-08U8-S8J18(1- 5/8)	60.60 - 80.77	0.6000	0.6000
T6	16	LDF5-50A(7/8)	60.60 - 80.77	0.6000	0.6000
T6	19	Feedline Ladder (Af)	60.60 - 80.77	0.6000	0.6000
T6	21	LDF5-50A(7/8)	60.60 - 80.77	0.6000	0.6000
T6	22	FB-L98B-002-75000(3/8)	60.60 - 80.77	0.6000	0.6000
T6	23	FB-L98B-034-XXX(3/8)	60.60 - 80.77	0.6000	0.6000
T6	24	WR-VG86ST-BRD(3/4)	60.60 - 80.77	0.6000	0.6000
T6	25	WR-VG86ST-BRDA(7/8)	60.60 - 80.77	0.6000	0.6000
T6	27	T-Bracket	60.60 - 80.77	0.6000	0.6000
T6	28	CU12PSM9P6XXX(1-1/2)	60.60 - 80.77	0.6000	0.6000
T6	30	AL5-50(7/8)	60.60 - 80.77	0.6000	0.6000
T6	31	HCS 6X12 6AWG(1-3/8)	60.60 - 80.77	0.6000	0.6000
T6	32	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	60.60 - 80.77	0.6000	0.6000
T7	1	Safety Line 3/8	40.42 - 60.60	0.6000	0.6000
T7	3	Feedline Ladder (Af)	40.42 - 60.60	0.6000	0.6000
T7	4	HB078-1-08U3-M3J(7/8)	40.42 - 60.60	0.6000	0.6000
T7	5	LCF12-50J(1/2)	40.42 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T7	8	Feedline Ladder (Af)	60.60 40.42 -	0.6000	0.6000
T7	9	HB058-1-08U1-S2F(5/8)	60.60 40.42 -	0.6000	0.6000
T7	10	HB114-1-08U4-M5J(1-1/4)	60.60 40.42 -	0.6000	0.6000
T7	11	LDF4-50A(1/2)	60.60 40.42 -	0.6000	0.6000
T7	13	Feedline Ladder (Af)	46.00 40.42 -	0.6000	0.6000
T7	15	HB158-1-08U8-S8J18(1-5/8)	60.60 40.42 -	0.6000	0.6000
T7	16	LDF5-50A(7/8)	60.60 40.42 -	0.6000	0.6000
T7	17	LDF4-50A(1/2)	60.60 40.42 -	0.6000	0.6000
T7	19	Feedline Ladder (Af)	56.00 40.42 -	0.6000	0.6000
T7	21	LDF5-50A(7/8)	60.60 40.42 -	0.6000	0.6000
T7	22	FB-L98B-002-75000(3/8)	60.60 40.42 -	0.6000	0.6000
T7	23	FB-L98B-034-XXX(3/8)	60.60 40.42 -	0.6000	0.6000
T7	24	WR-VG86ST-BRD(3/4)	60.60 40.42 -	0.6000	0.6000
T7	25	WR-VG86ST-BRDA(7/8)	60.60 40.42 -	0.6000	0.6000
T7	27	T-Bracket	60.60 40.42 -	0.6000	0.6000
T7	28	CU12PSM9P6XXX(1-1/2)	60.60 40.42 -	0.6000	0.6000
T7	30	AL5-50(7/8)	60.60 40.42 -	0.6000	0.6000
T7	31	HCS 6X12 6AWG(1-3/8)	60.60 40.42 -	0.6000	0.6000
T7	32	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	60.60 40.42 -	0.6000	0.6000
T8	1	Safety Line 3/8	20.21 - 40.42	0.6000	0.6000
T8	3	Feedline Ladder (Af)	20.21 - 40.42	0.6000	0.6000
T8	4	HB078-1-08U3-M3J(7/8)	20.21 - 40.42	0.6000	0.6000
T8	5	LCF12-50J(1/2)	20.21 - 40.42	0.6000	0.6000
T8	8	Feedline Ladder (Af)	20.21 - 40.42	0.6000	0.6000
T8	9	HB058-1-08U1-S2F(5/8)	20.21 - 40.42	0.6000	0.6000
T8	10	HB114-1-08U4-M5J(1-1/4)	20.21 - 40.42	0.6000	0.6000
T8	11	LDF4-50A(1/2)	20.21 - 40.42	0.6000	0.6000
T8	13	Feedline Ladder (Af)	20.21 - 40.42	0.6000	0.6000
T8	15	HB158-1-08U8-S8J18(1-5/8)	20.21 - 40.42	0.6000	0.6000
T8	16	LDF5-50A(7/8)	20.21 - 40.42	0.6000	0.6000
T8	17	LDF4-50A(1/2)	20.21 - 40.42	0.6000	0.6000
T8	19	Feedline Ladder (Af)	20.21 - 40.42	0.6000	0.6000
T8	21	LDF5-50A(7/8)	20.21 - 40.42	0.6000	0.6000
T8	22	FB-L98B-002-75000(3/8)	20.21 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T8	23	FB-L98B-034-XXX(3/8)	40.42 20.21 -	0.6000	0.6000
T8	24	WR-VG86ST-BRD(3/4)	40.42 20.21 -	0.6000	0.6000
T8	25	WR-VG86ST-BRDA(7/8)	40.42 20.21 -	0.6000	0.6000
T8	27	T-Bracket	40.42 20.21 -	0.6000	0.6000
T8	28	CU12PSM9P6XXX(1-1/2)	40.42 20.21 -	0.6000	0.6000
T8	30	AL5-50(7/8)	40.42 20.21 -	0.6000	0.6000
T8	31	HCS 6X12 6AWG(1-3/8)	40.42 20.21 -	0.6000	0.6000
T8	32	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	40.42 20.21 -	0.6000	0.6000
T9	1	Safety Line 3/8	10.10 - 20.21	0.6000	0.6000
T9	3	Feedline Ladder (Af)	10.10 - 20.21	0.6000	0.6000
T9	4	HB078-1-08U3-M3J(7/8)	10.10 - 20.21	0.6000	0.6000
T9	5	LCF12-50J(1/2)	10.10 - 20.21	0.6000	0.6000
T9	8	Feedline Ladder (Af)	10.10 - 20.21	0.6000	0.6000
T9	9	HB058-1-08U1-S2F(5/8)	10.10 - 20.21	0.6000	0.6000
T9	10	HB114-1-08U4-M5J(1-1/4)	10.10 - 20.21	0.6000	0.6000
T9	11	LDF4-50A(1/2)	10.10 - 20.21	0.6000	0.6000
T9	13	Feedline Ladder (Af)	10.10 - 20.21	0.6000	0.6000
T9	15	HB158-1-08U8-S8J18(1- 5/8)	10.10 - 20.21	0.6000	0.6000
T9	16	LDF5-50A(7/8)	10.10 - 20.21	0.6000	0.6000
T9	17	LDF4-50A(1/2)	10.10 - 20.21	0.6000	0.6000
T9	19	Feedline Ladder (Af)	10.10 - 20.21	0.6000	0.6000
T9	21	LDF5-50A(7/8)	10.10 - 20.21	0.6000	0.6000
T9	22	FB-L98B-002-75000(3/8)	10.10 - 20.21	0.6000	0.6000
T9	23	FB-L98B-034-XXX(3/8)	10.10 - 20.21	0.6000	0.6000
T9	24	WR-VG86ST-BRD(3/4)	10.10 - 20.21	0.6000	0.6000
T9	25	WR-VG86ST-BRDA(7/8)	10.10 - 20.21	0.6000	0.6000
T9	27	T-Bracket	10.10 - 20.21	0.6000	0.6000
T9	28	CU12PSM9P6XXX(1-1/2)	10.10 - 20.21	0.6000	0.6000
T9	30	AL5-50(7/8)	10.10 - 20.21	0.6000	0.6000
T9	31	HCS 6X12 6AWG(1-3/8)	10.10 - 20.21	0.6000	0.6000
T9	32	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	10.10 - 20.21	0.6000	0.6000
T10	1	Safety Line 3/8	0.00 - 10.10	0.6000	0.6000
T10	3	Feedline Ladder (Af)	10.00 - 10.10	0.6000	0.6000
T10	4	HB078-1-08U3-M3J(7/8)	10.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T10	5	LCF12-50J(1/2)	10.10 10.00 - 10.10	0.6000	0.6000
T10	8	Feedline Ladder (Af)	5.00 - 10.10	0.6000	0.6000
T10	9	HB058-1-08U1-S2F(5/8)	5.00 - 10.10	0.6000	0.6000
T10	10	HB114-1-08U4-M5J(1-1/4)	5.00 - 10.10	0.6000	0.6000
T10	11	LDF4-50A(1/2)	5.00 - 10.10	0.6000	0.6000
T10	13	Feedline Ladder (Af)	10.00 - 10.10	0.6000	0.6000
T10	15	HB158-1-08U8-S8J18(1-5/8)	10.00 - 10.10	0.6000	0.6000
T10	16	LDF5-50A(7/8)	10.00 - 10.10	0.6000	0.6000
T10	17	LDF4-50A(1/2)	0.00 - 10.10	0.6000	0.6000
T10	19	Feedline Ladder (Af)	2.00 - 10.10	0.6000	0.6000
T10	21	LDF5-50A(7/8)	2.00 - 10.10	0.6000	0.6000
T10	22	FB-L98B-002-75000(3/8)	2.00 - 10.10	0.6000	0.6000
T10	23	FB-L98B-034-XXX(3/8)	2.00 - 10.10	0.6000	0.6000
T10	24	WR-VG86ST-BRD(3/4)	2.00 - 10.10	0.6000	0.6000
T10	25	WR-VG86ST-BRDA(7/8)	2.00 - 10.10	0.6000	0.6000
T10	27	T-Bracket	5.00 - 10.10	0.6000	0.6000
T10	28	CU12PSM9P6XXX(1-1/2)	5.00 - 10.10	0.6000	0.6000
T10	30	AL5-50(7/8)	5.00 - 10.10	0.6000	0.6000
T10	31	HCS 6X12 6AWG(1-3/8)	5.00 - 10.10	0.6000	0.6000
T10	32	MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	5.00 - 10.10	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K

4'x2" Mount Pipe	A	From Leg	0.00 0.00 0.00	0.00	130.00	No Ice	0.87	0.87	0.01
						1/2"	1.11	1.11	0.02
						Ice	1.36	1.36	0.03
						1" Ice	1.90	1.90	0.06
						2" Ice			
4'x2" Mount Pipe	B	From Leg	0.00 0.00 0.00	0.00	130.00	No Ice	0.87	0.87	0.01
						1/2"	1.11	1.11	0.02
						Ice	1.36	1.36	0.03
						1" Ice	1.90	1.90	0.06
						2" Ice			
4'x2" Mount Pipe	C	From Leg	0.00 0.00 0.00	0.00	130.00	No Ice	0.87	0.87	0.01
						1/2"	1.11	1.11	0.02
						Ice	1.36	1.36	0.03
						1" Ice	1.90	1.90	0.06
						2" Ice			
12'x4" Mount Pipe	A	From Leg	0.00 0.00 0.00	0.00	130.00	No Ice	4.41	4.41	0.16
						1/2"	6.29	6.29	0.19
						Ice	7.01	7.01	0.23
						1" Ice	8.51	8.51	0.35
						2" Ice			
12'x4" Mount Pipe	B	From Leg	0.00 0.00 0.00	0.00	130.00	No Ice	4.41	4.41	0.16
						1/2"	6.29	6.29	0.19
						Ice	7.01	7.01	0.23
						1" Ice	8.51	8.51	0.35
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
ANT450D6-9	A	From Leg	1.00 0.00 6.00	0.00	130.00	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	0.50 0.90 1.30 2.10 2.10	0.50 0.90 1.30 2.10 2.10	0.02 0.02 0.03 0.04 0.04
ANT450D6-9	A	From Leg	1.00 0.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.50 0.90 1.30 2.10 2.10	0.50 0.90 1.30 2.10 2.10	0.02 0.02 0.03 0.04 0.04
130 T-Arm Mount [4' TA 702-3]	C	None		0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.80 4.66 5.58 7.78 7.78	3.80 4.66 5.58 7.78 7.78	0.27 0.34 0.44 0.69 0.69
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	1.00 -2.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44 6.44	4.01 4.45 4.89 5.82 5.82	0.10 0.16 0.23 0.42 0.42
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	1.00 -2.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44 6.44	4.01 4.45 4.89 5.82 5.82	0.10 0.16 0.23 0.42 0.42
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	1.00 -2.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44 6.44	4.01 4.45 4.89 5.82 5.82	0.10 0.16 0.23 0.42 0.42
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	1.00 2.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71 5.71	2.86 3.23 3.61 4.40 4.40	0.08 0.13 0.19 0.33 0.33
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	1.00 2.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71 5.71	2.86 3.23 3.61 4.40 4.40	0.08 0.13 0.19 0.33 0.33
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	1.00 2.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71 5.71	2.86 3.23 3.61 4.40 4.40	0.08 0.13 0.19 0.33 0.33
1900MHZ RRH (65MHZ)	A	From Leg	1.00 0.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19 3.19	2.38 2.59 2.80 3.25 3.25	0.06 0.08 0.11 0.18 0.18
1900MHZ RRH (65MHZ)	B	From Leg	1.00 0.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19 3.19	2.38 2.59 2.80 3.25 3.25	0.06 0.08 0.11 0.18 0.18
1900MHZ RRH (65MHZ)	C	From Leg	1.00 0.00 0.00	0.00	130.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19 3.19	2.38 2.59 2.80 3.25 3.25	0.06 0.08 0.11 0.18 0.18
800MHZ 2X50W RRH W/FILTER	A	From Leg	1.00 0.00 0.00	0.00	130.00	No Ice 1/2" Ice	2.06 2.24 2.43	1.93 2.11 2.29	0.06 0.09 0.11

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
						1" Ice	2.83	2.68	0.17
						2" Ice			
800MHZ 2X50W RRH W/FILTER	B	From Leg	1.00	0.00	130.00	No Ice	2.06	1.93	0.06
			0.00			1/2"	2.24	2.11	0.09
			0.00			Ice	2.43	2.29	0.11
						1" Ice	2.83	2.68	0.17
						2" Ice			
800MHZ 2X50W RRH W/FILTER	C	From Leg	1.00	0.00	130.00	No Ice	2.06	1.93	0.06
			0.00			1/2"	2.24	2.11	0.09
			0.00			Ice	2.43	2.29	0.11
						1" Ice	2.83	2.68	0.17
						2" Ice			
TD-RRH8X20-25	A	From Leg	1.00	0.00	130.00	No Ice	3.70	1.29	0.07
			0.00			1/2"	3.95	1.46	0.09
			0.00			Ice	4.20	1.64	0.12
						1" Ice	4.72	2.02	0.18
						2" Ice			
TD-RRH8X20-25	B	From Leg	1.00	0.00	130.00	No Ice	3.70	1.29	0.07
			0.00			1/2"	3.95	1.46	0.09
			0.00			Ice	4.20	1.64	0.12
						1" Ice	4.72	2.02	0.18
						2" Ice			
TD-RRH8X20-25	C	From Leg	1.00	0.00	130.00	No Ice	3.70	1.29	0.07
			0.00			1/2"	3.95	1.46	0.09
			0.00			Ice	4.20	1.64	0.12
						1" Ice	4.72	2.02	0.18
						2" Ice			
117									
Sector Mount [SM 504-3]	C	None		0.00	117.00	No Ice	31.05	31.05	1.71
						1/2"	43.83	43.83	2.33
						Ice	56.44	56.44	3.14
						1" Ice	81.28	81.28	5.36
						2" Ice			
5'x2" Mount Pipe	A	From Leg	4.00	0.00	117.00	No Ice	1.19	1.19	0.02
			0.00			1/2"	1.50	1.50	0.03
			0.00			Ice	1.81	1.81	0.04
						1" Ice	2.46	2.46	0.08
						2" Ice			
5'x2" Mount Pipe	B	From Leg	4.00	0.00	117.00	No Ice	1.19	1.19	0.02
			0.00			1/2"	1.50	1.50	0.03
			0.00			Ice	1.81	1.81	0.04
						1" Ice	2.46	2.46	0.08
						2" Ice			
5'x2" Mount Pipe	C	From Leg	4.00	0.00	117.00	No Ice	1.19	1.19	0.02
			0.00			1/2"	1.50	1.50	0.03
			0.00			Ice	1.81	1.81	0.04
						1" Ice	2.46	2.46	0.08
						2" Ice			
6'x2" Mount Pipe	A	From Leg	4.00	0.00	117.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
6'x2" Mount Pipe	B	From Leg	4.00	0.00	117.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
6'x2" Mount Pipe	C	From Leg	4.00	0.00	117.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
8'x3" Mount Pipe	A	From Leg	4.00	0.00	117.00	No Ice	2.80	2.80	0.06
			0.00			1/2"	3.41	3.41	0.08

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			0.00			Ice	3.89	3.89	0.11
						1" Ice	4.90	4.90	0.17
						2" Ice			
8'x3" Mount Pipe	B	From Leg	4.00	0.00	117.00	No Ice	2.80	2.80	0.06
			0.00			1/2"	3.41	3.41	0.08
			0.00			Ice	3.89	3.89	0.11
						1" Ice	4.90	4.90	0.17
						2" Ice			
8'x3" Mount Pipe	C	From Leg	4.00	0.00	117.00	No Ice	2.80	2.80	0.06
			0.00			1/2"	3.41	3.41	0.08
			0.00			Ice	3.89	3.89	0.11
						1" Ice	4.90	4.90	0.17
						2" Ice			
BSAMNT-SBS-2-2 Side By Side Bracket	A	From Leg	4.00	0.00	117.00	No Ice	0.00	0.00	0.07
			0.00			1/2"	0.00	0.00	0.09
			0.00			Ice	0.00	0.00	0.11
						1" Ice	0.00	0.00	0.15
						2" Ice			
BSAMNT-SBS-2-2 Side By Side Bracket	B	From Leg	4.00	0.00	117.00	No Ice	0.00	0.00	0.07
			0.00			1/2"	0.00	0.00	0.09
			0.00			Ice	0.00	0.00	0.11
						1" Ice	0.00	0.00	0.15
						2" Ice			
BSAMNT-SBS-2-2 Side By Side Bracket	C	From Leg	4.00	0.00	117.00	No Ice	0.00	0.00	0.07
			0.00			1/2"	0.00	0.00	0.09
			0.00			Ice	0.00	0.00	0.11
						1" Ice	0.00	0.00	0.15
						2" Ice			
SBNHH-1D65B	A	From Leg	4.00	0.00	117.00	No Ice	4.16	2.49	0.04
			0.00			1/2"	4.57	2.88	0.09
			0.00			Ice	4.99	3.27	0.15
						1" Ice	5.85	4.09	0.28
						2" Ice			
SBNHH-1D65B	B	From Leg	4.00	0.00	117.00	No Ice	4.16	2.49	0.04
			0.00			1/2"	4.57	2.88	0.09
			0.00			Ice	4.99	3.27	0.15
						1" Ice	5.85	4.09	0.28
						2" Ice			
SBNHH-1D65B	C	From Leg	4.00	0.00	117.00	No Ice	4.16	2.49	0.04
			0.00			1/2"	4.57	2.88	0.09
			0.00			Ice	4.99	3.27	0.15
						1" Ice	5.85	4.09	0.28
						2" Ice			
SBNHH-1D65B	A	From Leg	4.00	0.00	117.00	No Ice	4.16	2.49	0.04
			0.00			1/2"	4.57	2.88	0.09
			0.00			Ice	4.99	3.27	0.15
						1" Ice	5.85	4.09	0.28
						2" Ice			
SBNHH-1D65B	B	From Leg	4.00	0.00	117.00	No Ice	4.16	2.49	0.04
			0.00			1/2"	4.57	2.88	0.09
			0.00			Ice	4.99	3.27	0.15
						1" Ice	5.85	4.09	0.28
						2" Ice			
SBNHH-1D65B	C	From Leg	4.00	0.00	117.00	No Ice	4.16	2.49	0.04
			0.00			1/2"	4.57	2.88	0.09
			0.00			Ice	4.99	3.27	0.15
						1" Ice	5.85	4.09	0.28
						2" Ice			
LBX-6515DS-T0M w/ Mount Pipe	A	From Leg	4.00	0.00	117.00	No Ice	8.63	6.10	0.05
			0.00			1/2"	9.19	7.28	0.11
			0.00			Ice	9.72	8.17	0.19
						1" Ice	10.81	9.98	0.36
						2" Ice			
LBX-6515DS-T0M w/ Mount Pipe	B	From Leg	4.00	0.00	117.00	No Ice	8.63	6.10	0.05
			0.00			1/2"	9.19	7.28	0.11

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			0.00			Ice	9.72	8.17	0.19
						1" Ice	10.81	9.98	0.36
						2" Ice			
LNx-6514DS-T4M w/ Mount Pipe	C	From Leg	4.00	0.00	117.00	No Ice	4.09	3.30	0.06
			0.00			1/2"	4.49	3.68	0.13
			0.00			Ice	4.89	4.06	0.20
						1" Ice	5.71	4.87	0.38
						2" Ice			
MT6407-77A w/ Mount Pipe	A	From Leg	4.00	0.00	117.00	No Ice	4.91	2.68	0.10
			0.00			1/2"	5.26	3.14	0.14
			2.00			Ice	5.61	3.62	0.18
						1" Ice	6.36	4.63	0.29
						2" Ice			
MT6407-77A w/ Mount Pipe	B	From Leg	4.00	0.00	117.00	No Ice	4.91	2.68	0.10
			0.00			1/2"	5.26	3.14	0.14
			2.00			Ice	5.61	3.62	0.18
						1" Ice	6.36	4.63	0.29
						2" Ice			
MT6407-77A w/ Mount Pipe	C	From Leg	4.00	0.00	117.00	No Ice	4.91	2.68	0.10
			0.00			1/2"	5.26	3.14	0.14
			2.00			Ice	5.61	3.62	0.18
						1" Ice	6.36	4.63	0.29
						2" Ice			
CBRS w/ Mount Pipe	A	From Leg	4.00	0.00	117.00	No Ice	1.45	0.99	0.03
			0.00			1/2"	1.67	1.18	0.05
			-2.00			Ice	1.90	1.39	0.07
						1" Ice	2.42	1.85	0.12
						2" Ice			
CBRS w/ Mount Pipe	B	From Leg	4.00	0.00	117.00	No Ice	1.45	0.99	0.03
			0.00			1/2"	1.67	1.18	0.05
			-2.00			Ice	1.90	1.39	0.07
						1" Ice	2.42	1.85	0.12
						2" Ice			
CBRS w/ Mount Pipe	C	From Leg	4.00	0.00	117.00	No Ice	1.45	0.99	0.03
			0.00			1/2"	1.67	1.18	0.05
			-2.00			Ice	1.90	1.39	0.07
						1" Ice	2.42	1.85	0.12
						2" Ice			
RFV01U-D1A	A	From Leg	4.00	0.00	117.00	No Ice	1.88	1.25	0.08
			0.00			1/2"	2.05	1.39	0.10
			-2.00			Ice	2.22	1.54	0.12
						1" Ice	2.60	1.86	0.18
						2" Ice			
RFV01U-D1A	B	From Leg	4.00	0.00	117.00	No Ice	1.88	1.25	0.08
			0.00			1/2"	2.05	1.39	0.10
			-2.00			Ice	2.22	1.54	0.12
						1" Ice	2.60	1.86	0.18
						2" Ice			
RFV01U-D1A	C	From Leg	4.00	0.00	117.00	No Ice	1.88	1.25	0.08
			0.00			1/2"	2.05	1.39	0.10
			-2.00			Ice	2.22	1.54	0.12
						1" Ice	2.60	1.86	0.18
						2" Ice			
RFV01U-D2A	A	From Leg	4.00	0.00	117.00	No Ice	1.88	1.01	0.07
			0.00			1/2"	2.05	1.14	0.09
			-2.00			Ice	2.22	1.28	0.11
						1" Ice	2.60	1.59	0.15
						2" Ice			
RFV01U-D2A	B	From Leg	4.00	0.00	117.00	No Ice	1.88	1.01	0.07
			0.00			1/2"	2.05	1.14	0.09
			-2.00			Ice	2.22	1.28	0.11
						1" Ice	2.60	1.59	0.15
						2" Ice			
RFV01U-D2A	C	From Leg	4.00	0.00	117.00	No Ice	1.88	1.01	0.07
			0.00			1/2"	2.05	1.14	0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			-2.00			Ice	2.22	1.28	0.11
						1" Ice	2.60	1.59	0.15
						2" Ice			
DB-T1-6Z-8AB-0Z	A	From Leg	4.00	0.00	117.00	No Ice	4.80	2.00	0.04
			0.00			1/2"	5.07	2.19	0.08
			-2.00			Ice	5.35	2.39	0.12
						1" Ice	5.93	2.81	0.21
						2" Ice			
DB-T1-6Z-8AB-0Z	B	From Leg	4.00	0.00	117.00	No Ice	4.80	2.00	0.04
			0.00			1/2"	5.07	2.19	0.08
			-2.00			Ice	5.35	2.39	0.12
						1" Ice	5.93	2.81	0.21
						2" Ice			
104									
Sector Mount [SM 503-3]	C	None		0.00	104.00	No Ice	30.43	30.43	1.69
						1/2"	43.02	43.02	2.30
						Ice	55.43	55.43	3.10
						1" Ice	79.89	79.89	5.27
						2" Ice			
(3) 8'x2" Mount Pipe	A	From Leg	3.00	0.00	104.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
(3) 8'x2" Mount Pipe	B	From Leg	3.00	0.00	104.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
(3) 8'x2" Mount Pipe	C	From Leg	3.00	0.00	104.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
800 10121 w/ Mount Pipe	A	From Leg	3.00	0.00	104.00	No Ice	3.60	2.95	0.07
			0.00			1/2"	4.00	3.34	0.11
			2.00			Ice	4.42	3.74	0.17
						1" Ice	5.29	4.59	0.30
						2" Ice			
800 10121 w/ Mount Pipe	B	From Leg	3.00	0.00	104.00	No Ice	3.60	2.95	0.07
			0.00			1/2"	4.00	3.34	0.11
			2.00			Ice	4.42	3.74	0.17
						1" Ice	5.29	4.59	0.30
						2" Ice			
800 10121 w/ Mount Pipe	C	From Leg	3.00	0.00	104.00	No Ice	3.60	2.95	0.07
			0.00			1/2"	4.00	3.34	0.11
			2.00			Ice	4.42	3.74	0.17
						1" Ice	5.29	4.59	0.30
						2" Ice			
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	3.00	0.00	104.00	No Ice	9.22	6.25	0.07
			0.00			1/2"	9.98	6.96	0.14
			2.00			Ice	10.76	7.70	0.22
						1" Ice	12.36	9.22	0.42
						2" Ice			
HPA-65R-BUU-H6 w/ Mount Pipe	B	From Leg	3.00	0.00	104.00	No Ice	9.22	6.25	0.07
			0.00			1/2"	9.98	6.96	0.14
			2.00			Ice	10.76	7.70	0.22
						1" Ice	12.36	9.22	0.42
						2" Ice			
TPA65R-BU6D_CCIV2 w/ Mount Pipe	A	From Leg	3.00	0.00	104.00	No Ice	11.96	5.97	0.09
			0.00			1/2"	12.70	6.63	0.18
			2.00			Ice	13.46	7.30	0.28
						1" Ice	15.02	8.69	0.51
						2" Ice			
TPA65R-BU6D_CCIV2 w/	B	From Leg	3.00	0.00	104.00	No Ice	11.96	5.97	0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
Mount Pipe			0.00 2.00			1/2" Ice 1" Ice 2" Ice	12.70 13.46 15.02	6.63 7.30 8.69	0.18 0.28 0.51
DMP65R-BU6D w/ Mount Pipe	A	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
DMP65R-BU6D w/ Mount Pipe	B	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
HPA-65R-BUU-H8 w/ Mount Pipe	C	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.19 14.16 16.14	8.33 9.23 10.15 12.05	0.10 0.19 0.30 0.54
TPA65R-BU8D_CCIV2 w/ Mount Pipe	C	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	15.89 16.81 17.76 19.70	7.89 8.74 9.60 11.37	0.12 0.23 0.36 0.66
DMP65R-BU8D w/ Mount Pipe	C	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	15.89 16.81 17.76 19.70	7.89 8.74 9.60 11.37	0.14 0.25 0.38 0.68
782-10250	A	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.45 0.54 0.64 0.86	0.25 0.32 0.40 0.59	0.01 0.01 0.02 0.03
782-10250	B	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.45 0.54 0.64 0.86	0.25 0.32 0.40 0.59	0.01 0.01 0.02 0.03
782-10250	C	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.45 0.54 0.64 0.86	0.25 0.32 0.40 0.59	0.01 0.01 0.02 0.03
(2) 860 10025	A	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.14 0.20 0.26 0.41	0.12 0.17 0.23 0.38	0.00 0.00 0.01 0.01
(2) 860 10025	B	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.14 0.20 0.26 0.41	0.12 0.17 0.23 0.38	0.00 0.00 0.01 0.01
(2) 860 10025	C	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.14 0.20 0.26 0.41	0.12 0.17 0.23 0.38	0.00 0.00 0.01 0.01
DTMABP7819VG12A	A	From Leg	3.00 0.00 2.00	0.00	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.98 1.10 1.23 1.52	0.34 0.42 0.51 0.71	0.02 0.03 0.04 0.06
DTMABP7819VG12A	B	From Leg	3.00	0.00	104.00	No Ice	0.98	0.34	0.02

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
DTMABP7819VG12A	C	From Leg	0.00	0.00	104.00	1/2"	1.10	0.42	0.03
			2.00			Ice	1.23	0.51	0.04
						1" Ice	1.52	0.71	0.06
						2" Ice			
			3.00			No Ice	0.98	0.34	0.02
			0.00			1/2"	1.10	0.42	0.03
			2.00			Ice	1.23	0.51	0.04
						1" Ice	1.52	0.71	0.06
						2" Ice			
						No Ice			
RRUS 32 B30	A	From Leg	3.00	0.00	104.00	No Ice	2.69	1.57	0.06
			0.00			1/2"	2.91	1.76	0.08
			2.00			Ice	3.14	1.95	0.10
						1" Ice	3.61	2.35	0.16
						2" Ice			
RRUS 32 B30	B	From Leg	3.00	0.00	104.00	No Ice	2.69	1.57	0.06
			0.00			1/2"	2.91	1.76	0.08
			2.00			Ice	3.14	1.95	0.10
						1" Ice	3.61	2.35	0.16
						2" Ice			
RRUS 32 B30	C	From Leg	3.00	0.00	104.00	No Ice	2.69	1.57	0.06
			0.00			1/2"	2.91	1.76	0.08
			2.00			Ice	3.14	1.95	0.10
						1" Ice	3.61	2.35	0.16
						2" Ice			
RRUS 32 B2	A	From Leg	3.00	0.00	104.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			2.00			Ice	3.18	2.05	0.10
						1" Ice	3.66	2.46	0.16
						2" Ice			
RRUS 32 B2	B	From Leg	3.00	0.00	104.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			2.00			Ice	3.18	2.05	0.10
						1" Ice	3.66	2.46	0.16
						2" Ice			
RRUS 32 B2	C	From Leg	3.00	0.00	104.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			2.00			Ice	3.18	2.05	0.10
						1" Ice	3.66	2.46	0.16
						2" Ice			
RRUS 4478 B14	A	From Leg	3.00	0.00	104.00	No Ice	1.84	1.06	0.06
			0.00			1/2"	2.01	1.20	0.08
			2.00			Ice	2.19	1.34	0.09
						1" Ice	2.57	1.66	0.14
						2" Ice			
RRUS 4478 B14	B	From Leg	3.00	0.00	104.00	No Ice	1.84	1.06	0.06
			0.00			1/2"	2.01	1.20	0.08
			2.00			Ice	2.19	1.34	0.09
						1" Ice	2.57	1.66	0.14
						2" Ice			
RRUS 4478 B14	C	From Leg	3.00	0.00	104.00	No Ice	1.84	1.06	0.06
			0.00			1/2"	2.01	1.20	0.08
			2.00			Ice	2.19	1.34	0.09
						1" Ice	2.57	1.66	0.14
						2" Ice			
RRUS 4449 B5/B12	A	From Leg	3.00	0.00	104.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			2.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 4449 B5/B12	B	From Leg	3.00	0.00	104.00	No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			2.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 4449 B5/B12	C	From Leg	3.00	0.00	104.00	No Ice	1.97	1.41	0.07

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			0.00			1/2"	2.14	1.56	0.09
			2.00			Ice	2.33	1.73	0.11
						1" Ice	2.72	2.07	0.16
						2" Ice			
RRUS 8843 B2/B66A	A	From Leg	3.00	0.00	104.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			2.00			Ice	1.97	1.65	0.11
						1" Ice	2.32	1.99	0.16
						2" Ice			
RRUS 8843 B2/B66A	B	From Leg	3.00	0.00	104.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			2.00			Ice	1.97	1.65	0.11
						1" Ice	2.32	1.99	0.16
						2" Ice			
RRUS 8843 B2/B66A	C	From Leg	3.00	0.00	104.00	No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			2.00			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	1.00	0.00	104.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			2.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
DC6-48-60-18-8F	B	From Leg	1.00	0.00	104.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			2.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
DC6-48-60-18-8F	C	From Leg	3.00	0.00	104.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			2.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
94 Commscope MTC3975083 (3)	C	None		0.00	94.00	No Ice	23.85	23.85	1.26
						1/2"	34.12	34.12	1.80
						Ice	44.39	44.39	2.35
						1" Ice	64.93	64.93	3.42
						2" Ice			
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00	0.00	94.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00	0.00	94.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00	0.00	94.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
TA08025-B605	A	From Leg	4.00	0.00	94.00	No Ice	1.96	1.13	0.08
			0.00			1/2"	2.14	1.27	0.09
			0.00			Ice	2.32	1.41	0.11
						1" Ice	2.71	1.72	0.16
						2" Ice			
TA08025-B605	B	From Leg	4.00	0.00	94.00	No Ice	1.96	1.13	0.08
			0.00			1/2"	2.14	1.27	0.09
			0.00			Ice	2.32	1.41	0.11
						1" Ice	2.71	1.72	0.16
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
TA08025-B605	C	From Leg	4.00 0.00 0.00	0.00	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	1.13 1.27 1.41 1.72	0.08 0.09 0.11 0.16
TA08025-B604	A	From Leg	4.00 0.00 0.00	0.00	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	0.98 1.11 1.25 1.55	0.06 0.08 0.10 0.15
TA08025-B604	B	From Leg	4.00 0.00 0.00	0.00	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	0.98 1.11 1.25 1.55	0.06 0.08 0.10 0.15
TA08025-B604	C	From Leg	4.00 0.00 0.00	0.00	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	0.98 1.11 1.25 1.55	0.06 0.08 0.10 0.15
RDIDC-9181-PF-48	A	From Leg	4.00 0.00 0.00	0.00	94.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.01 2.19 2.37 2.76	1.17 1.31 1.46 1.78	0.02 0.04 0.06 0.11
84 Site Pro 1 VFA12-SD-S 12' V-Frame	A	From Leg	0.00 0.00 0.00	0.00	84.00	No Ice 1/2" Ice 1" Ice 2" Ice	10.80 16.20 21.40 32.40	6.40 10.00 13.50 20.80	0.43 0.52 0.66 0.79
Site Pro 1 VFA12-SD-S 12' V-Frame	B	From Leg	0.00 0.00 0.00	0.00	84.00	No Ice 1/2" Ice 1" Ice 2" Ice	10.80 16.20 21.40 32.40	6.40 10.00 13.50 20.80	0.43 0.52 0.66 0.79
Site Pro 1 VFA12-SD-S 12' V-Frame	C	From Leg	0.00 0.00 0.00	0.00	84.00	No Ice 1/2" Ice 1" Ice 2" Ice	10.80 16.20 21.40 32.40	6.40 10.00 13.50 20.80	0.43 0.52 0.66 0.79
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.00	84.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.14 3.45 3.77 4.43	2.59 2.88 3.19 3.84	0.11 0.16 0.23 0.38
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.00	84.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.14 3.45 3.77 4.43	2.59 2.88 3.19 3.84	0.11 0.16 0.23 0.38
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.00	84.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.14 3.45 3.77 4.43	2.59 2.88 3.19 3.84	0.11 0.16 0.23 0.38
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.00	84.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.00	84.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	3.00 6.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	3.76 4.12 4.48 5.24	3.15 3.49 3.84 4.58	0.19 0.25 0.32 0.48
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	3.00 6.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	3.76 4.12 4.48 5.24	3.15 3.49 3.84 4.58	0.19 0.25 0.32 0.48
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	3.00 6.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	3.76 4.12 4.48 5.24	3.15 3.49 3.84 4.58	0.19 0.25 0.32 0.48
KRY 112 144/1	A	From Leg	3.00 0.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	0.35 0.43 0.51 0.70	0.17 0.23 0.30 0.46	0.01 0.01 0.02 0.03
KRY 112 144/1	B	From Leg	3.00 0.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	0.35 0.43 0.51 0.70	0.17 0.23 0.30 0.46	0.01 0.01 0.02 0.03
KRY 112 144/1	C	From Leg	3.00 0.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	0.35 0.43 0.51 0.70	0.17 0.23 0.30 0.46	0.01 0.01 0.02 0.03
RADIO 4449 B12/B71	A	From Leg	3.00 0.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	1.65 1.81 1.98 2.34	1.30 1.44 1.60 1.92	0.08 0.09 0.11 0.16
RADIO 4449 B12/B71	B	From Leg	3.00 0.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	1.65 1.81 1.98 2.34	1.30 1.44 1.60 1.92	0.08 0.09 0.11 0.16
RADIO 4449 B12/B71	C	From Leg	3.00 0.00 0.00	0.00	84.00	2" Ice No Ice 1/2" Ice 1" Ice	1.65 1.81 1.98 2.34	1.30 1.44 1.60 1.92	0.08 0.09 0.11 0.16
63 Side Arm Mount [SO 311- 1]	C	From Leg	0.00 0.00 0.00	0.00	63.00	2" Ice No Ice 1/2" Ice 1" Ice	1.67 2.43 3.21 4.84	4.53 6.41 8.37 12.72	0.06 0.10 0.15 0.28
RDL-3000	C	From Leg	3.00 0.00 -2.00	0.00	63.00	2" Ice No Ice 1/2" Ice 1" Ice	1.01 1.13 1.27 1.56	0.26 0.34 0.42 0.61	0.01 0.01 0.02 0.04
ALFOPLUS2_CCIV3	C	From Leg	3.00 0.00 0.00	0.00	63.00	2" Ice No Ice 1/2" Ice	1.07 1.20 1.34	0.56 0.67 0.78	0.03 0.03 0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
						1" Ice	1.64	1.03	0.07
						2" Ice			
56 Side Arm Mount [SO 311-1]	A	From Leg	0.00 0.00 0.00	0.00	56.00	No Ice	1.67	4.53	0.06
						1/2" Ice	2.43	6.41	0.10
						1" Ice	3.21	8.37	0.15
						2" Ice	4.84	12.72	0.28
GPS-TMG-20N	A	From Leg	3.00 0.00 3.00	0.00	56.00	No Ice	0.13	0.13	0.00
						1/2" Ice	0.18	0.18	0.00
						1" Ice	0.24	0.24	0.01
						2" Ice	0.37	0.37	0.01
*** 2'x2" Mount Pipe	B	From Leg	0.50 0.00 0.00	0.00	46.00	No Ice	0.34	0.34	0.01
						1/2" Ice	0.47	0.47	0.01
						1" Ice	0.61	0.61	0.02
						2" Ice	0.92	0.92	0.03
KS24019-L112A	B	From Leg	1.00 0.00 1.00	0.00	46.00	No Ice	0.14	0.14	0.01
						1/2" Ice	0.20	0.20	0.01
						1" Ice	0.26	0.26	0.01
						2" Ice	0.41	0.41	0.02

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft²	Weight K	
SB1-190BB	C	Paraboloid w/Shroud (HP)	From Leg	3.00	-12.00		63.00	1.25	No Ice	1.23	0.01
				0.00					1/2" Ice	1.40	0.02
				0.00					1" Ice	1.57	0.03
									2" Ice	1.91	0.04

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

Comb. No.	Description
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
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
T1	133.167 - 121.042	Leg	Max Tension	7	2.03	-0.10	-0.00
			Max. Compression	27	-3.91	-0.00	-0.01
			Max. Mx	14	-0.83	0.23	0.02
			Max. My	8	-0.86	-0.00	-0.25
			Max. Vy	19	-0.43	0.18	-0.00
			Max. Vx	20	0.46	-0.00	-0.19
		Diagonal	Max Tension	12	0.91	0.00	0.00
			Max. Compression	12	-0.91	0.00	0.00
			Max. Mx	27	0.28	0.02	0.00
			Max. My	24	-0.90	0.00	-0.00
			Max. Vy	27	-0.03	0.02	0.00
			Max. Vx	24	0.00	0.00	0.00
		Top Girt	Max Tension	7	0.11	0.00	0.00
			Max. Compression	2	-0.12	0.00	0.00
			Max. Mx	26	-0.03	-0.07	0.00
			Max. My	26	-0.04	0.00	0.00
			Max. Vy	26	0.04	0.00	0.00
			Max. Vx	26	-0.00	0.00	0.00
T2	121.042 - 100.917	Leg	Max Tension	7	13.88	-0.71	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T3	100.917 - 94.1042	Diagonal	Max. Compression	2	-22.11	0.13	0.02
			Max. Mx	6	13.25	1.13	0.00
			Max. My	12	-4.29	-0.07	1.12
			Max. Vy	6	-0.97	-0.72	0.00
			Max. Vx	12	-0.82	-0.02	-0.45
			Max Tension	12	3.34	0.00	0.00
			Max. Compression	12	-3.34	0.00	0.00
			Max. Mx	28	0.23	0.04	0.00
			Max. My	38	-0.98	0.03	-0.01
			Max. Vy	30	0.03	0.03	-0.00
		Top Girt	Max. Vx	38	0.00	0.00	0.00
			Max Tension	14	0.30	0.00	0.00
			Max. Compression	3	-0.22	0.00	0.00
			Max. Mx	26	0.14	-0.07	0.00
			Max. My	26	0.13	0.00	0.00
		Leg	Max. Vy	26	-0.04	0.00	0.00
			Max. Vx	26	-0.00	0.00	0.00
			Max Tension	7	20.44	0.10	-0.02
T4	94.1042 - 87.4375	Diagonal	Max. Compression	2	-29.56	-0.01	-0.05
			Max. Mx	6	15.50	-0.96	0.00
			Max. My	8	-4.93	-0.06	0.86
			Max. Vy	18	-4.85	0.84	-0.00
			Max. Vx	20	1.74	-0.08	-0.85
			Max Tension	13	4.37	0.00	0.00
			Max. Compression	12	-4.48	0.00	0.00
			Max. Mx	28	0.53	0.07	0.01
			Max. My	30	0.97	0.06	0.01
			Max. Vy	28	-0.05	0.07	0.01
		Leg	Max. Vx	30	-0.00	0.00	0.00
			Max Tension	7	28.60	0.10	-0.02
		Diagonal	Max. Compression	10	-39.44	-0.05	0.01
			Max. Mx	37	-9.87	-0.20	-0.02
			Max. My	4	-6.16	-0.07	-0.39
			Max. Vy	14	-0.46	0.11	0.05
			Max. Vx	16	0.39	0.05	-0.16
			Max Tension	12	4.54	0.00	0.00
			Max. Compression	12	-4.57	0.00	0.00
			Max. Mx	28	1.15	0.06	-0.01
			Max. My	32	-1.44	0.05	0.01
			Max. Vy	30	0.05	0.05	-0.01
T5	87.4375 - 80.7708	Leg	Max. Vx	32	-0.00	0.00	0.00
			Max Tension	7	36.29	-0.28	0.00
		Diagonal	Max. Compression	10	-49.81	-0.25	0.00
			Max. Mx	2	-48.49	0.39	-0.00
			Max. My	4	-6.44	-0.07	-0.39
			Max. Vy	14	-0.78	-0.26	-0.00
			Max. Vx	16	0.57	0.06	-0.08
			Max Tension	25	5.84	0.03	0.00
			Max. Compression	12	-5.87	0.00	0.00
			Max. Mx	31	1.58	0.09	-0.01
			Max. My	28	1.51	0.09	-0.01
			Max. Vy	31	-0.06	0.09	-0.01
		Secondary Horizontal	Max. Vx	28	0.00	0.00	0.00
			Max Tension	25	0.67	0.00	0.00
			Max. Compression	24	-0.67	0.00	0.00
			Max. Mx	28	-0.12	0.04	0.00
			Max. My	30	-0.17	0.04	0.00
T6	80.7708 - 60.6042	Leg	Max. Vy	28	0.04	0.04	0.00
			Max. Vx	30	0.00	0.00	0.00
			Max Tension	7	66.38	-0.40	-0.02
			Max. Compression	10	-84.35	0.38	0.01
			Max. Mx	22	63.05	-0.41	-0.01
			Max. My	4	-9.37	-0.02	-0.35
			Max. Vy	2	-7.46	0.39	-0.03

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft		
T7	60.6042 - 40.4167	Diagonal	Max. Vx	16	-2.75	-0.02	0.35		
			Max Tension	25	5.77	0.00	0.00		
			Max. Compression	24	-5.90	0.00	0.00		
			Max. Mx	31	0.96	0.10	0.01		
			Max. My	27	-2.02	0.09	-0.01		
		Leg	Max. Vy	29	0.06	0.09	0.01		
			Max. Vx	27	0.00	0.00	0.00		
			Max Tension	7	90.23	-0.40	-0.04		
			Diagonal	Max. Compression	10	-111.84	0.48	0.05	
				Max. Mx	3	-86.15	1.11	-0.08	
		Max. My		4	-9.37	-0.01	-0.60		
		Max. Vy		2	-8.02	0.48	-0.09		
		Max. Vx		16	-3.33	0.03	0.33		
		Max Tension		24	6.42	0.00	0.00		
		Max. Compression		24	-6.40	0.00	0.00		
		T8	40.4167 - 20.2083	Diagonal	Max. Mx	31	0.95	0.14	0.02
					Max. My	33	-1.62	0.11	0.02
Max. Vy	29				0.08	0.12	-0.02		
Max. Vx	33				-0.00	0.00	0.00		
Max Tension	7				112.23	0.15	-0.02		
Leg	Max. Compression			2	-137.90	0.84	-0.11		
	Max. Mx			2	-117.65	1.32	-0.16		
	Max. My			4	-12.14	-0.08	-0.75		
	Max. Vy			2	-8.76	0.84	-0.11		
	Max. Vx			16	-3.43	0.06	0.12		
Diagonal	Max Tension			24	7.27	0.00	0.00		
	Max. Compression			24	-7.34	0.00	0.00		
	Max. Mx			29	0.80	0.19	-0.02		
	Max. My			27	1.73	0.17	-0.03		
	Max. Vy			29	0.09	0.17	0.02		
	Max. Vx			27	0.01	0.00	0.00		
	Max Tension			15	117.08	-1.52	0.19		
T9	20.2083 - 10.1042	Leg	Max. Compression	10	-143.94	-0.72	0.00		
			Max. Mx	2	-137.90	1.76	-0.20		
			Max. My	4	-13.58	-0.16	-1.00		
			Max. Vy	2	-8.76	1.76	-0.20		
			Max. Vx	16	-3.43	0.07	0.48		
		Diagonal	Max Tension	24	7.49	0.00	0.00		
			Max. Compression	24	-7.49	0.00	0.00		
			Max. Mx	31	0.72	0.27	0.03		
			Max. My	33	-2.87	0.24	0.03		
			Max. Vy	29	0.11	0.27	-0.03		
		Leg	Max. Vx	33	-0.01	0.00	0.00		
			Max Tension	15	133.03	0.91	-0.09		
			Max. Compression	2	-162.65	0.00	0.00		
			Max. Mx	2	-155.27	1.61	-0.01		
			Max. My	4	-13.91	-0.16	-1.00		
		T10	10.1042 - 0	Leg	Max. Vy	2	-9.84	0.00	0.00
					Max. Vx	16	-3.35	0.00	0.00
Max Tension	25				7.60	0.11	0.01		
Max. Compression	24				-8.03	0.00	0.00		
Max. Mx	31				2.84	0.19	-0.03		
Diagonal	Max. My			27	2.24	0.19	-0.04		
	Max. Vy			30	0.10	0.18	0.03		
	Max. Vx			27	0.01	0.00	0.00		
	Max Tension			2	0.66	0.00	0.00		
	Max. Compression			15	-0.54	0.03	0.01		
Secondary Horizontal	Max. Mx			28	-0.03	0.12	0.01		
	Max. My			30	-0.21	0.11	0.01		
	Max. Vy	28	0.07	0.12	0.01				
	Max. Vx	30	-0.00	0.00	0.00				

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	158.50	16.47	-9.02
	Max. H _x	18	158.50	16.47	-9.02
	Max. H _z	7	-131.99	-14.12	7.69
	Min. Vert	7	-131.99	-14.12	7.69
	Min. H _x	7	-131.99	-14.12	7.69
	Min. H _z	18	158.50	16.47	-9.02
Leg B	Max. Vert	10	161.76	-16.10	-9.86
	Max. H _x	23	-130.09	13.69	8.43
	Max. H _z	25	-113.96	11.39	8.81
	Min. Vert	23	-130.09	13.69	8.43
	Min. H _x	10	161.76	-16.10	-9.86
	Min. H _z	10	161.76	-16.10	-9.86
Leg A	Max. Vert	2	161.83	0.94	19.10
	Max. H _x	20	13.43	2.52	1.07
	Max. H _z	2	161.83	0.94	19.10
	Min. Vert	15	-132.31	-0.89	-16.34
	Min. H _x	11	-63.47	-2.59	-8.09
	Min. H _z	15	-132.31	-0.89	-16.34

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	33.15	0.00	0.00	-2.01	-22.97	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	39.78	0.00	-30.83	-2415.09	-27.53	29.69
0.9 Dead+1.0 Wind 0 deg - No Ice	29.84	0.00	-30.83	-2414.49	-20.64	29.69
1.2 Dead+1.0 Wind 30 deg - No Ice	39.78	14.80	-25.60	-2023.60	-1194.63	30.62
0.9 Dead+1.0 Wind 30 deg - No Ice	29.84	14.80	-25.60	-2022.99	-1187.74	30.62
1.2 Dead+1.0 Wind 60 deg - No Ice	39.78	24.89	-14.35	-1146.13	-2009.67	13.24
0.9 Dead+1.0 Wind 60 deg - No Ice	29.84	24.89	-14.35	-1145.53	-2002.78	13.24
1.2 Dead+1.0 Wind 90 deg - No Ice	39.78	28.62	-0.00	-2.27	-2317.10	-6.73
0.9 Dead+1.0 Wind 90 deg - No Ice	29.84	28.62	-0.00	-1.66	-2310.21	-6.73
1.2 Dead+1.0 Wind 120 deg - No Ice	39.78	26.32	15.17	1192.91	-2098.80	-15.34
0.9 Dead+1.0 Wind 120 deg - No Ice	29.84	26.32	15.17	1193.52	-2091.91	-15.34
1.2 Dead+1.0 Wind 150 deg - No Ice	39.78	14.88	25.75	2028.44	-1200.52	-24.12
0.9 Dead+1.0 Wind 150 deg - No Ice	29.84	14.88	25.75	2029.04	-1193.63	-24.12
1.2 Dead+1.0 Wind 180 deg - No Ice	39.78	0.00	29.25	2311.87	-27.89	-29.70
0.9 Dead+1.0 Wind 180 deg - No Ice	29.84	0.00	29.25	2312.47	-21.00	-29.70
1.2 Dead+1.0 Wind 210 deg - No Ice	39.78	-14.79	25.60	2018.40	1139.16	-30.64
0.9 Dead+1.0 Wind 210 deg - No Ice	29.84	-14.79	25.60	2019.01	1146.06	-30.64
1.2 Dead+1.0 Wind 240 deg - No Ice	39.78	-26.25	15.14	1190.04	2039.15	-13.25
0.9 Dead+1.0 Wind 240 deg - No Ice	29.84	-26.25	15.14	1190.64	2046.04	-13.25
1.2 Dead+1.0 Wind 270 deg	39.78	-28.62	-0.00	-2.79	2261.63	6.73

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						
0.9 Dead+1.0 Wind 270 deg	29.84	-28.62	-0.00	-2.18	2268.52	6.73
- No Ice						
1.2 Dead+1.0 Wind 300 deg	39.78	-24.95	-14.39	-1148.87	1958.65	15.32
- No Ice						
0.9 Dead+1.0 Wind 300 deg	29.84	-24.95	-14.39	-1148.26	1965.54	15.32
- No Ice						
1.2 Dead+1.0 Wind 330 deg	39.78	-14.88	-25.75	-2033.20	1145.41	24.13
- No Ice						
0.9 Dead+1.0 Wind 330 deg	29.84	-14.88	-25.75	-2032.60	1152.30	24.13
- No Ice						
1.2 Dead+1.0 Ice+1.0 Temp	119.97	-0.00	0.00	-0.06	-112.10	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	119.97	-0.00	-9.69	-752.10	-112.00	13.24
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	119.97	4.71	-8.16	-638.33	-480.88	11.88
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	119.97	7.97	-4.59	-362.49	-740.71	5.47
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	119.97	9.20	0.00	0.06	-838.85	-1.88
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	119.97	8.20	4.73	370.46	-754.50	-6.93
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	119.97	4.74	8.20	640.67	-482.48	-10.58
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	119.97	0.00	9.47	739.32	-112.27	-13.24
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	119.97	-4.71	8.15	638.12	256.60	-11.88
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	119.97	-8.15	4.69	368.58	527.33	-5.47
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	119.97	-9.20	-0.00	-0.24	614.57	1.88
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	119.97	-8.01	-4.62	-364.33	519.38	6.92
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	119.97	-4.74	-8.20	-640.78	258.29	10.58
Dead+Wind 0 deg - Service	33.15	0.00	-7.50	-587.94	-22.96	7.20
Dead+Wind 30 deg - Service	33.15	3.60	-6.23	-492.89	-306.41	7.42
Dead+Wind 60 deg - Service	33.15	6.06	-3.49	-279.79	-504.37	3.21
Dead+Wind 90 deg - Service	33.15	6.97	-0.00	-1.98	-579.04	-1.63
Dead+Wind 120 deg - Service	33.15	6.40	3.69	288.28	-525.99	-3.72
Dead+Wind 150 deg - Service	33.15	3.62	6.27	491.21	-307.84	-5.85
Dead+Wind 180 deg - Service	33.15	0.00	7.12	560.06	-23.05	-7.20
Dead+Wind 210 deg - Service	33.15	-3.60	6.23	488.78	260.39	-7.43
Dead+Wind 240 deg - Service	33.15	-6.39	3.68	287.58	478.95	-3.21
Dead+Wind 270 deg - Service	33.15	-6.96	-0.00	-2.10	533.02	1.63
Dead+Wind 300 deg - Service	33.15	-6.07	-3.50	-280.46	459.43	3.71
Dead+Wind 330 deg - Service	33.15	-3.62	-6.27	-495.22	261.91	5.85

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	-33.15	0.00	0.00	33.15	0.00	0.000%
2	0.00	-39.78	-30.83	-0.00	39.78	30.83	0.000%
3	0.00	-29.84	-30.83	-0.00	29.84	30.83	0.000%
4	14.80	-39.78	-25.60	-14.80	39.78	25.60	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
5	14.80	-29.84	-25.60	-14.80	29.84	25.60	0.000%
6	24.89	-39.78	-14.35	-24.89	39.78	14.35	0.000%
7	24.89	-29.84	-14.35	-24.89	29.84	14.35	0.000%
8	28.62	-39.78	-0.00	-28.62	39.78	0.00	0.000%
9	28.62	-29.84	-0.00	-28.62	29.84	0.00	0.000%
10	26.32	-39.78	15.17	-26.32	39.78	-15.17	0.000%
11	26.32	-29.84	15.17	-26.32	29.84	-15.17	0.000%
12	14.88	-39.78	25.75	-14.88	39.78	-25.75	0.000%
13	14.88	-29.84	25.75	-14.88	29.84	-25.75	0.000%
14	0.00	-39.78	29.25	-0.00	39.78	-29.25	0.000%
15	0.00	-29.84	29.25	-0.00	29.84	-29.25	0.000%
16	-14.79	-39.78	25.60	14.79	39.78	-25.60	0.000%
17	-14.79	-29.84	25.60	14.79	29.84	-25.60	0.000%
18	-26.25	-39.78	15.14	26.25	39.78	-15.14	0.000%
19	-26.25	-29.84	15.14	26.25	29.84	-15.14	0.000%
20	-28.62	-39.78	-0.00	28.62	39.78	0.00	0.000%
21	-28.62	-29.84	-0.00	28.62	29.84	0.00	0.000%
22	-24.95	-39.78	-14.39	24.95	39.78	14.39	0.000%
23	-24.95	-29.84	-14.39	24.95	29.84	14.39	0.000%
24	-14.88	-39.78	-25.75	14.88	39.78	25.75	0.000%
25	-14.88	-29.84	-25.75	14.88	29.84	25.75	0.000%
26	0.00	-119.97	0.00	0.00	119.97	0.00	0.000%
27	-0.00	-119.97	-9.69	0.00	119.97	9.69	0.000%
28	4.71	-119.97	-8.16	-4.71	119.97	8.16	0.000%
29	7.97	-119.97	-4.59	-7.97	119.97	4.59	0.000%
30	9.20	-119.97	0.00	-9.20	119.97	-0.00	0.000%
31	8.20	-119.97	4.73	-8.20	119.97	-4.73	0.000%
32	4.74	-119.97	8.20	-4.74	119.97	-8.20	0.000%
33	0.00	-119.97	9.47	-0.00	119.97	-9.47	0.000%
34	-4.71	-119.97	8.15	4.71	119.97	-8.15	0.000%
35	-8.15	-119.97	4.69	8.15	119.97	-4.69	0.000%
36	-9.20	-119.97	-0.00	9.20	119.97	0.00	0.000%
37	-8.01	-119.97	-4.62	8.01	119.97	4.62	0.000%
38	-4.74	-119.97	-8.20	4.74	119.97	8.20	0.000%
39	0.00	-33.15	-7.50	-0.00	33.15	7.50	0.000%
40	3.60	-33.15	-6.23	-3.60	33.15	6.23	0.000%
41	6.06	-33.15	-3.49	-6.06	33.15	3.49	0.000%
42	6.97	-33.15	-0.00	-6.97	33.15	0.00	0.000%
43	6.40	-33.15	3.69	-6.40	33.15	-3.69	0.000%
44	3.62	-33.15	6.27	-3.62	33.15	-6.27	0.000%
45	0.00	-33.15	7.12	-0.00	33.15	-7.12	0.000%
46	-3.60	-33.15	6.23	3.60	33.15	-6.23	0.000%
47	-6.39	-33.15	3.68	6.39	33.15	-3.68	0.000%
48	-6.96	-33.15	-0.00	6.96	33.15	0.00	0.000%
49	-6.07	-33.15	-3.50	6.07	33.15	3.50	0.000%
50	-3.62	-33.15	-6.27	3.62	33.15	6.27	0.000%

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	133.167 - 121.042	2.19	43	0.13	0.02
T2	121.042 - 100.917	1.85	43	0.13	0.02
T3	100.917 - 94.1042	1.30	43	0.12	0.02
T4	94.1042 - 87.4375	1.13	43	0.11	0.01
T5	87.4375 - 80.7708	0.97	43	0.10	0.01
T6	80.7708 - 60.6042	0.83	43	0.09	0.01
T7	60.6042 -	0.47	43	0.06	0.01

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T8	40.4167 40.4167 - 20.2083	0.21	43	0.04	0.01
T9	20.2083 - 10.1042	0.06	43	0.02	0.00
T10	10.1042 - 0	0.02	39	0.01	0.00

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
130.00	4'x2" Mount Pipe	43	2.10	0.13	0.02	855748
117.00	Sector Mount [SM 504-3]	43	1.74	0.13	0.02	243757
104.00	Sector Mount [SM 503-3]	43	1.38	0.12	0.02	62065
94.00	Commscope MTC3975083 (3)	43	1.13	0.11	0.01	69366
84.00	Site Pro 1 VFA12-SD-S 12' V- Frame	43	0.90	0.10	0.01	38261
63.00	SB1-190BB	43	0.50	0.07	0.01	41325
56.00	Side Arm Mount [SO 311-1]	43	0.40	0.06	0.01	41600
46.00	2'x2" Mount Pipe	43	0.27	0.05	0.01	45236

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	133.167 - 121.042	8.84	2	0.53	0.07
T2	121.042 - 100.917	7.48	2	0.53	0.07
T3	100.917 - 94.1042	5.27	2	0.48	0.06
T4	94.1042 - 87.4375	4.58	2	0.45	0.06
T5	87.4375 - 80.7708	3.94	2	0.42	0.06
T6	80.7708 - 60.6042	3.36	2	0.38	0.05
T7	60.6042 - 40.4167	1.89	2	0.26	0.04
T8	40.4167 - 20.2083	0.87	2	0.16	0.02
T9	20.2083 - 10.1042	0.26	2	0.09	0.01
T10	10.1042 - 0	0.07	2	0.04	0.01

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
130.00	4'x2" Mount Pipe	2	8.48	0.53	0.07	332310
117.00	Sector Mount [SM 504-3]	2	7.02	0.52	0.07	80066
104.00	Sector Mount [SM 503-3]	2	5.59	0.49	0.06	15631
94.00	Commscope MTC3975083 (3)	2	4.57	0.45	0.06	17446
84.00	Site Pro 1 VFA12-SD-S 12' V-	2	3.63	0.40	0.06	9460

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
63.00	Frame SB1-190BB	2	2.04	0.27	0.04	10245
56.00	Side Arm Mount [SO 311-1]	2	1.61	0.24	0.04	10306
46.00	2'x2" Mount Pipe	2	1.11	0.19	0.03	11202

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	133.167	Leg	A325N	0.63	4	0.51	20.34	0.025	1.05	Bolt Tension
		Diagonal	A325N	0.63	1	0.91	6.83	0.134	1.05	Member Block Shear
		Top Girt	A325N	0.63	1	0.11	4.55	0.024	1.05	Member Block Shear
T2	121.042	Leg	A325N	0.75	4	3.47	30.10	0.115	1.05	Bolt Tension
		Diagonal	A325N	0.63	1	3.34	5.81	0.574	1.05	Member Block Shear
		Top Girt	A325N	0.63	1	0.38	5.22	0.073	1.05	Member Bearing
T3	100.917	Diagonal	A325N	0.63	1	4.37	7.83	0.558	1.05	Member Bearing
T4	94.1042	Diagonal	A325N	0.63	1	4.54	7.83	0.580	1.05	Member Bearing
T5	87.4375	Leg	A325N	0.88	4	9.06	41.56	0.218	1.05	Bolt Tension
		Diagonal	A325N	0.63	1	5.84	7.83	0.745	1.05	Member Bearing
		Secondary Horizontal	A325N	0.63	1	0.86	5.46	0.158	1.05	Member Block Shear
T6	80.7708	Leg	A325N	0.88	4	16.60	41.56	0.399	1.05	Bolt Tension
		Diagonal	A325N	0.63	1	5.77	7.83	0.737	1.05	Member Bearing
T7	60.6042	Leg	A325N	1.00	4	22.56	54.52	0.414	1.05	Bolt Tension
		Diagonal	A325N	0.63	1	6.42	7.83	0.820	1.05	Member Bearing
T8	40.4167	Leg	A325N	1.00	4	28.06	54.52	0.515	1.05	Bolt Tension
		Diagonal	A325N	0.63	1	7.27	11.70	0.621	1.05	Member Bearing
T9	20.2083	Diagonal	A325N	0.63	1	7.49	11.70	0.640	1.05	Member Bearing
T10	10.1042	Diagonal	A325N	0.75	1	7.60	14.14	0.537	1.05	Member Bearing
		Secondary Horizontal	A325N	0.63	1	2.82	9.53	0.296	1.05	Member Block Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
T1	133.167 - 121.042	ROHN 2 STD	12.13	4.00	61.0 K=1.00	1.07	-3.91	36.84	0.106 ¹
T2	121.042 - 100.917	ROHN 2.5 STD	20.16	5.01	63.4 K=1.00	1.70	-22.11	57.13	0.387 ¹

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T3	100.917 - 94.1042	ROHN 3 STD	6.82	6.68	68.9 K=1.00	2.23	-29.56	70.90	0.417 ¹
T4	94.1042 - 87.4375	ROHN 3 STD	6.68	6.68	68.9 K=1.00	2.23	-39.44	70.87	0.557 ¹
T5	87.4375 - 80.7708	ROHN 3 STD	6.67	3.43	35.4 K=1.00	2.23	-49.81	91.52	0.544 ¹
T6	80.7708 - 60.6042	ROHN 3 X-STR	20.20	6.68	70.5 K=1.00	3.02	-79.17	94.34	0.839 ¹
T7	60.6042 - 40.4167	ROHN 4 X-STR	20.22	6.68	54.3 K=1.00	4.41	-106.98	159.91	0.669 ¹
T8	40.4167 - 20.2083	ROHN 5 X-STR	20.24	10.02	65.4 K=1.00	6.11	-131.04	201.26	0.651 ¹
T9	20.2083 - 10.1042	ROHN 5 X-STR	10.12	10.02	65.4 K=1.00	6.11	-143.94	201.26	0.715 ¹
T10	10.1042 - 0	ROHN 5 X-STR	10.12	5.14	33.6 K=1.00	6.11	-155.40	253.29	0.614 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	133.167 - 121.042	L1 3/4x1 3/4x3/16	7.75	3.64	127.3 K=1.00	0.62	-0.91	10.97	0.083 ¹
T2	121.042 - 100.917	L1 3/4x1 3/4x3/16	9.81	4.79	167.4 K=1.00	0.62	-3.34	6.34	0.526 ¹
T3	100.917 - 94.1042	L2 1/2x2 1/2x3/16	11.22	5.51	133.7 K=1.00	0.90	-4.48	14.45	0.310 ¹
T4	94.1042 - 87.4375	L2 1/2x2 1/2x3/16	11.80	5.84	141.5 K=1.00	0.90	-4.57	12.89	0.354 ¹
T5	87.4375 - 80.7708	L2 1/2x2 1/2x3/16	12.36	6.05	146.8 K=1.00	0.90	-5.87	11.98	0.489 ¹
T6	80.7708 - 60.6042	L2 1/2x2 1/2x3/16	14.09	6.95	168.6 K=1.00	0.90	-5.90	9.09	0.650 ¹
T7	60.6042 - 40.4167	L3x3x3/16	15.90	7.80	157.1 K=1.00	1.09	-6.40	12.63	0.507 ¹
T8	40.4167 - 20.2083	L3x3x1/4	19.10	9.45	191.5 K=1.00	1.44	-7.34	11.24	0.653 ¹
T9	20.2083 - 10.1042	L3 1/2x3 1/2x1/4	19.96	9.88	170.8 K=1.00	1.69	-7.49	16.57	0.452 ¹
T10	10.1042 - 0	L3 1/2x3 1/2x1/4	20.83	10.30	178.0 K=1.00	1.69	-8.03	15.26	0.526 ¹

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T5	87.4375 - 80.7708	L1 1/2x1 1/2x3/16	10.40	9.83	258.4 K=1.00	0.53	-0.86	2.26	0.382 ¹
T10	10.1042 - 0	KL/R > 250 (C) - 82 L2 1/2x2 1/2x3/16 KL/R > 250 (C) - 161	18.25	17.52	270.2 K=1.00	0.90	-2.82	3.54	0.798 ¹

¹ $P_u / \phi P_n$ controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	133.167 - 121.042	L1 3/4x1 3/4x1/8	6.60	6.17	213.4 K=1.00	0.42	-0.12	2.65	0.046 ¹
T2	121.042 - 100.917	KL/R > 200 (C) - 4 L2x2x1/8	6.66	6.18	186.5 K=1.00	0.48	-0.38	3.98	0.096 ¹

¹ $P_u / \phi P_n$ controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	133.167 - 121.042	ROHN 2 STD	12.13	4.00	61.0	1.07	2.03	48.35	0.042 ¹
T2	121.042 - 100.917	ROHN 2.5 STD	20.16	5.01	63.4	1.70	13.88	76.68	0.181 ¹
T3	100.917 - 94.1042	ROHN 3 STD	6.82	6.68	68.9	2.23	20.44	100.28	0.204 ¹
T4	94.1042 - 87.4375	ROHN 3 STD	6.68	6.68	68.9	2.23	28.60	100.28	0.285 ¹
T5	87.4375 - 80.7708	ROHN 3 STD	6.67	3.25	33.5	2.23	36.29	100.28	0.362 ¹
T6	80.7708 - 60.6042	ROHN 3 X-STR	20.20	0.08	0.9	3.02	66.38	135.72	0.489 ¹
T7	60.6042 - 40.4167	ROHN 4 X-STR	20.22	0.09	0.8	4.41	90.23	198.34	0.455 ¹
T8	40.4167 - 20.2083	ROHN 5 X-STR	20.24	0.10	0.7	6.11	112.23	275.04	0.408 ¹
T9	20.2083 - 10.1042	ROHN 5 X-STR	10.12	10.02	65.4	6.11	117.08	275.04	0.426 ¹
T10	10.1042 - 0	ROHN 5 X-STR	10.12	0.10	0.7	6.11	133.03	275.04	0.484 ¹

¹ $P_u / \phi P_n$ controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	133.167 - 121.042	L1 3/4x1 3/4x3/16	7.74	3.64	84.0	0.36	0.91	15.68	0.058 ¹
T2	121.042 - 100.917	L1 3/4x1 3/4x3/16	9.81	4.79	109.8	0.36	3.34	15.68	0.213 ¹
T3	100.917 - 94.1042	L2 1/2x2 1/2x3/16	11.22	5.51	86.9	0.57	4.37	24.84	0.176 ¹
T4	94.1042 -	L2 1/2x2 1/2x3/16	11.80	5.84	91.9	0.57	4.54	24.84	0.183 ¹

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T5	87.4375 87.4375 - 80.7708	L2 1/2x2 1/2x3/16	12.36	6.05	95.2	0.57	5.84	24.84	0.235 ¹
T6	80.7708 - 60.6042	L2 1/2x2 1/2x3/16	14.09	6.95	109.1	0.57	5.77	24.84	0.232 ¹
T7	60.6042 - 40.4167	L3x3x3/16	15.90	7.80	101.3	0.71	6.42	30.97	0.207 ¹
T8	40.4167 - 20.2083	L3x3x1/4	19.10	9.45	123.4	0.94	7.27	45.79	0.159 ¹
T9	20.2083 - 10.1042	L3 1/2x3 1/2x1/4	19.96	9.88	110.1	1.13	7.49	54.94	0.136 ¹
T10	10.1042 - 0	L3 1/2x3 1/2x1/4	20.83	10.30	114.8	1.10	7.60	53.79	0.141 ¹

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T5	87.4375 - 80.7708	L1 1/2x1 1/2x3/16	10.40	9.83	265.5	0.29	0.86	12.62	0.068 ¹
T10	10.1042 - 0	L2 1/2x2 1/2x3/16	18.25	17.52	274.4	0.57	2.82	24.84	0.114 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	133.167 - 121.042	L1 3/4x1 3/4x1/8	6.60	6.17	140.9	0.25	0.11	10.71	0.010 ¹
T2	121.042 - 100.917	L2x2x1/8	6.66	6.18	123.0	0.29	0.38	12.74	0.030 ¹

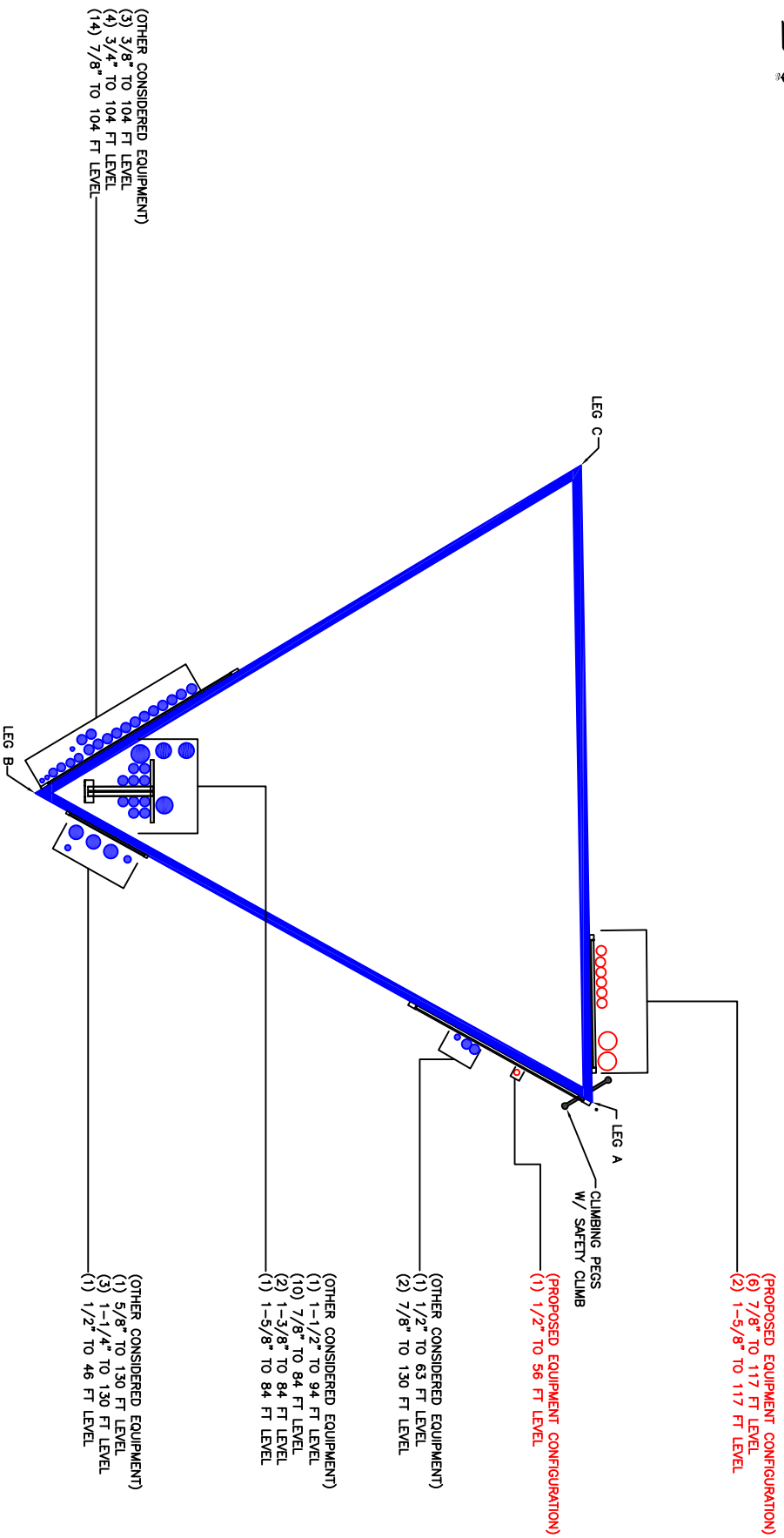
¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	φP _{allow} K	% Capacity	Pass Fail
T1	133.167 - 121.042	Leg	ROHN 2 STD	3	-3.91	38.68	10.1	Pass
T2	121.042 - 100.917	Leg	ROHN 2.5 STD	27	-22.11	59.99	36.9	Pass
T3	100.917 - 94.1042	Leg	ROHN 3 STD	57	-29.56	74.44	39.7	Pass
T4	94.1042 - 87.4375	Leg	ROHN 3 STD	65	-39.44	74.41	53.0	Pass
T5	87.4375 - 80.7708	Leg	ROHN 3 STD	74	-49.81	96.10	51.8	Pass
T6	80.7708 - 60.6042	Leg	ROHN 3 X-STR	86	-79.17	99.06	79.9	Pass
T7	60.6042 - 0	Leg	ROHN 4 X-STR	107	-106.98	167.91	63.7	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T8	40.4167 - 40.4167 - 20.2083	Leg	ROHN 5 X-STR	128	-131.04	211.32	62.0	Pass
T9	20.2083 - 10.1042	Leg	ROHN 5 X-STR	143	-143.94	211.32	68.1	Pass
T10	10.1042 - 0	Leg	ROHN 5 X-STR	152	-155.40	265.96	58.4	Pass
T1	133.167 - 121.042	Diagonal	L1 3/4x1 3/4x3/16	9	-0.91	11.51	7.9	Pass
T2	121.042 - 100.917	Diagonal	L1 3/4x1 3/4x3/16	33	-3.34	6.66	50.1	Pass
T3	100.917 - 94.1042	Diagonal	L2 1/2x2 1/2x3/16	60	-4.48	15.17	29.5	Pass
T4	94.1042 - 87.4375	Diagonal	L2 1/2x2 1/2x3/16	69	-4.57	13.54	33.7	Pass
T5	87.4375 - 80.7708	Diagonal	L2 1/2x2 1/2x3/16	78	-5.87	12.58	46.6	Pass
T6	80.7708 - 60.6042	Diagonal	L2 1/2x2 1/2x3/16	91	-5.90	9.54	61.9	Pass
T7	60.6042 - 40.4167	Diagonal	L3x3x3/16	112	-6.40	13.27	48.3	Pass
T8	40.4167 - 20.2083	Diagonal	L3x3x1/4	133	-7.34	11.80	62.2	Pass
T9	20.2083 - 10.1042	Diagonal	L3 1/2x3 1/2x1/4	148	-7.49	17.40	43.0	Pass
T10	10.1042 - 0	Diagonal	L3 1/2x3 1/2x1/4	157	-8.03	16.03	50.1	Pass
T5	87.4375 - 80.7708	Secondary Horizontal	L1 1/2x1 1/2x3/16	82	-0.86	2.37	36.4	Pass
T10	10.1042 - 0	Secondary Horizontal	L2 1/2x2 1/2x3/16	161	-2.82	3.71	76.0	Pass
T1	133.167 - 121.042	Top Girt	L1 3/4x1 3/4x1/8	4	-0.12	2.78	4.4	Pass
T2	121.042 - 100.917	Top Girt	L2x2x1/8	29	-0.38	4.18	9.2	Pass
Summary								
Leg (T6)							79.9	Pass
Diagonal (T8)							62.2	Pass
Secondary Horizontal (T10)							76.0	Pass
Top Girt (T2)							9.2	Pass
Bolt Checks							78.1	Pass
RATING =							79.9	Pass

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C

ADDITIONAL CALCULATIONS

Self Support Anchor Rod Capacity



Site Info	
BU #	806377
Site Name	HRT 084 943242
Order #	552697 Rev. 3

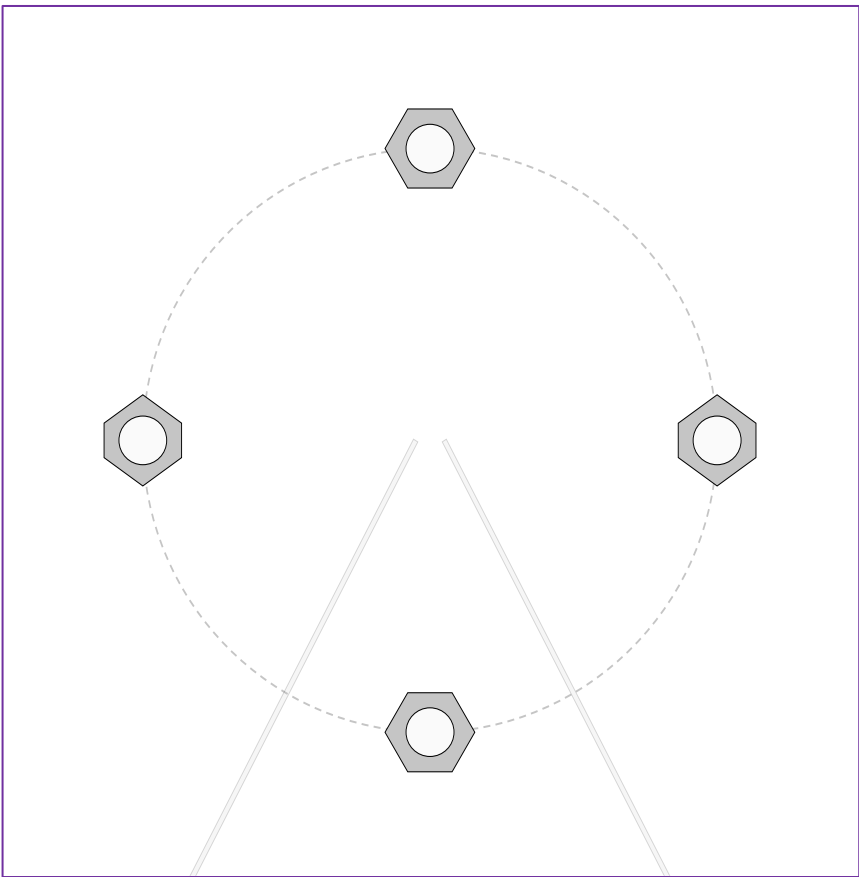
Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
l_{ar} (in)	0

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	161.83	132.31
Shear Force (kips)	19.12	16.36

*TIA-222-H Section 15.5 Applied

Considered Eccentricity	
Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

*Anchor Rod Eccentricity Applied

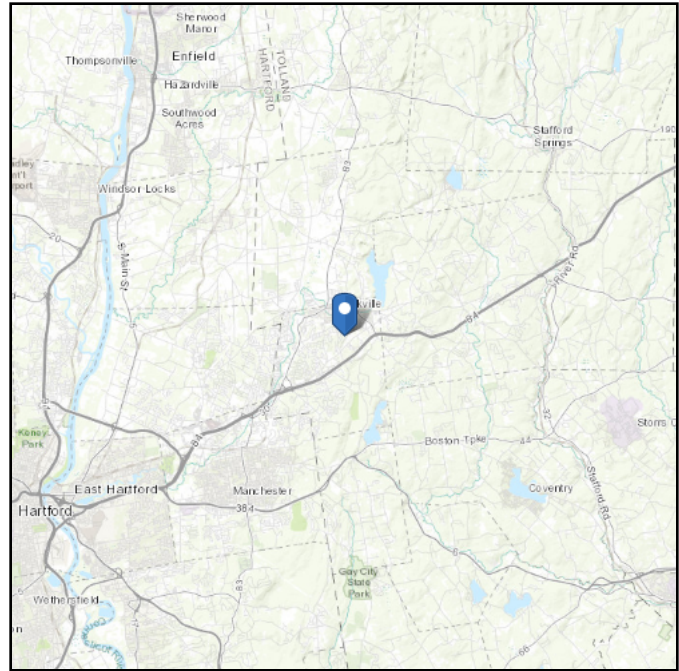


Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary (units of kips, kip-in)	
(4) 1" $\varnothing$ bolts (A449 N; Fy=92 ksi, Fu=120 ksi)		Pu_t = 33.08	ϕPn_t = 54.54
l_{ar} (in): 0		Vu = 4.09	ϕVn = 35.34
		Mu = n/a	ϕMn = n/a
			Stress Rating
			57.8%
			Pass

ASCE 7 Hazards Report

Address:

No Address at This
Location

Standard: ASCE/SEI 7-10**Risk Category:** II**Soil Class:** D - Stiff Soil**Elevation:** 654.83 ft (NAVD 88)**Latitude:** 41.853475**Longitude:** -72.452089

Wind

Results:

Wind Speed:	124 Vmph
10-year MRI	77 Vmph
25-year MRI	87 Vmph
50-year MRI	93 Vmph
100-year MRI	101 Vmph

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

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

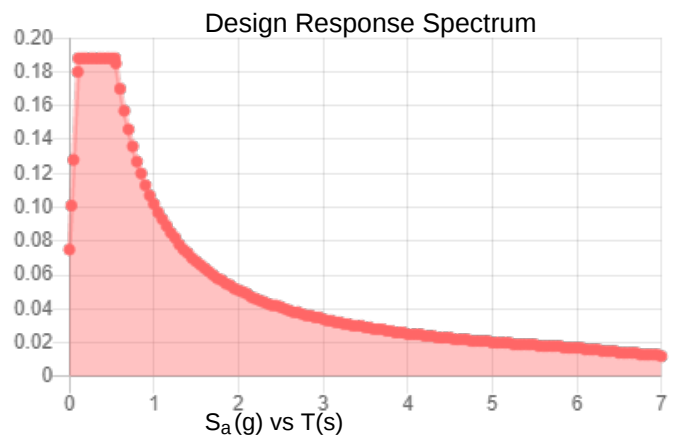
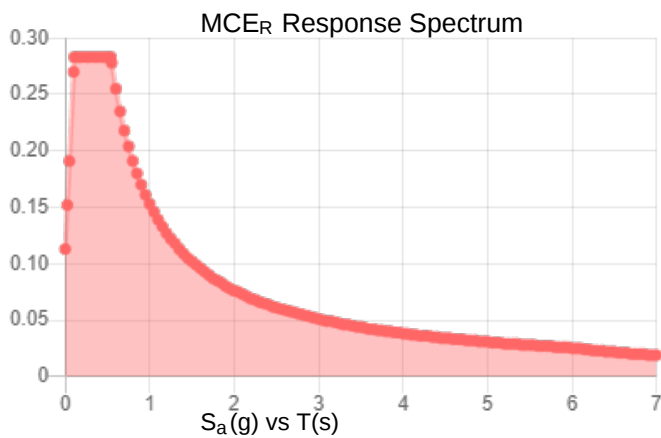
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.177	S_{DS} :	0.188
S_1 :	0.064	S_{D1} :	0.102
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.088
S_{MS} :	0.283	PGA_M :	0.141
S_{M1} :	0.153	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Fri May 28 2021

Date Source:

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

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 5 F

Gust Speed: 50 mph

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

Date Accessed: Fri May 28 2021

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

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

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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SST Unit Base Foundation



BU #: 806377
 Site Name: HRT 084 943242
 App. Number: 552697 Rev. 3

TIA-222 Revision: H

Top & Bot. Pad Rein. Different?:	☐
Tower Centroid Offset?:	☒
Block Foundation?:	☐
Rectangular Pad?:	☐

Superstructure Analysis Reactions		
Global Moment, M :	2415.25	ft-kips
Global Axial, P :	39.78	kips
Global Shear, V :	30.83	kips
Leg Compression, P_{comp} :	161.83	kips
Leg Comp. Shear, V_{u,comp} :	19.12	kips
Leg Uplift, P_{uplift} :	132.31	kips
Leg Uplift. Shear, V_{u,uplift} :	16.36	kips
Tower Height, H :	133.17	ft
Base Face Width, BW :	18.77	ft
BP Dist. Above Fdn, bp_{dist} :	3.625	in

Pier Properties		
Pier Shape:	Square	
Pier Diameter, dpier :	3.3	ft
Ext. Above Grade, E :	2.30	ft
Pier Rebar Size, Sc :	9	
Pier Rebar Quantity, mc :	12	
Pier Tie/Spiral Size, St :	5	
Pier Tie/Spiral Quantity, mt :	2	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	4	in

Pad Properties		
Depth, D :	2.60	ft
Pad Width, W₁ :	24.00	ft
Pad Thickness, T :	4.20	ft
Pad Rebar Size (Bottom dir. 2), Sp₂ :	8	
Pad Rebar Quantity (Bottom dir. 2), mp₂ :	24	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, Fy :	60	ksi
Concrete Compressive Strength, F'c :	3	ksi
Dry Concrete Density, δc :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	115	pcf
Ultimate Gross Bearing, Qult :	30.000	ksf
Cohesion, Cu :	0.000	ksf
Friction Angle, φ :	33	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :	0.4	
Neglected Depth, N :	3.3	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	16	ft

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	109.97	30.83	26.7%	Pass
Bearing Pressure (ksf)	22.50	2.06	9.1%	Pass
Overturing (kip*ft)	4274.43	2733.27	63.9%	Pass
Pier Flexure (Comp.) (kip*ft)	886.59	43.98	4.7%	Pass
Pier Flexure (Tension) (kip*ft)	639.09	37.63	5.6%	Pass
Pier Compression (kip)	4119.38	166.34	3.8%	Pass
Pad Flexure (kip*ft)	3850.11	218.33	5.4%	Pass
Pad Shear - 1-way (kips)	1086.07	25.23	2.2%	Pass
Pad Shear - Comp 2-way (ksi)	0.164	0.014	7.9%	Pass
Flexural 2-way (Comp) (kip*ft)	1648.65	26.39	1.5%	Pass
Pad Shear - Tension 2-way (ksi)	0.164	0.012	7.2%	Pass
Flexural 2-way (Tension) (kip*ft)	1648.65	22.58	1.3%	Pass

*Rating per TIA-222-H Section 15.5

Soil Rating*:	63.9%
Structural Rating*:	7.9%

<-- Toggle between Gross and Net

Exhibit E

Mount Analysis



Network Building + Consulting, LLC
1777 Sentry Parkway W VEVA 17, Suite 400
Blue Bell, PA 19422
(267)460-0122
kkolandaivelu@nbcllc.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10039632
NB+C ES Project #: 100719

May 11, 2021

Site Information

Site ID: 469068-VZW / VERNON CT
Site Name: VERNON CT
Carrier Name: Verizon Wireless
Address: 85 SOUTH ST
Vernon, Connecticut 06066
Tolland County
Latitude: 41.853431°
Longitude: -72.452029°

Structure Information

Tower Type: 150-Ft Self Support
Mount Type: 15.50-Ft Sector Frame

FUZE ID # 16244122

Analysis Results

Sector Frame: 47.2% Pass

*****Contractor PMI Requirements:**

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Connor Rice, EIT


DocuSigned by:
Krupakaran Kolanidavelu
81AC599182D641D...
5/11/2021

Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID 325016, dated April 2, 2021
Antenna Mount Mapping Form	Hudson Design Group, LLC, Site #:469068, dated March 30, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 118 mph
	Ice Wind Speed (3-sec. Gust): 50 mph
	Design Ice Thickness: 1.50 in
	Risk Category: II
	Exposure Category: B
	Topographic Category: 1
	Topographic Feature Considered: N/A
	Topographic Method: N/A
	Ground Elevation Factor, K_e : 0.977
Seismic Parameters:	S_s : 0.183
	S_1 : 0.195
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph
	Maintenance Live Load, L_v : 250 lbs.
	Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
115.5	118.5	3	Samsung	MT6407-77A	Added
	117.0	2	Andrew	LBX-6515DS	Retained
		1	Andrew	LNK-6514DS	
		6	Andrew	SBNHH-1D65B	
		2	Raycap	RRFDC-3315-PF-48*	
		3	Samsung	B2/B66A RRH-BR049 (RFV01U-D1A)	Added
		3	Samsung	B5/B13 RRH-BR04C (RFV01U-D2A)	
	115.0	3	Samsung	CBRS RRH - RT4401-48A	

* Equipment to be flush mounted directly to the Self Support. They are not mounted on sector frame mounts and are not included in this mount analysis.

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
RHSDC-1064-PF-48	2	OVP-2
RC3DC-3315-PF-48	6	OVP-6
RC3DC-3300-PF-48	6	OVP-6
RC3DC-4750-PF-48	6	OVP-6
RHSDC-6627-PF-48	12	OVP-12
RHSDC-6600-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Network Building + Consulting and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Network Building + Consulting to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Network Building + Consulting, the mounts are assumed to have been properly

fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Network Building + Consulting is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	37.5%	Pass
2.0 STD Mount Pipe	41.1%	Pass
Stabilizer	13.8%	Pass
Standoff	38.2%	Pass
Standoff Vertical bracing	10.1%	Pass
Standoff Diagonal Bracing	33.3%	Pass
2.0 EH Mount Pipe	22.1%	Pass
Gusset	47.2%	Pass
Mount Connection	20.7%	Pass

Structure Rating – (Controlling Utilization of all Components)	47.2%
---	--------------

Recommendation:

The existing mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

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

Install new safety climb standoff as needed.

Attachments:

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
5. Antenna Placement Diagrams





FCC #

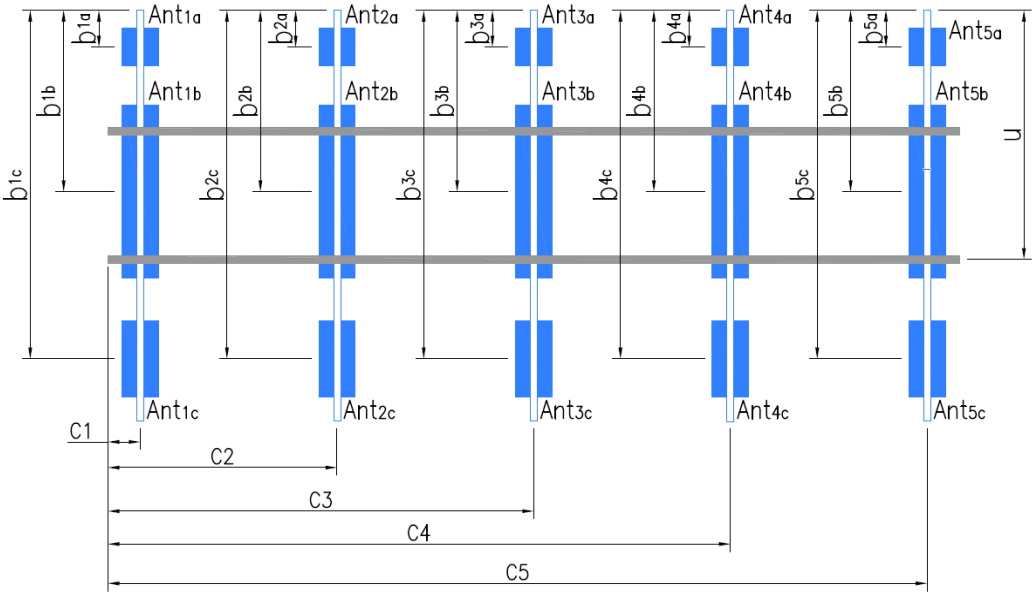
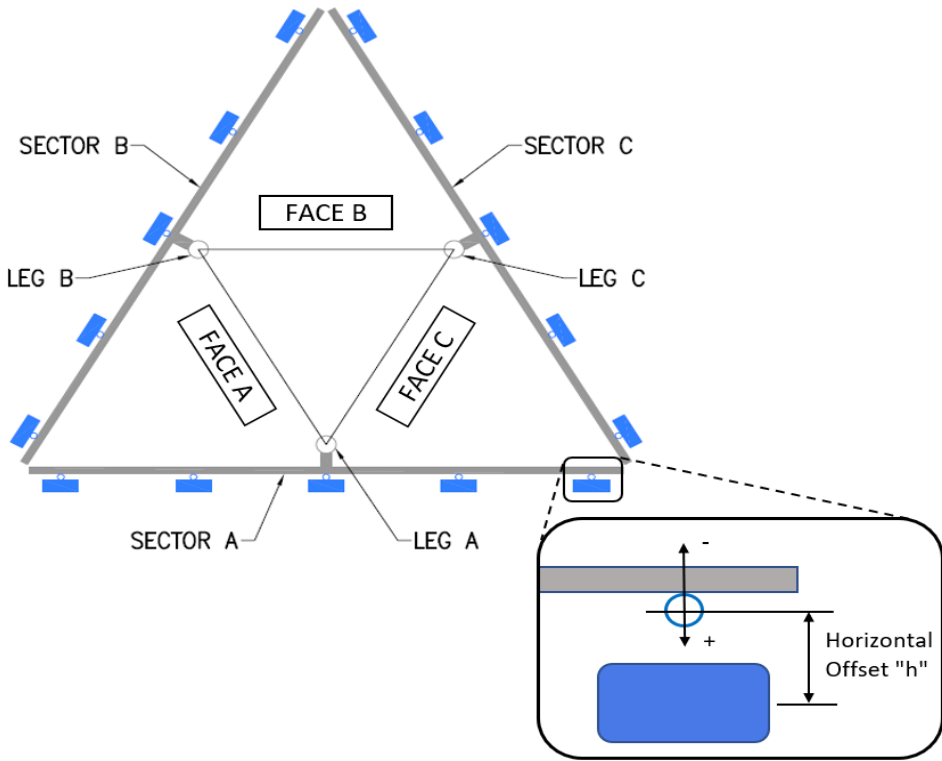
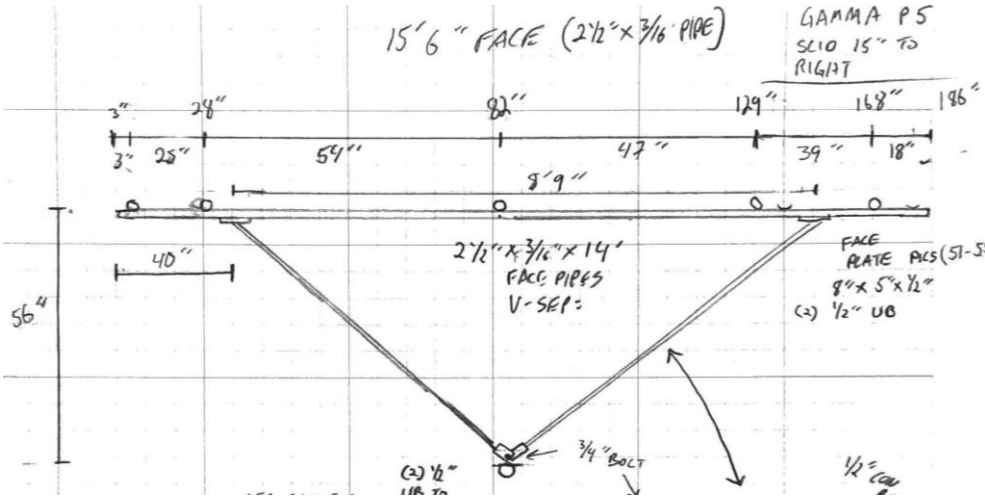
Mapping Date:	3/30/2021
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Tower Type:	Self Support
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Tower Height (Ft.):	150
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Mount Elevation (Ft.):	111.7
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Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2" STD. PIPE X84" LONG	65.00	3.00	C1	2" STD. PIPE X84" LONG	65.00	3.00
A2	2" E.H. PIPE X96" LONG	58.00	28.00	C2	2" E.H. PIPE X96" LONG	58.00	28.00
A3	2" STD. PIPE X84" LONG	65.00	82.00	C3	2" STD. PIPE X84" LONG	65.00	82.00
A4	2" STD. PIPE X60" LONG	56.00	129.00	C4	2" STD. PIPE X60" LONG	56.00	129.00
A5	2" STD. PIPE X84" LONG	65.00	168.00	C5	2" STD. PIPE X84" LONG	65.00	183.00
A6				C6			
B1	2" STD. PIPE X84" LONG	65.00	3.00	D1			
B2	2" E.H. PIPE X96" LONG	58.00	28.00	D2			
B3	2" STD. PIPE X84" LONG	65.00	82.00	D3			
B4	2" STD. PIPE X60" LONG	56.00	129.00	D4			
B5	2" STD. PIPE X84" LONG	65.00	168.00	D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):		5.8	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):				2.5

[illegible]

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

1	(12) 7/8" COAX, (2) 1-1/2" HYBRID, (1) 1/2" SUPERFLEX	
2	Antenna and radio touching on GAMMA pos. 5	72
3		
4		
5		
6		
7		
8		

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



Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	CROWN CASTLE	Mapping Date:	3/30/2021
Site Name:	VERNON CT	Tower Type:	Self Support
Site Number or ID:	469068	Tower Height (Ft.):	150
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	111.75

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Please Insert Sketches of the Antenna Mount

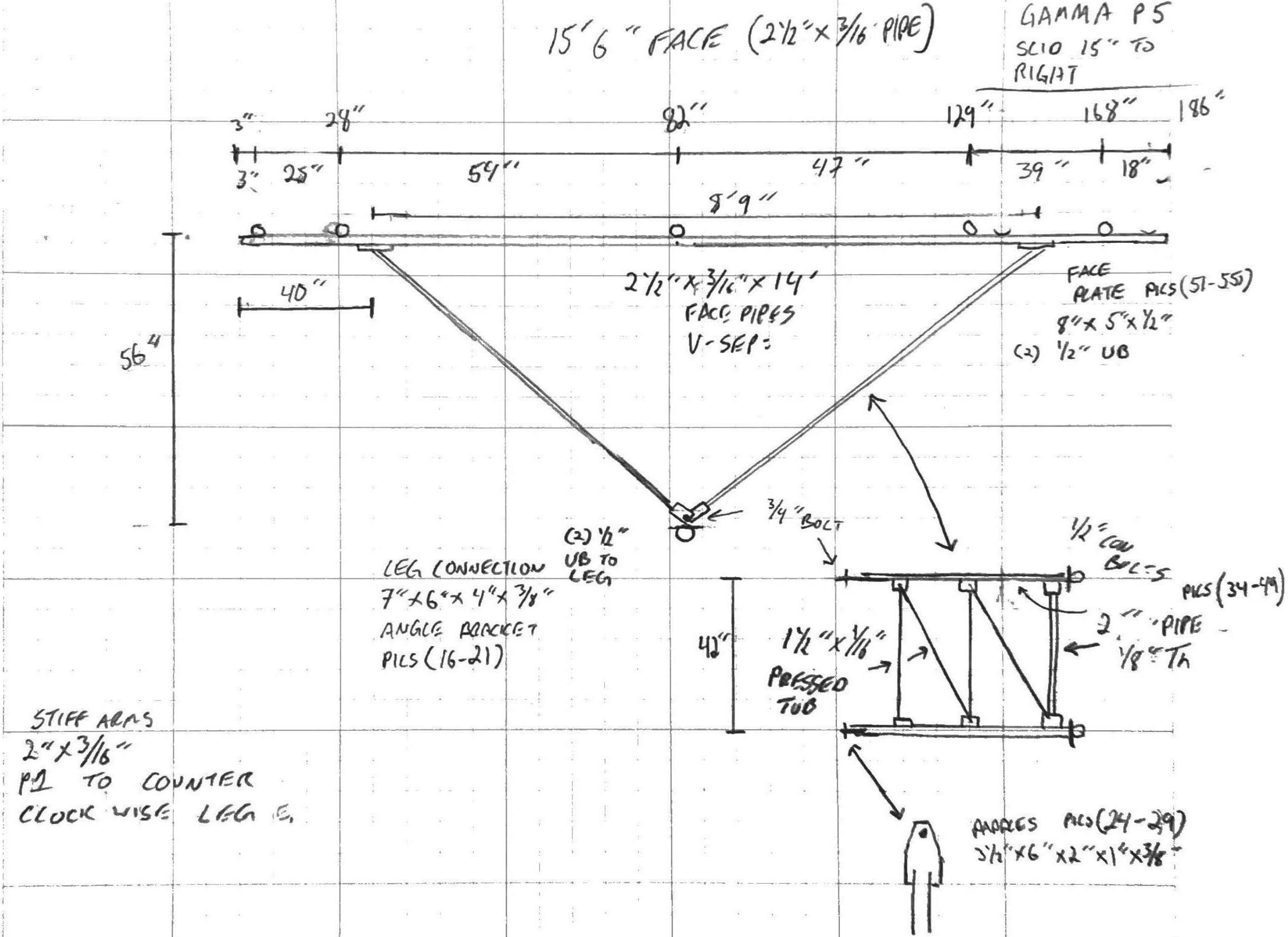
DATE: _____
Project Name: _____
Project No.: VERNON CT
Design By: 10 Chk'd By: _____ Page 2 of 2



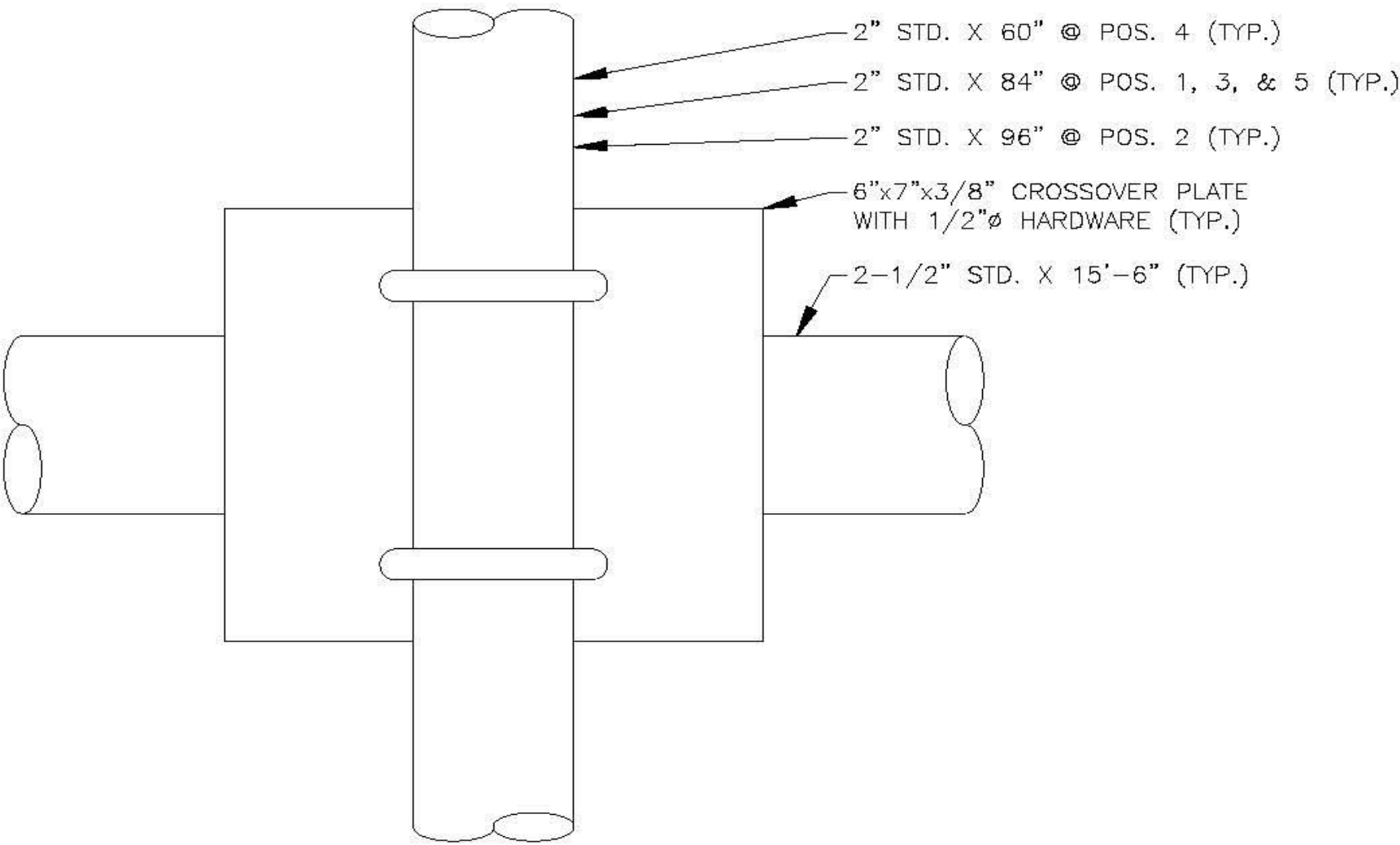
HUDSON
Design Group LLC

45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845

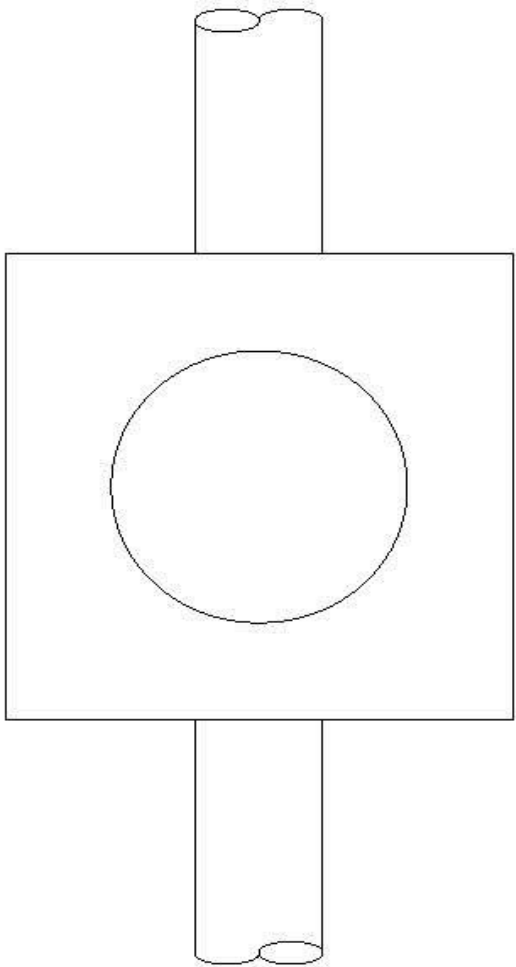
TEL: (978) 557-5553
FAX: (978) 336-5586



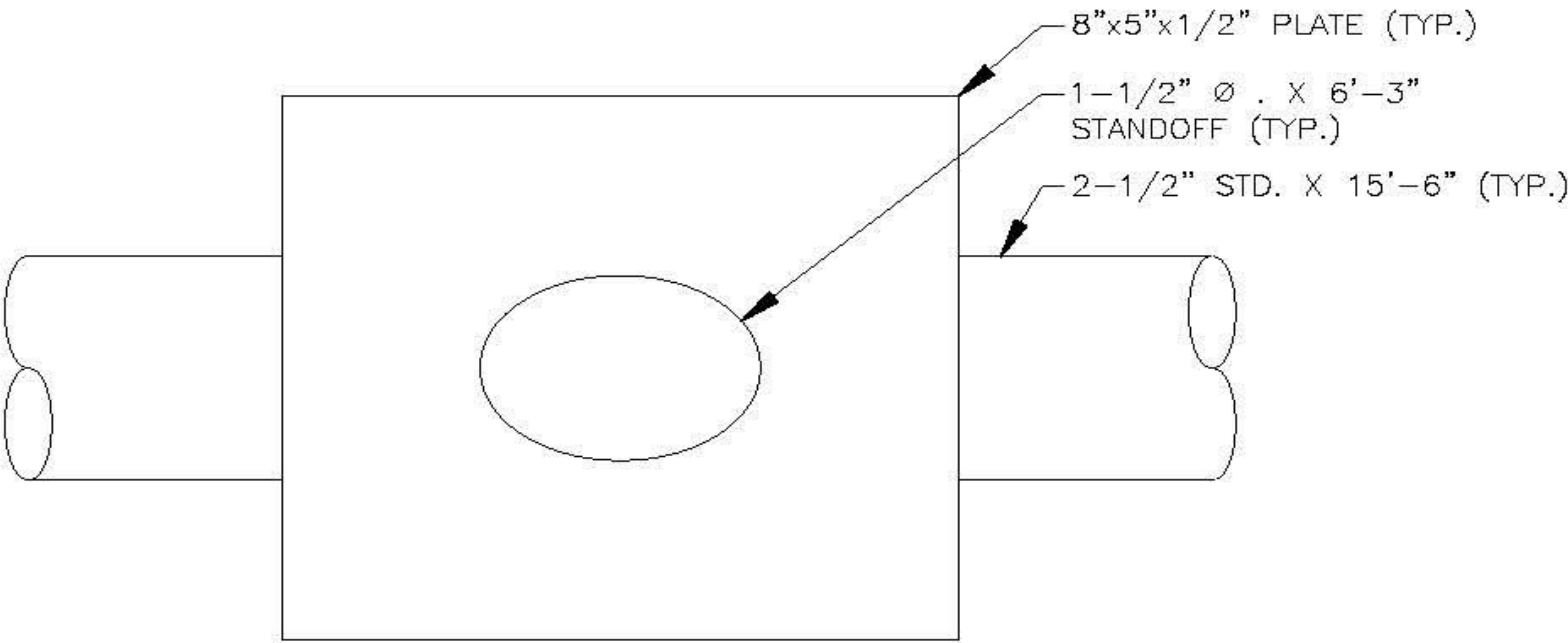
Please Insert Sketches of the Antenna Mount, cont'd



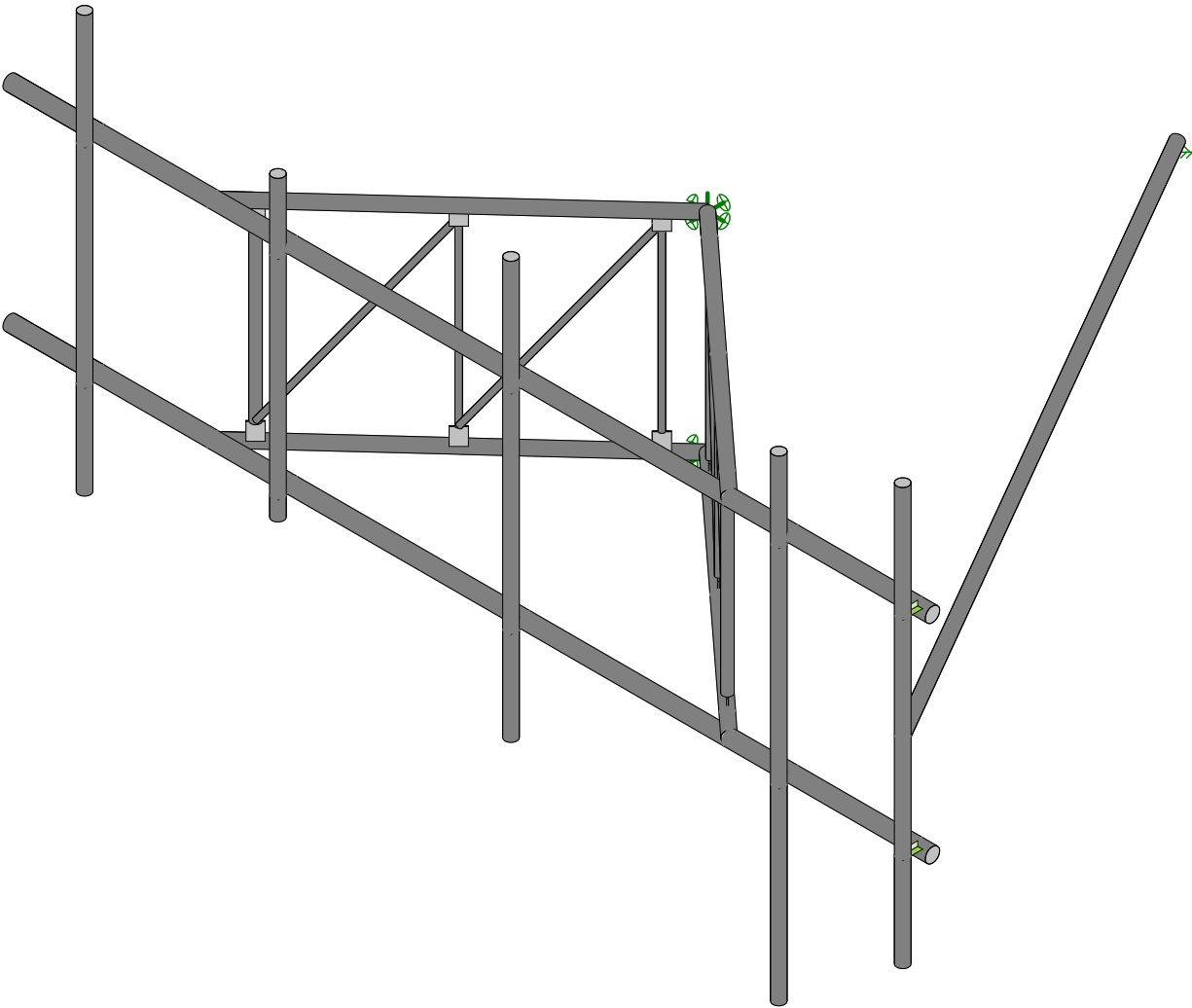
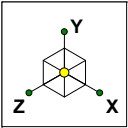
DETAIL C



STIFF ARM MOUNTING PLATE DETAIL

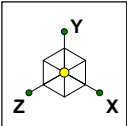


STANDOFF MOUNTING PLATE DETAIL



Envelope Only Solution

Network Building and Con...	469068-VZW_MT_LOT_SectorA_H Rendering	SK - 1
Connor Rice		May 5, 2021 at 12:10 PM
100719		469068-VZW_MT_LOT_A_H.r3d



Code Check
(Env)

No Calc

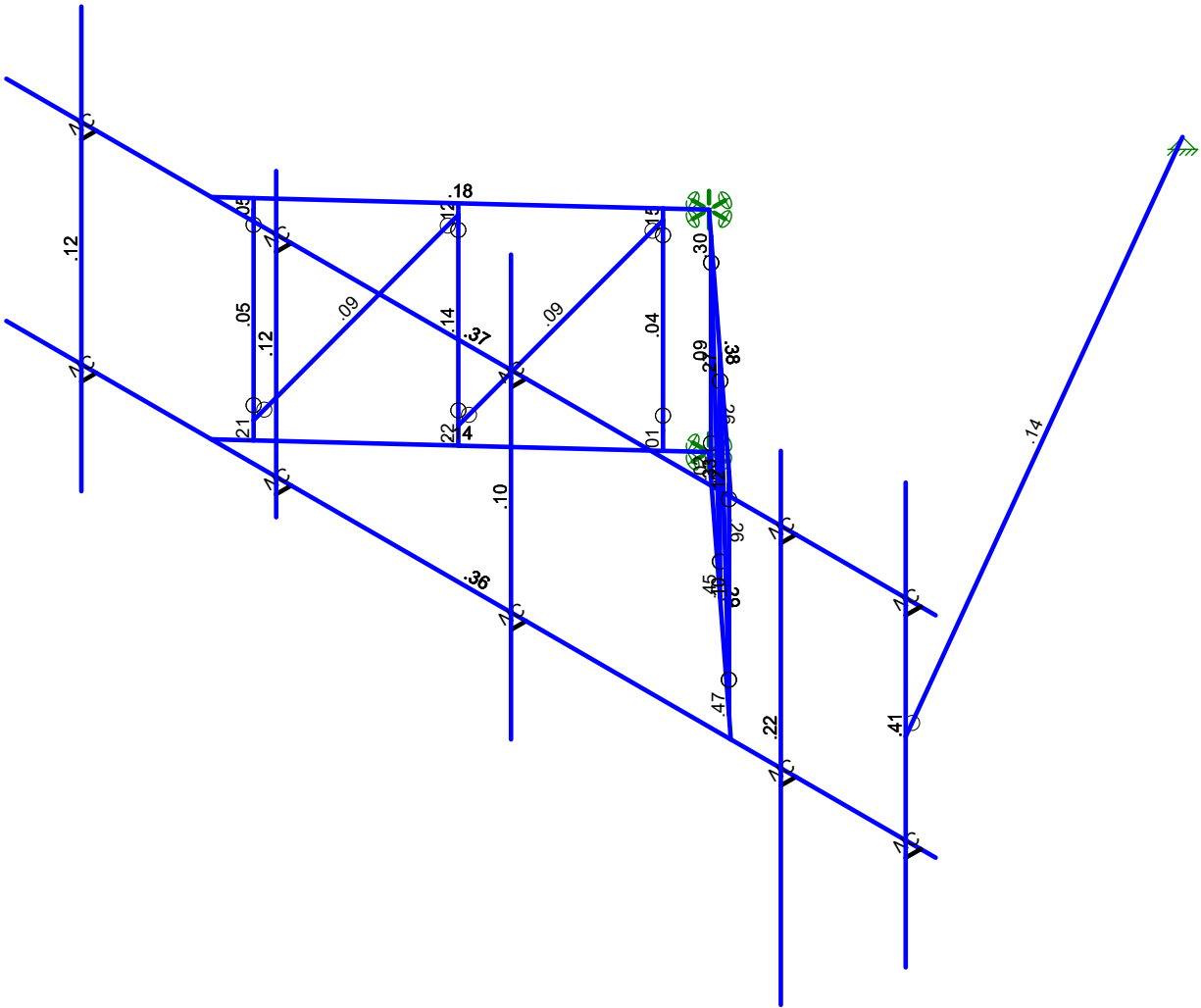
> 1.0

.90-1.0

.75-.90

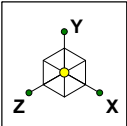
.50-.75

0.-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Network Building and Con...	469068-VZW_MT_LOT_SectorA_H Code Check	SK - 2
Connor Rice		May 5, 2021 at 12:10 PM
100719		469068-VZW_MT_LOT_A_H.r3d



Shear Check
(Env)

No Calc

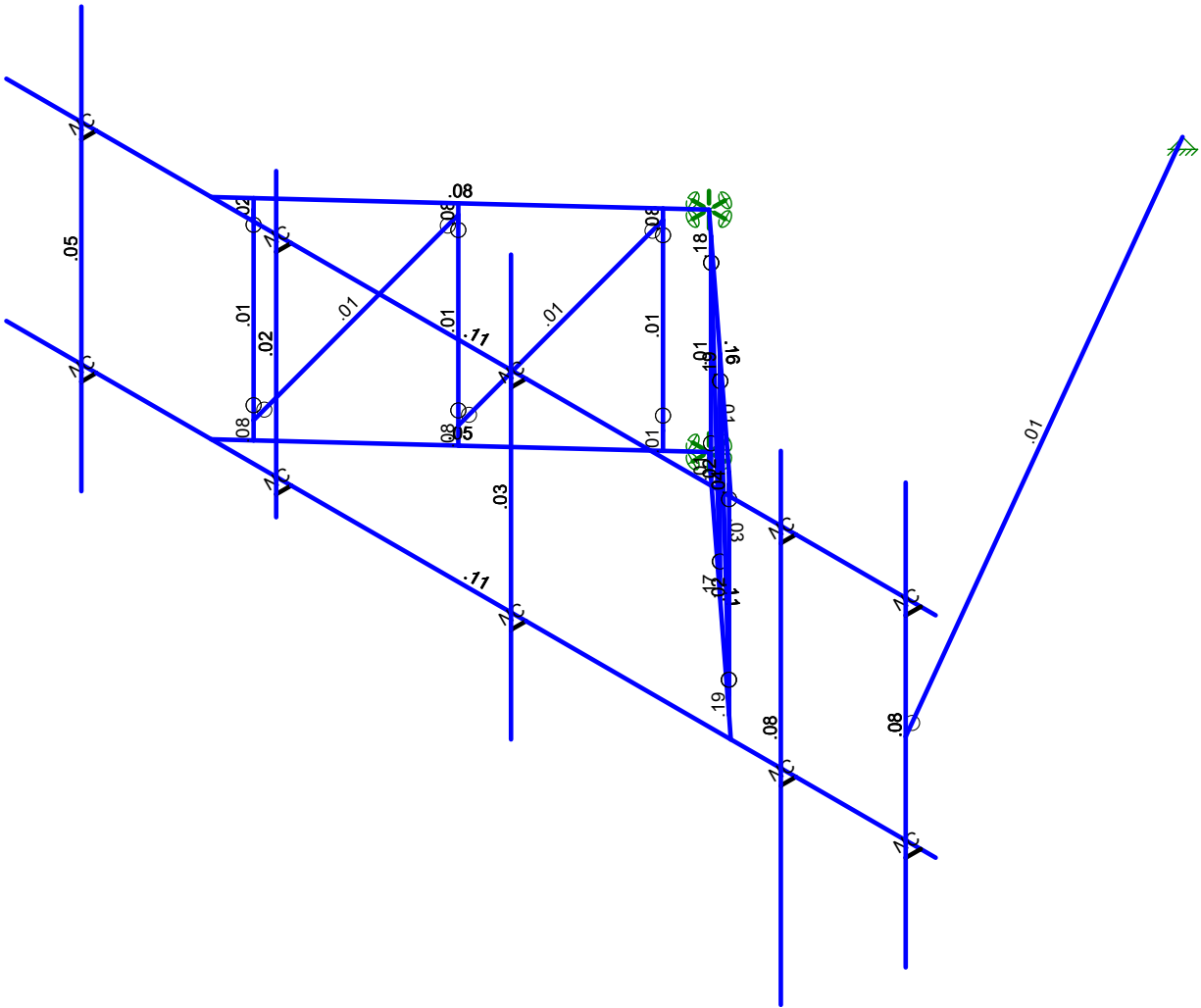
> 1.0

.90-1.0

.75-.90

.50-.75

0.-.50



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Network Building and Con...	469068-VZW_MT_LOT_SectorA_H Shear Check	SK - 3
Connor Rice		May 5, 2021 at 12:11 PM
100719		469068-VZW_MT_LOT_A_H.r3d



Company : Network Building and Consulting
 Designer : Connor Rice
 Job Number : 100719
 Model Name : 469068-VZW_MT_LOT_SectorA_H

May 5, 2021
 12:11 PM
 Checked By: _____

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(M...	Surface...
1	Antenna D	None					36			
2	Antenna Di	None					36			
3	Antenna Wo (0 D...	None					36			
4	Antenna Wo (30 ...	None					36			
5	Antenna Wo (60 ...	None					36			
6	Antenna Wo (90 ...	None					36			
7	Antenna Wo (120 ...	None					36			
8	Antenna Wo (150 ...	None					36			
9	Antenna Wo (180 ...	None					36			
10	Antenna Wo (210 ...	None					36			
11	Antenna Wo (240 ...	None					36			
12	Antenna Wo (270 ...	None					36			
13	Antenna Wo (300 ...	None					36			
14	Antenna Wo (330 ...	None					36			
15	Antenna Wi (0 De...	None					36			
16	Antenna Wi (30 D...	None					36			
17	Antenna Wi (60 D...	None					36			
18	Antenna Wi (90 D...	None					36			
19	Antenna Wi (120 ...	None					36			
20	Antenna Wi (150 ...	None					36			
21	Antenna Wi (180 ...	None					36			
22	Antenna Wi (210 ...	None					36			
23	Antenna Wi (240 ...	None					36			
24	Antenna Wi (270 ...	None					36			
25	Antenna Wi (300 ...	None					36			
26	Antenna Wi (330 ...	None					36			
27	Antenna Wm (0 D...	None					36			
28	Antenna Wm (30 ...	None					36			
29	Antenna Wm (60 ...	None					36			
30	Antenna Wm (90 ...	None					36			
31	Antenna Wm (120...	None					36			
32	Antenna Wm (150...	None					36			
33	Antenna Wm (180...	None					36			
34	Antenna Wm (210...	None					36			
35	Antenna Wm (240...	None					36			
36	Antenna Wm (270...	None					36			
37	Antenna Wm (300...	None					36			
38	Antenna Wm (330...	None					36			
39	Structure D	None		-1						
40	Structure Di	None						34		
41	Structure Wo (0 ...	None						68		
42	Structure Wo (30...	None						68		
43	Structure Wo (60...	None						68		
44	Structure Wo (90...	None						68		
45	Structure Wo (12...	None						68		
46	Structure Wo (15...	None						68		
47	Structure Wo (18...	None						68		
48	Structure Wo (21...	None						68		
49	Structure Wo (24...	None						68		
50	Structure Wo (27...	None						68		
51	Structure Wo (30...	None						68		
52	Structure Wo (33...	None						68		
53	Structure Wi (0 D...	None						68		
54	Structure Wi (30 ...	None						68		
55	Structure Wi (60 ...	None						68		
56	Structure Wi (90 ...	None						68		



Company : Network Building and Consulting
 Designer : Connor Rice
 Job Number : 100719
 Model Name : 469068-VZW_MT_LOT_SectorA_H

May 5, 2021
 12:11 PM
 Checked By: _____

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(M...	Surface...
57	Structure Wi (120...	None						68		
58	Structure Wi (150...	None						68		
59	Structure Wi (180...	None						68		
60	Structure Wi (210...	None						68		
61	Structure Wi (240...	None						68		
62	Structure Wi (270...	None						68		
63	Structure Wi (300...	None						68		
64	Structure Wi (330...	None						68		
65	Structure Wm (0 ...	None						68		
66	Structure Wm (3...	None						68		
67	Structure Wm (6...	None						68		
68	Structure Wm (9...	None						68		
69	Structure Wm (1...	None						68		
70	Structure Wm (1...	None						68		
71	Structure Wm (1...	None						68		
72	Structure Wm (2...	None						68		
73	Structure Wm (2...	None						68		
74	Structure Wm (2...	None						68		
75	Structure Wm (3...	None						68		
76	Structure Wm (3...	None						68		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			

Load Combinations

	Description	So...	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
1	1.2D+1.0Wo (0 D...	Yes	Y		1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0Wo (30 ...	Yes	Y		1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0Wo (60 ...	Yes	Y		1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0Wo (90 ...	Yes	Y		1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0Wo (120...	Yes	Y		1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0Wo (150...	Yes	Y		1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0Wo (180...	Yes	Y		1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0Wo (210...	Yes	Y		1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0Wo (240...	Yes	Y		1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0Wo (270...	Yes	Y		1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0Wo (300...	Yes	Y		1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0Wo (330...	Yes	Y		1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1						
26	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1						
27	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1						
28	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1						



Company : Network Building and Consulting
 Designer : Connor Rice
 Job Number : 100719
 Model Name : 469068-VZW_MT_LOT_SectorA_H

May 5, 2021
 12:11 PM
 Checked By: _____

Load Combinations (Continued)

	Description	So...	PDelta	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
29	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1			
30	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1			
31	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1			
32	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1			
33	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1			
34	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1			
35	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1			
36	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1			
37	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1			
38	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1			
39	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1			
40	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1			
41	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1			
42	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1			
43	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1			
44	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1			
45	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1			
46	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1			
47	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1			
48	1.2D + 1.5Lm2 + ...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1			
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5							
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5							
51	1.4D	Yes	Y		1	1.4	39	1.4									
52	Seismic Mass		Y		1	1	39	1									
53	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1			
54	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866			
55	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5			
56	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ				
57	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5			
58	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866			
59	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1			
60	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866			
61	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5			
62	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ				
63	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5			
64	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866			

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-0.735497	-0.083333	13.426774	0	
2	N2	14.764503	-0.083333	13.426774	0	
3	N3	-0.735497	3.416667	13.426774	0	
4	N4	14.764503	3.416667	13.426774	0	
5	N5	7.93117	3.416667	13.426774	0	
6	N6	7.93117	3.416667	13.676774	0	
7	N7	7.93117	-0.083333	13.426774	0	
8	N8	7.93117	-0.083333	13.676774	0	
9	N9	0.764503	3.416667	13.426774	0	
10	N10	0.764503	3.416667	13.676774	0	
11	N11	0.764503	-0.083333	13.426774	0	
12	N12	0.764503	-0.083333	13.676774	0	
13	N13	12.43117	3.416667	13.426774	0	
14	N14	12.43117	3.416667	13.676774	0	
15	N15	12.43117	-0.083333	13.426774	0	
16	N16	12.43117	-0.083333	13.676774	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N17	14.514503	3.416667	13.426774	0	
18	N18	14.514503	3.416667	13.676774	0	
19	N19	14.514503	-0.083333	13.426774	0	
20	N20	14.514504	-0.083333	13.676774	0	
21	N21	0.764503	5.333333	13.676774	0	
22	N22	0.764503	-1.666667	13.676774	0	
23	N23	7.93117	5.333333	13.676774	0	
24	N24	7.93117	-1.666667	13.676774	0	
25	N25	12.43117	4.75	13.676774	0	
26	N26	12.43117	-3.25	13.676774	0	
27	N27	14.514503	5.333333	13.676774	0	
28	N28	14.514503	-1.666667	13.676774	0	
29	N29	2.68117	3.416667	13.426774	0	
30	N30	7.014503	3.416667	9.459274	0	
31	N31	2.68117	-0.083333	13.426774	0	
32	N32	7.014503	-0.083333	9.459274	0	
33	N33	11.347837	-0.083333	13.426774	0	
34	N34	3.049947	3.416667	13.08913	0	
35	N35	4.83237	-0.083333	11.457185	0	
36	N36	6.614793	-0.083333	9.825239	0	
37	N37	11.347837	3.416667	13.426774	0	
38	N38	10.97906	3.416667	13.08913	0	
39	N39	7.414214	-0.083333	9.825239	0	
40	N40	9.196637	3.416667	11.457185	0	
41	N41	9.196637	-0.083333	11.457185	0	
42	N42	6.614793	3.416667	9.825239	0	
43	N43	4.847837	-0.083333	11.443024	0	
44	N44	4.83237	3.416667	11.457185	0	
45	N45	3.049947	-0.083333	13.08913	0	
46	N46	7.414214	3.416667	9.825239	0	
47	N47	9.18117	-0.083333	11.443024	0	
48	N48	9.18117	3.416667	11.443024	0	
49	N49	10.97906	-0.083333	13.08913	0	
50	N53	4.014503	3.416667	13.426774	0	
51	N54	4.014503	3.416667	13.676774	0	
52	N55	4.014503	-0.083333	13.426774	0	
53	N56	4.014503	-0.083333	13.676774	0	
54	N57	4.014503	4.583333	13.676774	0	
55	N58	4.014503	-0.416667	13.676774	0	
56	N59	14.514504	1.666667	13.676774	0	
57	N58A	9.914503	3.416667	4.459274	0	
58	N58B	3.049947	3.125	13.08913	0	
59	N59A	10.97906	3.125	13.08913	0	
60	N60	9.196637	3.125	11.457185	0	
61	N61	6.614793	3.125	9.825239	0	
62	N62	4.83237	3.125	11.457185	0	
63	N63	7.414214	3.125	9.825239	0	
64	N64	3.049947	3.25	13.08913	0	
65	N65	10.97906	3.25	13.08913	0	
66	N66	9.196637	3.25	11.457185	0	
67	N67	6.614793	3.25	9.825239	0	
68	N68	4.83237	3.25	11.457185	0	
69	N69	7.414214	3.25	9.825239	0	
70	N70	3.049947	0.208333	13.08913	0	
71	N71	10.97906	0.208333	13.08913	0	
72	N72	9.196637	0.208333	11.457185	0	
73	N73	6.614793	0.208333	9.825239	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
74	N74	4.83237	0.208333	11.457185	0	
75	N75	7.414214	0.208333	9.825239	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
2	2" Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Stabilizer	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
4	Standoff	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
5	Standoff Vertical Bracing	PIPE 1.5	Column	Pipe	A53 Gr.B	Typical	.749	.293	.293	.586
6	Standoff Diagonal Bracing	PIPE .75	VBrace	Pipe	A53 Gr.B	Typical	.312	.035	.035	.07
7	Pos 2 Mount Pipe	PIPE 2.0X	VBrace	Pipe	A53 Gr.B	Typical	1.4	.827	.827	1.65
8	Gusset	PL2.75x1/4	Beam	RECT	A36 Gr.36	Typical	.688	.004	.433	.014

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	FH2	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	FH1	N3	N4			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
3	M3	N5	N6			RIGID	None	None	RIGID	Typical
4	M4	N7	N8			RIGID	None	None	RIGID	Typical
5	M5	N9	N10			RIGID	None	None	RIGID	Typical
6	M6	N11	N12			RIGID	None	None	RIGID	Typical
7	M7	N13	N14			RIGID	None	None	RIGID	Typical
8	M8	N15	N16			RIGID	None	None	RIGID	Typical
9	M9	N17	N18			RIGID	None	None	RIGID	Typical
10	M10	N19	N20			RIGID	None	None	RIGID	Typical
11	MP5A	N21	N22			2" Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	MP3A	N23	N24			2" Mount Pipe	Column	Pipe	A53 Gr.B	Typical
13	MP2A	N25	N26			Pos 2 Mount P...	VBrace	Pipe	A53 Gr.B	Typical
14	MP1A	N27	N28			2" Mount Pipe	Column	Pipe	A53 Gr.B	Typical
15	SH1	N30	N29			Standoff	Beam	Pipe	A53 Gr.B	Typical
16	SH3	N30	N37			Standoff	Beam	Pipe	A53 Gr.B	Typical
17	SH2	N32	N31			Standoff	Beam	Pipe	A53 Gr.B	Typical
18	SH4	N32	N33			Standoff	Beam	Pipe	A53 Gr.B	Typical
19	V1	N64	N70			Standoff Vertic...	Column	Pipe	A53 Gr.B	Typical
20	V2	N68	N74			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
21	V3	N67	N73			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
22	V6	N65	N71			Standoff Vertic...	Column	Pipe	A53 Gr.B	Typical
23	V4	N69	N75			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
24	V5	N66	N72			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
25	D2	N67	N74			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
26	D1	N68	N70			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
27	D3	N69	N72			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
28	D4	N66	N71			Standoff Diago...	VBrace	Pipe	A53 Gr.B	Typical
29	M31	N53	N54			RIGID	None	None	RIGID	Typical
30	M32	N55	N56			RIGID	None	None	RIGID	Typical
31	MP4A	N57	N58			2" Mount Pipe	Column	Pipe	A53 Gr.B	Typical
32	M33	N59	N58A			Stabilizer	Beam	Pipe	A53 Gr.B	Typical
33	M33A	N34	N58B		315	Gusset	Beam	RECT	A36 Gr.36	Typical
34	M34	N44	N62		315	Gusset	Beam	RECT	A36 Gr.36	Typical
35	M35	N42	N61		315	Gusset	Beam	RECT	A36 Gr.36	Typical
36	M36	N46	N63		45	Gusset	Beam	RECT	A36 Gr.36	Typical
37	M37	N40	N60		45	Gusset	Beam	RECT	A36 Gr.36	Typical
38	M38	N38	N59A		45	Gusset	Beam	RECT	A36 Gr.36	Typical
39	M39	N70	N45		315	Gusset	Beam	RECT	A36 Gr.36	Typical
40	M40	N74	N35		315	Gusset	Beam	RECT	A36 Gr.36	Typical
41	M41	N73	N36		315	Gusset	Beam	RECT	A36 Gr.36	Typical
42	M42	N75	N39		45	Gusset	Beam	RECT	A36 Gr.36	Typical
43	M43	N72	N41		45	Gusset	Beam	RECT	A36 Gr.36	Typical
44	M44	N71	N49		45	Gusset	Beam	RECT	A36 Gr.36	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	FH2						Yes				None
2	FH1						Yes				None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M7						Yes	** NA **			None
8	M8						Yes	** NA **			None
9	M9						Yes	** NA **			None
10	M10						Yes	** NA **			None
11	MP5A						Yes	** NA **			None
12	MP3A						Yes	** NA **			None
13	MP2A						Yes	** NA **			None
14	MP1A						Yes	** NA **			None
15	SH1						Yes				None
16	SH3						Yes				None
17	SH2						Yes				None
18	SH4						Yes				None
19	V1	BenPIN	BenPIN				Yes	** NA **			None
20	V2	BenPIN	BenPIN				Yes	** NA **			None
21	V3	BenPIN	BenPIN				Yes	** NA **			None
22	V6	BenPIN	BenPIN				Yes	** NA **			None
23	V4	BenPIN	BenPIN				Yes	** NA **			None
24	V5	BenPIN	BenPIN				Yes	** NA **			None
25	D2	BenPIN	BenPIN				Yes	** NA **			None
26	D1	BenPIN	BenPIN				Yes	** NA **			None
27	D3	BenPIN	BenPIN				Yes	** NA **			None
28	D4	BenPIN	BenPIN				Yes	** NA **			None
29	M31						Yes	** NA **			None
30	M32						Yes	** NA **			None
31	MP4A						Yes	** NA **			None
32	M33	OOOOXO					Yes	Default			None
33	M33A						Yes				None
34	M34						Yes				None



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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	M35						Yes				None
36	M36						Yes				None
37	M37						Yes				None
38	M38						Yes				None
39	M39						Yes				None
40	M40						Yes				None
41	M41						Yes				None
42	M42						Yes				None
43	M43						Yes				None
44	M44						Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	Y	-16.55	.5
2	MP5A	My	-.014	.5
3	MP5A	Mz	0	.5
4	MP5A	Y	-16.55	6.5
5	MP5A	My	-.014	6.5
6	MP5A	Mz	0	6.5
7	MP2A	Y	-20	.5
8	MP2A	My	-.018	.5
9	MP2A	Mz	.013	.5
10	MP2A	Y	-20	6.5
11	MP2A	My	-.018	6.5
12	MP2A	Mz	.013	6.5
13	MP2A	Y	-20	.5
14	MP2A	My	-.018	.5
15	MP2A	Mz	-.013	.5
16	MP2A	Y	-20	6.5
17	MP2A	My	-.018	6.5
18	MP2A	Mz	-.013	6.5
19	MP3A	Y	-43.55	1
20	MP3A	My	-.022	1
21	MP3A	Mz	0	1
22	MP3A	Y	-43.55	3
23	MP3A	My	-.022	3
24	MP3A	Mz	0	3
25	MP1A	Y	-84.4	3
26	MP1A	My	.049	3
27	MP1A	Mz	0	3
28	MP2A	Y	-70.3	3
29	MP2A	My	.041	3
30	MP2A	Mz	0	3
31	MP3A	Y	-9.35	5
32	MP3A	My	-.005	5
33	MP3A	Mz	0	5
34	MP3A	Y	-9.35	6
35	MP3A	My	-.005	6
36	MP3A	Mz	0	6

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	Y	-88.639	.5
2	MP5A	My	-.078	.5
3	MP5A	Mz	0	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
4	MP5A	Y	-88.639	6.5
5	MP5A	My	-.078	6.5
6	MP5A	Mz	0	6.5
7	MP2A	Y	-94.471	.5
8	MP2A	My	-.083	.5
9	MP2A	Mz	.063	.5
10	MP2A	Y	-94.471	6.5
11	MP2A	My	-.083	6.5
12	MP2A	Mz	.063	6.5
13	MP2A	Y	-94.471	.5
14	MP2A	My	-.083	.5
15	MP2A	Mz	-.063	.5
16	MP2A	Y	-94.471	6.5
17	MP2A	My	-.083	6.5
18	MP2A	Mz	-.063	6.5
19	MP3A	Y	-55.33	1
20	MP3A	My	-.028	1
21	MP3A	Mz	0	1
22	MP3A	Y	-55.33	3
23	MP3A	My	-.028	3
24	MP3A	Mz	0	3
25	MP1A	Y	-70.293	3
26	MP1A	My	.041	3
27	MP1A	Mz	0	3
28	MP2A	Y	-63.452	3
29	MP2A	My	.037	3
30	MP2A	Mz	0	3
31	MP3A	Y	-16.493	5
32	MP3A	My	-.008	5
33	MP3A	Mz	0	5
34	MP3A	Y	-16.493	6
35	MP3A	My	-.008	6
36	MP3A	Mz	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	0	.5
2	MP5A	Z	-130.583	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	-130.583	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	-125.065	.5
9	MP2A	Mx	-.083	.5
10	MP2A	X	0	6.5
11	MP2A	Z	-125.065	6.5
12	MP2A	Mx	-.083	6.5
13	MP2A	X	0	.5
14	MP2A	Z	-125.065	.5
15	MP2A	Mx	.083	.5
16	MP2A	X	0	6.5
17	MP2A	Z	-125.065	6.5
18	MP2A	Mx	.083	6.5
19	MP3A	X	0	1
20	MP3A	Z	-72.035	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
21	MP3A	Mx	0	1
22	MP3A	X	0	3
23	MP3A	Z	-72.035	3
24	MP3A	Mx	0	3
25	MP1A	X	0	3
26	MP1A	Z	-57.321	3
27	MP1A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	-57.321	3
30	MP2A	Mx	0	3
31	MP3A	X	0	5
32	MP3A	Z	-15.327	5
33	MP3A	Mx	0	5
34	MP3A	X	0	6
35	MP3A	Z	-15.327	6
36	MP3A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	58.492	.5
2	MP5A	Z	-101.312	.5
3	MP5A	Mx	-.051	.5
4	MP5A	X	58.492	6.5
5	MP5A	Z	-101.312	6.5
6	MP5A	Mx	-.051	6.5
7	MP2A	X	57.238	.5
8	MP2A	Z	-99.139	.5
9	MP2A	Mx	-.116	.5
10	MP2A	X	57.238	6.5
11	MP2A	Z	-99.139	6.5
12	MP2A	Mx	-.116	6.5
13	MP2A	X	57.238	.5
14	MP2A	Z	-99.139	.5
15	MP2A	Mx	.016	.5
16	MP2A	X	57.238	6.5
17	MP2A	Z	-99.139	6.5
18	MP2A	Mx	.016	6.5
19	MP3A	X	30.538	1
20	MP3A	Z	-52.894	1
21	MP3A	Mx	-.015	1
22	MP3A	X	30.538	3
23	MP3A	Z	-52.894	3
24	MP3A	Mx	-.015	3
25	MP1A	X	26.285	3
26	MP1A	Z	-45.527	3
27	MP1A	Mx	.015	3
28	MP2A	X	25.375	3
29	MP2A	Z	-43.951	3
30	MP2A	Mx	.015	3
31	MP3A	X	6.828	5
32	MP3A	Z	-11.826	5
33	MP3A	Mx	-.003	5
34	MP3A	X	6.828	6
35	MP3A	Z	-11.826	6
36	MP3A	Mx	-.003	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	77.759	.5
2	MP5A	Z	-44.894	.5
3	MP5A	Mx	-.068	.5
4	MP5A	X	77.759	6.5
5	MP5A	Z	-44.894	6.5
6	MP5A	Mx	-.068	6.5
7	MP2A	X	80.797	.5
8	MP2A	Z	-46.648	.5
9	MP2A	Mx	-.102	.5
10	MP2A	X	80.797	6.5
11	MP2A	Z	-46.648	6.5
12	MP2A	Mx	-.102	6.5
13	MP2A	X	80.797	.5
14	MP2A	Z	-46.648	.5
15	MP2A	Mx	-.04	.5
16	MP2A	X	80.797	6.5
17	MP2A	Z	-46.648	6.5
18	MP2A	Mx	-.04	6.5
19	MP3A	X	33.913	1
20	MP3A	Z	-19.58	1
21	MP3A	Mx	-.017	1
22	MP3A	X	33.913	3
23	MP3A	Z	-19.58	3
24	MP3A	Mx	-.017	3
25	MP1A	X	37.298	3
26	MP1A	Z	-21.534	3
27	MP1A	Mx	.022	3
28	MP2A	X	32.569	3
29	MP2A	Z	-18.804	3
30	MP2A	Mx	.019	3
31	MP3A	X	8.93	5
32	MP3A	Z	-5.156	5
33	MP3A	Mx	-.004	5
34	MP3A	X	8.93	6
35	MP3A	Z	-5.156	6
36	MP3A	Mx	-.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	76.19	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	-.067	.5
4	MP5A	X	76.19	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	-.067	6.5
7	MP2A	X	82.706	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.072	.5
10	MP2A	X	82.706	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.072	6.5
13	MP2A	X	82.706	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	-.072	.5
16	MP2A	X	82.706	6.5
17	MP2A	Z	0	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
18	MP2A	Mx	-.072	6.5
19	MP3A	X	28.202	1
20	MP3A	Z	0	1
21	MP3A	Mx	-.014	1
22	MP3A	X	28.202	3
23	MP3A	Z	0	3
24	MP3A	Mx	-.014	3
25	MP1A	X	38.316	3
26	MP1A	Z	0	3
27	MP1A	Mx	.022	3
28	MP2A	X	31.036	3
29	MP2A	Z	0	3
30	MP2A	Mx	.018	3
31	MP3A	X	8.64	5
32	MP3A	Z	0	5
33	MP3A	Mx	-.004	5
34	MP3A	X	8.64	6
35	MP3A	Z	0	6
36	MP3A	Mx	-.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	77.759	.5
2	MP5A	Z	44.894	.5
3	MP5A	Mx	-.068	.5
4	MP5A	X	77.759	6.5
5	MP5A	Z	44.894	6.5
6	MP5A	Mx	-.068	6.5
7	MP2A	X	80.797	.5
8	MP2A	Z	46.648	.5
9	MP2A	Mx	-.04	.5
10	MP2A	X	80.797	6.5
11	MP2A	Z	46.648	6.5
12	MP2A	Mx	-.04	6.5
13	MP2A	X	80.797	.5
14	MP2A	Z	46.648	.5
15	MP2A	Mx	-.102	.5
16	MP2A	X	80.797	6.5
17	MP2A	Z	46.648	6.5
18	MP2A	Mx	-.102	6.5
19	MP3A	X	33.913	1
20	MP3A	Z	19.58	1
21	MP3A	Mx	-.017	1
22	MP3A	X	33.913	3
23	MP3A	Z	19.58	3
24	MP3A	Mx	-.017	3
25	MP1A	X	37.298	3
26	MP1A	Z	21.534	3
27	MP1A	Mx	.022	3
28	MP2A	X	32.569	3
29	MP2A	Z	18.804	3
30	MP2A	Mx	.019	3
31	MP3A	X	8.93	5
32	MP3A	Z	5.156	5
33	MP3A	Mx	-.004	5
34	MP3A	X	8.93	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
35	MP3A	Z	5.156	6
36	MP3A	Mx	-.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	58.492	.5
2	MP5A	Z	101.312	.5
3	MP5A	Mx	-.051	.5
4	MP5A	X	58.492	6.5
5	MP5A	Z	101.312	6.5
6	MP5A	Mx	-.051	6.5
7	MP2A	X	57.238	.5
8	MP2A	Z	99.139	.5
9	MP2A	Mx	.016	.5
10	MP2A	X	57.238	6.5
11	MP2A	Z	99.139	6.5
12	MP2A	Mx	.016	6.5
13	MP2A	X	57.238	.5
14	MP2A	Z	99.139	.5
15	MP2A	Mx	-.116	.5
16	MP2A	X	57.238	6.5
17	MP2A	Z	99.139	6.5
18	MP2A	Mx	-.116	6.5
19	MP3A	X	30.538	1
20	MP3A	Z	52.894	1
21	MP3A	Mx	-.015	1
22	MP3A	X	30.538	3
23	MP3A	Z	52.894	3
24	MP3A	Mx	-.015	3
25	MP1A	X	26.285	3
26	MP1A	Z	45.527	3
27	MP1A	Mx	.015	3
28	MP2A	X	25.375	3
29	MP2A	Z	43.951	3
30	MP2A	Mx	.015	3
31	MP3A	X	6.828	5
32	MP3A	Z	11.826	5
33	MP3A	Mx	-.003	5
34	MP3A	X	6.828	6
35	MP3A	Z	11.826	6
36	MP3A	Mx	-.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	0	.5
2	MP5A	Z	130.583	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	130.583	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	125.065	.5
9	MP2A	Mx	.083	.5
10	MP2A	X	0	6.5
11	MP2A	Z	125.065	6.5
12	MP2A	Mx	.083	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
13	MP2A	X	0	.5
14	MP2A	Z	125.065	.5
15	MP2A	Mx	-.083	.5
16	MP2A	X	0	6.5
17	MP2A	Z	125.065	6.5
18	MP2A	Mx	-.083	6.5
19	MP3A	X	0	1
20	MP3A	Z	72.035	1
21	MP3A	Mx	0	1
22	MP3A	X	0	3
23	MP3A	Z	72.035	3
24	MP3A	Mx	0	3
25	MP1A	X	0	3
26	MP1A	Z	57.321	3
27	MP1A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	57.321	3
30	MP2A	Mx	0	3
31	MP3A	X	0	5
32	MP3A	Z	15.327	5
33	MP3A	Mx	0	5
34	MP3A	X	0	6
35	MP3A	Z	15.327	6
36	MP3A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-58.492	.5
2	MP5A	Z	101.312	.5
3	MP5A	Mx	.051	.5
4	MP5A	X	-58.492	6.5
5	MP5A	Z	101.312	6.5
6	MP5A	Mx	.051	6.5
7	MP2A	X	-57.238	.5
8	MP2A	Z	99.139	.5
9	MP2A	Mx	.116	.5
10	MP2A	X	-57.238	6.5
11	MP2A	Z	99.139	6.5
12	MP2A	Mx	.116	6.5
13	MP2A	X	-57.238	.5
14	MP2A	Z	99.139	.5
15	MP2A	Mx	-.016	.5
16	MP2A	X	-57.238	6.5
17	MP2A	Z	99.139	6.5
18	MP2A	Mx	-.016	6.5
19	MP3A	X	-30.538	1
20	MP3A	Z	52.894	1
21	MP3A	Mx	.015	1
22	MP3A	X	-30.538	3
23	MP3A	Z	52.894	3
24	MP3A	Mx	.015	3
25	MP1A	X	-26.285	3
26	MP1A	Z	45.527	3
27	MP1A	Mx	-.015	3
28	MP2A	X	-25.375	3
29	MP2A	Z	43.951	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
30	MP2A	Mx	-.015	3
31	MP3A	X	-6.828	5
32	MP3A	Z	11.826	5
33	MP3A	Mx	.003	5
34	MP3A	X	-6.828	6
35	MP3A	Z	11.826	6
36	MP3A	Mx	.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	-77.759	.5
2	MP5A	Z	44.894	.5
3	MP5A	Mx	.068	.5
4	MP5A	X	-77.759	6.5
5	MP5A	Z	44.894	6.5
6	MP5A	Mx	.068	6.5
7	MP2A	X	-80.797	.5
8	MP2A	Z	46.648	.5
9	MP2A	Mx	.102	.5
10	MP2A	X	-80.797	6.5
11	MP2A	Z	46.648	6.5
12	MP2A	Mx	.102	6.5
13	MP2A	X	-80.797	.5
14	MP2A	Z	46.648	.5
15	MP2A	Mx	.04	.5
16	MP2A	X	-80.797	6.5
17	MP2A	Z	46.648	6.5
18	MP2A	Mx	.04	6.5
19	MP3A	X	-33.913	1
20	MP3A	Z	19.58	1
21	MP3A	Mx	.017	1
22	MP3A	X	-33.913	3
23	MP3A	Z	19.58	3
24	MP3A	Mx	.017	3
25	MP1A	X	-37.298	3
26	MP1A	Z	21.534	3
27	MP1A	Mx	-.022	3
28	MP2A	X	-32.569	3
29	MP2A	Z	18.804	3
30	MP2A	Mx	-.019	3
31	MP3A	X	-8.93	5
32	MP3A	Z	5.156	5
33	MP3A	Mx	.004	5
34	MP3A	X	-8.93	6
35	MP3A	Z	5.156	6
36	MP3A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	-76.19	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	.067	.5
4	MP5A	X	-76.19	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	.067	6.5
7	MP2A	X	-82.706	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
8	MP2A	Z	0	.5
9	MP2A	Mx	.072	.5
10	MP2A	X	-82.706	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.072	6.5
13	MP2A	X	-82.706	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	.072	.5
16	MP2A	X	-82.706	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	.072	6.5
19	MP3A	X	-28.202	1
20	MP3A	Z	0	1
21	MP3A	Mx	.014	1
22	MP3A	X	-28.202	3
23	MP3A	Z	0	3
24	MP3A	Mx	.014	3
25	MP1A	X	-38.316	3
26	MP1A	Z	0	3
27	MP1A	Mx	-.022	3
28	MP2A	X	-31.036	3
29	MP2A	Z	0	3
30	MP2A	Mx	-.018	3
31	MP3A	X	-8.64	5
32	MP3A	Z	0	5
33	MP3A	Mx	.004	5
34	MP3A	X	-8.64	6
35	MP3A	Z	0	6
36	MP3A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-77.759	.5
2	MP5A	Z	-44.894	.5
3	MP5A	Mx	.068	.5
4	MP5A	X	-77.759	6.5
5	MP5A	Z	-44.894	6.5
6	MP5A	Mx	.068	6.5
7	MP2A	X	-80.797	.5
8	MP2A	Z	-46.648	.5
9	MP2A	Mx	.04	.5
10	MP2A	X	-80.797	6.5
11	MP2A	Z	-46.648	6.5
12	MP2A	Mx	.04	6.5
13	MP2A	X	-80.797	.5
14	MP2A	Z	-46.648	.5
15	MP2A	Mx	.102	.5
16	MP2A	X	-80.797	6.5
17	MP2A	Z	-46.648	6.5
18	MP2A	Mx	.102	6.5
19	MP3A	X	-33.913	1
20	MP3A	Z	-19.58	1
21	MP3A	Mx	.017	1
22	MP3A	X	-33.913	3
23	MP3A	Z	-19.58	3
24	MP3A	Mx	.017	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
25	MP1A	X	-37.298	3
26	MP1A	Z	-21.534	3
27	MP1A	Mx	-.022	3
28	MP2A	X	-32.569	3
29	MP2A	Z	-18.804	3
30	MP2A	Mx	-.019	3
31	MP3A	X	-8.93	5
32	MP3A	Z	-5.156	5
33	MP3A	Mx	.004	5
34	MP3A	X	-8.93	6
35	MP3A	Z	-5.156	6
36	MP3A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	-58.492	.5
2	MP5A	Z	-101.312	.5
3	MP5A	Mx	.051	.5
4	MP5A	X	-58.492	6.5
5	MP5A	Z	-101.312	6.5
6	MP5A	Mx	.051	6.5
7	MP2A	X	-57.238	.5
8	MP2A	Z	-99.139	.5
9	MP2A	Mx	-.016	.5
10	MP2A	X	-57.238	6.5
11	MP2A	Z	-99.139	6.5
12	MP2A	Mx	-.016	6.5
13	MP2A	X	-57.238	.5
14	MP2A	Z	-99.139	.5
15	MP2A	Mx	.116	.5
16	MP2A	X	-57.238	6.5
17	MP2A	Z	-99.139	6.5
18	MP2A	Mx	.116	6.5
19	MP3A	X	-30.538	1
20	MP3A	Z	-52.894	1
21	MP3A	Mx	.015	1
22	MP3A	X	-30.538	3
23	MP3A	Z	-52.894	3
24	MP3A	Mx	.015	3
25	MP1A	X	-26.285	3
26	MP1A	Z	-45.527	3
27	MP1A	Mx	-.015	3
28	MP2A	X	-25.375	3
29	MP2A	Z	-43.951	3
30	MP2A	Mx	-.015	3
31	MP3A	X	-6.828	5
32	MP3A	Z	-11.826	5
33	MP3A	Mx	.003	5
34	MP3A	X	-6.828	6
35	MP3A	Z	-11.826	6
36	MP3A	Mx	.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	0	.5
2	MP5A	Z	-27.262	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	-27.262	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	-25.934	.5
9	MP2A	Mx	-.017	.5
10	MP2A	X	0	6.5
11	MP2A	Z	-25.934	6.5
12	MP2A	Mx	-.017	6.5
13	MP2A	X	0	.5
14	MP2A	Z	-25.934	.5
15	MP2A	Mx	.017	.5
16	MP2A	X	0	6.5
17	MP2A	Z	-25.934	6.5
18	MP2A	Mx	.017	6.5
19	MP3A	X	0	1
20	MP3A	Z	-15.443	1
21	MP3A	Mx	0	1
22	MP3A	X	0	3
23	MP3A	Z	-15.443	3
24	MP3A	Mx	0	3
25	MP1A	X	0	3
26	MP1A	Z	-13.358	3
27	MP1A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	-13.358	3
30	MP2A	Mx	0	3
31	MP3A	X	0	5
32	MP3A	Z	-3.564	5
33	MP3A	Mx	0	5
34	MP3A	X	0	6
35	MP3A	Z	-3.564	6
36	MP3A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	12.369	.5
2	MP5A	Z	-21.425	.5
3	MP5A	Mx	-.011	.5
4	MP5A	X	12.369	6.5
5	MP5A	Z	-21.425	6.5
6	MP5A	Mx	-.011	6.5
7	MP2A	X	12.002	.5
8	MP2A	Z	-20.789	.5
9	MP2A	Mx	-.024	.5
10	MP2A	X	12.002	6.5
11	MP2A	Z	-20.789	6.5
12	MP2A	Mx	-.024	6.5
13	MP2A	X	12.002	.5
14	MP2A	Z	-20.789	.5
15	MP2A	Mx	.003	.5
16	MP2A	X	12.002	6.5
17	MP2A	Z	-20.789	6.5
18	MP2A	Mx	.003	6.5
19	MP3A	X	6.646	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
20	MP3A	Z	-11.512	1
21	MP3A	Mx	-.003	1
22	MP3A	X	6.646	3
23	MP3A	Z	-11.512	3
24	MP3A	Mx	-.003	3
25	MP1A	X	6.192	3
26	MP1A	Z	-10.725	3
27	MP1A	Mx	.004	3
28	MP2A	X	6.007	3
29	MP2A	Z	-10.405	3
30	MP2A	Mx	.004	3
31	MP3A	X	1.651	5
32	MP3A	Z	-2.859	5
33	MP3A	Mx	-.000826	5
34	MP3A	X	1.651	6
35	MP3A	Z	-2.859	6
36	MP3A	Mx	-.000826	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	17.055	.5
2	MP5A	Z	-9.847	.5
3	MP5A	Mx	-.015	.5
4	MP5A	X	17.055	6.5
5	MP5A	Z	-9.847	6.5
6	MP5A	Mx	-.015	6.5
7	MP2A	X	17.447	.5
8	MP2A	Z	-10.073	.5
9	MP2A	Mx	-.022	.5
10	MP2A	X	17.447	6.5
11	MP2A	Z	-10.073	6.5
12	MP2A	Mx	-.022	6.5
13	MP2A	X	17.447	.5
14	MP2A	Z	-10.073	.5
15	MP2A	Mx	-.009	.5
16	MP2A	X	17.447	6.5
17	MP2A	Z	-10.073	6.5
18	MP2A	Mx	-.009	6.5
19	MP3A	X	7.789	1
20	MP3A	Z	-4.497	1
21	MP3A	Mx	-.004	1
22	MP3A	X	7.789	3
23	MP3A	Z	-4.497	3
24	MP3A	Mx	-.004	3
25	MP1A	X	9.039	3
26	MP1A	Z	-5.218	3
27	MP1A	Mx	.005	3
28	MP2A	X	8.077	3
29	MP2A	Z	-4.663	3
30	MP2A	Mx	.005	3
31	MP3A	X	2.406	5
32	MP3A	Z	-1.389	5
33	MP3A	Mx	-.001	5
34	MP3A	X	2.406	6
35	MP3A	Z	-1.389	6
36	MP3A	Mx	-.001	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	17.171	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	-.015	.5
4	MP5A	X	17.171	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	-.015	6.5
7	MP2A	X	18.217	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.016	.5
10	MP2A	X	18.217	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.016	6.5
13	MP2A	X	18.217	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	-.016	.5
16	MP2A	X	18.217	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	-.016	6.5
19	MP3A	X	6.844	1
20	MP3A	Z	0	1
21	MP3A	Mx	-.003	1
22	MP3A	X	6.844	3
23	MP3A	Z	0	3
24	MP3A	Mx	-.003	3
25	MP1A	X	9.463	3
26	MP1A	Z	0	3
27	MP1A	Mx	.006	3
28	MP2A	X	7.983	3
29	MP2A	Z	0	3
30	MP2A	Mx	.005	3
31	MP3A	X	2.516	5
32	MP3A	Z	0	5
33	MP3A	Mx	-.001	5
34	MP3A	X	2.516	6
35	MP3A	Z	0	6
36	MP3A	Mx	-.001	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	17.055	.5
2	MP5A	Z	9.847	.5
3	MP5A	Mx	-.015	.5
4	MP5A	X	17.055	6.5
5	MP5A	Z	9.847	6.5
6	MP5A	Mx	-.015	6.5
7	MP2A	X	17.447	.5
8	MP2A	Z	10.073	.5
9	MP2A	Mx	-.009	.5
10	MP2A	X	17.447	6.5
11	MP2A	Z	10.073	6.5
12	MP2A	Mx	-.009	6.5
13	MP2A	X	17.447	.5
14	MP2A	Z	10.073	.5
15	MP2A	Mx	-.022	.5
16	MP2A	X	17.447	6.5
17	MP2A	Z	10.073	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
18	MP2A	Mx	-.022	6.5
19	MP3A	X	7.789	1
20	MP3A	Z	4.497	1
21	MP3A	Mx	-.004	1
22	MP3A	X	7.789	3
23	MP3A	Z	4.497	3
24	MP3A	Mx	-.004	3
25	MP1A	X	9.039	3
26	MP1A	Z	5.218	3
27	MP1A	Mx	.005	3
28	MP2A	X	8.077	3
29	MP2A	Z	4.663	3
30	MP2A	Mx	.005	3
31	MP3A	X	2.406	5
32	MP3A	Z	1.389	5
33	MP3A	Mx	-.001	5
34	MP3A	X	2.406	6
35	MP3A	Z	1.389	6
36	MP3A	Mx	-.001	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	12.369	.5
2	MP5A	Z	21.425	.5
3	MP5A	Mx	-.011	.5
4	MP5A	X	12.369	6.5
5	MP5A	Z	21.425	6.5
6	MP5A	Mx	-.011	6.5
7	MP2A	X	12.002	.5
8	MP2A	Z	20.789	.5
9	MP2A	Mx	.003	.5
10	MP2A	X	12.002	6.5
11	MP2A	Z	20.789	6.5
12	MP2A	Mx	.003	6.5
13	MP2A	X	12.002	.5
14	MP2A	Z	20.789	.5
15	MP2A	Mx	-.024	.5
16	MP2A	X	12.002	6.5
17	MP2A	Z	20.789	6.5
18	MP2A	Mx	-.024	6.5
19	MP3A	X	6.646	1
20	MP3A	Z	11.512	1
21	MP3A	Mx	-.003	1
22	MP3A	X	6.646	3
23	MP3A	Z	11.512	3
24	MP3A	Mx	-.003	3
25	MP1A	X	6.192	3
26	MP1A	Z	10.725	3
27	MP1A	Mx	.004	3
28	MP2A	X	6.007	3
29	MP2A	Z	10.405	3
30	MP2A	Mx	.004	3
31	MP3A	X	1.651	5
32	MP3A	Z	2.859	5
33	MP3A	Mx	-.000826	5
34	MP3A	X	1.651	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
35	MP3A	Z	2.859	6
36	MP3A	Mx	-.000826	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	0	.5
2	MP5A	Z	27.262	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	27.262	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	25.934	.5
9	MP2A	Mx	.017	.5
10	MP2A	X	0	6.5
11	MP2A	Z	25.934	6.5
12	MP2A	Mx	.017	6.5
13	MP2A	X	0	.5
14	MP2A	Z	25.934	.5
15	MP2A	Mx	-.017	.5
16	MP2A	X	0	6.5
17	MP2A	Z	25.934	6.5
18	MP2A	Mx	-.017	6.5
19	MP3A	X	0	1
20	MP3A	Z	15.443	1
21	MP3A	Mx	0	1
22	MP3A	X	0	3
23	MP3A	Z	15.443	3
24	MP3A	Mx	0	3
25	MP1A	X	0	3
26	MP1A	Z	13.358	3
27	MP1A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	13.358	3
30	MP2A	Mx	0	3
31	MP3A	X	0	5
32	MP3A	Z	3.564	5
33	MP3A	Mx	0	5
34	MP3A	X	0	6
35	MP3A	Z	3.564	6
36	MP3A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	-12.369	.5
2	MP5A	Z	21.425	.5
3	MP5A	Mx	.011	.5
4	MP5A	X	-12.369	6.5
5	MP5A	Z	21.425	6.5
6	MP5A	Mx	.011	6.5
7	MP2A	X	-12.002	.5
8	MP2A	Z	20.789	.5
9	MP2A	Mx	.024	.5
10	MP2A	X	-12.002	6.5
11	MP2A	Z	20.789	6.5
12	MP2A	Mx	.024	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
13	MP2A	X	-12.002	.5
14	MP2A	Z	20.789	.5
15	MP2A	Mx	-.003	.5
16	MP2A	X	-12.002	6.5
17	MP2A	Z	20.789	6.5
18	MP2A	Mx	-.003	6.5
19	MP3A	X	-6.646	1
20	MP3A	Z	11.512	1
21	MP3A	Mx	.003	1
22	MP3A	X	-6.646	3
23	MP3A	Z	11.512	3
24	MP3A	Mx	.003	3
25	MP1A	X	-6.192	3
26	MP1A	Z	10.725	3
27	MP1A	Mx	-.004	3
28	MP2A	X	-6.007	3
29	MP2A	Z	10.405	3
30	MP2A	Mx	-.004	3
31	MP3A	X	-1.651	5
32	MP3A	Z	2.859	5
33	MP3A	Mx	.000826	5
34	MP3A	X	-1.651	6
35	MP3A	Z	2.859	6
36	MP3A	Mx	.000826	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-17.055	.5
2	MP5A	Z	9.847	.5
3	MP5A	Mx	.015	.5
4	MP5A	X	-17.055	6.5
5	MP5A	Z	9.847	6.5
6	MP5A	Mx	.015	6.5
7	MP2A	X	-17.447	.5
8	MP2A	Z	10.073	.5
9	MP2A	Mx	.022	.5
10	MP2A	X	-17.447	6.5
11	MP2A	Z	10.073	6.5
12	MP2A	Mx	.022	6.5
13	MP2A	X	-17.447	.5
14	MP2A	Z	10.073	.5
15	MP2A	Mx	.009	.5
16	MP2A	X	-17.447	6.5
17	MP2A	Z	10.073	6.5
18	MP2A	Mx	.009	6.5
19	MP3A	X	-7.789	1
20	MP3A	Z	4.497	1
21	MP3A	Mx	.004	1
22	MP3A	X	-7.789	3
23	MP3A	Z	4.497	3
24	MP3A	Mx	.004	3
25	MP1A	X	-9.039	3
26	MP1A	Z	5.218	3
27	MP1A	Mx	-.005	3
28	MP2A	X	-8.077	3
29	MP2A	Z	4.663	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
30	MP2A	Mx	-.005	3
31	MP3A	X	-2.406	5
32	MP3A	Z	1.389	5
33	MP3A	Mx	.001	5
34	MP3A	X	-2.406	6
35	MP3A	Z	1.389	6
36	MP3A	Mx	.001	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	-17.171	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	.015	.5
4	MP5A	X	-17.171	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	.015	6.5
7	MP2A	X	-18.217	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.016	.5
10	MP2A	X	-18.217	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.016	6.5
13	MP2A	X	-18.217	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	.016	.5
16	MP2A	X	-18.217	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	.016	6.5
19	MP3A	X	-6.844	1
20	MP3A	Z	0	1
21	MP3A	Mx	.003	1
22	MP3A	X	-6.844	3
23	MP3A	Z	0	3
24	MP3A	Mx	.003	3
25	MP1A	X	-9.463	3
26	MP1A	Z	0	3
27	MP1A	Mx	-.006	3
28	MP2A	X	-7.983	3
29	MP2A	Z	0	3
30	MP2A	Mx	-.005	3
31	MP3A	X	-2.516	5
32	MP3A	Z	0	5
33	MP3A	Mx	.001	5
34	MP3A	X	-2.516	6
35	MP3A	Z	0	6
36	MP3A	Mx	.001	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	-17.055	.5
2	MP5A	Z	-9.847	.5
3	MP5A	Mx	.015	.5
4	MP5A	X	-17.055	6.5
5	MP5A	Z	-9.847	6.5
6	MP5A	Mx	.015	6.5
7	MP2A	X	-17.447	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
8	MP2A	Z	-10.073	.5
9	MP2A	Mx	.009	.5
10	MP2A	X	-17.447	6.5
11	MP2A	Z	-10.073	6.5
12	MP2A	Mx	.009	6.5
13	MP2A	X	-17.447	.5
14	MP2A	Z	-10.073	.5
15	MP2A	Mx	.022	.5
16	MP2A	X	-17.447	6.5
17	MP2A	Z	-10.073	6.5
18	MP2A	Mx	.022	6.5
19	MP3A	X	-7.789	1
20	MP3A	Z	-4.497	1
21	MP3A	Mx	.004	1
22	MP3A	X	-7.789	3
23	MP3A	Z	-4.497	3
24	MP3A	Mx	.004	3
25	MP1A	X	-9.039	3
26	MP1A	Z	-5.218	3
27	MP1A	Mx	-.005	3
28	MP2A	X	-8.077	3
29	MP2A	Z	-4.663	3
30	MP2A	Mx	-.005	3
31	MP3A	X	-2.406	5
32	MP3A	Z	-1.389	5
33	MP3A	Mx	.001	5
34	MP3A	X	-2.406	6
35	MP3A	Z	-1.389	6
36	MP3A	Mx	.001	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-12.369	.5
2	MP5A	Z	-21.425	.5
3	MP5A	Mx	.011	.5
4	MP5A	X	-12.369	6.5
5	MP5A	Z	-21.425	6.5
6	MP5A	Mx	.011	6.5
7	MP2A	X	-12.002	.5
8	MP2A	Z	-20.789	.5
9	MP2A	Mx	-.003	.5
10	MP2A	X	-12.002	6.5
11	MP2A	Z	-20.789	6.5
12	MP2A	Mx	-.003	6.5
13	MP2A	X	-12.002	.5
14	MP2A	Z	-20.789	.5
15	MP2A	Mx	.024	.5
16	MP2A	X	-12.002	6.5
17	MP2A	Z	-20.789	6.5
18	MP2A	Mx	.024	6.5
19	MP3A	X	-6.646	1
20	MP3A	Z	-11.512	1
21	MP3A	Mx	.003	1
22	MP3A	X	-6.646	3
23	MP3A	Z	-11.512	3
24	MP3A	Mx	.003	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
25	MP1A	X	-6.192	3
26	MP1A	Z	-10.725	3
27	MP1A	Mx	-.004	3
28	MP2A	X	-6.007	3
29	MP2A	Z	-10.405	3
30	MP2A	Mx	-.004	3
31	MP3A	X	-1.651	5
32	MP3A	Z	-2.859	5
33	MP3A	Mx	.000826	5
34	MP3A	X	-1.651	6
35	MP3A	Z	-2.859	6
36	MP3A	Mx	.000826	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	0	.5
2	MP5A	Z	-8.44	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	-8.44	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	-8.084	.5
9	MP2A	Mx	-.005	.5
10	MP2A	X	0	6.5
11	MP2A	Z	-8.084	6.5
12	MP2A	Mx	-.005	6.5
13	MP2A	X	0	.5
14	MP2A	Z	-8.084	.5
15	MP2A	Mx	.005	.5
16	MP2A	X	0	6.5
17	MP2A	Z	-8.084	6.5
18	MP2A	Mx	.005	6.5
19	MP3A	X	0	1
20	MP3A	Z	-4.656	1
21	MP3A	Mx	0	1
22	MP3A	X	0	3
23	MP3A	Z	-4.656	3
24	MP3A	Mx	0	3
25	MP1A	X	0	3
26	MP1A	Z	-3.705	3
27	MP1A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	-3.705	3
30	MP2A	Mx	0	3
31	MP3A	X	0	5
32	MP3A	Z	-.991	5
33	MP3A	Mx	0	5
34	MP3A	X	0	6
35	MP3A	Z	-.991	6
36	MP3A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	3.781	.5
2	MP5A	Z	-6.548	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
3	MP5A	Mx	-.003	.5
4	MP5A	X	3.781	6.5
5	MP5A	Z	-6.548	6.5
6	MP5A	Mx	-.003	6.5
7	MP2A	X	3.7	.5
8	MP2A	Z	-6.408	.5
9	MP2A	Mx	-.008	.5
10	MP2A	X	3.7	6.5
11	MP2A	Z	-6.408	6.5
12	MP2A	Mx	-.008	6.5
13	MP2A	X	3.7	.5
14	MP2A	Z	-6.408	.5
15	MP2A	Mx	.001	.5
16	MP2A	X	3.7	6.5
17	MP2A	Z	-6.408	6.5
18	MP2A	Mx	.001	6.5
19	MP3A	X	1.974	1
20	MP3A	Z	-3.419	1
21	MP3A	Mx	-.000987	1
22	MP3A	X	1.974	3
23	MP3A	Z	-3.419	3
24	MP3A	Mx	-.000987	3
25	MP1A	X	1.699	3
26	MP1A	Z	-2.943	3
27	MP1A	Mx	.000991	3
28	MP2A	X	1.64	3
29	MP2A	Z	-2.841	3
30	MP2A	Mx	.000957	3
31	MP3A	X	.441	5
32	MP3A	Z	-.764	5
33	MP3A	Mx	-.00022	5
34	MP3A	X	.441	6
35	MP3A	Z	-.764	6
36	MP3A	Mx	-.00022	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	5.026	.5
2	MP5A	Z	-2.902	.5
3	MP5A	Mx	-.004	.5
4	MP5A	X	5.026	6.5
5	MP5A	Z	-2.902	6.5
6	MP5A	Mx	-.004	6.5
7	MP2A	X	5.222	.5
8	MP2A	Z	-3.015	.5
9	MP2A	Mx	-.007	.5
10	MP2A	X	5.222	6.5
11	MP2A	Z	-3.015	6.5
12	MP2A	Mx	-.007	6.5
13	MP2A	X	5.222	.5
14	MP2A	Z	-3.015	.5
15	MP2A	Mx	-.003	.5
16	MP2A	X	5.222	6.5
17	MP2A	Z	-3.015	6.5
18	MP2A	Mx	-.003	6.5
19	MP3A	X	2.192	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
20	MP3A	Z	-1.266	1
21	MP3A	Mx	-.001	1
22	MP3A	X	2.192	3
23	MP3A	Z	-1.266	3
24	MP3A	Mx	-.001	3
25	MP1A	X	2.411	3
26	MP1A	Z	-1.392	3
27	MP1A	Mx	.001	3
28	MP2A	X	2.105	3
29	MP2A	Z	-1.215	3
30	MP2A	Mx	.001	3
31	MP3A	X	.577	5
32	MP3A	Z	-.333	5
33	MP3A	Mx	-.000288	5
34	MP3A	X	.577	6
35	MP3A	Z	-.333	6
36	MP3A	Mx	-.000288	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	4.925	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	-.004	.5
4	MP5A	X	4.925	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	-.004	6.5
7	MP2A	X	5.346	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.005	.5
10	MP2A	X	5.346	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.005	6.5
13	MP2A	X	5.346	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	-.005	.5
16	MP2A	X	5.346	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	-.005	6.5
19	MP3A	X	1.823	1
20	MP3A	Z	0	1
21	MP3A	Mx	-.000911	1
22	MP3A	X	1.823	3
23	MP3A	Z	0	3
24	MP3A	Mx	-.000911	3
25	MP1A	X	2.477	3
26	MP1A	Z	0	3
27	MP1A	Mx	.001	3
28	MP2A	X	2.006	3
29	MP2A	Z	0	3
30	MP2A	Mx	.001	3
31	MP3A	X	.558	5
32	MP3A	Z	0	5
33	MP3A	Mx	-.000279	5
34	MP3A	X	.558	6
35	MP3A	Z	0	6
36	MP3A	Mx	-.000279	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	5.026	.5
2	MP5A	Z	2.902	.5
3	MP5A	Mx	-.004	.5
4	MP5A	X	5.026	6.5
5	MP5A	Z	2.902	6.5
6	MP5A	Mx	-.004	6.5
7	MP2A	X	5.222	.5
8	MP2A	Z	3.015	.5
9	MP2A	Mx	-.003	.5
10	MP2A	X	5.222	6.5
11	MP2A	Z	3.015	6.5
12	MP2A	Mx	-.003	6.5
13	MP2A	X	5.222	.5
14	MP2A	Z	3.015	.5
15	MP2A	Mx	-.007	.5
16	MP2A	X	5.222	6.5
17	MP2A	Z	3.015	6.5
18	MP2A	Mx	-.007	6.5
19	MP3A	X	2.192	1
20	MP3A	Z	1.266	1
21	MP3A	Mx	-.001	1
22	MP3A	X	2.192	3
23	MP3A	Z	1.266	3
24	MP3A	Mx	-.001	3
25	MP1A	X	2.411	3
26	MP1A	Z	1.392	3
27	MP1A	Mx	.001	3
28	MP2A	X	2.105	3
29	MP2A	Z	1.215	3
30	MP2A	Mx	.001	3
31	MP3A	X	.577	5
32	MP3A	Z	.333	5
33	MP3A	Mx	-.000288	5
34	MP3A	X	.577	6
35	MP3A	Z	.333	6
36	MP3A	Mx	-.000288	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	3.781	.5
2	MP5A	Z	6.548	.5
3	MP5A	Mx	-.003	.5
4	MP5A	X	3.781	6.5
5	MP5A	Z	6.548	6.5
6	MP5A	Mx	-.003	6.5
7	MP2A	X	3.7	.5
8	MP2A	Z	6.408	.5
9	MP2A	Mx	.001	.5
10	MP2A	X	3.7	6.5
11	MP2A	Z	6.408	6.5
12	MP2A	Mx	.001	6.5
13	MP2A	X	3.7	.5
14	MP2A	Z	6.408	.5
15	MP2A	Mx	-.008	.5
16	MP2A	X	3.7	6.5
17	MP2A	Z	6.408	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
18	MP2A	Mx	-.008	6.5
19	MP3A	X	1.974	1
20	MP3A	Z	3.419	1
21	MP3A	Mx	-.000987	1
22	MP3A	X	1.974	3
23	MP3A	Z	3.419	3
24	MP3A	Mx	-.000987	3
25	MP1A	X	1.699	3
26	MP1A	Z	2.943	3
27	MP1A	Mx	.000991	3
28	MP2A	X	1.64	3
29	MP2A	Z	2.841	3
30	MP2A	Mx	.000957	3
31	MP3A	X	.441	5
32	MP3A	Z	.764	5
33	MP3A	Mx	-.00022	5
34	MP3A	X	.441	6
35	MP3A	Z	.764	6
36	MP3A	Mx	-.00022	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	0	.5
2	MP5A	Z	8.44	.5
3	MP5A	Mx	0	.5
4	MP5A	X	0	6.5
5	MP5A	Z	8.44	6.5
6	MP5A	Mx	0	6.5
7	MP2A	X	0	.5
8	MP2A	Z	8.084	.5
9	MP2A	Mx	.005	.5
10	MP2A	X	0	6.5
11	MP2A	Z	8.084	6.5
12	MP2A	Mx	.005	6.5
13	MP2A	X	0	.5
14	MP2A	Z	8.084	.5
15	MP2A	Mx	-.005	.5
16	MP2A	X	0	6.5
17	MP2A	Z	8.084	6.5
18	MP2A	Mx	-.005	6.5
19	MP3A	X	0	1
20	MP3A	Z	4.656	1
21	MP3A	Mx	0	1
22	MP3A	X	0	3
23	MP3A	Z	4.656	3
24	MP3A	Mx	0	3
25	MP1A	X	0	3
26	MP1A	Z	3.705	3
27	MP1A	Mx	0	3
28	MP2A	X	0	3
29	MP2A	Z	3.705	3
30	MP2A	Mx	0	3
31	MP3A	X	0	5
32	MP3A	Z	.991	5
33	MP3A	Mx	0	5
34	MP3A	X	0	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
35	MP3A	Z	.991	6
36	MP3A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-3.781	.5
2	MP5A	Z	6.548	.5
3	MP5A	Mx	.003	.5
4	MP5A	X	-3.781	6.5
5	MP5A	Z	6.548	6.5
6	MP5A	Mx	.003	6.5
7	MP2A	X	-3.7	.5
8	MP2A	Z	6.408	.5
9	MP2A	Mx	.008	.5
10	MP2A	X	-3.7	6.5
11	MP2A	Z	6.408	6.5
12	MP2A	Mx	.008	6.5
13	MP2A	X	-3.7	.5
14	MP2A	Z	6.408	.5
15	MP2A	Mx	-.001	.5
16	MP2A	X	-3.7	6.5
17	MP2A	Z	6.408	6.5
18	MP2A	Mx	-.001	6.5
19	MP3A	X	-1.974	1
20	MP3A	Z	3.419	1
21	MP3A	Mx	.000987	1
22	MP3A	X	-1.974	3
23	MP3A	Z	3.419	3
24	MP3A	Mx	.000987	3
25	MP1A	X	-1.699	3
26	MP1A	Z	2.943	3
27	MP1A	Mx	-.000991	3
28	MP2A	X	-1.64	3
29	MP2A	Z	2.841	3
30	MP2A	Mx	-.000957	3
31	MP3A	X	-.441	5
32	MP3A	Z	.764	5
33	MP3A	Mx	.00022	5
34	MP3A	X	-.441	6
35	MP3A	Z	.764	6
36	MP3A	Mx	.00022	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-5.026	.5
2	MP5A	Z	2.902	.5
3	MP5A	Mx	.004	.5
4	MP5A	X	-5.026	6.5
5	MP5A	Z	2.902	6.5
6	MP5A	Mx	.004	6.5
7	MP2A	X	-5.222	.5
8	MP2A	Z	3.015	.5
9	MP2A	Mx	.007	.5
10	MP2A	X	-5.222	6.5
11	MP2A	Z	3.015	6.5
12	MP2A	Mx	.007	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
13	MP2A	X	-5.222	.5
14	MP2A	Z	3.015	.5
15	MP2A	Mx	.003	.5
16	MP2A	X	-5.222	6.5
17	MP2A	Z	3.015	6.5
18	MP2A	Mx	.003	6.5
19	MP3A	X	-2.192	1
20	MP3A	Z	1.266	1
21	MP3A	Mx	.001	1
22	MP3A	X	-2.192	3
23	MP3A	Z	1.266	3
24	MP3A	Mx	.001	3
25	MP1A	X	-2.411	3
26	MP1A	Z	1.392	3
27	MP1A	Mx	-.001	3
28	MP2A	X	-2.105	3
29	MP2A	Z	1.215	3
30	MP2A	Mx	-.001	3
31	MP3A	X	-.577	5
32	MP3A	Z	.333	5
33	MP3A	Mx	.000288	5
34	MP3A	X	-.577	6
35	MP3A	Z	.333	6
36	MP3A	Mx	.000288	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-4.925	.5
2	MP5A	Z	0	.5
3	MP5A	Mx	.004	.5
4	MP5A	X	-4.925	6.5
5	MP5A	Z	0	6.5
6	MP5A	Mx	.004	6.5
7	MP2A	X	-5.346	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.005	.5
10	MP2A	X	-5.346	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.005	6.5
13	MP2A	X	-5.346	.5
14	MP2A	Z	0	.5
15	MP2A	Mx	.005	.5
16	MP2A	X	-5.346	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	.005	6.5
19	MP3A	X	-1.823	1
20	MP3A	Z	0	1
21	MP3A	Mx	.000911	1
22	MP3A	X	-1.823	3
23	MP3A	Z	0	3
24	MP3A	Mx	.000911	3
25	MP1A	X	-2.477	3
26	MP1A	Z	0	3
27	MP1A	Mx	-.001	3
28	MP2A	X	-2.006	3
29	MP2A	Z	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
30	MP2A	Mx	-.001	3
31	MP3A	X	-.558	5
32	MP3A	Z	0	5
33	MP3A	Mx	.000279	5
34	MP3A	X	-.558	6
35	MP3A	Z	0	6
36	MP3A	Mx	.000279	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	-5.026	.5
2	MP5A	Z	-2.902	.5
3	MP5A	Mx	.004	.5
4	MP5A	X	-5.026	6.5
5	MP5A	Z	-2.902	6.5
6	MP5A	Mx	.004	6.5
7	MP2A	X	-5.222	.5
8	MP2A	Z	-3.015	.5
9	MP2A	Mx	.003	.5
10	MP2A	X	-5.222	6.5
11	MP2A	Z	-3.015	6.5
12	MP2A	Mx	.003	6.5
13	MP2A	X	-5.222	.5
14	MP2A	Z	-3.015	.5
15	MP2A	Mx	.007	.5
16	MP2A	X	-5.222	6.5
17	MP2A	Z	-3.015	6.5
18	MP2A	Mx	.007	6.5
19	MP3A	X	-2.192	1
20	MP3A	Z	-1.266	1
21	MP3A	Mx	.001	1
22	MP3A	X	-2.192	3
23	MP3A	Z	-1.266	3
24	MP3A	Mx	.001	3
25	MP1A	X	-2.411	3
26	MP1A	Z	-1.392	3
27	MP1A	Mx	-.001	3
28	MP2A	X	-2.105	3
29	MP2A	Z	-1.215	3
30	MP2A	Mx	-.001	3
31	MP3A	X	-.577	5
32	MP3A	Z	-.333	5
33	MP3A	Mx	.000288	5
34	MP3A	X	-.577	6
35	MP3A	Z	-.333	6
36	MP3A	Mx	.000288	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP5A	X	-3.781	.5
2	MP5A	Z	-6.548	.5
3	MP5A	Mx	.003	.5
4	MP5A	X	-3.781	6.5
5	MP5A	Z	-6.548	6.5
6	MP5A	Mx	.003	6.5
7	MP2A	X	-3.7	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
8	MP2A	Z	-6.408	.5
9	MP2A	Mx	-.001	.5
10	MP2A	X	-3.7	6.5
11	MP2A	Z	-6.408	6.5
12	MP2A	Mx	-.001	6.5
13	MP2A	X	-3.7	.5
14	MP2A	Z	-6.408	.5
15	MP2A	Mx	.008	.5
16	MP2A	X	-3.7	6.5
17	MP2A	Z	-6.408	6.5
18	MP2A	Mx	.008	6.5
19	MP3A	X	-1.974	1
20	MP3A	Z	-3.419	1
21	MP3A	Mx	.000987	1
22	MP3A	X	-1.974	3
23	MP3A	Z	-3.419	3
24	MP3A	Mx	.000987	3
25	MP1A	X	-1.699	3
26	MP1A	Z	-2.943	3
27	MP1A	Mx	-.000991	3
28	MP2A	X	-1.64	3
29	MP2A	Z	-2.841	3
30	MP2A	Mx	-.000957	3
31	MP3A	X	-.441	5
32	MP3A	Z	-.764	5
33	MP3A	Mx	.00022	5
34	MP3A	X	-.441	6
35	MP3A	Z	-.764	6
36	MP3A	Mx	.00022	6

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	FH2	Y	-500	%85

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	FH2	Y	-500	%56

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	FH2	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	FH2	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	Y	-9.503	-9.503	0	%100
2	FH1	Y	-9.503	-9.503	0	%100
3	MP5A	Y	-8.465	-8.465	0	%100
4	MP3A	Y	-8.465	-8.465	0	%100
5	MP2A	Y	-8.465	-8.465	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
6	MP1A	Y	-8.465	-8.465	0	%100
7	SH1	Y	-8.465	-8.465	0	%100
8	SH3	Y	-8.465	-8.465	0	%100
9	SH2	Y	-8.465	-8.465	0	%100
10	SH4	Y	-8.465	-8.465	0	%100
11	V1	Y	-7.478	-7.478	0	%100
12	V2	Y	-5.713	-5.713	0	%100
13	V3	Y	-5.713	-5.713	0	%100
14	V6	Y	-7.478	-7.478	0	%100
15	V4	Y	-5.713	-5.713	0	%100
16	V5	Y	-5.713	-5.713	0	%100
17	D2	Y	-5.713	-5.713	0	%100
18	D1	Y	-5.713	-5.713	0	%100
19	D3	Y	-5.713	-5.713	0	%100
20	D4	Y	-5.713	-5.713	0	%100
21	MP4A	Y	-8.465	-8.465	0	%100
22	M33	Y	-8.465	-8.465	0	%100
23	M33A	Y	-13.93	-13.93	0	%100
24	M34	Y	-13.93	-13.93	0	%100
25	M35	Y	-13.93	-13.93	0	%100
26	M36	Y	-13.93	-13.93	0	%100
27	M37	Y	-13.93	-13.93	0	%100
28	M38	Y	-13.93	-13.93	0	%100
29	M39	Y	-13.93	-13.93	0	%100
30	M40	Y	-13.93	-13.93	0	%100
31	M41	Y	-13.93	-13.93	0	%100
32	M42	Y	-13.93	-13.93	0	%100
33	M43	Y	-13.93	-13.93	0	%100
34	M44	Y	-13.93	-13.93	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	0	0	0	%100
2	FH2	Z	-8.813	-8.813	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	-8.813	-8.813	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	-7.28	-7.28	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-7.28	-7.28	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-7.28	-7.28	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-7.28	-7.28	0	%100
13	SH1	X	0	0	0	%100
14	SH1	Z	-3.96	-3.96	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	-3.96	-3.96	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	-3.96	-3.96	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	-3.96	-3.96	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	-5.2	-5.2	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	-3.219	-3.219	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
25	V3	X	0	0	0	%100
26	V3	Z	-3.219	-3.219	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	-5.2	-5.2	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	-3.219	-3.219	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	-3.219	-3.219	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	-2.651	-2.651	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	-2.651	-2.651	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	-2.651	-2.651	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	-2.651	-2.651	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-7.28	-7.28	0	%100
43	M33	X	0	0	0	%100
44	M33	Z	-1.615	-1.615	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	-8.185	-8.185	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	-8.185	-8.185	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	-8.185	-8.185	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	-8.185	-8.185	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	-8.185	-8.185	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	-8.185	-8.185	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	-8.185	-8.185	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	-8.185	-8.185	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	-8.185	-8.185	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	-8.185	-8.185	0	%100
65	M43	X	0	0	0	%100
66	M43	Z	-8.185	-8.185	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	-8.185	-8.185	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
1	FH2	X	3.305	3.305	0	%100
2	FH2	Z	-5.724	-5.724	0	%100
3	FH1	X	3.305	3.305	0	%100
4	FH1	Z	-5.724	-5.724	0	%100
5	MP5A	X	3.64	3.64	0	%100
6	MP5A	Z	-6.305	-6.305	0	%100
7	MP3A	X	3.64	3.64	0	%100
8	MP3A	Z	-6.305	-6.305	0	%100
9	MP2A	X	3.64	3.64	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%1
10	MP2A	Z	-6.305	-6.305	0		%100
11	MP1A	X	3.64	3.64	0		%100
12	MP1A	Z	-6.305	-6.305	0		%100
13	SH1	X	.33	.33	0		%100
14	SH1	Z	-.572	-.572	0		%100
15	SH3	X	3.47	3.47	0		%100
16	SH3	Z	-6.011	-6.011	0		%100
17	SH2	X	.33	.33	0		%100
18	SH2	Z	-.572	-.572	0		%100
19	SH4	X	3.47	3.47	0		%100
20	SH4	Z	-6.011	-6.011	0		%100
21	V1	X	2.6	2.6	0		%100
22	V1	Z	-4.503	-4.503	0		%100
23	V2	X	1.609	1.609	0		%100
24	V2	Z	-2.787	-2.787	0		%100
25	V3	X	1.609	1.609	0		%100
26	V3	Z	-2.787	-2.787	0		%100
27	V6	X	2.6	2.6	0		%100
28	V6	Z	-4.503	-4.503	0		%100
29	V4	X	1.609	1.609	0		%100
30	V4	Z	-2.787	-2.787	0		%100
31	V5	X	1.609	1.609	0		%100
32	V5	Z	-2.787	-2.787	0		%100
33	D2	X	1.043	1.043	0		%100
34	D2	Z	-1.807	-1.807	0		%100
35	D1	X	1.043	1.043	0		%100
36	D1	Z	-1.807	-1.807	0		%100
37	D3	X	1.58	1.58	0		%100
38	D3	Z	-2.737	-2.737	0		%100
39	D4	X	1.58	1.58	0		%100
40	D4	Z	-2.737	-2.737	0		%100
41	MP4A	X	3.64	3.64	0		%100
42	MP4A	Z	-6.305	-6.305	0		%100
43	M33	X	2.564	2.564	0		%100
44	M33	Z	-4.44	-4.44	0		%100
45	M33A	X	7.185	7.185	0		%100
46	M33A	Z	-12.445	-12.445	0		%100
47	M34	X	7.185	7.185	0		%100
48	M34	Z	-12.445	-12.445	0		%100
49	M35	X	7.185	7.185	0		%100
50	M35	Z	-12.445	-12.445	0		%100
51	M36	X	1	1	0		%100
52	M36	Z	-1.732	-1.732	0		%100
53	M37	X	1	1	0		%100
54	M37	Z	-1.732	-1.732	0		%100
55	M38	X	1	1	0		%100
56	M38	Z	-1.732	-1.732	0		%100
57	M39	X	7.185	7.185	0		%100
58	M39	Z	-12.445	-12.445	0		%100
59	M40	X	7.185	7.185	0		%100
60	M40	Z	-12.445	-12.445	0		%100
61	M41	X	7.185	7.185	0		%100
62	M41	Z	-12.445	-12.445	0		%100
63	M42	X	1	1	0		%100
64	M42	Z	-1.732	-1.732	0		%100
65	M43	X	1	1	0		%100
66	M43	Z	-1.732	-1.732	0		%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
67	M44	X	1	1	0	%100
68	M44	Z	-1.732	-1.732	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	FH2	X	1.908	1.908	0	%100
2	FH2	Z	-1.102	-1.102	0	%100
3	FH1	X	1.908	1.908	0	%100
4	FH1	Z	-1.102	-1.102	0	%100
5	MP5A	X	6.305	6.305	0	%100
6	MP5A	Z	-3.64	-3.64	0	%100
7	MP3A	X	6.305	6.305	0	%100
8	MP3A	Z	-3.64	-3.64	0	%100
9	MP2A	X	6.305	6.305	0	%100
10	MP2A	Z	-3.64	-3.64	0	%100
11	MP1A	X	6.305	6.305	0	%100
12	MP1A	Z	-3.64	-3.64	0	%100
13	SH1	X	.294	.294	0	%100
14	SH1	Z	-.17	-.17	0	%100
15	SH3	X	5.733	5.733	0	%100
16	SH3	Z	-3.31	-3.31	0	%100
17	SH2	X	.294	.294	0	%100
18	SH2	Z	-.17	-.17	0	%100
19	SH4	X	5.733	5.733	0	%100
20	SH4	Z	-3.31	-3.31	0	%100
21	V1	X	4.503	4.503	0	%100
22	V1	Z	-2.6	-2.6	0	%100
23	V2	X	2.787	2.787	0	%100
24	V2	Z	-1.609	-1.609	0	%100
25	V3	X	2.787	2.787	0	%100
26	V3	Z	-1.609	-1.609	0	%100
27	V6	X	4.503	4.503	0	%100
28	V6	Z	-2.6	-2.6	0	%100
29	V4	X	2.787	2.787	0	%100
30	V4	Z	-1.609	-1.609	0	%100
31	V5	X	2.787	2.787	0	%100
32	V5	Z	-1.609	-1.609	0	%100
33	D2	X	1.759	1.759	0	%100
34	D2	Z	-1.016	-1.016	0	%100
35	D1	X	1.759	1.759	0	%100
36	D1	Z	-1.016	-1.016	0	%100
37	D3	X	2.69	2.69	0	%100
38	D3	Z	-1.553	-1.553	0	%100
39	D4	X	2.69	2.69	0	%100
40	D4	Z	-1.553	-1.553	0	%100
41	MP4A	X	6.305	6.305	0	%100
42	MP4A	Z	-3.64	-3.64	0	%100
43	M33	X	6.282	6.282	0	%100
44	M33	Z	-3.627	-3.627	0	%100
45	M33A	X	12.445	12.445	0	%100
46	M33A	Z	-7.185	-7.185	0	%100
47	M34	X	12.445	12.445	0	%100
48	M34	Z	-7.185	-7.185	0	%100
49	M35	X	12.445	12.445	0	%100
50	M35	Z	-7.185	-7.185	0	%100
51	M36	X	1.732	1.732	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
52	M36	Z	-1	-1	0	%100
53	M37	X	1.732	1.732	0	%100
54	M37	Z	-1	-1	0	%100
55	M38	X	1.732	1.732	0	%100
56	M38	Z	-1	-1	0	%100
57	M39	X	12.445	12.445	0	%100
58	M39	Z	-7.185	-7.185	0	%100
59	M40	X	12.445	12.445	0	%100
60	M40	Z	-7.185	-7.185	0	%100
61	M41	X	12.445	12.445	0	%100
62	M41	Z	-7.185	-7.185	0	%100
63	M42	X	1.732	1.732	0	%100
64	M42	Z	-1	-1	0	%100
65	M43	X	1.732	1.732	0	%100
66	M43	Z	-1	-1	0	%100
67	M44	X	1.732	1.732	0	%100
68	M44	Z	-1	-1	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	0	0	0	%100
2	FH2	Z	0	0	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	0	0	0	%100
5	MP5A	X	7.28	7.28	0	%100
6	MP5A	Z	0	0	0	%100
7	MP3A	X	7.28	7.28	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	7.28	7.28	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	7.28	7.28	0	%100
12	MP1A	Z	0	0	0	%100
13	SH1	X	3.32	3.32	0	%100
14	SH1	Z	0	0	0	%100
15	SH3	X	3.32	3.32	0	%100
16	SH3	Z	0	0	0	%100
17	SH2	X	3.32	3.32	0	%100
18	SH2	Z	0	0	0	%100
19	SH4	X	3.32	3.32	0	%100
20	SH4	Z	0	0	0	%100
21	V1	X	5.2	5.2	0	%100
22	V1	Z	0	0	0	%100
23	V2	X	3.219	3.219	0	%100
24	V2	Z	0	0	0	%100
25	V3	X	3.219	3.219	0	%100
26	V3	Z	0	0	0	%100
27	V6	X	5.2	5.2	0	%100
28	V6	Z	0	0	0	%100
29	V4	X	3.219	3.219	0	%100
30	V4	Z	0	0	0	%100
31	V5	X	3.219	3.219	0	%100
32	V5	Z	0	0	0	%100
33	D2	X	2.541	2.541	0	%100
34	D2	Z	0	0	0	%100
35	D1	X	2.541	2.541	0	%100
36	D1	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
37	D3	X	2.541	2.541	0	%100
38	D3	Z	0	0	0	%100
39	D4	X	2.541	2.541	0	%100
40	D4	Z	0	0	0	%100
41	MP4A	X	7.28	7.28	0	%100
42	MP4A	Z	0	0	0	%100
43	M33	X	5.869	5.869	0	%100
44	M33	Z	0	0	0	%100
45	M33A	X	8.185	8.185	0	%100
46	M33A	Z	0	0	0	%100
47	M34	X	8.185	8.185	0	%100
48	M34	Z	0	0	0	%100
49	M35	X	8.185	8.185	0	%100
50	M35	Z	0	0	0	%100
51	M36	X	8.185	8.185	0	%100
52	M36	Z	0	0	0	%100
53	M37	X	8.185	8.185	0	%100
54	M37	Z	0	0	0	%100
55	M38	X	8.185	8.185	0	%100
56	M38	Z	0	0	0	%100
57	M39	X	8.185	8.185	0	%100
58	M39	Z	0	0	0	%100
59	M40	X	8.185	8.185	0	%100
60	M40	Z	0	0	0	%100
61	M41	X	8.185	8.185	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	8.185	8.185	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	8.185	8.185	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	8.185	8.185	0	%100
68	M44	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	1.908	1.908	0	%100
2	FH2	Z	1.102	1.102	0	%100
3	FH1	X	1.908	1.908	0	%100
4	FH1	Z	1.102	1.102	0	%100
5	MP5A	X	6.305	6.305	0	%100
6	MP5A	Z	3.64	3.64	0	%100
7	MP3A	X	6.305	6.305	0	%100
8	MP3A	Z	3.64	3.64	0	%100
9	MP2A	X	6.305	6.305	0	%100
10	MP2A	Z	3.64	3.64	0	%100
11	MP1A	X	6.305	6.305	0	%100
12	MP1A	Z	3.64	3.64	0	%100
13	SH1	X	5.733	5.733	0	%100
14	SH1	Z	3.31	3.31	0	%100
15	SH3	X	.294	.294	0	%100
16	SH3	Z	.17	.17	0	%100
17	SH2	X	5.733	5.733	0	%100
18	SH2	Z	3.31	3.31	0	%100
19	SH4	X	.294	.294	0	%100
20	SH4	Z	.17	.17	0	%100
21	V1	X	4.503	4.503	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
22	V1	Z	2.6	2.6	0	%100
23	V2	X	2.787	2.787	0	%100
24	V2	Z	1.609	1.609	0	%100
25	V3	X	2.787	2.787	0	%100
26	V3	Z	1.609	1.609	0	%100
27	V6	X	4.503	4.503	0	%100
28	V6	Z	2.6	2.6	0	%100
29	V4	X	2.787	2.787	0	%100
30	V4	Z	1.609	1.609	0	%100
31	V5	X	2.787	2.787	0	%100
32	V5	Z	1.609	1.609	0	%100
33	D2	X	2.69	2.69	0	%100
34	D2	Z	1.553	1.553	0	%100
35	D1	X	2.69	2.69	0	%100
36	D1	Z	1.553	1.553	0	%100
37	D3	X	1.759	1.759	0	%100
38	D3	Z	1.016	1.016	0	%100
39	D4	X	1.759	1.759	0	%100
40	D4	Z	1.016	1.016	0	%100
41	MP4A	X	6.305	6.305	0	%100
42	MP4A	Z	3.64	3.64	0	%100
43	M33	X	2.042	2.042	0	%100
44	M33	Z	1.179	1.179	0	%100
45	M33A	X	1.732	1.732	0	%100
46	M33A	Z	1	1	0	%100
47	M34	X	1.732	1.732	0	%100
48	M34	Z	1	1	0	%100
49	M35	X	1.732	1.732	0	%100
50	M35	Z	1	1	0	%100
51	M36	X	12.445	12.445	0	%100
52	M36	Z	7.185	7.185	0	%100
53	M37	X	12.445	12.445	0	%100
54	M37	Z	7.185	7.185	0	%100
55	M38	X	12.445	12.445	0	%100
56	M38	Z	7.185	7.185	0	%100
57	M39	X	1.732	1.732	0	%100
58	M39	Z	1	1	0	%100
59	M40	X	1.732	1.732	0	%100
60	M40	Z	1	1	0	%100
61	M41	X	1.732	1.732	0	%100
62	M41	Z	1	1	0	%100
63	M42	X	12.445	12.445	0	%100
64	M42	Z	7.185	7.185	0	%100
65	M43	X	12.445	12.445	0	%100
66	M43	Z	7.185	7.185	0	%100
67	M44	X	12.445	12.445	0	%100
68	M44	Z	7.185	7.185	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	3.305	3.305	0	%100
2	FH2	Z	5.724	5.724	0	%100
3	FH1	X	3.305	3.305	0	%100
4	FH1	Z	5.724	5.724	0	%100
5	MP5A	X	3.64	3.64	0	%100
6	MP5A	Z	6.305	6.305	0	%100



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 Designer : Connor Rice
 Job Number : 100719
 Model Name : 469068-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
7	MP3A	X	3.64	3.64	0	%100
8	MP3A	Z	6.305	6.305	0	%100
9	MP2A	X	3.64	3.64	0	%100
10	MP2A	Z	6.305	6.305	0	%100
11	MP1A	X	3.64	3.64	0	%100
12	MP1A	Z	6.305	6.305	0	%100
13	SH1	X	3.47	3.47	0	%100
14	SH1	Z	6.011	6.011	0	%100
15	SH3	X	.33	.33	0	%100
16	SH3	Z	.572	.572	0	%100
17	SH2	X	3.47	3.47	0	%100
18	SH2	Z	6.011	6.011	0	%100
19	SH4	X	.33	.33	0	%100
20	SH4	Z	.572	.572	0	%100
21	V1	X	2.6	2.6	0	%100
22	V1	Z	4.503	4.503	0	%100
23	V2	X	1.609	1.609	0	%100
24	V2	Z	2.787	2.787	0	%100
25	V3	X	1.609	1.609	0	%100
26	V3	Z	2.787	2.787	0	%100
27	V6	X	2.6	2.6	0	%100
28	V6	Z	4.503	4.503	0	%100
29	V4	X	1.609	1.609	0	%100
30	V4	Z	2.787	2.787	0	%100
31	V5	X	1.609	1.609	0	%100
32	V5	Z	2.787	2.787	0	%100
33	D2	X	1.58	1.58	0	%100
34	D2	Z	2.737	2.737	0	%100
35	D1	X	1.58	1.58	0	%100
36	D1	Z	2.737	2.737	0	%100
37	D3	X	1.043	1.043	0	%100
38	D3	Z	1.807	1.807	0	%100
39	D4	X	1.043	1.043	0	%100
40	D4	Z	1.807	1.807	0	%100
41	MP4A	X	3.64	3.64	0	%100
42	MP4A	Z	6.305	6.305	0	%100
43	M33	X	.115	.115	0	%100
44	M33	Z	.199	.199	0	%100
45	M33A	X	1	1	0	%100
46	M33A	Z	1.732	1.732	0	%100
47	M34	X	1	1	0	%100
48	M34	Z	1.732	1.732	0	%100
49	M35	X	1	1	0	%100
50	M35	Z	1.732	1.732	0	%100
51	M36	X	7.185	7.185	0	%100
52	M36	Z	12.445	12.445	0	%100
53	M37	X	7.185	7.185	0	%100
54	M37	Z	12.445	12.445	0	%100
55	M38	X	7.185	7.185	0	%100
56	M38	Z	12.445	12.445	0	%100
57	M39	X	1	1	0	%100
58	M39	Z	1.732	1.732	0	%100
59	M40	X	1	1	0	%100
60	M40	Z	1.732	1.732	0	%100
61	M41	X	1	1	0	%100
62	M41	Z	1.732	1.732	0	%100
63	M42	X	7.185	7.185	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
64	M42	Z	12.445	12.445	0	%100
65	M43	X	7.185	7.185	0	%100
66	M43	Z	12.445	12.445	0	%100
67	M44	X	7.185	7.185	0	%100
68	M44	Z	12.445	12.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
1	FH2	X	0	0	0	%100
2	FH2	Z	8.813	8.813	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	8.813	8.813	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	7.28	7.28	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	7.28	7.28	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	7.28	7.28	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	7.28	7.28	0	%100
13	SH1	X	0	0	0	%100
14	SH1	Z	3.96	3.96	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	3.96	3.96	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	3.96	3.96	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	3.96	3.96	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	5.2	5.2	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	3.219	3.219	0	%100
25	V3	X	0	0	0	%100
26	V3	Z	3.219	3.219	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	5.2	5.2	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	3.219	3.219	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	3.219	3.219	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	2.651	2.651	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	2.651	2.651	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	2.651	2.651	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	2.651	2.651	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	7.28	7.28	0	%100
43	M33	X	0	0	0	%100
44	M33	Z	1.615	1.615	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	8.185	8.185	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	8.185	8.185	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
49	M35	X	0	0	0	%100
50	M35	Z	8.185	8.185	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	8.185	8.185	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	8.185	8.185	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	8.185	8.185	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	8.185	8.185	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	8.185	8.185	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	8.185	8.185	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	8.185	8.185	0	%100
65	M43	X	0	0	0	%100
66	M43	Z	8.185	8.185	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	8.185	8.185	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	FH2	X	-3.305	-3.305	0	%100
2	FH2	Z	5.724	5.724	0	%100
3	FH1	X	-3.305	-3.305	0	%100
4	FH1	Z	5.724	5.724	0	%100
5	MP5A	X	-3.64	-3.64	0	%100
6	MP5A	Z	6.305	6.305	0	%100
7	MP3A	X	-3.64	-3.64	0	%100
8	MP3A	Z	6.305	6.305	0	%100
9	MP2A	X	-3.64	-3.64	0	%100
10	MP2A	Z	6.305	6.305	0	%100
11	MP1A	X	-3.64	-3.64	0	%100
12	MP1A	Z	6.305	6.305	0	%100
13	SH1	X	-.33	-.33	0	%100
14	SH1	Z	.572	.572	0	%100
15	SH3	X	-3.47	-3.47	0	%100
16	SH3	Z	6.011	6.011	0	%100
17	SH2	X	-.33	-.33	0	%100
18	SH2	Z	.572	.572	0	%100
19	SH4	X	-3.47	-3.47	0	%100
20	SH4	Z	6.011	6.011	0	%100
21	V1	X	-2.6	-2.6	0	%100
22	V1	Z	4.503	4.503	0	%100
23	V2	X	-1.609	-1.609	0	%100
24	V2	Z	2.787	2.787	0	%100
25	V3	X	-1.609	-1.609	0	%100
26	V3	Z	2.787	2.787	0	%100
27	V6	X	-2.6	-2.6	0	%100
28	V6	Z	4.503	4.503	0	%100
29	V4	X	-1.609	-1.609	0	%100
30	V4	Z	2.787	2.787	0	%100
31	V5	X	-1.609	-1.609	0	%100
32	V5	Z	2.787	2.787	0	%100
33	D2	X	-1.043	-1.043	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
34	D2	Z	1.807	1.807	0	%100
35	D1	X	-1.043	-1.043	0	%100
36	D1	Z	1.807	1.807	0	%100
37	D3	X	-1.58	-1.58	0	%100
38	D3	Z	2.737	2.737	0	%100
39	D4	X	-1.58	-1.58	0	%100
40	D4	Z	2.737	2.737	0	%100
41	MP4A	X	-3.64	-3.64	0	%100
42	MP4A	Z	6.305	6.305	0	%100
43	M33	X	-2.564	-2.564	0	%100
44	M33	Z	4.44	4.44	0	%100
45	M33A	X	-7.185	-7.185	0	%100
46	M33A	Z	12.445	12.445	0	%100
47	M34	X	-7.185	-7.185	0	%100
48	M34	Z	12.445	12.445	0	%100
49	M35	X	-7.185	-7.185	0	%100
50	M35	Z	12.445	12.445	0	%100
51	M36	X	-1	-1	0	%100
52	M36	Z	1.732	1.732	0	%100
53	M37	X	-1	-1	0	%100
54	M37	Z	1.732	1.732	0	%100
55	M38	X	-1	-1	0	%100
56	M38	Z	1.732	1.732	0	%100
57	M39	X	-7.185	-7.185	0	%100
58	M39	Z	12.445	12.445	0	%100
59	M40	X	-7.185	-7.185	0	%100
60	M40	Z	12.445	12.445	0	%100
61	M41	X	-7.185	-7.185	0	%100
62	M41	Z	12.445	12.445	0	%100
63	M42	X	-1	-1	0	%100
64	M42	Z	1.732	1.732	0	%100
65	M43	X	-1	-1	0	%100
66	M43	Z	1.732	1.732	0	%100
67	M44	X	-1	-1	0	%100
68	M44	Z	1.732	1.732	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
1	FH2	X	-1.908	-1.908	0	%100
2	FH2	Z	1.102	1.102	0	%100
3	FH1	X	-1.908	-1.908	0	%100
4	FH1	Z	1.102	1.102	0	%100
5	MP5A	X	-6.305	-6.305	0	%100
6	MP5A	Z	3.64	3.64	0	%100
7	MP3A	X	-6.305	-6.305	0	%100
8	MP3A	Z	3.64	3.64	0	%100
9	MP2A	X	-6.305	-6.305	0	%100
10	MP2A	Z	3.64	3.64	0	%100
11	MP1A	X	-6.305	-6.305	0	%100
12	MP1A	Z	3.64	3.64	0	%100
13	SH1	X	-.294	-.294	0	%100
14	SH1	Z	.17	.17	0	%100
15	SH3	X	-5.733	-5.733	0	%100
16	SH3	Z	3.31	3.31	0	%100
17	SH2	X	-.294	-.294	0	%100
18	SH2	Z	.17	.17	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
19	SH4	X	-5.733	-5.733	0	%100
20	SH4	Z	3.31	3.31	0	%100
21	V1	X	-4.503	-4.503	0	%100
22	V1	Z	2.6	2.6	0	%100
23	V2	X	-2.787	-2.787	0	%100
24	V2	Z	1.609	1.609	0	%100
25	V3	X	-2.787	-2.787	0	%100
26	V3	Z	1.609	1.609	0	%100
27	V6	X	-4.503	-4.503	0	%100
28	V6	Z	2.6	2.6	0	%100
29	V4	X	-2.787	-2.787	0	%100
30	V4	Z	1.609	1.609	0	%100
31	V5	X	-2.787	-2.787	0	%100
32	V5	Z	1.609	1.609	0	%100
33	D2	X	-1.759	-1.759	0	%100
34	D2	Z	1.016	1.016	0	%100
35	D1	X	-1.759	-1.759	0	%100
36	D1	Z	1.016	1.016	0	%100
37	D3	X	-2.69	-2.69	0	%100
38	D3	Z	1.553	1.553	0	%100
39	D4	X	-2.69	-2.69	0	%100
40	D4	Z	1.553	1.553	0	%100
41	MP4A	X	-6.305	-6.305	0	%100
42	MP4A	Z	3.64	3.64	0	%100
43	M33	X	-6.282	-6.282	0	%100
44	M33	Z	3.627	3.627	0	%100
45	M33A	X	-12.445	-12.445	0	%100
46	M33A	Z	7.185	7.185	0	%100
47	M34	X	-12.445	-12.445	0	%100
48	M34	Z	7.185	7.185	0	%100
49	M35	X	-12.445	-12.445	0	%100
50	M35	Z	7.185	7.185	0	%100
51	M36	X	-1.732	-1.732	0	%100
52	M36	Z	1	1	0	%100
53	M37	X	-1.732	-1.732	0	%100
54	M37	Z	1	1	0	%100
55	M38	X	-1.732	-1.732	0	%100
56	M38	Z	1	1	0	%100
57	M39	X	-12.445	-12.445	0	%100
58	M39	Z	7.185	7.185	0	%100
59	M40	X	-12.445	-12.445	0	%100
60	M40	Z	7.185	7.185	0	%100
61	M41	X	-12.445	-12.445	0	%100
62	M41	Z	7.185	7.185	0	%100
63	M42	X	-1.732	-1.732	0	%100
64	M42	Z	1	1	0	%100
65	M43	X	-1.732	-1.732	0	%100
66	M43	Z	1	1	0	%100
67	M44	X	-1.732	-1.732	0	%100
68	M44	Z	1	1	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	0	0	0	%100
2	FH2	Z	0	0	0	%100
3	FH1	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%1
4	FH1	Z	0	0	0		%100
5	MP5A	X	-7.28	-7.28	0		%100
6	MP5A	Z	0	0	0		%100
7	MP3A	X	-7.28	-7.28	0		%100
8	MP3A	Z	0	0	0		%100
9	MP2A	X	-7.28	-7.28	0		%100
10	MP2A	Z	0	0	0		%100
11	MP1A	X	-7.28	-7.28	0		%100
12	MP1A	Z	0	0	0		%100
13	SH1	X	-3.32	-3.32	0		%100
14	SH1	Z	0	0	0		%100
15	SH3	X	-3.32	-3.32	0		%100
16	SH3	Z	0	0	0		%100
17	SH2	X	-3.32	-3.32	0		%100
18	SH2	Z	0	0	0		%100
19	SH4	X	-3.32	-3.32	0		%100
20	SH4	Z	0	0	0		%100
21	V1	X	-5.2	-5.2	0		%100
22	V1	Z	0	0	0		%100
23	V2	X	-3.219	-3.219	0		%100
24	V2	Z	0	0	0		%100
25	V3	X	-3.219	-3.219	0		%100
26	V3	Z	0	0	0		%100
27	V6	X	-5.2	-5.2	0		%100
28	V6	Z	0	0	0		%100
29	V4	X	-3.219	-3.219	0		%100
30	V4	Z	0	0	0		%100
31	V5	X	-3.219	-3.219	0		%100
32	V5	Z	0	0	0		%100
33	D2	X	-2.541	-2.541	0		%100
34	D2	Z	0	0	0		%100
35	D1	X	-2.541	-2.541	0		%100
36	D1	Z	0	0	0		%100
37	D3	X	-2.541	-2.541	0		%100
38	D3	Z	0	0	0		%100
39	D4	X	-2.541	-2.541	0		%100
40	D4	Z	0	0	0		%100
41	MP4A	X	-7.28	-7.28	0		%100
42	MP4A	Z	0	0	0		%100
43	M33	X	-5.869	-5.869	0		%100
44	M33	Z	0	0	0		%100
45	M33A	X	-8.185	-8.185	0		%100
46	M33A	Z	0	0	0		%100
47	M34	X	-8.185	-8.185	0		%100
48	M34	Z	0	0	0		%100
49	M35	X	-8.185	-8.185	0		%100
50	M35	Z	0	0	0		%100
51	M36	X	-8.185	-8.185	0		%100
52	M36	Z	0	0	0		%100
53	M37	X	-8.185	-8.185	0		%100
54	M37	Z	0	0	0		%100
55	M38	X	-8.185	-8.185	0		%100
56	M38	Z	0	0	0		%100
57	M39	X	-8.185	-8.185	0		%100
58	M39	Z	0	0	0		%100
59	M40	X	-8.185	-8.185	0		%100
60	M40	Z	0	0	0		%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
61	M41	X	-8.185	-8.185	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	-8.185	-8.185	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	-8.185	-8.185	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	-8.185	-8.185	0	%100
68	M44	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	FH2	X	-1.908	-1.908	0	%100
2	FH2	Z	-1.102	-1.102	0	%100
3	FH1	X	-1.908	-1.908	0	%100
4	FH1	Z	-1.102	-1.102	0	%100
5	MP5A	X	-6.305	-6.305	0	%100
6	MP5A	Z	-3.64	-3.64	0	%100
7	MP3A	X	-6.305	-6.305	0	%100
8	MP3A	Z	-3.64	-3.64	0	%100
9	MP2A	X	-6.305	-6.305	0	%100
10	MP2A	Z	-3.64	-3.64	0	%100
11	MP1A	X	-6.305	-6.305	0	%100
12	MP1A	Z	-3.64	-3.64	0	%100
13	SH1	X	-5.733	-5.733	0	%100
14	SH1	Z	-3.31	-3.31	0	%100
15	SH3	X	-2.94	-2.94	0	%100
16	SH3	Z	-.17	-.17	0	%100
17	SH2	X	-5.733	-5.733	0	%100
18	SH2	Z	-3.31	-3.31	0	%100
19	SH4	X	-2.94	-2.94	0	%100
20	SH4	Z	-.17	-.17	0	%100
21	V1	X	-4.503	-4.503	0	%100
22	V1	Z	-2.6	-2.6	0	%100
23	V2	X	-2.787	-2.787	0	%100
24	V2	Z	-1.609	-1.609	0	%100
25	V3	X	-2.787	-2.787	0	%100
26	V3	Z	-1.609	-1.609	0	%100
27	V6	X	-4.503	-4.503	0	%100
28	V6	Z	-2.6	-2.6	0	%100
29	V4	X	-2.787	-2.787	0	%100
30	V4	Z	-1.609	-1.609	0	%100
31	V5	X	-2.787	-2.787	0	%100
32	V5	Z	-1.609	-1.609	0	%100
33	D2	X	-2.69	-2.69	0	%100
34	D2	Z	-1.553	-1.553	0	%100
35	D1	X	-2.69	-2.69	0	%100
36	D1	Z	-1.553	-1.553	0	%100
37	D3	X	-1.759	-1.759	0	%100
38	D3	Z	-1.016	-1.016	0	%100
39	D4	X	-1.759	-1.759	0	%100
40	D4	Z	-1.016	-1.016	0	%100
41	MP4A	X	-6.305	-6.305	0	%100
42	MP4A	Z	-3.64	-3.64	0	%100
43	M33	X	-2.042	-2.042	0	%100
44	M33	Z	-1.179	-1.179	0	%100
45	M33A	X	-1.732	-1.732	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
46	M33A	Z	-1	-1	0	%100
47	M34	X	-1.732	-1.732	0	%100
48	M34	Z	-1	-1	0	%100
49	M35	X	-1.732	-1.732	0	%100
50	M35	Z	-1	-1	0	%100
51	M36	X	-12.445	-12.445	0	%100
52	M36	Z	-7.185	-7.185	0	%100
53	M37	X	-12.445	-12.445	0	%100
54	M37	Z	-7.185	-7.185	0	%100
55	M38	X	-12.445	-12.445	0	%100
56	M38	Z	-7.185	-7.185	0	%100
57	M39	X	-1.732	-1.732	0	%100
58	M39	Z	-1	-1	0	%100
59	M40	X	-1.732	-1.732	0	%100
60	M40	Z	-1	-1	0	%100
61	M41	X	-1.732	-1.732	0	%100
62	M41	Z	-1	-1	0	%100
63	M42	X	-12.445	-12.445	0	%100
64	M42	Z	-7.185	-7.185	0	%100
65	M43	X	-12.445	-12.445	0	%100
66	M43	Z	-7.185	-7.185	0	%100
67	M44	X	-12.445	-12.445	0	%100
68	M44	Z	-7.185	-7.185	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	-3.305	-3.305	0	%100
2	FH2	Z	-5.724	-5.724	0	%100
3	FH1	X	-3.305	-3.305	0	%100
4	FH1	Z	-5.724	-5.724	0	%100
5	MP5A	X	-3.64	-3.64	0	%100
6	MP5A	Z	-6.305	-6.305	0	%100
7	MP3A	X	-3.64	-3.64	0	%100
8	MP3A	Z	-6.305	-6.305	0	%100
9	MP2A	X	-3.64	-3.64	0	%100
10	MP2A	Z	-6.305	-6.305	0	%100
11	MP1A	X	-3.64	-3.64	0	%100
12	MP1A	Z	-6.305	-6.305	0	%100
13	SH1	X	-3.47	-3.47	0	%100
14	SH1	Z	-6.011	-6.011	0	%100
15	SH3	X	-.33	-.33	0	%100
16	SH3	Z	-.572	-.572	0	%100
17	SH2	X	-3.47	-3.47	0	%100
18	SH2	Z	-6.011	-6.011	0	%100
19	SH4	X	-.33	-.33	0	%100
20	SH4	Z	-.572	-.572	0	%100
21	V1	X	-2.6	-2.6	0	%100
22	V1	Z	-4.503	-4.503	0	%100
23	V2	X	-1.609	-1.609	0	%100
24	V2	Z	-2.787	-2.787	0	%100
25	V3	X	-1.609	-1.609	0	%100
26	V3	Z	-2.787	-2.787	0	%100
27	V6	X	-2.6	-2.6	0	%100
28	V6	Z	-4.503	-4.503	0	%100
29	V4	X	-1.609	-1.609	0	%100
30	V4	Z	-2.787	-2.787	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
31	V5	X	-1.609	-1.609	0	%100
32	V5	Z	-2.787	-2.787	0	%100
33	D2	X	-1.58	-1.58	0	%100
34	D2	Z	-2.737	-2.737	0	%100
35	D1	X	-1.58	-1.58	0	%100
36	D1	Z	-2.737	-2.737	0	%100
37	D3	X	-1.043	-1.043	0	%100
38	D3	Z	-1.807	-1.807	0	%100
39	D4	X	-1.043	-1.043	0	%100
40	D4	Z	-1.807	-1.807	0	%100
41	MP4A	X	-3.64	-3.64	0	%100
42	MP4A	Z	-6.305	-6.305	0	%100
43	M33	X	-.115	-.115	0	%100
44	M33	Z	-.199	-.199	0	%100
45	M33A	X	-1	-1	0	%100
46	M33A	Z	-1.732	-1.732	0	%100
47	M34	X	-1	-1	0	%100
48	M34	Z	-1.732	-1.732	0	%100
49	M35	X	-1	-1	0	%100
50	M35	Z	-1.732	-1.732	0	%100
51	M36	X	-7.185	-7.185	0	%100
52	M36	Z	-12.445	-12.445	0	%100
53	M37	X	-7.185	-7.185	0	%100
54	M37	Z	-12.445	-12.445	0	%100
55	M38	X	-7.185	-7.185	0	%100
56	M38	Z	-12.445	-12.445	0	%100
57	M39	X	-1	-1	0	%100
58	M39	Z	-1.732	-1.732	0	%100
59	M40	X	-1	-1	0	%100
60	M40	Z	-1.732	-1.732	0	%100
61	M41	X	-1	-1	0	%100
62	M41	Z	-1.732	-1.732	0	%100
63	M42	X	-7.185	-7.185	0	%100
64	M42	Z	-12.445	-12.445	0	%100
65	M43	X	-7.185	-7.185	0	%100
66	M43	Z	-12.445	-12.445	0	%100
67	M44	X	-7.185	-7.185	0	%100
68	M44	Z	-12.445	-12.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	FH2	X	0	0	0	%100
2	FH2	Z	-3.454	-3.454	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	-3.454	-3.454	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	-3.168	-3.168	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-3.168	-3.168	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-3.179	-3.179	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-3.168	-3.168	0	%100
13	SH1	X	0	0	0	%100
14	SH1	Z	-1.649	-1.649	0	%100
15	SH3	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	%1
16	SH3	Z	-1.649	-1.649	0		%100
17	SH2	X	0	0	0		%100
18	SH2	Z	-1.649	-1.649	0		%100
19	SH4	X	0	0	0		%100
20	SH4	Z	-1.649	-1.649	0		%100
21	V1	X	0	0	0		%100
22	V1	Z	-2.311	-2.311	0		%100
23	V2	X	0	0	0		%100
24	V2	Z	-1.955	-1.955	0		%100
25	V3	X	0	0	0		%100
26	V3	Z	-1.955	-1.955	0		%100
27	V6	X	0	0	0		%100
28	V6	Z	-2.311	-2.311	0		%100
29	V4	X	0	0	0		%100
30	V4	Z	-1.955	-1.955	0		%100
31	V5	X	0	0	0		%100
32	V5	Z	-1.955	-1.955	0		%100
33	D2	X	0	0	0		%100
34	D2	Z	-1.695	-1.695	0		%100
35	D1	X	0	0	0		%100
36	D1	Z	-1.695	-1.695	0		%100
37	D3	X	0	0	0		%100
38	D3	Z	-1.695	-1.695	0		%100
39	D4	X	0	0	0		%100
40	D4	Z	-1.695	-1.695	0		%100
41	MP4A	X	0	0	0		%100
42	MP4A	Z	-2.924	-2.924	0		%100
43	M33	X	0	0	0		%100
44	M33	Z	-.705	-.705	0		%100
45	M33A	X	0	0	0		%100
46	M33A	Z	-2.561	-2.561	0		%100
47	M34	X	0	0	0		%100
48	M34	Z	-2.561	-2.561	0		%100
49	M35	X	0	0	0		%100
50	M35	Z	-2.561	-2.561	0		%100
51	M36	X	0	0	0		%100
52	M36	Z	-2.561	-2.561	0		%100
53	M37	X	0	0	0		%100
54	M37	Z	-2.561	-2.561	0		%100
55	M38	X	0	0	0		%100
56	M38	Z	-2.561	-2.561	0		%100
57	M39	X	0	0	0		%100
58	M39	Z	-2.561	-2.561	0		%100
59	M40	X	0	0	0		%100
60	M40	Z	-2.561	-2.561	0		%100
61	M41	X	0	0	0		%100
62	M41	Z	-2.561	-2.561	0		%100
63	M42	X	0	0	0		%100
64	M42	Z	-2.561	-2.561	0		%100
65	M43	X	0	0	0		%100
66	M43	Z	-2.561	-2.561	0		%100
67	M44	X	0	0	0		%100
68	M44	Z	-2.561	-2.561	0		%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	%1
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Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft,ft]	End Location[ft,ft,ft]
1	FH2	X	1.295	1.295	0	%100
2	FH2	Z	-2.243	-2.243	0	%100
3	FH1	X	1.295	1.295	0	%100
4	FH1	Z	-2.243	-2.243	0	%100
5	MP5A	X	1.584	1.584	0	%100
6	MP5A	Z	-2.744	-2.744	0	%100
7	MP3A	X	1.584	1.584	0	%100
8	MP3A	Z	-2.744	-2.744	0	%100
9	MP2A	X	1.589	1.589	0	%100
10	MP2A	Z	-2.753	-2.753	0	%100
11	MP1A	X	1.584	1.584	0	%100
12	MP1A	Z	-2.744	-2.744	0	%100
13	SH1	X	.137	.137	0	%100
14	SH1	Z	-.238	-.238	0	%100
15	SH3	X	1.445	1.445	0	%100
16	SH3	Z	-2.502	-2.502	0	%100
17	SH2	X	.137	.137	0	%100
18	SH2	Z	-.238	-.238	0	%100
19	SH4	X	1.445	1.445	0	%100
20	SH4	Z	-2.502	-2.502	0	%100
21	V1	X	1.155	1.155	0	%100
22	V1	Z	-2.001	-2.001	0	%100
23	V2	X	.977	.977	0	%100
24	V2	Z	-1.693	-1.693	0	%100
25	V3	X	.977	.977	0	%100
26	V3	Z	-1.693	-1.693	0	%100
27	V6	X	1.155	1.155	0	%100
28	V6	Z	-2.001	-2.001	0	%100
29	V4	X	.977	.977	0	%100
30	V4	Z	-1.693	-1.693	0	%100
31	V5	X	.977	.977	0	%100
32	V5	Z	-1.693	-1.693	0	%100
33	D2	X	.667	.667	0	%100
34	D2	Z	-1.155	-1.155	0	%100
35	D1	X	.667	.667	0	%100
36	D1	Z	-1.155	-1.155	0	%100
37	D3	X	1.01	1.01	0	%100
38	D3	Z	-1.75	-1.75	0	%100
39	D4	X	1.01	1.01	0	%100
40	D4	Z	-1.75	-1.75	0	%100
41	MP4A	X	1.462	1.462	0	%100
42	MP4A	Z	-2.532	-2.532	0	%100
43	M33	X	1.119	1.119	0	%100
44	M33	Z	-1.939	-1.939	0	%100
45	M33A	X	1.836	1.836	0	%100
46	M33A	Z	-3.18	-3.18	0	%100
47	M34	X	1.836	1.836	0	%100
48	M34	Z	-3.18	-3.18	0	%100
49	M35	X	1.836	1.836	0	%100
50	M35	Z	-3.18	-3.18	0	%100
51	M36	X	.725	.725	0	%100
52	M36	Z	-1.256	-1.256	0	%100
53	M37	X	.725	.725	0	%100
54	M37	Z	-1.256	-1.256	0	%100
55	M38	X	.725	.725	0	%100
56	M38	Z	-1.256	-1.256	0	%100
57	M39	X	1.836	1.836	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%
58	M39	Z	-3.18	-3.18	0		%100
59	M40	X	1.836	1.836	0		%100
60	M40	Z	-3.18	-3.18	0		%100
61	M41	X	1.836	1.836	0		%100
62	M41	Z	-3.18	-3.18	0		%100
63	M42	X	.725	.725	0		%100
64	M42	Z	-1.256	-1.256	0		%100
65	M43	X	.725	.725	0		%100
66	M43	Z	-1.256	-1.256	0		%100
67	M44	X	.725	.725	0		%100
68	M44	Z	-1.256	-1.256	0		%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%
1	FH2	X	.748	.748	0		%100
2	FH2	Z	-.432	-.432	0		%100
3	FH1	X	.748	.748	0		%100
4	FH1	Z	-.432	-.432	0		%100
5	MP5A	X	2.744	2.744	0		%100
6	MP5A	Z	-1.584	-1.584	0		%100
7	MP3A	X	2.744	2.744	0		%100
8	MP3A	Z	-1.584	-1.584	0		%100
9	MP2A	X	2.753	2.753	0		%100
10	MP2A	Z	-1.589	-1.589	0		%100
11	MP1A	X	2.744	2.744	0		%100
12	MP1A	Z	-1.584	-1.584	0		%100
13	SH1	X	.123	.123	0		%100
14	SH1	Z	-.071	-.071	0		%100
15	SH3	X	2.387	2.387	0		%100
16	SH3	Z	-1.378	-1.378	0		%100
17	SH2	X	.123	.123	0		%100
18	SH2	Z	-.071	-.071	0		%100
19	SH4	X	2.387	2.387	0		%100
20	SH4	Z	-1.378	-1.378	0		%100
21	V1	X	2.001	2.001	0		%100
22	V1	Z	-1.155	-1.155	0		%100
23	V2	X	1.693	1.693	0		%100
24	V2	Z	-.977	-.977	0		%100
25	V3	X	1.693	1.693	0		%100
26	V3	Z	-.977	-.977	0		%100
27	V6	X	2.001	2.001	0		%100
28	V6	Z	-1.155	-1.155	0		%100
29	V4	X	1.693	1.693	0		%100
30	V4	Z	-.977	-.977	0		%100
31	V5	X	1.693	1.693	0		%100
32	V5	Z	-.977	-.977	0		%100
33	D2	X	1.125	1.125	0		%100
34	D2	Z	-.649	-.649	0		%100
35	D1	X	1.125	1.125	0		%100
36	D1	Z	-.649	-.649	0		%100
37	D3	X	1.72	1.72	0		%100
38	D3	Z	-.993	-.993	0		%100
39	D4	X	1.72	1.72	0		%100
40	D4	Z	-.993	-.993	0		%100
41	MP4A	X	2.532	2.532	0		%100
42	MP4A	Z	-1.462	-1.462	0		%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,...]	End Location[ft,...]
43	M33	X	2.743	2.743	0	%100
44	M33	Z	-1.584	-1.584	0	%100
45	M33A	X	3.18	3.18	0	%100
46	M33A	Z	-1.836	-1.836	0	%100
47	M34	X	3.18	3.18	0	%100
48	M34	Z	-1.836	-1.836	0	%100
49	M35	X	3.18	3.18	0	%100
50	M35	Z	-1.836	-1.836	0	%100
51	M36	X	1.256	1.256	0	%100
52	M36	Z	-.725	-.725	0	%100
53	M37	X	1.256	1.256	0	%100
54	M37	Z	-.725	-.725	0	%100
55	M38	X	1.256	1.256	0	%100
56	M38	Z	-.725	-.725	0	%100
57	M39	X	3.18	3.18	0	%100
58	M39	Z	-1.836	-1.836	0	%100
59	M40	X	3.18	3.18	0	%100
60	M40	Z	-1.836	-1.836	0	%100
61	M41	X	3.18	3.18	0	%100
62	M41	Z	-1.836	-1.836	0	%100
63	M42	X	1.256	1.256	0	%100
64	M42	Z	-.725	-.725	0	%100
65	M43	X	1.256	1.256	0	%100
66	M43	Z	-.725	-.725	0	%100
67	M44	X	1.256	1.256	0	%100
68	M44	Z	-.725	-.725	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	FH2	X	0	0	0	%100
2	FH2	Z	0	0	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	0	0	0	%100
5	MP5A	X	3.168	3.168	0	%100
6	MP5A	Z	0	0	0	%100
7	MP3A	X	3.168	3.168	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	3.179	3.179	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	3.168	3.168	0	%100
12	MP1A	Z	0	0	0	%100
13	SH1	X	1.382	1.382	0	%100
14	SH1	Z	0	0	0	%100
15	SH3	X	1.382	1.382	0	%100
16	SH3	Z	0	0	0	%100
17	SH2	X	1.382	1.382	0	%100
18	SH2	Z	0	0	0	%100
19	SH4	X	1.382	1.382	0	%100
20	SH4	Z	0	0	0	%100
21	V1	X	2.311	2.311	0	%100
22	V1	Z	0	0	0	%100
23	V2	X	1.955	1.955	0	%100
24	V2	Z	0	0	0	%100
25	V3	X	1.955	1.955	0	%100
26	V3	Z	0	0	0	%100
27	V6	X	2.311	2.311	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
28	V6	Z	0	0	0	%100
29	V4	X	1.955	1.955	0	%100
30	V4	Z	0	0	0	%100
31	V5	X	1.955	1.955	0	%100
32	V5	Z	0	0	0	%100
33	D2	X	1.625	1.625	0	%100
34	D2	Z	0	0	0	%100
35	D1	X	1.625	1.625	0	%100
36	D1	Z	0	0	0	%100
37	D3	X	1.625	1.625	0	%100
38	D3	Z	0	0	0	%100
39	D4	X	1.625	1.625	0	%100
40	D4	Z	0	0	0	%100
41	MP4A	X	2.924	2.924	0	%100
42	MP4A	Z	0	0	0	%100
43	M33	X	2.563	2.563	0	%100
44	M33	Z	0	0	0	%100
45	M33A	X	2.561	2.561	0	%100
46	M33A	Z	0	0	0	%100
47	M34	X	2.561	2.561	0	%100
48	M34	Z	0	0	0	%100
49	M35	X	2.561	2.561	0	%100
50	M35	Z	0	0	0	%100
51	M36	X	2.561	2.561	0	%100
52	M36	Z	0	0	0	%100
53	M37	X	2.561	2.561	0	%100
54	M37	Z	0	0	0	%100
55	M38	X	2.561	2.561	0	%100
56	M38	Z	0	0	0	%100
57	M39	X	2.561	2.561	0	%100
58	M39	Z	0	0	0	%100
59	M40	X	2.561	2.561	0	%100
60	M40	Z	0	0	0	%100
61	M41	X	2.561	2.561	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	2.561	2.561	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	2.561	2.561	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	2.561	2.561	0	%100
68	M44	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	.748	.748	0	%100
2	FH2	Z	.432	.432	0	%100
3	FH1	X	.748	.748	0	%100
4	FH1	Z	.432	.432	0	%100
5	MP5A	X	2.744	2.744	0	%100
6	MP5A	Z	1.584	1.584	0	%100
7	MP3A	X	2.744	2.744	0	%100
8	MP3A	Z	1.584	1.584	0	%100
9	MP2A	X	2.753	2.753	0	%100
10	MP2A	Z	1.589	1.589	0	%100
11	MP1A	X	2.744	2.744	0	%100
12	MP1A	Z	1.584	1.584	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
13	SH1	X	2.387	2.387	0	%100
14	SH1	Z	1.378	1.378	0	%100
15	SH3	X	.123	.123	0	%100
16	SH3	Z	.071	.071	0	%100
17	SH2	X	2.387	2.387	0	%100
18	SH2	Z	1.378	1.378	0	%100
19	SH4	X	.123	.123	0	%100
20	SH4	Z	.071	.071	0	%100
21	V1	X	2.001	2.001	0	%100
22	V1	Z	1.155	1.155	0	%100
23	V2	X	1.693	1.693	0	%100
24	V2	Z	.977	.977	0	%100
25	V3	X	1.693	1.693	0	%100
26	V3	Z	.977	.977	0	%100
27	V6	X	2.001	2.001	0	%100
28	V6	Z	1.155	1.155	0	%100
29	V4	X	1.693	1.693	0	%100
30	V4	Z	.977	.977	0	%100
31	V5	X	1.693	1.693	0	%100
32	V5	Z	.977	.977	0	%100
33	D2	X	1.72	1.72	0	%100
34	D2	Z	.993	.993	0	%100
35	D1	X	1.72	1.72	0	%100
36	D1	Z	.993	.993	0	%100
37	D3	X	1.125	1.125	0	%100
38	D3	Z	.649	.649	0	%100
39	D4	X	1.125	1.125	0	%100
40	D4	Z	.649	.649	0	%100
41	MP4A	X	2.532	2.532	0	%100
42	MP4A	Z	1.462	1.462	0	%100
43	M33	X	.891	.891	0	%100
44	M33	Z	.515	.515	0	%100
45	M33A	X	1.256	1.256	0	%100
46	M33A	Z	.725	.725	0	%100
47	M34	X	1.256	1.256	0	%100
48	M34	Z	.725	.725	0	%100
49	M35	X	1.256	1.256	0	%100
50	M35	Z	.725	.725	0	%100
51	M36	X	3.18	3.18	0	%100
52	M36	Z	1.836	1.836	0	%100
53	M37	X	3.18	3.18	0	%100
54	M37	Z	1.836	1.836	0	%100
55	M38	X	3.18	3.18	0	%100
56	M38	Z	1.836	1.836	0	%100
57	M39	X	1.256	1.256	0	%100
58	M39	Z	.725	.725	0	%100
59	M40	X	1.256	1.256	0	%100
60	M40	Z	.725	.725	0	%100
61	M41	X	1.256	1.256	0	%100
62	M41	Z	.725	.725	0	%100
63	M42	X	3.18	3.18	0	%100
64	M42	Z	1.836	1.836	0	%100
65	M43	X	3.18	3.18	0	%100
66	M43	Z	1.836	1.836	0	%100
67	M44	X	3.18	3.18	0	%100
68	M44	Z	1.836	1.836	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft,ft]	End Location[ft,ft,ft]
1	FH2	X	1.295	1.295	0	%100
2	FH2	Z	2.243	2.243	0	%100
3	FH1	X	1.295	1.295	0	%100
4	FH1	Z	2.243	2.243	0	%100
5	MP5A	X	1.584	1.584	0	%100
6	MP5A	Z	2.744	2.744	0	%100
7	MP3A	X	1.584	1.584	0	%100
8	MP3A	Z	2.744	2.744	0	%100
9	MP2A	X	1.589	1.589	0	%100
10	MP2A	Z	2.753	2.753	0	%100
11	MP1A	X	1.584	1.584	0	%100
12	MP1A	Z	2.744	2.744	0	%100
13	SH1	X	1.445	1.445	0	%100
14	SH1	Z	2.502	2.502	0	%100
15	SH3	X	.137	.137	0	%100
16	SH3	Z	.238	.238	0	%100
17	SH2	X	1.445	1.445	0	%100
18	SH2	Z	2.502	2.502	0	%100
19	SH4	X	.137	.137	0	%100
20	SH4	Z	.238	.238	0	%100
21	V1	X	1.155	1.155	0	%100
22	V1	Z	2.001	2.001	0	%100
23	V2	X	.977	.977	0	%100
24	V2	Z	1.693	1.693	0	%100
25	V3	X	.977	.977	0	%100
26	V3	Z	1.693	1.693	0	%100
27	V6	X	1.155	1.155	0	%100
28	V6	Z	2.001	2.001	0	%100
29	V4	X	.977	.977	0	%100
30	V4	Z	1.693	1.693	0	%100
31	V5	X	.977	.977	0	%100
32	V5	Z	1.693	1.693	0	%100
33	D2	X	1.01	1.01	0	%100
34	D2	Z	1.75	1.75	0	%100
35	D1	X	1.01	1.01	0	%100
36	D1	Z	1.75	1.75	0	%100
37	D3	X	.667	.667	0	%100
38	D3	Z	1.155	1.155	0	%100
39	D4	X	.667	.667	0	%100
40	D4	Z	1.155	1.155	0	%100
41	MP4A	X	1.462	1.462	0	%100
42	MP4A	Z	2.532	2.532	0	%100
43	M33	X	.05	.05	0	%100
44	M33	Z	.087	.087	0	%100
45	M33A	X	.725	.725	0	%100
46	M33A	Z	1.256	1.256	0	%100
47	M34	X	.725	.725	0	%100
48	M34	Z	1.256	1.256	0	%100
49	M35	X	.725	.725	0	%100
50	M35	Z	1.256	1.256	0	%100
51	M36	X	1.836	1.836	0	%100
52	M36	Z	3.18	3.18	0	%100
53	M37	X	1.836	1.836	0	%100
54	M37	Z	3.18	3.18	0	%100
55	M38	X	1.836	1.836	0	%100
56	M38	Z	3.18	3.18	0	%100
57	M39	X	.725	.725	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
58	M39	Z	1.256	1.256	0	%100
59	M40	X	.725	.725	0	%100
60	M40	Z	1.256	1.256	0	%100
61	M41	X	.725	.725	0	%100
62	M41	Z	1.256	1.256	0	%100
63	M42	X	1.836	1.836	0	%100
64	M42	Z	3.18	3.18	0	%100
65	M43	X	1.836	1.836	0	%100
66	M43	Z	3.18	3.18	0	%100
67	M44	X	1.836	1.836	0	%100
68	M44	Z	3.18	3.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
1	FH2	X	0	0	0	%100
2	FH2	Z	3.454	3.454	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	3.454	3.454	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	3.168	3.168	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	3.168	3.168	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	3.179	3.179	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	3.168	3.168	0	%100
13	SH1	X	0	0	0	%100
14	SH1	Z	1.649	1.649	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	1.649	1.649	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	1.649	1.649	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	1.649	1.649	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	2.311	2.311	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	1.955	1.955	0	%100
25	V3	X	0	0	0	%100
26	V3	Z	1.955	1.955	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	2.311	2.311	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	1.955	1.955	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	1.955	1.955	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	1.695	1.695	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	1.695	1.695	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	1.695	1.695	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	1.695	1.695	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	2.924	2.924	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
43	M33	X	0	0	0	%100
44	M33	Z	.705	.705	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	2.561	2.561	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	2.561	2.561	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	2.561	2.561	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	2.561	2.561	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	2.561	2.561	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	2.561	2.561	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	2.561	2.561	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	2.561	2.561	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	2.561	2.561	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	2.561	2.561	0	%100
65	M43	X	0	0	0	%100
66	M43	Z	2.561	2.561	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	2.561	2.561	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	-1.295	-1.295	0	%100
2	FH2	Z	2.243	2.243	0	%100
3	FH1	X	-1.295	-1.295	0	%100
4	FH1	Z	2.243	2.243	0	%100
5	MP5A	X	-1.584	-1.584	0	%100
6	MP5A	Z	2.744	2.744	0	%100
7	MP3A	X	-1.584	-1.584	0	%100
8	MP3A	Z	2.744	2.744	0	%100
9	MP2A	X	-1.589	-1.589	0	%100
10	MP2A	Z	2.753	2.753	0	%100
11	MP1A	X	-1.584	-1.584	0	%100
12	MP1A	Z	2.744	2.744	0	%100
13	SH1	X	-.137	-.137	0	%100
14	SH1	Z	.238	.238	0	%100
15	SH3	X	-1.445	-1.445	0	%100
16	SH3	Z	2.502	2.502	0	%100
17	SH2	X	-.137	-.137	0	%100
18	SH2	Z	.238	.238	0	%100
19	SH4	X	-1.445	-1.445	0	%100
20	SH4	Z	2.502	2.502	0	%100
21	V1	X	-1.155	-1.155	0	%100
22	V1	Z	2.001	2.001	0	%100
23	V2	X	-.977	-.977	0	%100
24	V2	Z	1.693	1.693	0	%100
25	V3	X	-.977	-.977	0	%100
26	V3	Z	1.693	1.693	0	%100
27	V6	X	-1.155	-1.155	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
28	V6	Z	2.001	2.001	0	%100
29	V4	X	-977	-977	0	%100
30	V4	Z	1.693	1.693	0	%100
31	V5	X	-977	-977	0	%100
32	V5	Z	1.693	1.693	0	%100
33	D2	X	-667	-667	0	%100
34	D2	Z	1.155	1.155	0	%100
35	D1	X	-667	-667	0	%100
36	D1	Z	1.155	1.155	0	%100
37	D3	X	-1.01	-1.01	0	%100
38	D3	Z	1.75	1.75	0	%100
39	D4	X	-1.01	-1.01	0	%100
40	D4	Z	1.75	1.75	0	%100
41	MP4A	X	-1.462	-1.462	0	%100
42	MP4A	Z	2.532	2.532	0	%100
43	M33	X	-1.119	-1.119	0	%100
44	M33	Z	1.939	1.939	0	%100
45	M33A	X	-1.836	-1.836	0	%100
46	M33A	Z	3.18	3.18	0	%100
47	M34	X	-1.836	-1.836	0	%100
48	M34	Z	3.18	3.18	0	%100
49	M35	X	-1.836	-1.836	0	%100
50	M35	Z	3.18	3.18	0	%100
51	M36	X	-.725	-.725	0	%100
52	M36	Z	1.256	1.256	0	%100
53	M37	X	-.725	-.725	0	%100
54	M37	Z	1.256	1.256	0	%100
55	M38	X	-.725	-.725	0	%100
56	M38	Z	1.256	1.256	0	%100
57	M39	X	-1.836	-1.836	0	%100
58	M39	Z	3.18	3.18	0	%100
59	M40	X	-1.836	-1.836	0	%100
60	M40	Z	3.18	3.18	0	%100
61	M41	X	-1.836	-1.836	0	%100
62	M41	Z	3.18	3.18	0	%100
63	M42	X	-.725	-.725	0	%100
64	M42	Z	1.256	1.256	0	%100
65	M43	X	-.725	-.725	0	%100
66	M43	Z	1.256	1.256	0	%100
67	M44	X	-.725	-.725	0	%100
68	M44	Z	1.256	1.256	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	-.748	-.748	0	%100
2	FH2	Z	.432	.432	0	%100
3	FH1	X	-.748	-.748	0	%100
4	FH1	Z	.432	.432	0	%100
5	MP5A	X	-2.744	-2.744	0	%100
6	MP5A	Z	1.584	1.584	0	%100
7	MP3A	X	-2.744	-2.744	0	%100
8	MP3A	Z	1.584	1.584	0	%100
9	MP2A	X	-2.753	-2.753	0	%100
10	MP2A	Z	1.589	1.589	0	%100
11	MP1A	X	-2.744	-2.744	0	%100
12	MP1A	Z	1.584	1.584	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft,ft]	End Location[ft,ft,ft]
13	SH1	X	-.123	-.123	0	%100
14	SH1	Z	.071	.071	0	%100
15	SH3	X	-2.387	-2.387	0	%100
16	SH3	Z	1.378	1.378	0	%100
17	SH2	X	-.123	-.123	0	%100
18	SH2	Z	.071	.071	0	%100
19	SH4	X	-2.387	-2.387	0	%100
20	SH4	Z	1.378	1.378	0	%100
21	V1	X	-2.001	-2.001	0	%100
22	V1	Z	1.155	1.155	0	%100
23	V2	X	-1.693	-1.693	0	%100
24	V2	Z	.977	.977	0	%100
25	V3	X	-1.693	-1.693	0	%100
26	V3	Z	.977	.977	0	%100
27	V6	X	-2.001	-2.001	0	%100
28	V6	Z	1.155	1.155	0	%100
29	V4	X	-1.693	-1.693	0	%100
30	V4	Z	.977	.977	0	%100
31	V5	X	-1.693	-1.693	0	%100
32	V5	Z	.977	.977	0	%100
33	D2	X	-1.125	-1.125	0	%100
34	D2	Z	.649	.649	0	%100
35	D1	X	-1.125	-1.125	0	%100
36	D1	Z	.649	.649	0	%100
37	D3	X	-1.72	-1.72	0	%100
38	D3	Z	.993	.993	0	%100
39	D4	X	-1.72	-1.72	0	%100
40	D4	Z	.993	.993	0	%100
41	MP4A	X	-2.532	-2.532	0	%100
42	MP4A	Z	1.462	1.462	0	%100
43	M33	X	-2.743	-2.743	0	%100
44	M33	Z	1.584	1.584	0	%100
45	M33A	X	-3.18	-3.18	0	%100
46	M33A	Z	1.836	1.836	0	%100
47	M34	X	-3.18	-3.18	0	%100
48	M34	Z	1.836	1.836	0	%100
49	M35	X	-3.18	-3.18	0	%100
50	M35	Z	1.836	1.836	0	%100
51	M36	X	-1.256	-1.256	0	%100
52	M36	Z	.725	.725	0	%100
53	M37	X	-1.256	-1.256	0	%100
54	M37	Z	.725	.725	0	%100
55	M38	X	-1.256	-1.256	0	%100
56	M38	Z	.725	.725	0	%100
57	M39	X	-3.18	-3.18	0	%100
58	M39	Z	1.836	1.836	0	%100
59	M40	X	-3.18	-3.18	0	%100
60	M40	Z	1.836	1.836	0	%100
61	M41	X	-3.18	-3.18	0	%100
62	M41	Z	1.836	1.836	0	%100
63	M42	X	-1.256	-1.256	0	%100
64	M42	Z	.725	.725	0	%100
65	M43	X	-1.256	-1.256	0	%100
66	M43	Z	.725	.725	0	%100
67	M44	X	-1.256	-1.256	0	%100
68	M44	Z	.725	.725	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	%
1	FH2	X	0	0	0		%100
2	FH2	Z	0	0	0		%100
3	FH1	X	0	0	0		%100
4	FH1	Z	0	0	0		%100
5	MP5A	X	-3.168	-3.168	0		%100
6	MP5A	Z	0	0	0		%100
7	MP3A	X	-3.168	-3.168	0		%100
8	MP3A	Z	0	0	0		%100
9	MP2A	X	-3.179	-3.179	0		%100
10	MP2A	Z	0	0	0		%100
11	MP1A	X	-3.168	-3.168	0		%100
12	MP1A	Z	0	0	0		%100
13	SH1	X	-1.382	-1.382	0		%100
14	SH1	Z	0	0	0		%100
15	SH3	X	-1.382	-1.382	0		%100
16	SH3	Z	0	0	0		%100
17	SH2	X	-1.382	-1.382	0		%100
18	SH2	Z	0	0	0		%100
19	SH4	X	-1.382	-1.382	0		%100
20	SH4	Z	0	0	0		%100
21	V1	X	-2.311	-2.311	0		%100
22	V1	Z	0	0	0		%100
23	V2	X	-1.955	-1.955	0		%100
24	V2	Z	0	0	0		%100
25	V3	X	-1.955	-1.955	0		%100
26	V3	Z	0	0	0		%100
27	V6	X	-2.311	-2.311	0		%100
28	V6	Z	0	0	0		%100
29	V4	X	-1.955	-1.955	0		%100
30	V4	Z	0	0	0		%100
31	V5	X	-1.955	-1.955	0		%100
32	V5	Z	0	0	0		%100
33	D2	X	-1.625	-1.625	0		%100
34	D2	Z	0	0	0		%100
35	D1	X	-1.625	-1.625	0		%100
36	D1	Z	0	0	0		%100
37	D3	X	-1.625	-1.625	0		%100
38	D3	Z	0	0	0		%100
39	D4	X	-1.625	-1.625	0		%100
40	D4	Z	0	0	0		%100
41	MP4A	X	-2.924	-2.924	0		%100
42	MP4A	Z	0	0	0		%100
43	M33	X	-2.563	-2.563	0		%100
44	M33	Z	0	0	0		%100
45	M33A	X	-2.561	-2.561	0		%100
46	M33A	Z	0	0	0		%100
47	M34	X	-2.561	-2.561	0		%100
48	M34	Z	0	0	0		%100
49	M35	X	-2.561	-2.561	0		%100
50	M35	Z	0	0	0		%100
51	M36	X	-2.561	-2.561	0		%100
52	M36	Z	0	0	0		%100
53	M37	X	-2.561	-2.561	0		%100
54	M37	Z	0	0	0		%100
55	M38	X	-2.561	-2.561	0		%100
56	M38	Z	0	0	0		%100
57	M39	X	-2.561	-2.561	0		%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%
58	M39	Z	0	0	0		%100
59	M40	X	-2.561	-2.561	0		%100
60	M40	Z	0	0	0		%100
61	M41	X	-2.561	-2.561	0		%100
62	M41	Z	0	0	0		%100
63	M42	X	-2.561	-2.561	0		%100
64	M42	Z	0	0	0		%100
65	M43	X	-2.561	-2.561	0		%100
66	M43	Z	0	0	0		%100
67	M44	X	-2.561	-2.561	0		%100
68	M44	Z	0	0	0		%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%
1	FH2	X	-.748	-.748	0		%100
2	FH2	Z	-.432	-.432	0		%100
3	FH1	X	-.748	-.748	0		%100
4	FH1	Z	-.432	-.432	0		%100
5	MP5A	X	-2.744	-2.744	0		%100
6	MP5A	Z	-1.584	-1.584	0		%100
7	MP3A	X	-2.744	-2.744	0		%100
8	MP3A	Z	-1.584	-1.584	0		%100
9	MP2A	X	-2.753	-2.753	0		%100
10	MP2A	Z	-1.589	-1.589	0		%100
11	MP1A	X	-2.744	-2.744	0		%100
12	MP1A	Z	-1.584	-1.584	0		%100
13	SH1	X	-2.387	-2.387	0		%100
14	SH1	Z	-1.378	-1.378	0		%100
15	SH3	X	-.123	-.123	0		%100
16	SH3	Z	-.071	-.071	0		%100
17	SH2	X	-2.387	-2.387	0		%100
18	SH2	Z	-1.378	-1.378	0		%100
19	SH4	X	-.123	-.123	0		%100
20	SH4	Z	-.071	-.071	0		%100
21	V1	X	-2.001	-2.001	0		%100
22	V1	Z	-1.155	-1.155	0		%100
23	V2	X	-1.693	-1.693	0		%100
24	V2	Z	-.977	-.977	0		%100
25	V3	X	-1.693	-1.693	0		%100
26	V3	Z	-.977	-.977	0		%100
27	V6	X	-2.001	-2.001	0		%100
28	V6	Z	-1.155	-1.155	0		%100
29	V4	X	-1.693	-1.693	0		%100
30	V4	Z	-.977	-.977	0		%100
31	V5	X	-1.693	-1.693	0		%100
32	V5	Z	-.977	-.977	0		%100
33	D2	X	-1.72	-1.72	0		%100
34	D2	Z	-.993	-.993	0		%100
35	D1	X	-1.72	-1.72	0		%100
36	D1	Z	-.993	-.993	0		%100
37	D3	X	-1.125	-1.125	0		%100
38	D3	Z	-.649	-.649	0		%100
39	D4	X	-1.125	-1.125	0		%100
40	D4	Z	-.649	-.649	0		%100
41	MP4A	X	-2.532	-2.532	0		%100
42	MP4A	Z	-1.462	-1.462	0		%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
43	M33	X	- .891	- .891	0	%100
44	M33	Z	- .515	- .515	0	%100
45	M33A	X	-1.256	-1.256	0	%100
46	M33A	Z	- .725	- .725	0	%100
47	M34	X	-1.256	-1.256	0	%100
48	M34	Z	- .725	- .725	0	%100
49	M35	X	-1.256	-1.256	0	%100
50	M35	Z	- .725	- .725	0	%100
51	M36	X	-3.18	-3.18	0	%100
52	M36	Z	-1.836	-1.836	0	%100
53	M37	X	-3.18	-3.18	0	%100
54	M37	Z	-1.836	-1.836	0	%100
55	M38	X	-3.18	-3.18	0	%100
56	M38	Z	-1.836	-1.836	0	%100
57	M39	X	-1.256	-1.256	0	%100
58	M39	Z	- .725	- .725	0	%100
59	M40	X	-1.256	-1.256	0	%100
60	M40	Z	- .725	- .725	0	%100
61	M41	X	-1.256	-1.256	0	%100
62	M41	Z	- .725	- .725	0	%100
63	M42	X	-3.18	-3.18	0	%100
64	M42	Z	-1.836	-1.836	0	%100
65	M43	X	-3.18	-3.18	0	%100
66	M43	Z	-1.836	-1.836	0	%100
67	M44	X	-3.18	-3.18	0	%100
68	M44	Z	-1.836	-1.836	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	-1.295	-1.295	0	%100
2	FH2	Z	-2.243	-2.243	0	%100
3	FH1	X	-1.295	-1.295	0	%100
4	FH1	Z	-2.243	-2.243	0	%100
5	MP5A	X	-1.584	-1.584	0	%100
6	MP5A	Z	-2.744	-2.744	0	%100
7	MP3A	X	-1.584	-1.584	0	%100
8	MP3A	Z	-2.744	-2.744	0	%100
9	MP2A	X	-1.589	-1.589	0	%100
10	MP2A	Z	-2.753	-2.753	0	%100
11	MP1A	X	-1.584	-1.584	0	%100
12	MP1A	Z	-2.744	-2.744	0	%100
13	SH1	X	-1.445	-1.445	0	%100
14	SH1	Z	-2.502	-2.502	0	%100
15	SH3	X	- .137	- .137	0	%100
16	SH3	Z	- .238	- .238	0	%100
17	SH2	X	-1.445	-1.445	0	%100
18	SH2	Z	-2.502	-2.502	0	%100
19	SH4	X	- .137	- .137	0	%100
20	SH4	Z	- .238	- .238	0	%100
21	V1	X	-1.155	-1.155	0	%100
22	V1	Z	-2.001	-2.001	0	%100
23	V2	X	- .977	- .977	0	%100
24	V2	Z	-1.693	-1.693	0	%100
25	V3	X	- .977	- .977	0	%100
26	V3	Z	-1.693	-1.693	0	%100
27	V6	X	-1.155	-1.155	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft,ft]	End Location[ft,ft,ft]
28	V6	Z	-2.001	-2.001	0	%100
29	V4	X	-0.977	-0.977	0	%100
30	V4	Z	-1.693	-1.693	0	%100
31	V5	X	-0.977	-0.977	0	%100
32	V5	Z	-1.693	-1.693	0	%100
33	D2	X	-1.01	-1.01	0	%100
34	D2	Z	-1.75	-1.75	0	%100
35	D1	X	-1.01	-1.01	0	%100
36	D1	Z	-1.75	-1.75	0	%100
37	D3	X	-0.667	-0.667	0	%100
38	D3	Z	-1.155	-1.155	0	%100
39	D4	X	-0.667	-0.667	0	%100
40	D4	Z	-1.155	-1.155	0	%100
41	MP4A	X	-1.462	-1.462	0	%100
42	MP4A	Z	-2.532	-2.532	0	%100
43	M33	X	-0.05	-0.05	0	%100
44	M33	Z	-0.087	-0.087	0	%100
45	M33A	X	-0.725	-0.725	0	%100
46	M33A	Z	-1.256	-1.256	0	%100
47	M34	X	-0.725	-0.725	0	%100
48	M34	Z	-1.256	-1.256	0	%100
49	M35	X	-0.725	-0.725	0	%100
50	M35	Z	-1.256	-1.256	0	%100
51	M36	X	-1.836	-1.836	0	%100
52	M36	Z	-3.18	-3.18	0	%100
53	M37	X	-1.836	-1.836	0	%100
54	M37	Z	-3.18	-3.18	0	%100
55	M38	X	-1.836	-1.836	0	%100
56	M38	Z	-3.18	-3.18	0	%100
57	M39	X	-0.725	-0.725	0	%100
58	M39	Z	-1.256	-1.256	0	%100
59	M40	X	-0.725	-0.725	0	%100
60	M40	Z	-1.256	-1.256	0	%100
61	M41	X	-0.725	-0.725	0	%100
62	M41	Z	-1.256	-1.256	0	%100
63	M42	X	-1.836	-1.836	0	%100
64	M42	Z	-3.18	-3.18	0	%100
65	M43	X	-1.836	-1.836	0	%100
66	M43	Z	-3.18	-3.18	0	%100
67	M44	X	-1.836	-1.836	0	%100
68	M44	Z	-3.18	-3.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft,ft]	End Location[ft,ft,ft]
1	FH2	X	0	0	0	%100
2	FH2	Z	-0.57	-0.57	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	-0.57	-0.57	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	-0.471	-0.471	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-0.471	-0.471	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-0.471	-0.471	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-0.471	-0.471	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
13	SH1	X	0	0	0	%100
14	SH1	Z	-.256	-.256	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	-.256	-.256	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	-.256	-.256	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	-.256	-.256	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	-.336	-.336	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	-.208	-.208	0	%100
25	V3	X	0	0	0	%100
26	V3	Z	-.208	-.208	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	-.336	-.336	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	-.208	-.208	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	-.208	-.208	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	-.171	-.171	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	-.171	-.171	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	-.171	-.171	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	-.171	-.171	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-.471	-.471	0	%100
43	M33	X	0	0	0	%100
44	M33	Z	-.104	-.104	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	-.529	-.529	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	-.529	-.529	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	-.529	-.529	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	-.529	-.529	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	-.529	-.529	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	-.529	-.529	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	-.529	-.529	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	-.529	-.529	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	-.529	-.529	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	-.529	-.529	0	%100
65	M43	X	0	0	0	%100
66	M43	Z	-.529	-.529	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	-.529	-.529	0	%100



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 Model Name : 469068-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
1	FH2	X	.214	.214	0	%100
2	FH2	Z	-.37	-.37	0	%100
3	FH1	X	.214	.214	0	%100
4	FH1	Z	-.37	-.37	0	%100
5	MP5A	X	.235	.235	0	%100
6	MP5A	Z	-.408	-.408	0	%100
7	MP3A	X	.235	.235	0	%100
8	MP3A	Z	-.408	-.408	0	%100
9	MP2A	X	.235	.235	0	%100
10	MP2A	Z	-.408	-.408	0	%100
11	MP1A	X	.235	.235	0	%100
12	MP1A	Z	-.408	-.408	0	%100
13	SH1	X	.021	.021	0	%100
14	SH1	Z	-.037	-.037	0	%100
15	SH3	X	.224	.224	0	%100
16	SH3	Z	-.388	-.388	0	%100
17	SH2	X	.021	.021	0	%100
18	SH2	Z	-.037	-.037	0	%100
19	SH4	X	.224	.224	0	%100
20	SH4	Z	-.388	-.388	0	%100
21	V1	X	.168	.168	0	%100
22	V1	Z	-.291	-.291	0	%100
23	V2	X	.104	.104	0	%100
24	V2	Z	-.18	-.18	0	%100
25	V3	X	.104	.104	0	%100
26	V3	Z	-.18	-.18	0	%100
27	V6	X	.168	.168	0	%100
28	V6	Z	-.291	-.291	0	%100
29	V4	X	.104	.104	0	%100
30	V4	Z	-.18	-.18	0	%100
31	V5	X	.104	.104	0	%100
32	V5	Z	-.18	-.18	0	%100
33	D2	X	.067	.067	0	%100
34	D2	Z	-.117	-.117	0	%100
35	D1	X	.067	.067	0	%100
36	D1	Z	-.117	-.117	0	%100
37	D3	X	.102	.102	0	%100
38	D3	Z	-.177	-.177	0	%100
39	D4	X	.102	.102	0	%100
40	D4	Z	-.177	-.177	0	%100
41	MP4A	X	.235	.235	0	%100
42	MP4A	Z	-.408	-.408	0	%100
43	M33	X	.166	.166	0	%100
44	M33	Z	-.287	-.287	0	%100
45	M33A	X	.464	.464	0	%100
46	M33A	Z	-.804	-.804	0	%100
47	M34	X	.464	.464	0	%100
48	M34	Z	-.804	-.804	0	%100
49	M35	X	.464	.464	0	%100
50	M35	Z	-.804	-.804	0	%100
51	M36	X	.065	.065	0	%100
52	M36	Z	-.112	-.112	0	%100
53	M37	X	.065	.065	0	%100
54	M37	Z	-.112	-.112	0	%100
55	M38	X	.065	.065	0	%100
56	M38	Z	-.112	-.112	0	%100
57	M39	X	.464	.464	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%1
58	M39	Z	-.804	-.804	0		%100
59	M40	X	.464	.464	0		%100
60	M40	Z	-.804	-.804	0		%100
61	M41	X	.464	.464	0		%100
62	M41	Z	-.804	-.804	0		%100
63	M42	X	.065	.065	0		%100
64	M42	Z	-.112	-.112	0		%100
65	M43	X	.065	.065	0		%100
66	M43	Z	-.112	-.112	0		%100
67	M44	X	.065	.065	0		%100
68	M44	Z	-.112	-.112	0		%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%1
1	FH2	X	.123	.123	0		%100
2	FH2	Z	-.071	-.071	0		%100
3	FH1	X	.123	.123	0		%100
4	FH1	Z	-.071	-.071	0		%100
5	MP5A	X	.408	.408	0		%100
6	MP5A	Z	-.235	-.235	0		%100
7	MP3A	X	.408	.408	0		%100
8	MP3A	Z	-.235	-.235	0		%100
9	MP2A	X	.408	.408	0		%100
10	MP2A	Z	-.235	-.235	0		%100
11	MP1A	X	.408	.408	0		%100
12	MP1A	Z	-.235	-.235	0		%100
13	SH1	X	.019	.019	0		%100
14	SH1	Z	-.011	-.011	0		%100
15	SH3	X	.371	.371	0		%100
16	SH3	Z	-.214	-.214	0		%100
17	SH2	X	.019	.019	0		%100
18	SH2	Z	-.011	-.011	0		%100
19	SH4	X	.371	.371	0		%100
20	SH4	Z	-.214	-.214	0		%100
21	V1	X	.291	.291	0		%100
22	V1	Z	-.168	-.168	0		%100
23	V2	X	.18	.18	0		%100
24	V2	Z	-.104	-.104	0		%100
25	V3	X	.18	.18	0		%100
26	V3	Z	-.104	-.104	0		%100
27	V6	X	.291	.291	0		%100
28	V6	Z	-.168	-.168	0		%100
29	V4	X	.18	.18	0		%100
30	V4	Z	-.104	-.104	0		%100
31	V5	X	.18	.18	0		%100
32	V5	Z	-.104	-.104	0		%100
33	D2	X	.114	.114	0		%100
34	D2	Z	-.066	-.066	0		%100
35	D1	X	.114	.114	0		%100
36	D1	Z	-.066	-.066	0		%100
37	D3	X	.174	.174	0		%100
38	D3	Z	-.1	-.1	0		%100
39	D4	X	.174	.174	0		%100
40	D4	Z	-.1	-.1	0		%100
41	MP4A	X	.408	.408	0		%100
42	MP4A	Z	-.235	-.235	0		%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft,ft]	End Location[ft,ft,ft]
43	M33	X	.406	.406	0	%100
44	M33	Z	-.234	-.234	0	%100
45	M33A	X	.804	.804	0	%100
46	M33A	Z	-.464	-.464	0	%100
47	M34	X	.804	.804	0	%100
48	M34	Z	-.464	-.464	0	%100
49	M35	X	.804	.804	0	%100
50	M35	Z	-.464	-.464	0	%100
51	M36	X	.112	.112	0	%100
52	M36	Z	-.065	-.065	0	%100
53	M37	X	.112	.112	0	%100
54	M37	Z	-.065	-.065	0	%100
55	M38	X	.112	.112	0	%100
56	M38	Z	-.065	-.065	0	%100
57	M39	X	.804	.804	0	%100
58	M39	Z	-.464	-.464	0	%100
59	M40	X	.804	.804	0	%100
60	M40	Z	-.464	-.464	0	%100
61	M41	X	.804	.804	0	%100
62	M41	Z	-.464	-.464	0	%100
63	M42	X	.112	.112	0	%100
64	M42	Z	-.065	-.065	0	%100
65	M43	X	.112	.112	0	%100
66	M43	Z	-.065	-.065	0	%100
67	M44	X	.112	.112	0	%100
68	M44	Z	-.065	-.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft,ft]	End Location[ft,ft,ft]
1	FH2	X	0	0	0	%100
2	FH2	Z	0	0	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	0	0	0	%100
5	MP5A	X	.471	.471	0	%100
6	MP5A	Z	0	0	0	%100
7	MP3A	X	.471	.471	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	.471	.471	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	.471	.471	0	%100
12	MP1A	Z	0	0	0	%100
13	SH1	X	.215	.215	0	%100
14	SH1	Z	0	0	0	%100
15	SH3	X	.215	.215	0	%100
16	SH3	Z	0	0	0	%100
17	SH2	X	.215	.215	0	%100
18	SH2	Z	0	0	0	%100
19	SH4	X	.215	.215	0	%100
20	SH4	Z	0	0	0	%100
21	V1	X	.336	.336	0	%100
22	V1	Z	0	0	0	%100
23	V2	X	.208	.208	0	%100
24	V2	Z	0	0	0	%100
25	V3	X	.208	.208	0	%100
26	V3	Z	0	0	0	%100
27	V6	X	.336	.336	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
28	V6	Z	0	0	0	%100
29	V4	X	.208	.208	0	%100
30	V4	Z	0	0	0	%100
31	V5	X	.208	.208	0	%100
32	V5	Z	0	0	0	%100
33	D2	X	.164	.164	0	%100
34	D2	Z	0	0	0	%100
35	D1	X	.164	.164	0	%100
36	D1	Z	0	0	0	%100
37	D3	X	.164	.164	0	%100
38	D3	Z	0	0	0	%100
39	D4	X	.164	.164	0	%100
40	D4	Z	0	0	0	%100
41	MP4A	X	.471	.471	0	%100
42	MP4A	Z	0	0	0	%100
43	M33	X	.379	.379	0	%100
44	M33	Z	0	0	0	%100
45	M33A	X	.529	.529	0	%100
46	M33A	Z	0	0	0	%100
47	M34	X	.529	.529	0	%100
48	M34	Z	0	0	0	%100
49	M35	X	.529	.529	0	%100
50	M35	Z	0	0	0	%100
51	M36	X	.529	.529	0	%100
52	M36	Z	0	0	0	%100
53	M37	X	.529	.529	0	%100
54	M37	Z	0	0	0	%100
55	M38	X	.529	.529	0	%100
56	M38	Z	0	0	0	%100
57	M39	X	.529	.529	0	%100
58	M39	Z	0	0	0	%100
59	M40	X	.529	.529	0	%100
60	M40	Z	0	0	0	%100
61	M41	X	.529	.529	0	%100
62	M41	Z	0	0	0	%100
63	M42	X	.529	.529	0	%100
64	M42	Z	0	0	0	%100
65	M43	X	.529	.529	0	%100
66	M43	Z	0	0	0	%100
67	M44	X	.529	.529	0	%100
68	M44	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	.123	.123	0	%100
2	FH2	Z	.071	.071	0	%100
3	FH1	X	.123	.123	0	%100
4	FH1	Z	.071	.071	0	%100
5	MP5A	X	.408	.408	0	%100
6	MP5A	Z	.235	.235	0	%100
7	MP3A	X	.408	.408	0	%100
8	MP3A	Z	.235	.235	0	%100
9	MP2A	X	.408	.408	0	%100
10	MP2A	Z	.235	.235	0	%100
11	MP1A	X	.408	.408	0	%100
12	MP1A	Z	.235	.235	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
13	SH1	X	.371	.371	0	%100
14	SH1	Z	.214	.214	0	%100
15	SH3	X	.019	.019	0	%100
16	SH3	Z	.011	.011	0	%100
17	SH2	X	.371	.371	0	%100
18	SH2	Z	.214	.214	0	%100
19	SH4	X	.019	.019	0	%100
20	SH4	Z	.011	.011	0	%100
21	V1	X	.291	.291	0	%100
22	V1	Z	.168	.168	0	%100
23	V2	X	.18	.18	0	%100
24	V2	Z	.104	.104	0	%100
25	V3	X	.18	.18	0	%100
26	V3	Z	.104	.104	0	%100
27	V6	X	.291	.291	0	%100
28	V6	Z	.168	.168	0	%100
29	V4	X	.18	.18	0	%100
30	V4	Z	.104	.104	0	%100
31	V5	X	.18	.18	0	%100
32	V5	Z	.104	.104	0	%100
33	D2	X	.174	.174	0	%100
34	D2	Z	.1	.1	0	%100
35	D1	X	.174	.174	0	%100
36	D1	Z	.1	.1	0	%100
37	D3	X	.114	.114	0	%100
38	D3	Z	.066	.066	0	%100
39	D4	X	.114	.114	0	%100
40	D4	Z	.066	.066	0	%100
41	MP4A	X	.408	.408	0	%100
42	MP4A	Z	.235	.235	0	%100
43	M33	X	.132	.132	0	%100
44	M33	Z	.076	.076	0	%100
45	M33A	X	.112	.112	0	%100
46	M33A	Z	.065	.065	0	%100
47	M34	X	.112	.112	0	%100
48	M34	Z	.065	.065	0	%100
49	M35	X	.112	.112	0	%100
50	M35	Z	.065	.065	0	%100
51	M36	X	.804	.804	0	%100
52	M36	Z	.464	.464	0	%100
53	M37	X	.804	.804	0	%100
54	M37	Z	.464	.464	0	%100
55	M38	X	.804	.804	0	%100
56	M38	Z	.464	.464	0	%100
57	M39	X	.112	.112	0	%100
58	M39	Z	.065	.065	0	%100
59	M40	X	.112	.112	0	%100
60	M40	Z	.065	.065	0	%100
61	M41	X	.112	.112	0	%100
62	M41	Z	.065	.065	0	%100
63	M42	X	.804	.804	0	%100
64	M42	Z	.464	.464	0	%100
65	M43	X	.804	.804	0	%100
66	M43	Z	.464	.464	0	%100
67	M44	X	.804	.804	0	%100
68	M44	Z	.464	.464	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	FH2	X	.214	.214	0	%100
2	FH2	Z	.37	.37	0	%100
3	FH1	X	.214	.214	0	%100
4	FH1	Z	.37	.37	0	%100
5	MP5A	X	.235	.235	0	%100
6	MP5A	Z	.408	.408	0	%100
7	MP3A	X	.235	.235	0	%100
8	MP3A	Z	.408	.408	0	%100
9	MP2A	X	.235	.235	0	%100
10	MP2A	Z	.408	.408	0	%100
11	MP1A	X	.235	.235	0	%100
12	MP1A	Z	.408	.408	0	%100
13	SH1	X	.224	.224	0	%100
14	SH1	Z	.388	.388	0	%100
15	SH3	X	.021	.021	0	%100
16	SH3	Z	.037	.037	0	%100
17	SH2	X	.224	.224	0	%100
18	SH2	Z	.388	.388	0	%100
19	SH4	X	.021	.021	0	%100
20	SH4	Z	.037	.037	0	%100
21	V1	X	.168	.168	0	%100
22	V1	Z	.291	.291	0	%100
23	V2	X	.104	.104	0	%100
24	V2	Z	.18	.18	0	%100
25	V3	X	.104	.104	0	%100
26	V3	Z	.18	.18	0	%100
27	V6	X	.168	.168	0	%100
28	V6	Z	.291	.291	0	%100
29	V4	X	.104	.104	0	%100
30	V4	Z	.18	.18	0	%100
31	V5	X	.104	.104	0	%100
32	V5	Z	.18	.18	0	%100
33	D2	X	.102	.102	0	%100
34	D2	Z	.177	.177	0	%100
35	D1	X	.102	.102	0	%100
36	D1	Z	.177	.177	0	%100
37	D3	X	.067	.067	0	%100
38	D3	Z	.117	.117	0	%100
39	D4	X	.067	.067	0	%100
40	D4	Z	.117	.117	0	%100
41	MP4A	X	.235	.235	0	%100
42	MP4A	Z	.408	.408	0	%100
43	M33	X	.007	.007	0	%100
44	M33	Z	.013	.013	0	%100
45	M33A	X	.065	.065	0	%100
46	M33A	Z	.112	.112	0	%100
47	M34	X	.065	.065	0	%100
48	M34	Z	.112	.112	0	%100
49	M35	X	.065	.065	0	%100
50	M35	Z	.112	.112	0	%100
51	M36	X	.464	.464	0	%100
52	M36	Z	.804	.804	0	%100
53	M37	X	.464	.464	0	%100
54	M37	Z	.804	.804	0	%100
55	M38	X	.464	.464	0	%100
56	M38	Z	.804	.804	0	%100
57	M39	X	.065	.065	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
58	M39	Z	.112	.112	0	%100
59	M40	X	.065	.065	0	%100
60	M40	Z	.112	.112	0	%100
61	M41	X	.065	.065	0	%100
62	M41	Z	.112	.112	0	%100
63	M42	X	.464	.464	0	%100
64	M42	Z	.804	.804	0	%100
65	M43	X	.464	.464	0	%100
66	M43	Z	.804	.804	0	%100
67	M44	X	.464	.464	0	%100
68	M44	Z	.804	.804	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	0	0	0	%100
2	FH2	Z	.57	.57	0	%100
3	FH1	X	0	0	0	%100
4	FH1	Z	.57	.57	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	.471	.471	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.471	.471	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	.471	.471	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	.471	.471	0	%100
13	SH1	X	0	0	0	%100
14	SH1	Z	.256	.256	0	%100
15	SH3	X	0	0	0	%100
16	SH3	Z	.256	.256	0	%100
17	SH2	X	0	0	0	%100
18	SH2	Z	.256	.256	0	%100
19	SH4	X	0	0	0	%100
20	SH4	Z	.256	.256	0	%100
21	V1	X	0	0	0	%100
22	V1	Z	.336	.336	0	%100
23	V2	X	0	0	0	%100
24	V2	Z	.208	.208	0	%100
25	V3	X	0	0	0	%100
26	V3	Z	.208	.208	0	%100
27	V6	X	0	0	0	%100
28	V6	Z	.336	.336	0	%100
29	V4	X	0	0	0	%100
30	V4	Z	.208	.208	0	%100
31	V5	X	0	0	0	%100
32	V5	Z	.208	.208	0	%100
33	D2	X	0	0	0	%100
34	D2	Z	.171	.171	0	%100
35	D1	X	0	0	0	%100
36	D1	Z	.171	.171	0	%100
37	D3	X	0	0	0	%100
38	D3	Z	.171	.171	0	%100
39	D4	X	0	0	0	%100
40	D4	Z	.171	.171	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	.471	.471	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft,ft]	End Location[ft,ft,ft]
43	M33	X	0	0	0	%100
44	M33	Z	.104	.104	0	%100
45	M33A	X	0	0	0	%100
46	M33A	Z	.529	.529	0	%100
47	M34	X	0	0	0	%100
48	M34	Z	.529	.529	0	%100
49	M35	X	0	0	0	%100
50	M35	Z	.529	.529	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	.529	.529	0	%100
53	M37	X	0	0	0	%100
54	M37	Z	.529	.529	0	%100
55	M38	X	0	0	0	%100
56	M38	Z	.529	.529	0	%100
57	M39	X	0	0	0	%100
58	M39	Z	.529	.529	0	%100
59	M40	X	0	0	0	%100
60	M40	Z	.529	.529	0	%100
61	M41	X	0	0	0	%100
62	M41	Z	.529	.529	0	%100
63	M42	X	0	0	0	%100
64	M42	Z	.529	.529	0	%100
65	M43	X	0	0	0	%100
66	M43	Z	.529	.529	0	%100
67	M44	X	0	0	0	%100
68	M44	Z	.529	.529	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft,ft]	End Location[ft,ft,ft]
1	FH2	X	-.214	-.214	0	%100
2	FH2	Z	.37	.37	0	%100
3	FH1	X	-.214	-.214	0	%100
4	FH1	Z	.37	.37	0	%100
5	MP5A	X	-.235	-.235	0	%100
6	MP5A	Z	.408	.408	0	%100
7	MP3A	X	-.235	-.235	0	%100
8	MP3A	Z	.408	.408	0	%100
9	MP2A	X	-.235	-.235	0	%100
10	MP2A	Z	.408	.408	0	%100
11	MP1A	X	-.235	-.235	0	%100
12	MP1A	Z	.408	.408	0	%100
13	SH1	X	-.021	-.021	0	%100
14	SH1	Z	.037	.037	0	%100
15	SH3	X	-.224	-.224	0	%100
16	SH3	Z	.388	.388	0	%100
17	SH2	X	-.021	-.021	0	%100
18	SH2	Z	.037	.037	0	%100
19	SH4	X	-.224	-.224	0	%100
20	SH4	Z	.388	.388	0	%100
21	V1	X	-.168	-.168	0	%100
22	V1	Z	.291	.291	0	%100
23	V2	X	-.104	-.104	0	%100
24	V2	Z	.18	.18	0	%100
25	V3	X	-.104	-.104	0	%100
26	V3	Z	.18	.18	0	%100
27	V6	X	-.168	-.168	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
28	V6	Z	.291	.291	0	%100
29	V4	X	-.104	-.104	0	%100
30	V4	Z	.18	.18	0	%100
31	V5	X	-.104	-.104	0	%100
32	V5	Z	.18	.18	0	%100
33	D2	X	-.067	-.067	0	%100
34	D2	Z	.117	.117	0	%100
35	D1	X	-.067	-.067	0	%100
36	D1	Z	.117	.117	0	%100
37	D3	X	-.102	-.102	0	%100
38	D3	Z	.177	.177	0	%100
39	D4	X	-.102	-.102	0	%100
40	D4	Z	.177	.177	0	%100
41	MP4A	X	-.235	-.235	0	%100
42	MP4A	Z	.408	.408	0	%100
43	M33	X	-.166	-.166	0	%100
44	M33	Z	.287	.287	0	%100
45	M33A	X	-.464	-.464	0	%100
46	M33A	Z	.804	.804	0	%100
47	M34	X	-.464	-.464	0	%100
48	M34	Z	.804	.804	0	%100
49	M35	X	-.464	-.464	0	%100
50	M35	Z	.804	.804	0	%100
51	M36	X	-.065	-.065	0	%100
52	M36	Z	.112	.112	0	%100
53	M37	X	-.065	-.065	0	%100
54	M37	Z	.112	.112	0	%100
55	M38	X	-.065	-.065	0	%100
56	M38	Z	.112	.112	0	%100
57	M39	X	-.464	-.464	0	%100
58	M39	Z	.804	.804	0	%100
59	M40	X	-.464	-.464	0	%100
60	M40	Z	.804	.804	0	%100
61	M41	X	-.464	-.464	0	%100
62	M41	Z	.804	.804	0	%100
63	M42	X	-.065	-.065	0	%100
64	M42	Z	.112	.112	0	%100
65	M43	X	-.065	-.065	0	%100
66	M43	Z	.112	.112	0	%100
67	M44	X	-.065	-.065	0	%100
68	M44	Z	.112	.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	FH2	X	-.123	-.123	0	%100
2	FH2	Z	.071	.071	0	%100
3	FH1	X	-.123	-.123	0	%100
4	FH1	Z	.071	.071	0	%100
5	MP5A	X	-.408	-.408	0	%100
6	MP5A	Z	.235	.235	0	%100
7	MP3A	X	-.408	-.408	0	%100
8	MP3A	Z	.235	.235	0	%100
9	MP2A	X	-.408	-.408	0	%100
10	MP2A	Z	.235	.235	0	%100
11	MP1A	X	-.408	-.408	0	%100
12	MP1A	Z	.235	.235	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]
13	SH1	X	-.019	-.019	0	%100
14	SH1	Z	.011	.011	0	%100
15	SH3	X	-.371	-.371	0	%100
16	SH3	Z	.214	.214	0	%100
17	SH2	X	-.019	-.019	0	%100
18	SH2	Z	.011	.011	0	%100
19	SH4	X	-.371	-.371	0	%100
20	SH4	Z	.214	.214	0	%100
21	V1	X	-.291	-.291	0	%100
22	V1	Z	.168	.168	0	%100
23	V2	X	-.18	-.18	0	%100
24	V2	Z	.104	.104	0	%100
25	V3	X	-.18	-.18	0	%100
26	V3	Z	.104	.104	0	%100
27	V6	X	-.291	-.291	0	%100
28	V6	Z	.168	.168	0	%100
29	V4	X	-.18	-.18	0	%100
30	V4	Z	.104	.104	0	%100
31	V5	X	-.18	-.18	0	%100
32	V5	Z	.104	.104	0	%100
33	D2	X	-.114	-.114	0	%100
34	D2	Z	.066	.066	0	%100
35	D1	X	-.114	-.114	0	%100
36	D1	Z	.066	.066	0	%100
37	D3	X	-.174	-.174	0	%100
38	D3	Z	.1	.1	0	%100
39	D4	X	-.174	-.174	0	%100
40	D4	Z	.1	.1	0	%100
41	MP4A	X	-.408	-.408	0	%100
42	MP4A	Z	.235	.235	0	%100
43	M33	X	-.406	-.406	0	%100
44	M33	Z	.234	.234	0	%100
45	M33A	X	-.804	-.804	0	%100
46	M33A	Z	.464	.464	0	%100
47	M34	X	-.804	-.804	0	%100
48	M34	Z	.464	.464	0	%100
49	M35	X	-.804	-.804	0	%100
50	M35	Z	.464	.464	0	%100
51	M36	X	-.112	-.112	0	%100
52	M36	Z	.065	.065	0	%100
53	M37	X	-.112	-.112	0	%100
54	M37	Z	.065	.065	0	%100
55	M38	X	-.112	-.112	0	%100
56	M38	Z	.065	.065	0	%100
57	M39	X	-.804	-.804	0	%100
58	M39	Z	.464	.464	0	%100
59	M40	X	-.804	-.804	0	%100
60	M40	Z	.464	.464	0	%100
61	M41	X	-.804	-.804	0	%100
62	M41	Z	.464	.464	0	%100
63	M42	X	-.112	-.112	0	%100
64	M42	Z	.065	.065	0	%100
65	M43	X	-.112	-.112	0	%100
66	M43	Z	.065	.065	0	%100
67	M44	X	-.112	-.112	0	%100
68	M44	Z	.065	.065	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	
1	FH2	X	0	0	0		%100
2	FH2	Z	0	0	0		%100
3	FH1	X	0	0	0		%100
4	FH1	Z	0	0	0		%100
5	MP5A	X	-.471	-.471	0		%100
6	MP5A	Z	0	0	0		%100
7	MP3A	X	-.471	-.471	0		%100
8	MP3A	Z	0	0	0		%100
9	MP2A	X	-.471	-.471	0		%100
10	MP2A	Z	0	0	0		%100
11	MP1A	X	-.471	-.471	0		%100
12	MP1A	Z	0	0	0		%100
13	SH1	X	-.215	-.215	0		%100
14	SH1	Z	0	0	0		%100
15	SH3	X	-.215	-.215	0		%100
16	SH3	Z	0	0	0		%100
17	SH2	X	-.215	-.215	0		%100
18	SH2	Z	0	0	0		%100
19	SH4	X	-.215	-.215	0		%100
20	SH4	Z	0	0	0		%100
21	V1	X	-.336	-.336	0		%100
22	V1	Z	0	0	0		%100
23	V2	X	-.208	-.208	0		%100
24	V2	Z	0	0	0		%100
25	V3	X	-.208	-.208	0		%100
26	V3	Z	0	0	0		%100
27	V6	X	-.336	-.336	0		%100
28	V6	Z	0	0	0		%100
29	V4	X	-.208	-.208	0		%100
30	V4	Z	0	0	0		%100
31	V5	X	-.208	-.208	0		%100
32	V5	Z	0	0	0		%100
33	D2	X	-.164	-.164	0		%100
34	D2	Z	0	0	0		%100
35	D1	X	-.164	-.164	0		%100
36	D1	Z	0	0	0		%100
37	D3	X	-.164	-.164	0		%100
38	D3	Z	0	0	0		%100
39	D4	X	-.164	-.164	0		%100
40	D4	Z	0	0	0		%100
41	MP4A	X	-.471	-.471	0		%100
42	MP4A	Z	0	0	0		%100
43	M33	X	-.379	-.379	0		%100
44	M33	Z	0	0	0		%100
45	M33A	X	-.529	-.529	0		%100
46	M33A	Z	0	0	0		%100
47	M34	X	-.529	-.529	0		%100
48	M34	Z	0	0	0		%100
49	M35	X	-.529	-.529	0		%100
50	M35	Z	0	0	0		%100
51	M36	X	-.529	-.529	0		%100
52	M36	Z	0	0	0		%100
53	M37	X	-.529	-.529	0		%100
54	M37	Z	0	0	0		%100
55	M38	X	-.529	-.529	0		%100
56	M38	Z	0	0	0		%100
57	M39	X	-.529	-.529	0		%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%1
58	M39	Z	0	0	0		%100
59	M40	X	-.529	-.529	0		%100
60	M40	Z	0	0	0		%100
61	M41	X	-.529	-.529	0		%100
62	M41	Z	0	0	0		%100
63	M42	X	-.529	-.529	0		%100
64	M42	Z	0	0	0		%100
65	M43	X	-.529	-.529	0		%100
66	M43	Z	0	0	0		%100
67	M44	X	-.529	-.529	0		%100
68	M44	Z	0	0	0		%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,ft]	End Location[ft,ft]	%1
1	FH2	X	-.123	-.123	0		%100
2	FH2	Z	-.071	-.071	0		%100
3	FH1	X	-.123	-.123	0		%100
4	FH1	Z	-.071	-.071	0		%100
5	MP5A	X	-.408	-.408	0		%100
6	MP5A	Z	-.235	-.235	0		%100
7	MP3A	X	-.408	-.408	0		%100
8	MP3A	Z	-.235	-.235	0		%100
9	MP2A	X	-.408	-.408	0		%100
10	MP2A	Z	-.235	-.235	0		%100
11	MP1A	X	-.408	-.408	0		%100
12	MP1A	Z	-.235	-.235	0		%100
13	SH1	X	-.371	-.371	0		%100
14	SH1	Z	-.214	-.214	0		%100
15	SH3	X	-.019	-.019	0		%100
16	SH3	Z	-.011	-.011	0		%100
17	SH2	X	-.371	-.371	0		%100
18	SH2	Z	-.214	-.214	0		%100
19	SH4	X	-.019	-.019	0		%100
20	SH4	Z	-.011	-.011	0		%100
21	V1	X	-.291	-.291	0		%100
22	V1	Z	-.168	-.168	0		%100
23	V2	X	-.18	-.18	0		%100
24	V2	Z	-.104	-.104	0		%100
25	V3	X	-.18	-.18	0		%100
26	V3	Z	-.104	-.104	0		%100
27	V6	X	-.291	-.291	0		%100
28	V6	Z	-.168	-.168	0		%100
29	V4	X	-.18	-.18	0		%100
30	V4	Z	-.104	-.104	0		%100
31	V5	X	-.18	-.18	0		%100
32	V5	Z	-.104	-.104	0		%100
33	D2	X	-.174	-.174	0		%100
34	D2	Z	-.1	-.1	0		%100
35	D1	X	-.174	-.174	0		%100
36	D1	Z	-.1	-.1	0		%100
37	D3	X	-.114	-.114	0		%100
38	D3	Z	-.066	-.066	0		%100
39	D4	X	-.114	-.114	0		%100
40	D4	Z	-.066	-.066	0		%100
41	MP4A	X	-.408	-.408	0		%100
42	MP4A	Z	-.235	-.235	0		%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,...]	End Location[ft,...]
43	M33	X	-.132	-.132	0	%100
44	M33	Z	-.076	-.076	0	%100
45	M33A	X	-.112	-.112	0	%100
46	M33A	Z	-.065	-.065	0	%100
47	M34	X	-.112	-.112	0	%100
48	M34	Z	-.065	-.065	0	%100
49	M35	X	-.112	-.112	0	%100
50	M35	Z	-.065	-.065	0	%100
51	M36	X	-.804	-.804	0	%100
52	M36	Z	-.464	-.464	0	%100
53	M37	X	-.804	-.804	0	%100
54	M37	Z	-.464	-.464	0	%100
55	M38	X	-.804	-.804	0	%100
56	M38	Z	-.464	-.464	0	%100
57	M39	X	-.112	-.112	0	%100
58	M39	Z	-.065	-.065	0	%100
59	M40	X	-.112	-.112	0	%100
60	M40	Z	-.065	-.065	0	%100
61	M41	X	-.112	-.112	0	%100
62	M41	Z	-.065	-.065	0	%100
63	M42	X	-.804	-.804	0	%100
64	M42	Z	-.464	-.464	0	%100
65	M43	X	-.804	-.804	0	%100
66	M43	Z	-.464	-.464	0	%100
67	M44	X	-.804	-.804	0	%100
68	M44	Z	-.464	-.464	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	FH2	X	-.214	-.214	0	%100
2	FH2	Z	-.37	-.37	0	%100
3	FH1	X	-.214	-.214	0	%100
4	FH1	Z	-.37	-.37	0	%100
5	MP5A	X	-.235	-.235	0	%100
6	MP5A	Z	-.408	-.408	0	%100
7	MP3A	X	-.235	-.235	0	%100
8	MP3A	Z	-.408	-.408	0	%100
9	MP2A	X	-.235	-.235	0	%100
10	MP2A	Z	-.408	-.408	0	%100
11	MP1A	X	-.235	-.235	0	%100
12	MP1A	Z	-.408	-.408	0	%100
13	SH1	X	-.224	-.224	0	%100
14	SH1	Z	-.388	-.388	0	%100
15	SH3	X	-.021	-.021	0	%100
16	SH3	Z	-.037	-.037	0	%100
17	SH2	X	-.224	-.224	0	%100
18	SH2	Z	-.388	-.388	0	%100
19	SH4	X	-.021	-.021	0	%100
20	SH4	Z	-.037	-.037	0	%100
21	V1	X	-.168	-.168	0	%100
22	V1	Z	-.291	-.291	0	%100
23	V2	X	-.104	-.104	0	%100
24	V2	Z	-.18	-.18	0	%100
25	V3	X	-.104	-.104	0	%100
26	V3	Z	-.18	-.18	0	%100
27	V6	X	-.168	-.168	0	%100



Company : Network Building and Consulting
 Designer : Connor Rice
 Job Number : 100719
 Model Name : 469068-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft, %]	End Location[ft, %]
28	V6	Z	-.291	-.291	0	%100
29	V4	X	-.104	-.104	0	%100
30	V4	Z	-.18	-.18	0	%100
31	V5	X	-.104	-.104	0	%100
32	V5	Z	-.18	-.18	0	%100
33	D2	X	-.102	-.102	0	%100
34	D2	Z	-.177	-.177	0	%100
35	D1	X	-.102	-.102	0	%100
36	D1	Z	-.177	-.177	0	%100
37	D3	X	-.067	-.067	0	%100
38	D3	Z	-.117	-.117	0	%100
39	D4	X	-.067	-.067	0	%100
40	D4	Z	-.117	-.117	0	%100
41	MP4A	X	-.235	-.235	0	%100
42	MP4A	Z	-.408	-.408	0	%100
43	M33	X	-.007	-.007	0	%100
44	M33	Z	-.013	-.013	0	%100
45	M33A	X	-.065	-.065	0	%100
46	M33A	Z	-.112	-.112	0	%100
47	M34	X	-.065	-.065	0	%100
48	M34	Z	-.112	-.112	0	%100
49	M35	X	-.065	-.065	0	%100
50	M35	Z	-.112	-.112	0	%100
51	M36	X	-.464	-.464	0	%100
52	M36	Z	-.804	-.804	0	%100
53	M37	X	-.464	-.464	0	%100
54	M37	Z	-.804	-.804	0	%100
55	M38	X	-.464	-.464	0	%100
56	M38	Z	-.804	-.804	0	%100
57	M39	X	-.065	-.065	0	%100
58	M39	Z	-.112	-.112	0	%100
59	M40	X	-.065	-.065	0	%100
60	M40	Z	-.112	-.112	0	%100
61	M41	X	-.065	-.065	0	%100
62	M41	Z	-.112	-.112	0	%100
63	M42	X	-.464	-.464	0	%100
64	M42	Z	-.804	-.804	0	%100
65	M43	X	-.464	-.464	0	%100
66	M43	Z	-.804	-.804	0	%100
67	M44	X	-.464	-.464	0	%100
68	M44	Z	-.804	-.804	0	%100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N30	max	724.645	9	2079.957	15	-56.625	12	-.178	9	0	51	.329	27
2		min	-1787.311	3	551.639	9	-3236.185	18	-.606	15	0	1	.028	9
3	N32	max	1613.845	35	891.548	15	3189.796	24	-.081	8	0	51	.219	27
4		min	60.302	5	233.184	9	216.306	6	-.396	14	0	1	.035	9



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 Job Number : 100719
 Model Name : 469068-VZW_MT_LOT_SectorA_H

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

Member	Shape	Code ...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	SH3	PIPE 2.0	.382	0	15	.157	0	15	21240.614	32130	1.872	1.872	2...	H1-1b
2	V3	PIPE .75	.041	3.042	24	.009	.095	19	5351.592	9828	.247	.247	1...	H1-1b*
3	V4	PIPE .75	.088	3.042	15	.013	.095	18	5351.592	9828	.247	.247	2...	H1-1b*
4	M35	PL2.75x1/4	.146	0	23	.077	.164	y 14	19950.818	22291.2	.116	1.277	2...	H1-1b
5	M36	PL2.75x1/4	.300	0	15	.178	0	y 15	19950.818	22291.2	.116	1.277	2...	H1-1b
6	M37	PL2.75x1/4	.267	0	15	.186	0	y 15	19950.818	22291.2	.116	1.277	2...	H1-1b
7	M38	PL2.75x1/4	.121	0	20	.038	0	y 8	19950.818	22291.2	.116	1.277	1...	H1-1b
8	M41	PL2.75x1/4	.015	.292	24	.014	0	y 50	19950.818	22291.2	.116	1.277	1...	H1-1b
9	M42	PL2.75x1/4	.024	.292	15	.012	0	y 50	19950.818	22291.2	.116	1.277	1...	H1-1b*

Bolt Check	
Site Name	Vernon CT
Site ID	325016
NB+C Project No.	100719

Bolt Properties			
Bolt Grade		A325	
Diameter	d	0.75	in
Number of Bolts	n ₁	1	
Nominal Tensile Strength	F _{nt}	90	ksi
Nominal Shear Strength	F _{nv}	54	ksi
Area	A _b	0.441786	in ²
Bolt Strength			
Load Factor	φ	0.75	
Available Tensile Strength	φR _{nt}	29.8	kips
Available Shear Strength	φR _{nv}	17.9	kips
Capacity Check in Tension			
Demand	T _{max}	2.1	kips
Available strength	φR _{nt}	29.8	kips
% Usage	-	7.0%	Pass
Capacity Check in Shear			
Demand	V _{max}	3.7	kips
Available strength	φR _{nv}	17.9	kips
% Usage	-	20.7%	Pass

Joint Reactions			
Shear	F _x	1787	lbs
	F _z	3236	lbs
Tension	F _y	2079	lbs
Bending	M _x	0	k-ft
	M _y	0	k-ft
Torsion	M _z	0	k-ft
Resultant Member Forces			
Shear	V	3696.6	lbs
Tension	P	2079.0	lbs
Bending	M	0.0	lb-in
Torsion	T	0.0	lb-in

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

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

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Network Building + Consulting immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

Photo Requirements:

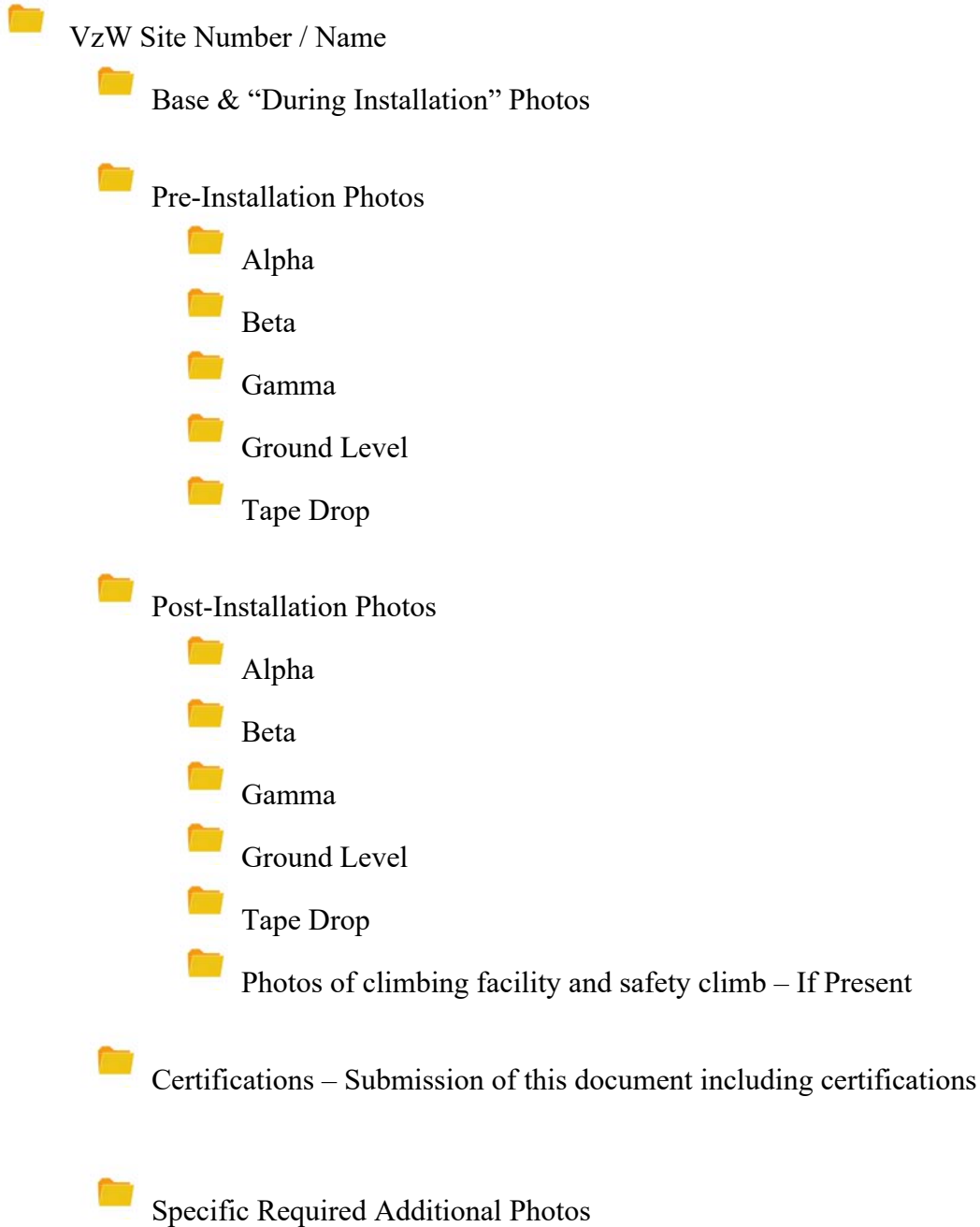
- **Base and “During Installation Photos”**
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- **Photos taken at ground level**
 - Overall tower structure before and after installation of the equipment modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- **Photos taken at Mount Elevation**
 - Photos showing each individual sector before and also after installation of equipment.

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Mount Structural Analysis Report
(3) 15.50-Ft Sector Frames

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Schedule A – Photo & Document File Structure



Sector: A

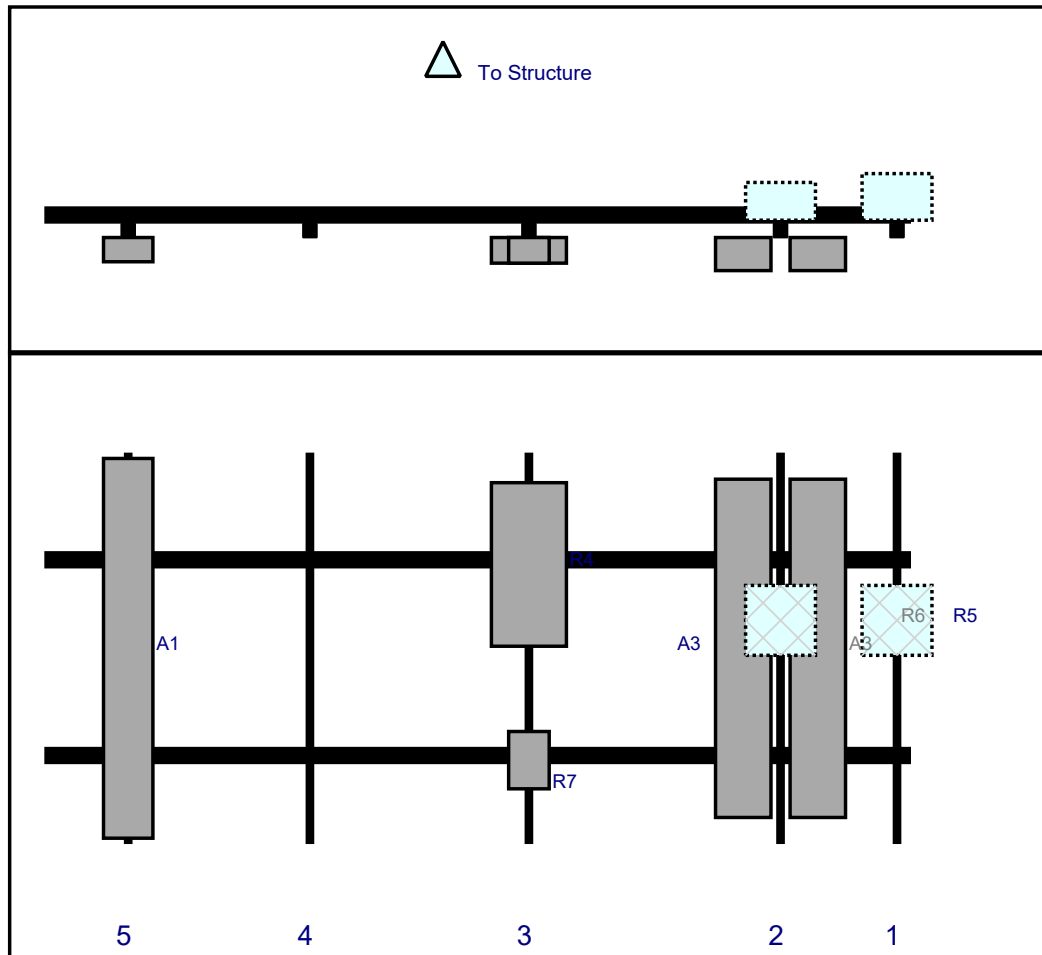
4/29/2021

Structure Type: Self Support

Mount Elev: 111.75

Page: 1

Plan View

Front View
Looking at Structure

Ref	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R5	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	183	1	a	Behind	36	0	Added	
A3	SBNHH-1D65B	72.6	11.9	158	2	a	Front	42	8	Retained	03/30/2021
A3	SBNHH-1D65B	72.6	11.9	158	2	b	Front	42	-8	Retained	03/30/2021
R6	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	158	2	a	Behind	36	0	Added	
R4	MT6407-77A	35.1	16.1	104	3	a	Front	24	0	Added	
R7	CBRS RRH - RT4401-48A	12.3	8.7	104	3	a	Front	66	0	Added	
A1	LBX-6515DS	81.5	10.6	18	5	a	Front	42	0	Retained	03/30/2021

Sector: **B**

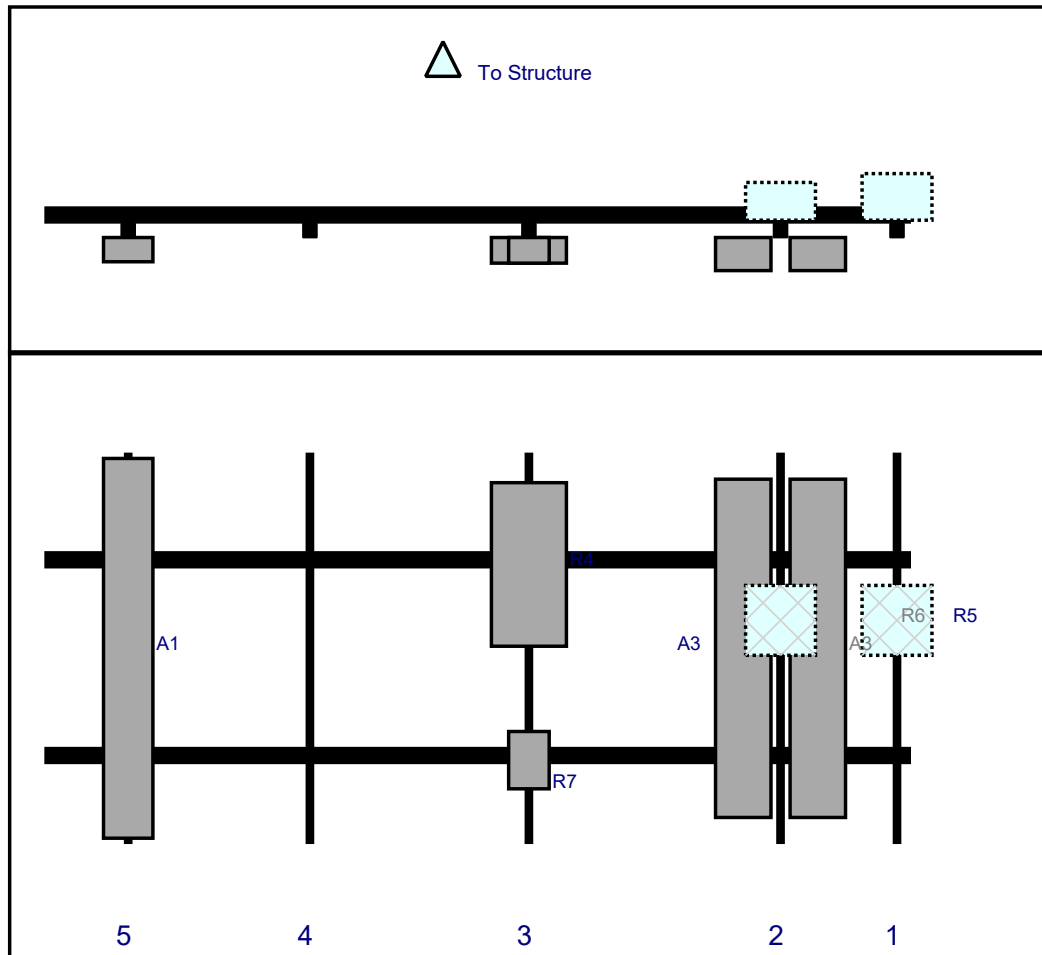
4/29/2021

Structure Type: Self Support

Mount Elev: 111.75

Page: 2

Plan View

Front View
Looking at Structure

Ref	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R5	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	183	1	a	Behind	36	0	Added	
A3	SBNHH-1D65B	72.6	11.9	158	2	a	Front	42	8	Retained	03/30/2021
A3	SBNHH-1D65B	72.6	11.9	158	2	b	Front	42	-8	Retained	03/30/2021
R6	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	158	2	a	Behind	36	0	Added	
R4	MT6407-77A	35.1	16.1	104	3	a	Front	24	0	Added	
R7	CBRS RRH - RT4401-48A	12.3	8.7	104	3	a	Front	66	0	Added	
A1	LBX-6515DS	81.5	10.6	18	5	a	Front	42	0	Retained	03/30/2021

Sector: C

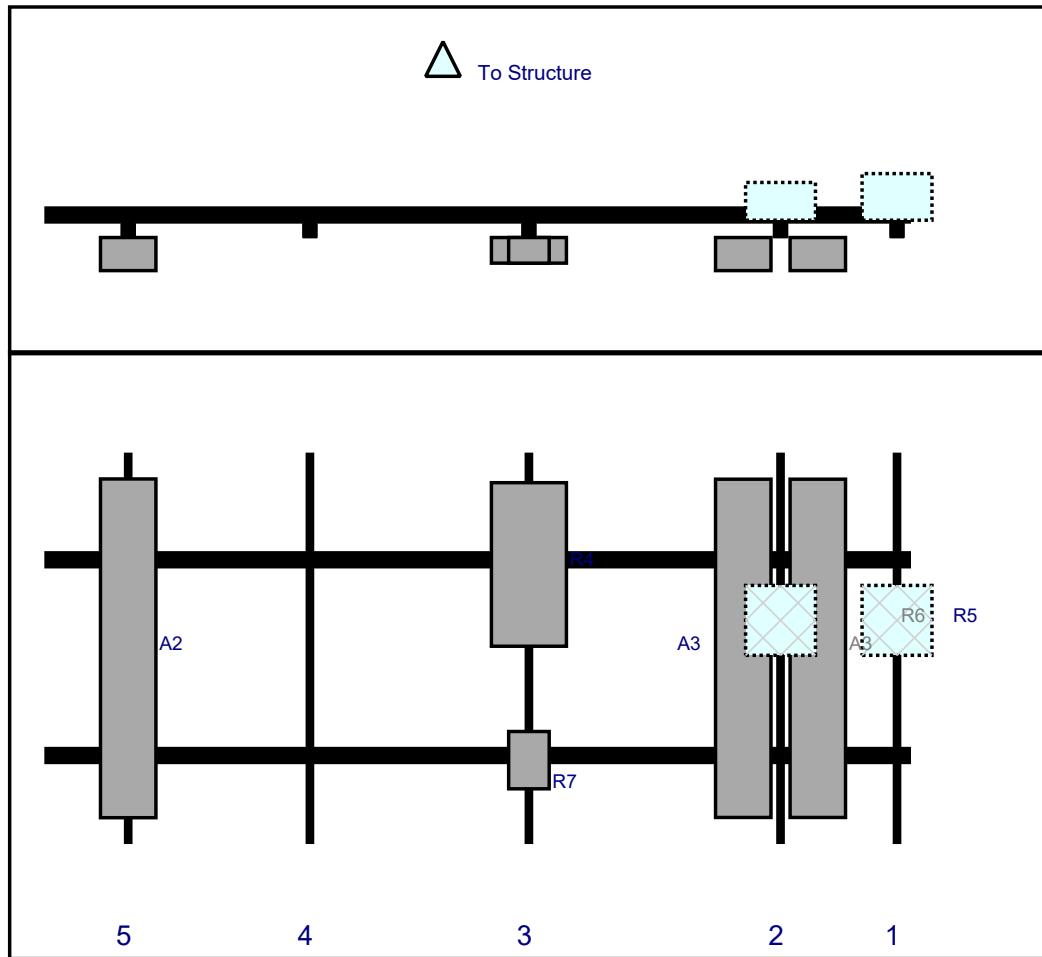
4/29/2021

Structure Type: Self Support

Mount Elev: 111.75

Page: 3

Plan View

Front View
Looking at Structure

Ref	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R5	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	183	1	a	Behind	36	0	Added	
A3	SBNHH-1D65B	72.6	11.9	158	2	a	Front	42	8	Retained	03/30/2021
A3	SBNHH-1D65B	72.6	11.9	158	2	b	Front	42	-8	Retained	03/30/2021
R6	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	158	2	a	Behind	36	0	Added	
R4	MT6407-77A	35.1	16.1	104	3	a	Front	24	0	Added	
R7	CBRS RRH - RT4401-48A	12.3	8.7	104	3	a	Front	66	0	Added	
A2	LNx-6514DS	72.7	11.9	18	5	a	Front	42	0	Retained	03/30/2021

Exhibit F

Power Density/RF Emissions Report

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

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)
VZW 700	751	4	697	2787	117	0.0073
VZW CDMA	869	2	499	998	117	0.0026
VZW Cellular	885	4	788	3153	117	0.0083
VZW PCS	1975	4	1521	6085	117	0.0160
VZW AWS	2120	4	1563	6251	117	0.0164
VZW CBRS	3625	4	11	42	115	0.0001
VZW CBAND	3730.08	4	6531	26125	118.5	0.0669

Total Percentage of Maximum Permissible Exposure

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IE

**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

Maximum Permissible Exposure*	Fraction of MPE
(mW/cm ²)	(%)
0.5007	1.46%
0.5793	0.45%
0.5900	1.40%
1.0000	1.60%
1.0000	1.64%
1.0000	0.01%
1.0000	6.69%
	13.26%

IEEE C95.1-1992

November 10, 2015 Memorandum for Exempt Modification filings