



June 14, 2025

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

Re: Notice of Exempt Modification New Cingular Wireless PCS LLC ("AT&T") Site CT5189
88 Main Street, Monroe, CT 06468 (the "Property")
Latitude: 41.301653 N Longitude: -73.250780 W

Dear Ms. Bachman:

AT&T currently maintains (9) antennas at the 175'± cl on the existing 195'± monopole tower ("Tower") at 88 Main Street, Monroe, CT. The Tower is owned by Crown Castle & the property is owned by Stepney Volunteer Fire Co. AT&T intends to modify its Facility by removing all (9) antennas and adding (6) TPA65R-BU6Dv2B antennas at the 175' cl and (3) AIR6472 B77G B77M antennas at the 176'6"cl on the Tower. AT&T also intends on removing (15) remote radio units ("RRUs"), and adding (3) 4490 B5/B12A, (3) 4890 B25/B66A & (3) 4494 B14/B29 RRUs at the 175'± cl on the Tower. The height of AT&Ts existing & proposed RRUs is 175'± cl on the Tower. The height of AT&T proposed antennas is 175' and 176'6"cl on the Tower. (6) TMAs to be removed and not replaced. Pipe mounts to be replaced per the analysis.

This modification may include B2, B5, B17, B14, B29, B30, B66 & n77 hardware that is 4G(LTE) and/or 5GNR capable through remote software configurations and either or both services may be turned on or off at various times.

The Planning & Zoning Commission of Monroe issued a Special Exception Permit for the Tower on January 11, 2001. AT&T received CT Siting Council approval under EM-AT&T-085-020422 on May 7, 2002. These approvals contained no conditions that could be violated by this modification. Therefore, AT&Ts modification complies with the above-mentioned approvals.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies ("R.C.S.A") §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 the Hon. Terrence P. Rooney, First Selectman, Town of Monroe, Ms. Kathleen Gallagher, Planning & Zoning Administrator, Town of Monroe, Stepney Volunteer Fire Co, the property owner and Crown Castle, the Tower owner.

The planned modification of the facility falls squarely within those activities explicitly provided for in R.C.S.A §16-50j-72(b)(2). Specifically:

1. The proposed modifications will not result in an increase in the height of the existing Tower.
2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing Tower and foundation can support the proposed loading.

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

Sincerely,

Hollis M. Redding

Hollis M. Redding
SAI Communications, LLC
12 Industrial Way
Salem, NH 03079
Mobile: 860-834-6964
hredding@saigrp.com

Enclosures

Cc:

Hon. Terrence P. Rooney, First Selectman, Town of Monroe
Ms. Kathleen Gallagher, Planning & Zoning Administrator, Town of Monroe
Stepney Volunteer Fire Co, the Property owner
Crown Castle, the Tower owner



C Squared Systems, LLC
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Auburn, NH 03032
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Calculated Radio Frequency Emissions Report



CT5189

88 Main Street, Monroe, CT

June 11, 2025

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1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modification of AT&T's antenna arrays to be mounted at 175' and 176.5' AGL on the existing monopole located at 88 Main Street in Monroe, CT. The coordinates of the existing facility are 41° 18' 5.95" N, 73° 15' 2.81" W.

AT&T is proposing the following:

- 1) Remove nine (9) directional antennas.
- 2) Install nine (9) directional antennas (three sectors, three antennas per sector) to support its 4G LTE and 5G NR networks.

This report considers the proposed antenna configuration for AT&T, in addition to equipment configurations from operators that are currently located on the existing monopole tower, to calculate the resulting % Maximum Permissible Exposure (MPE) at ground level around the existing facility. The other operators on site include Dish, T-Mobile and Verizon. The technical operating information for the existing operators at this facility was based on prior Connecticut Citing Siting Council (CSC) applications on record^{1,2,3}.

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm²). The general population exposure limits for the various frequency ranges are defined in the documents referenced in Attachment A of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

¹ As referenced to Dish's Connecticut Siting Council Exempt Modification – 88 Main Street, Monroe, CT, dated 2/9/2024.

² As referenced to T-Mobile's Connecticut Siting Council Notice of Exempt Modification – 88 Main Street, Monroe, CT, dated 1/8/2021.

³ As referenced to Verizon's Connecticut Siting Council Notice of Exempt Modification – 88 Main Street, Monroe, CT, dated 3/4/2022.

3. RF Exposure Calculation Methods

The results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{GRF^2 \times \text{EIRP}}{4\pi \times R^2} \right) \times \text{Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

$$R = \text{Radial Distance} = \sqrt{H^2 + V^2}$$

H = Horizontal Distance from antenna

V = Vertical Distance from radiation center of antenna

Off Beam Loss is determined by the selected antenna patterns

GRF = Ground reflection factor of 1.6

These calculations assume that the antennas are operating at full power and 100 percent capacity, and that all antenna channels are transmitting simultaneously. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not considered. The calculations assume level terrain in the area of study and do not account for actual terrain elevations which could attenuate the signal. As a result, the calculated power density and corresponding % MPE levels reported below are much higher than the actual signal levels will be from the final installation.

The percent of MPE values presented in this report reflect levels that one may encounter from one sector of a carrier's antennas. Most carriers use 3 or 4 sectors per site with azimuths approximately 90 or 120 degrees apart, respectively; therefore, one could not be standing in the main beam of all sectors at the same time. In cases where antenna models are not uniform across all sectors, the antenna model with the highest gain was used for the calculations. This results in a conservative or "worst case" assumption for percent of MPE calculations.

4. Antenna Inventory

Table 1 below outlines AT&T's proposed antenna configuration for the site. The associated data model and antenna patterns for these specific antenna models are included in Attachment C.

Operator	Sector / Azimuth	TX Freq (MHz)	Power at Antenna (Watts)	Ant Gain (dBi)	Power EIRP (Watts)	Antenna Model	Beam Width	Mech. Tilt	Length (ft)	Antenna Centerline Height (ft)
AT&T	Alpha / 30°	739	240	14.4	6610	TPA65R-BU6DV2	72	0	6	175
		850	240	15.3	8132		61	0		
		2300	100	18.6	7244		56	0		
		722	80	14.4	2203	TPA65R-BU6DV2	72	0	6	175
		763	160	14.4	4407		72	0		
		1900	240	18.2	15857		63	0		
		2100	240	18.6	17386		61	0		
		3500	200	19.1	16257	AIR6472 B77G B77M	60	0	3	176.5
		3700	200	18.9	15525		60	0		
	Beta / 150°	739	240	14.4	6610	TPA65R-BU6DV2	72	0	6	175
		850	240	15.3	8132		61	0		
		2300	100	18.6	7244		56	0		
		722	80	14.4	2203	TPA65R-BU6DV2	72	0	6	175
		763	160	14.4	4407		72	0		
		1900	240	18.2	15857		63	0		
		2100	240	18.6	17386		61	0		
		3500	200	19.1	16257	AIR6472 B77G B77M	60	0	3	176.5
		3700	200	18.9	15525		60	0		
	Gamma / 270°	739	240	14.4	6610	TPA65R-BU6DV2	72	0	6	175
		850	240	15.3	8132		61	0		
		2300	100	18.6	7244		56	0		
		722	80	14.4	2203	TPA65R-BU6DV2	72	0	6	175
		763	160	14.4	4407		72	0		
		1900	240	18.2	15857		63	0		
		2100	240	18.6	17386		61	0		
		3500	200	19.1	16257	AIR6472 B77G B77M	60	0	3	176.5
		3700	200	18.9	15525		60	0		

Table 1: AT&T's Proposed Antenna Inventory^{4,5}

⁴ Antenna configuration is in reference to AT&T's Radio Frequency Design Sheet last updated 12/20/2024 and the Construction Drawings prepared by B+T Group (Rev 3, dated 3/25/2025).

⁵ Transmit power assumes 0 dB of cable loss.

5. Calculated % MPE Results

The calculated % MPE results for the proposed antenna configuration are shown in Figure 1 below. Each frequency band and technology is calculated as well as the resulting cumulative percent of MPE. For completeness, the calculations for this analysis range from 0 feet horizontal distance (directly below the antennas) to a value of 3,000 feet horizontal distance from the site. In addition to the other worst-case scenario considerations that were previously mentioned, the power density calculations to each horizontal distance point away from the antennas was completed using a local maximum off beam antenna gain (within ± 5 degrees of the true mathematical angle) to incorporate a realistic worst-case scenario.

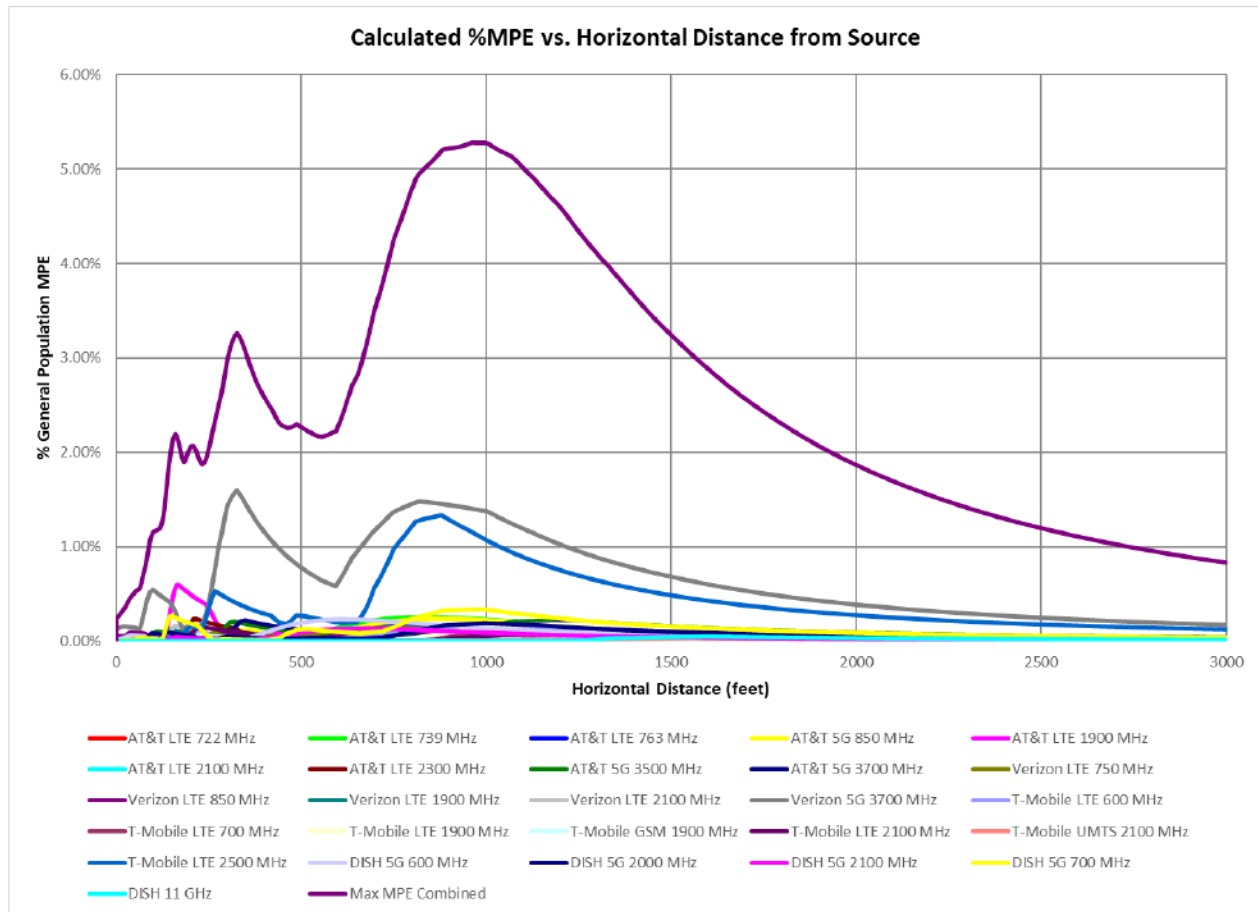


Figure 1: Graph of General Population % MPE vs. Distance

The highest percent of MPE (5.28% of the General Population limit) is calculated to occur at a horizontal distance of 962 feet from antennas. Please note that the percent of MPE calculations close to the site consider off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 1150 feet and beyond, one would now be in the main beam of the antenna patterns and off beam loss is no longer considered. Beyond this point, power density levels vary based on distance from the site and the percent of MPE decreases significantly as distance from the site increases.

Table 2 below lists percent of MPE values as well as the associated parameters that were included in the calculations. As stated in Section 3, all calculations assume that the antennas are operating at 100 percent capacity, and that all antenna channels are transmitting simultaneously. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. Additionally, a six-foot height offset was considered in this analysis to account for the height of a person standing at ground level. As a result, the calculated % MPE levels are significantly higher than the actual signal levels will be from the final installation. The results presented in Figure 1 and Table 2 assume level ground from the base of the site out to the horizontal distances calculated.

Carrier	Number of Transmitters	Power out of Base Station Per Transmitter (Watts)	Antenna Height (Feet)	Distance to the Base of Antennas (Feet)	Power Density (mW/cm ²)	Limit (mW/cm ²)	% MPE
AT&T 5G 3500 MHz	1	200.0	176.5	962	0.001350	1.000	0.14%
AT&T 5G 3700 MHz	1	200.0	176.5	962	0.000827	1.000	0.08%
AT&T 5G 850 MHz	1	240.0	175.0	962	0.001307	0.567	0.23%
AT&T LTE 1900 MHz	1	240.0	175.0	962	0.001050	1.000	0.11%
AT&T LTE 2100 MHz	1	240.0	175.0	962	0.000977	1.000	0.10%
AT&T LTE 2300 MHz	1	100.0	175.0	962	0.000208	1.000	0.02%
AT&T LTE 722 MHz	1	80.0	175.0	962	0.000393	0.481	0.08%
AT&T LTE 739 MHz	1	240.0	175.0	962	0.001178	0.493	0.24%
AT&T LTE 763 MHz	1	160.0	175.0	962	0.000785	0.509	0.15%
DISH 11 GHz	1	0.5	146.0	962	0.000015	1.000	0.00%
DISH 5G 2000 MHz	1	160.0	146.0	962	0.001835	1.000	0.18%
DISH 5G 2100 MHz	1	160.0	146.0	962	0.000949	1.000	0.09%
DISH 5G 600 MHz	1	120.0	146.0	962	0.000586	0.400	0.15%
DISH 5G 700 MHz	1	120.0	146.0	962	0.001562	0.467	0.33%
T-Mobile GSM 1900 MHz	1	120.0	193.0	962	0.000202	1.000	0.02%
T-Mobile LTE 1900 MHz	1	240.0	193.0	962	0.001284	1.000	0.13%
T-Mobile LTE 2100 MHz	1	120.0	193.0	962	0.000465	1.000	0.05%
T-Mobile LTE 2500 MHz	1	160.0	193.0	962	0.011552	1.000	1.16%
T-Mobile LTE 600 MHz	1	140.0	193.0	962	0.000612	0.400	0.15%
T-Mobile LTE 700 MHz	1	60.0	193.0	962	0.000275	0.467	0.06%
T-Mobile UMTS 2100 MHz	1	60.0	193.0	962	0.000095	1.000	0.01%
Verizon 5G 3700 MHz	1	200.0	165.0	962	0.014029	1.000	1.40%
Verizon LTE 1900 MHz	1	160.0	165.0	962	0.000713	1.000	0.07%
Verizon LTE 2100 MHz	1	240.0	165.0	962	0.001099	1.000	0.11%
Verizon LTE 750 MHz	1	160.0	165.0	962	0.000580	0.500	0.12%
Verizon LTE 850 MHz	1	160.0	165.0	962	0.000568	0.567	0.10%
Total							5.28%

Table 2: Maximum Percent of General Population Exposure Values^{6,7,8,9}

⁶ Frequencies listed are representative of the operating band and are not the specific operating frequency.

⁷ The total % MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

⁸ When the antenna pattern is not available through the manufacturer, similar antenna pattern is used based on the frequency, gain, beamwidth and the size of the antenna.

⁹ Antenna heights are in reference to the Construction Drawings prepared by B+T Group (Rev 3. dated 3/25/2025).

6. Conclusion

The above analysis concludes that RF exposure levels from AT&T's proposed equipment configuration will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative percent of MPE in consideration of all transmitters is calculated to be **5.28% of the FCC limit (General Population/Uncontrolled)**. This maximum cumulative percent of MPE value is calculated to occur 962 feet away from the site.

7. Statement of Certification


I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.1, ANSI/IEEE Std. C95.3, and FCC OET Bulletin 65 Edition 97-01.



Report Prepared By: Ram Acharya
RF Engineer
C Squared Systems, LLC

June 11, 2025

Date



Reviewed/Approved By: Martin Lavin
Senior RF Engineer
C Squared Systems, LLC

June 11, 2025

Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

IEEE C95.1-2019, IEEE Standard Safety Levels With Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz IEEE-SA Standards Board

IEEE C95.3-2021, IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields With Respect to Human Exposure to Such Fields, 0 Hz to 300 GHz IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure¹⁰

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure¹¹

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

Table 3: FCC Limits for Maximum Permissible Exposure

¹⁰ Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

¹¹ General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

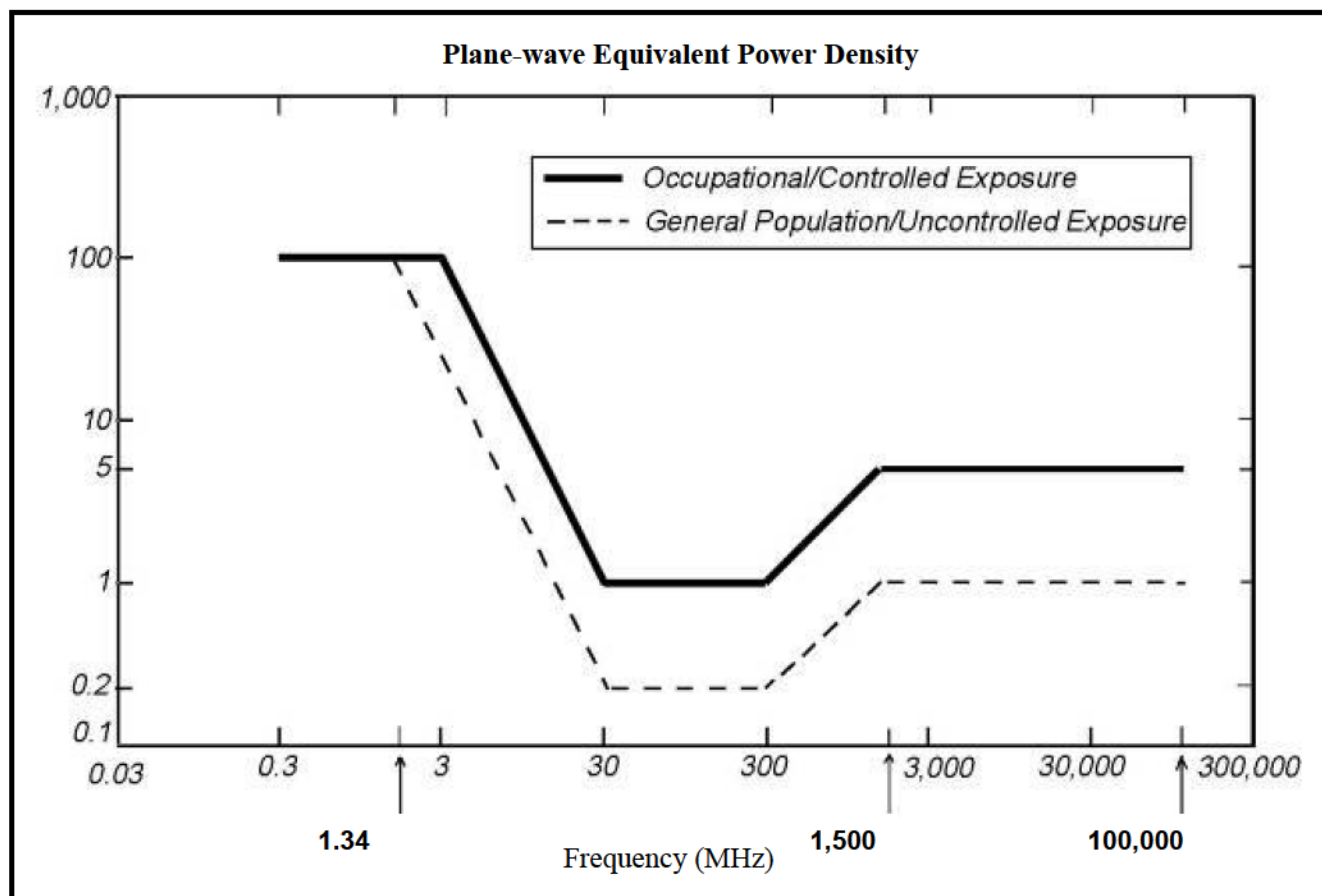
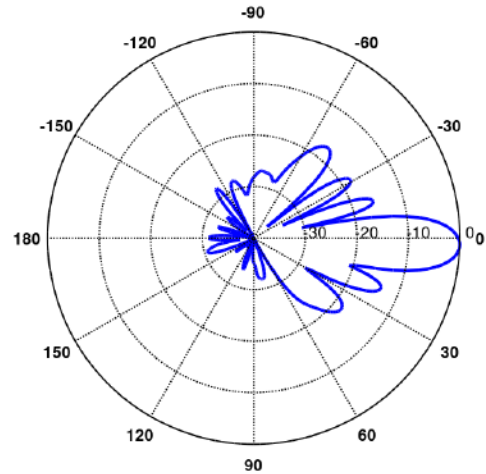


Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: AT&T Antenna Model Data Sheets and Electrical Patterns

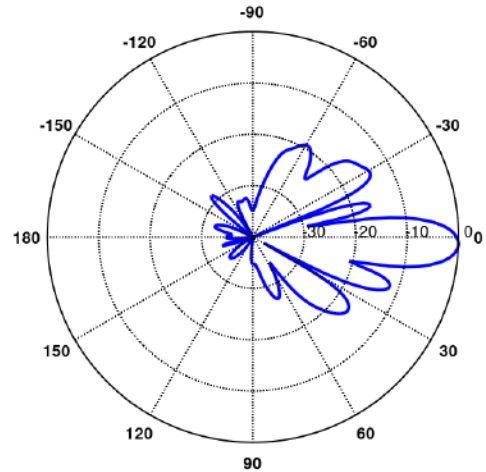
722/739/763 MHz

Manufacturer: CCI
 Model #: TPA65R-BU6DV2
 Frequency Band: 698-806 MHz
 Gain: 14.4 dBi
 Electrical Down-Tilt: 2°
 Vertical Beamwidth: 12.7°
 Horizontal Beamwidth: 72°
 Polarization: Dual Linear 45°
 Dimensions (L x W x D): 71.2" x 20.7" x 7.7"



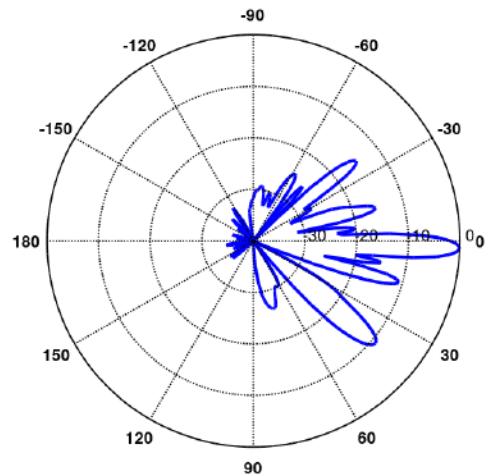
850 MHz

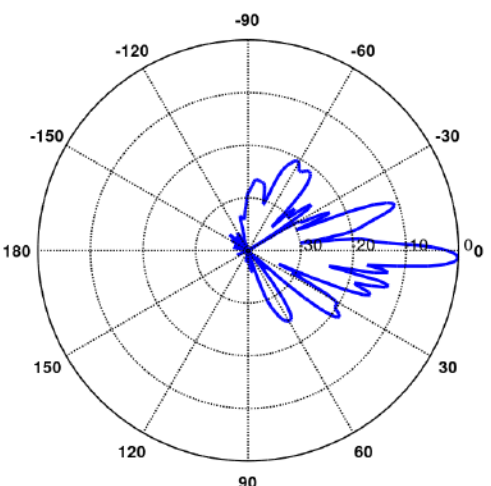
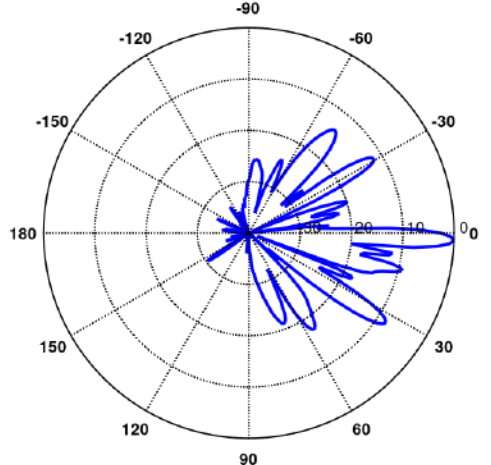
Manufacturer: CCI
 Model #: TPA65R-BU6DV2
 Frequency Band: 824-896 MHz
 Gain: 15.3 dBi
 Electrical Down-Tilt: 2°
 Vertical Beamwidth: 11.1°
 Horizontal Beamwidth: 61°
 Polarization: Dual Linear 45°
 Dimensions (L x W x D): 71.2" x 20.7" x 7.7"



1900 MHz

Manufacturer: CCI
 Model #: TPA65R-BU6DV2
 Frequency Band: 1850-1990 MHz
 Gain: 18.2 dBi
 Electrical Down-Tilt: 2°
 Vertical Beamwidth: 5.1°
 Horizontal Beamwidth: 63°
 Polarization: Dual Linear 45°
 Dimensions (L x W x D): 71.2" x 20.7" x 7.7"



<p>2100 MHz</p> <p>Manufacturer: CCI Model #: TPA65R-BU6DV2 Frequency Band: 1920-2180 MHz Gain: 18.6 dBi Electrical Down-Tilt: 2° Vertical Beamwidth: 4.8° Horizontal Beamwidth: 61° Polarization: Dual Linear 45° Dimensions (L x W x D): 71.2" x 20.7" x 7.7"</p>	
<p>2300 MHz</p> <p>Manufacturer: CCI Model #: TPA65R-BU6DV2 Frequency Band: 1920-2180 MHz Gain: 18.6 dBi Electrical Down-Tilt: 2° Vertical Beamwidth: 4.1° Horizontal Beamwidth: 56° Polarization: Dual Linear 45° Dimensions (L x W x D): 71.2" x 20.7" x 7.7"</p>	
<p>3500/3700 MHz</p> <p>Manufacturer: ERICSSON Model #: AIR 6472 Frequency Band: 3450-3550 MHz 3840-3980 MHz Electrical Down-Tilt: 2° Gain: N/A Vertical Scan Range: 87-105° Horizontal Scan Range: ±60° Polarization: N/A° Dimensions (L x W x D): 36.3" x 15.8" x 7.4"</p>	<p>N/A</p>



SITE NAME:
MONOE SOUTH

SITE ID: CTL05189

USID: 24490

FA NUMBER: 10071138

IWM	PTN
WSCTB0028153	2051A1F54N
WSCTB0028091	2051A1F54K
WSCTB0028220	2051A1F54P
WSCTB0028232	2051A1F54L
WSCTB0028175	2051A1F54H
WSCTB0028145	2051A1F54M
WSCTB0028188	2051A1F54G
WSCTB0028204	2051A1F54J

EXISTING 195'-0" MONOPOLE
5G NR 1DR-1 CBAND

RF DATA SHEET

RFDS ID	RFDS-33874
LAST MODIFIED DATE	12/20/24

PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT, LICENSE NO.: 23924, EXPIRATION DATE: 1/31/25.

Reviewed by Amentum
Benjamin Nejerer

03/06/2025



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

MONOE SOUTH

USID: 24490
FA: 10071138

88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

PROJECT NO: 173228.001.01
CHECKED BY: TDG

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	10/16/24	AB	PRELIMINARY REVIEW
0	11/22/24	BKR	CONSTRUCTION
1	3/3/25	YX	CONSTRUCTION

MTS ENGINEERING P.L.L.C.
PEC.0002304
Expires 4/11/25



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: 1

PROJECT SUMMARY

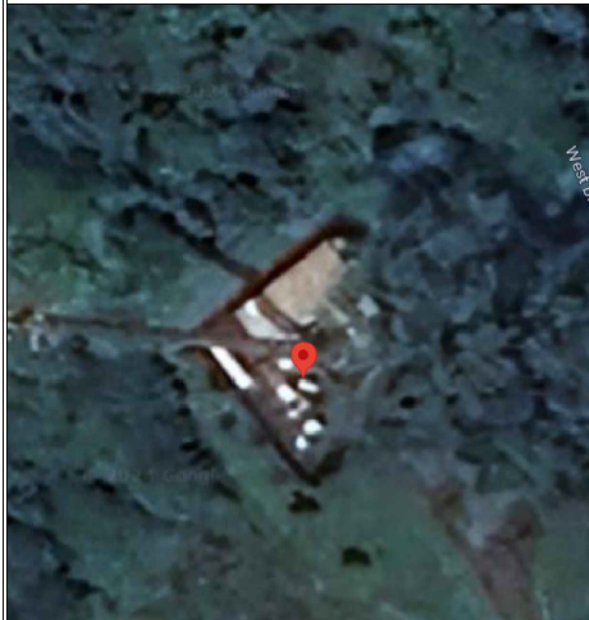
TOWER OWNER: CROWN CASTLE
ADDRESS: 2000 CORPORATE DRIVE
CANONSBURG, PA 15317
CONTACT: NICK LARKIN
PHONE: NICK.LARKING@CROWNCastle.COM
BU NUMBER: 826053
SITE ADDRESS: 88 MAIN STREET
MONROE, CT 06468
CUSTOMER/APPLICANT: AT&T WIRELESS
1425 US HWY 206, STE N2C04A
BEDMINSTER, NJ 07921

NAD83
LATITUDE: 41.301653° N
LONGITUDE: 73.250780° W
JURISDICTION: CONNECTICUT SITING COUNCIL
COUNTY: FAIRFIELD
GROUND ELEVATION: 326' AMSL
OCCUPANCY TYPE: UNMANNED
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
CONSTRUCTION TYPE: II-B
OCCUPANCY GROUP: U

CONTACT INFORMATION

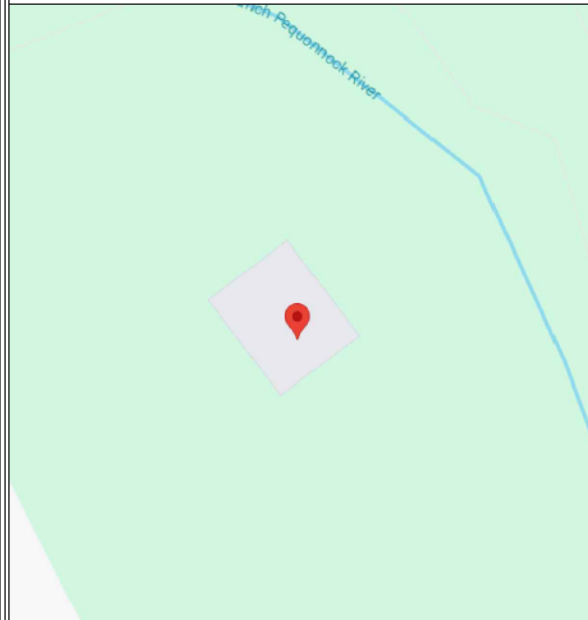
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TULSA, OK 74119
CONTACT: JASON TOWNLEY
EMAIL: JGTOWNLEY@BTGRP.COM
CONSTRUCTION PM:
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ELECTRIC PROVIDER: NORTHEAST UTILITIES
PHONE: (800) 286-2000
TELCO PROVIDER: LIGHTTOWER
PHONE: (855) 91-FIBER

AREA MAP



NO SCALE

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS

DEPART FROM 1425 US HWY 206, BEDMINSTER, NJ:
FOLLOW US-206 S AND SCHLEY MOUNTAIN RD TO I-287 N. HEAD NORTHEAST TOWARD SOMERSET CENTER. CONTINUE ONTO SOMERSET CENTER. TURN RIGHT ONTO US-206 S. TURN LEFT ONTO SCHLEY MOUNTAIN RD. CONTINUE ON I-287 N. TAKE I-87 S AND CT-15 N TO CT-25 N IN TRUMBULL. TAKE EXIT 49N FROM CT-15 N. MERGE WITH I-287 N. KEEP LEFT TO STAY ON I-287 N. TAKE THE I-87 S/NEW YORK STATE THRUWAY/I-287 EXIT TOWARD GOV MARIO M. CUOMO BR/NEW YORK CITY. MERGE WITH I-87 S. KEEP LEFT TO CONTINUE ON I-287 E, FOLLOW SIGNS FOR WHITE PLAINS/RYE. TAKE EXIT 9 S-N TOWARD HUTCHINSON PKWY/MERRITT PKWY. MERGE WITH WESTCHESTER AVE. SLIGHT RIGHT ONTO THE RAMP TO WESTCHESTER AVE/NORTH HUTCHINSON PKWY/MERRITT PKWY. MERGE WITH HUTCHINSON RIV PKWY N. CONTINUE ONTO CT-15 N. TAKE EXIT 49N TO MERGE WITH CT-25 N TOWARD DANBURY. FOLLOW CT-25 N TO MILL ST IN MONROE. MERGE WITH CT-25 N. TURN RIGHT ONTO MILL ST. DESTINATION WILL BE ON THE LEFT.

CODE COMPLIANCE

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
BUILDING/DWELLING
STRUCTURAL
MECHANICAL
ELECTRICAL
CODE
2022 CONNECTICUT SBC/2021 IBC
2022 CONNECTICUT SBC/2021 IBC
2022 CONNECTICUT SBC/2021 IMC
2022 CONNECTICUT SBC/2020 NEC

DO NOT SCALE DRAWINGS

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.
SEE SHEET GN-1 FOR ADDITIONAL CONSTRUCTION NOTES

DRAWING INDEX

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PROJECT DESCRIPTION

TOWER SCOPE:
1. ROTATE EXISTING MOUNT TO MATCH AZIMUTHS 30°/150°/270°.
2. REMOVE ALL EXISTING ANTENNAS
3. REMOVE THE RRUS32 B2 RADIOS
4. REMOVE THE RRUS-11 B12 RADIOS
5. REMOVE THE 4478 B5 RADIOS
6. REMOVE THE 4426 B66 RADIOS
7. REMOVE THE 4415 B2/B25 RADIOS
8. RELOCATE THE RRUS 32 B30 RADIOS TO THE NEWLY INSTALLED MAST PIPES ON THE STANDOFF ARMS.
9. INSTALL MOUNT MODIFICATIONS PER MOUNT MODIFICATION DRAWINGS BY B+T GROUP DATED 2/28/25.
10. INSTALL (3) TPA65R-BU6DV2B IN POS A2/B2/C2 ON NEW 10' MAST PIPE
11. INSTALL (3) AIR 6472 B77G B77M ANTENNAS IN POS A3/B3/C3 ON NEW 2.5" STD. x 10' MAST PIPE
12. INSTALL (3) TPA65R-BU6DV2B IN POS A4/B4/C4 ON NEW 10' MAST PIPE
13. INSTALL (6) TOTAL NEW 2" X 10'-6" EQUIPMENT PIPE ON THE STANDOFF OF EACH SECTOR TO SUPPORT PROPOSED EQUIPMENT. (2) PER SECTOR.
14. INSTALL (3) E/// 4494 B14/B29 RADIOS ON THE NEW 10'-6" PIPE ON A/B/C V-FRAME ARM ON NEW BACK-TO-BACK BRACKET.
15. INSTALL (3) E/// 4490 B5/B12 RADIOS ON THE NEW 10'-6" PIPE ON A/B/C V-FRAME ARM ON NEW BACK-TO-BACK BRACKET.
16. INSTALL (3) E/// 4890 B25/B66 RADIOS ON THE NEW 10'-6" PIPE ON A/B/C V-FRAME ARM ON NEW BACK-TO-BACK BRACKET.
GROUND SCOPE:
1. REMOVE THE EXISTING POWER PLANT
2. REMOVE THE EXISTING BATTERIES
3. REMOVE THE EXISTING UMTS CABINET
4. REMOVE THE EXISTING NORTEL CABINET
5. REMOVE (1) XMU
6. REMOVE THE 5216 BBU
7. REMOVE THE 6630 BBU
8. INSTALL A NEW DC50 ON A NEW H FRAME
9. INSTALL NEW VERTIV 512 48/58V DCPD
10. INSTALL (10) 48/58V CONVERTERS IN NEW VERTIV 512
11. INSTALL (10) 48V RECTIFIERS IN NEW VERTIV 512
12. INSTALL NEW VERTIV BATTERY CABINET
13. INSTALL (20) 190AH BATTERIES IN NEW VERTIV BATTERY CABINET
14. INSTALL (1) 6672 AND (1) 6610 IN FLX16



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(800) 922-4455
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173228.001.01.0001_10071138_CT5189.dwg -- Sheet:GN-1 -- User: tim.grove -- Mar 03, 2025 -- 11:13am

PROJECT COMPLIANCE NOTES:

- 1. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP ACCESS IS REQUIRED).
- 2. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
- 3. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL, UNLESS DURING EMERGENCY.
- 4. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
- 5. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST AT&T SYSTEM GROUNDING STANDARDS. "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF LTE SITES AND WILL FOLLOW AT&T GROUNDING AND BONDING REQUIREMENTS FOR NETWORK FACILITIES AT&T DOC ID ATT-TP-76416 AND AT&T POLICY LETTER ATT-CEM-13002.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED DURING CONSTRUCTION OPERATION.
- 7. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 8. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE APPLICANT REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY TURF VENDOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 9. NO ADDITIONAL PARKING IS PROPOSED. EXISTING ACCESS AND PARKING WILL BE USED.
- 10. NO ADDITIONAL LANDSCAPING IS PROPOSED AT THIS SITE.
- 11. ALL COAXIAL CABLE/FIBER AND DC CABLE INSTALLATION IS TO FOLLOW MANUFACTURER'S INSTRUCTION.

GREENFIELD GROUNDING NOTES:

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.

THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.

METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.

CONNECTIONS TO THE GROUND BAR SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BAR ARE PERMITTED.

ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.

EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.

GROUND CONDUCTORS USED IN THE FACILITY GROUND 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 PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

ELECTRICAL INSTALLATION NOTES:

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.

CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

WIRING, RACEWAY & SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.

EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR APPROVED EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.

ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).

PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.

ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90' C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.

SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90' C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.

POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90' C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.

ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR APPROVED EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75' C (90' C IF AVAILABLE).

RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.

RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.

LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.

CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR APPROVED EQUAL); AND RATED NEMA 1 (OR BETTER).

EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.

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 RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T WIRELESS".

PROJECT GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

TURF VENDOR-
CONTRACTOR-
OWNER-
OEM-

GENERAL CONTRACTOR (CONSTRUCTION)
AT&T
ORIGINAL EQUIPMENT MANUFACTURER
- 2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR 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 CONTRACTOR.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR 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.
- 4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
- 5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY TURF VENDOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE CONTRACTOR.
- 7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE TURF VENDOR.
- 9. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
- 10. 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.
- 11. 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.
- 12. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- 13. CONSTRUCTION SHALL COMPLY WITH AT&T AND MANUFACTURER SPECIFICATIONS.
- 14. ALL ITEMS REMOVED FROM SERVICE ON SITES THAT HAVE AN AT&T ASSET TAG MUST BE LOGGED BACK IN WITH AT&T.

ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS:

AGL	ABOVE GRADE LEVEL
BTS	BASE TRANSCIVER STATION
(E)	EXISTING
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
REF	REFERENCE
RF	RADIO FREQUENCY
T.B.D.	TO BE DETERMINED
T.B.R.	TO BE RESOLVED
TYP	TYPICAL
REQ	REQUIRED
EGR	EQUIPMENT GROUND RING
AWG	AMERICAN WIRE GAUGE
MGB	MASTER GROUND BAR
EG	EQUIPMENT GROUND
BCW	BARE COPPER WIRE
SIAD	SMART INTEGRATED ACCESS DEVICE
GEN	GENERATOR
IGR	INTERIOR GROUND RING (HALO)
RBS	RADIO BASE STATION

SYMBOLS:

	SOLID GROUND BUS BAR
	SOLID NEUTRAL BUS BAR
	SUPPLEMENTAL GROUND CONDUCTOR
	2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
	SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
	CHEMICAL GROUND ROD
	TEST WELL
	DISCONNECT SWITCH
	METER



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 24490
FA: 10071138

MONOE SOUTH

88 MAIN STREET
MONROE, CT 06468

EXISTING MONOPOLE

PROJECT NO: 173228.001.01
CHECKED BY: TDG

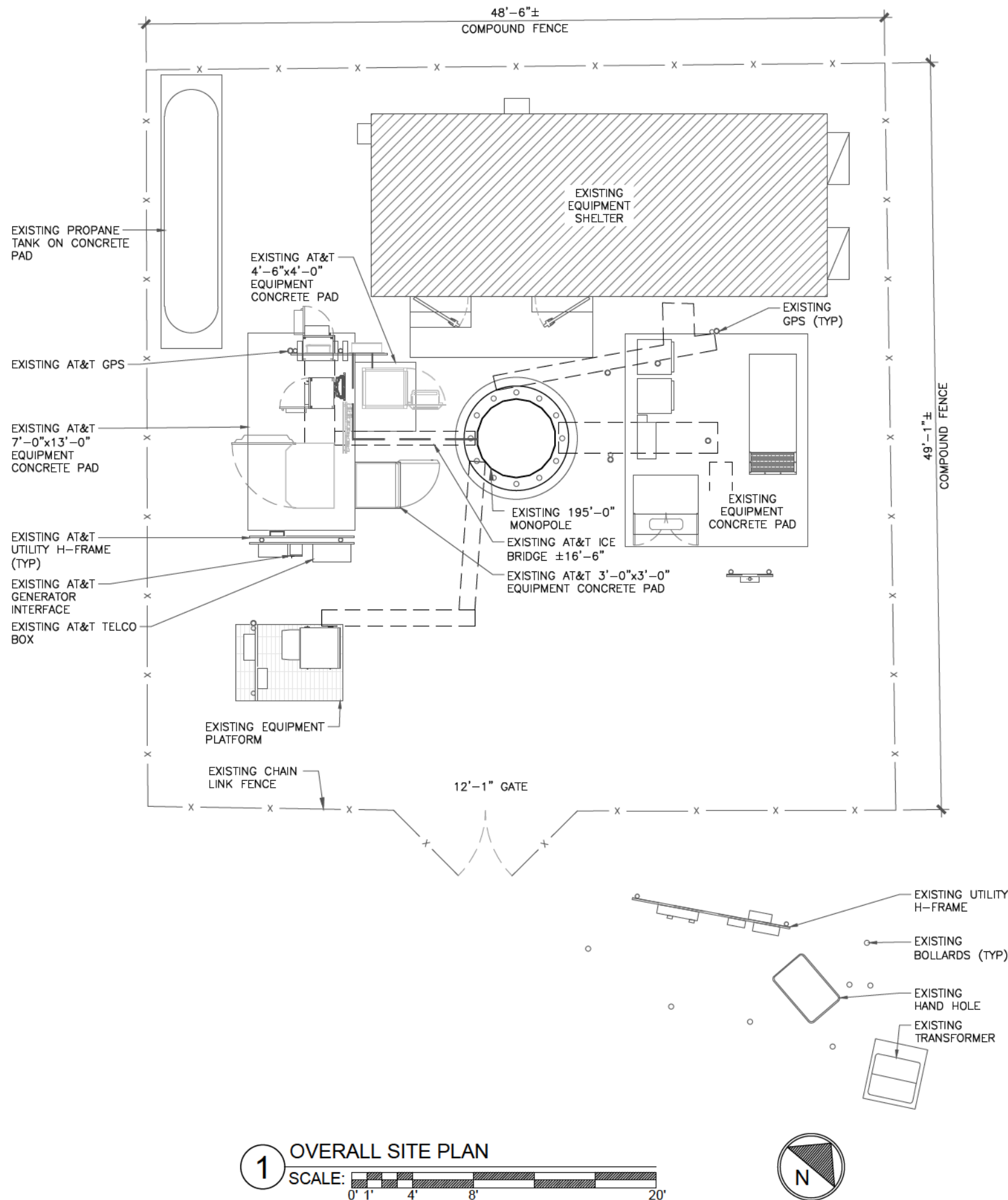
ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	10/16/24	AB	PRELIMINARY REVIEW
0	11/22/24	BKR	CONSTRUCTION
1	3/3/25	YX	CONSTRUCTION

MTS ENGINEERING P.L.L.C.
PEC.0002304
Expires 4/11/25

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: GN-1
REVISION: 1

1. THE SUBCONTRACTOR SHALL GIVE ALL NOTICES AND REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE SUBCONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID SUBCONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE SUBCONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE AT&T REPRESENTATIVE (B&T ENGINEERING) OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF SUBCONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE SUBCONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIAL AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE SUBCONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE SUBCONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS INFORMED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE SUBCONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE, UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS, AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEERING, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
11. THE SUBCONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVEMENTS, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE SUBCONTRACTOR SHALL REPAIR ANY DAMAGE THE MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE SUBCONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
13. THE SUBCONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE SUBCONTRACTOR SHALL NOTIFY THE AT&T REPRESENTATIVE (B&T ENGINEERING) WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE SUBCONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE AT&T REPRESENTATIVE (B&T ENGINEERING).
15. THE SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOBS.



1 OVERALL SITE PLAN
SCALE: 0' 1' 4' 8' 20'



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 24490
FA: 10071138
MONOE SOUTH
88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

PROJECT NO: 173228.001.01
CHECKED BY: TDG

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	
A	10/16/24	AB	PRELIMINARY REVIEW	
0	11/22/24	BKR	CONSTRUCTION	
1	3/3/25	YX	CONSTRUCTION	

MTS ENGINEERING P.L.L.C.
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Expires 4/11/25



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SHEET NUMBER: C-1
REVISION: 1

GROUND SCOPE OF WORK

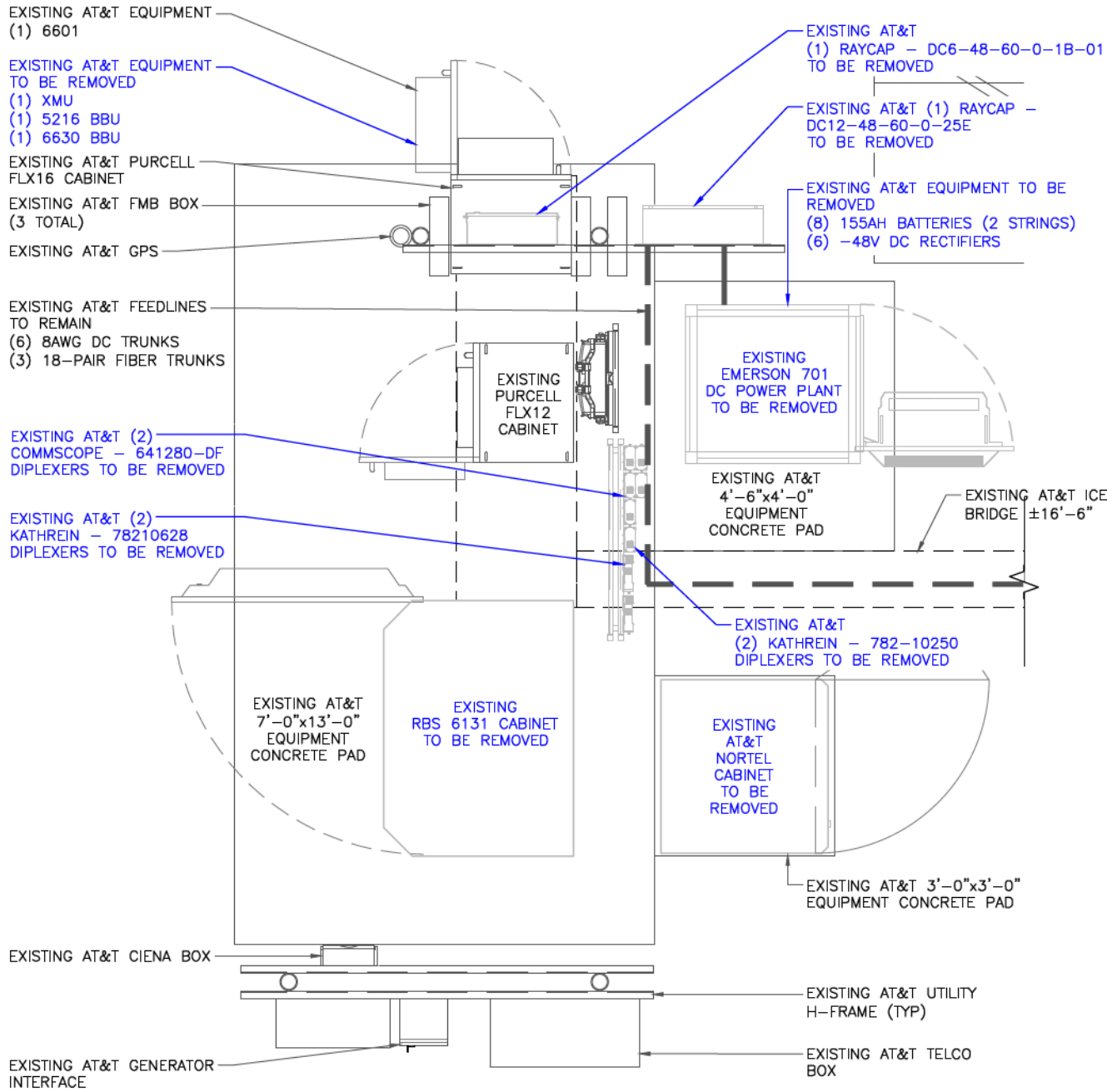
MONOPOLE, EQUIPMENT PAD

EXISTING ANT AZ - A 30, 60 B 150, 160 C 270, 300
PROPOSED ANT AZ - A 30 B 150 C 270

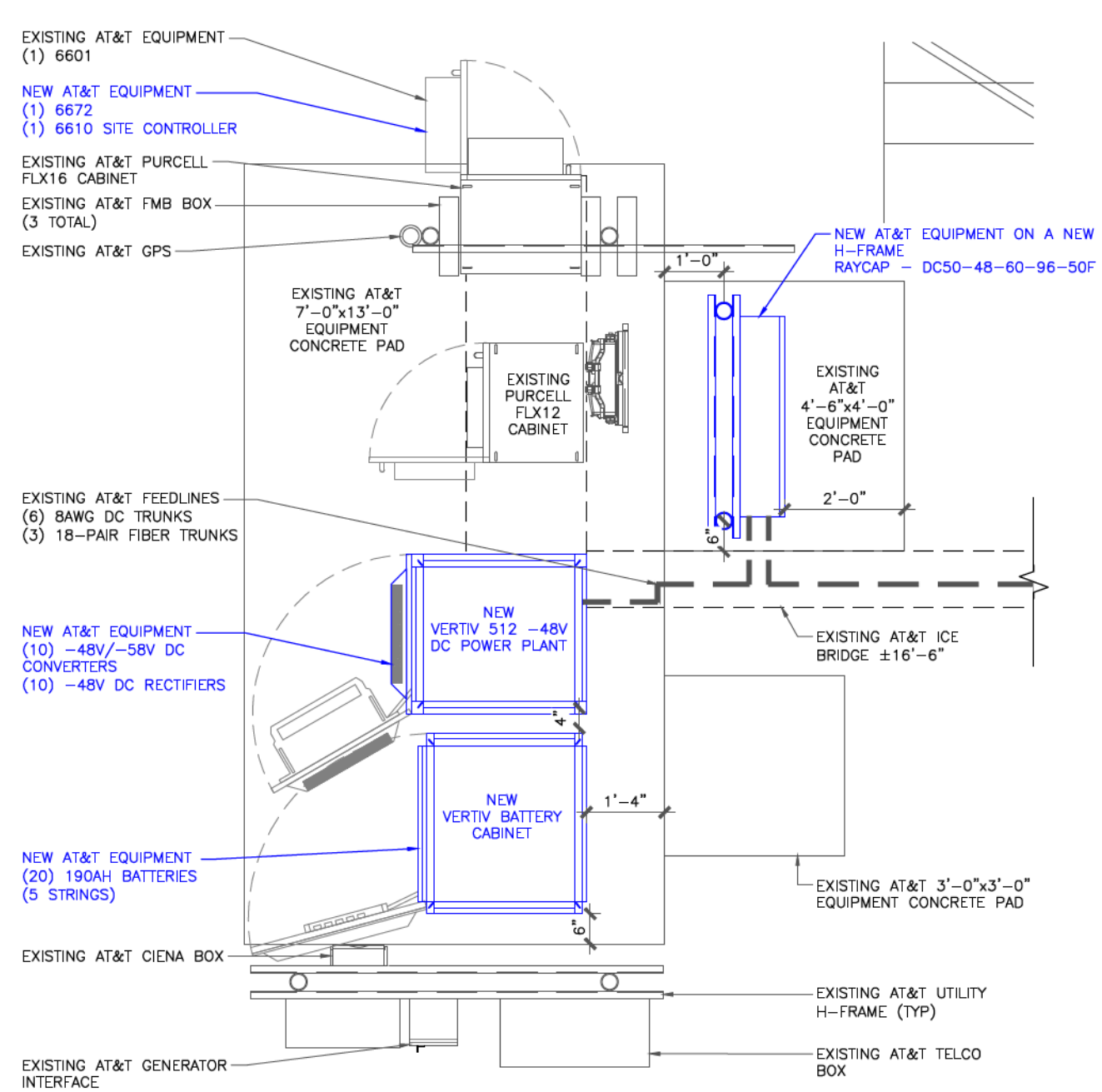
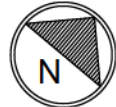
CIVIL SOW:

- 1. REMOVE THE EXISTING POWER PLANT
- 2. REMOVE THE EXISTING BATTERIES
- 3. REMOVE THE EXISTING UMTS CABINET
- 4. REMOVE THE EXISTING NORTEL CABINET
- 5. REMOVE (1) XMU
- 6. REMOVE THE 5216 BBU
- 7. REMOVE THE 6630 BBU
- 8. INSTALL A NEW DC50 ON A NEW H FRAME
- 9. INSTALL NEW VERTIV 512 48/58V DCP

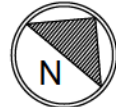
- 10. INSTALL (10) 48/58V CONVERTERS IN NEW VERTIV 512
- 11. INSTALL (10) 48V RECTIFIERS IN NEW VERTIV 512
- 12. INSTALL NEW VERTIV BATTERY CABINET
- 13. INSTALL (20) 190AH BATTERIES IN NEW VERTIV BATTERY CABINET
- 14. INSTALL (1) 6672 AND (1) 6610 IN FLX16



1 EXISTING EQUIPMENT PLAN
SCALE: 0' 1' 2' 4' 8'



2 FINAL EQUIPMENT PLAN
SCALE: 0' 1' 2' 4' 8'



USID: 24490
FA: 10071138
MONOE SOUTH
88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

PROJECT NO: 173228.001.01
CHECKED BY: TDG

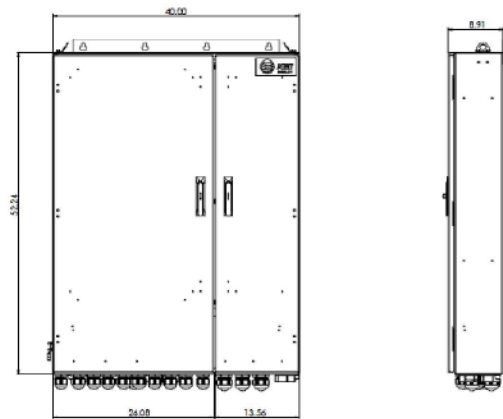
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1	3/3/25	YX	CONSTRUCTION

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SHEET NUMBER: C-2
REVISION: 1



Electrical	
Model Number	DC50-48-60-96-50F
DCD / ANT Number	DCD 54980
Number of Circuits Protected	50
Surge Protective Device (SPD) Type per UL 1449/9th Edition	Type 2 DC SPD
Surge Protection Class as per IEC 61643-11	Class I
Normal Operating DC Voltage (V)	48 V
Normal Charging Current (I) per UL 1449/9th Edition	20 mA/3000 µA
Maximum Surge Current (I) per IEC 61643-11	60 kA/5000 µA
Insulation Discharge Current (I) per IEC 61643-11	7.5 kA/10000 µA
Maximum Permitted DC Voltage (Maximum) per UL 1449/9th Edition	75 VDC
Voltage Protection Level (UL) per IEC 61643-11	<300V
Voltage Protection Rating (VPR)	300V
Suppression Technology	MOV
Connectivity (Type 2CA-SLA 1449/9th edition)	20 x 15 x 15 mm
Protection (Voltage)	Normal Mode: -48V to 75V/1V Common Mode: Return to Ground
Mechanical	
Power Terminal Connection (M8x10)	Inventory Cable: Compression Lug, Double hole, 10-15, 16 pitch, 4-4 AWG Outgoing Cable: Compression Lug, Double hole, 10-15, 16 pitch, 4-4 AWG Side Ground Cable: Compression Lug, Double hole, 10-15, 16 pitch, 4-4 AWG Ground Cable: Compression Lug, Double hole, 10-15, 16 pitch, 4-4 AWG Data Wire: Compression Lug, Single hole, 10-15, 16 pitch, 4-4 AWG
Four Cables Connection Method	Double LC Adapters
Operating Temperature (°C)	-40°C to +40°C
Storage Temperature (°C)	-40°C to +40°C
Enclosure Material	Aluminum
Enclosure Dimensions (L x W x H)	40" x 50.24" x 9"
Door Dimensions (H x W)	36.38" x 50.24" (3.47") 15.34" x 50.24" (3.47")
Height	156.16"
Mounting Pads	5-7" Center Pad (5-21" Center Pad), 1-1" Center Pad
Cable Search (UL 1449/9th)	Various cable types

1 RAYCAP - DC50-48-60-96-50F
SCALE: N.T.S.



VERTIV - R48-2000e3 eSURE RECTIFIER
WEIGHT: 2.49 LBS
SIZE (HxWxD): 1.61x3.33x9.94 IN.

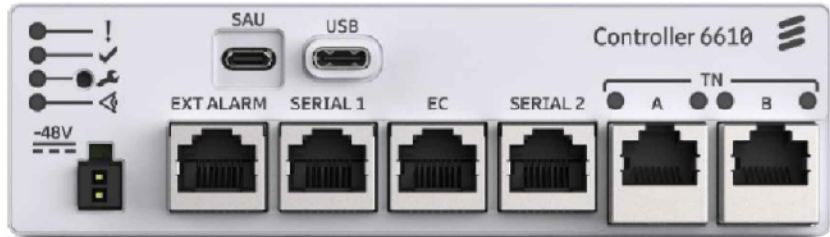
2 RECTIFIER DETAIL
SCALE: N.T.S.



VERTIV - C48/58 - 2000P3 eSURE CONVERTER
WEIGHT: 2.49 LBS
SIZE (HxWxD): 1.61x3.33x9.94 IN.

3 CONVERTER DETAILS
SCALE: N.T.S.

CONTROLLER 6610:
MANUFACTURER: ERICSSON
MODEL NO: CONTROLLER 6610
DIMENSIONS (HxWxD): 1.6"x5.5"x1.26"
WEIGHT: 0.28LBS



4 6610 SITE CONTROLLER
SCALE: N.T.S.



PRODUCT DETAILS	
Chemistry:	Sealed Lead Acid
Nominal Voltage:	12v
Nominal Capacity:	190.0Ah
Terminals:	M6
Dimensions (L x W x H):	22.10 x 4.90 x 12.40
Weight (pounds):	132.3

5 SBS190F 190AH BATTERY DETAIL
SCALE: N.T.S.

6 NOT USED
SCALE: N.T.S.



2 ASH STREET, SUITE #3000
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MONOE SOUTH
88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

PROJECT NO: 173228.001.01
CHECKED BY: TDG

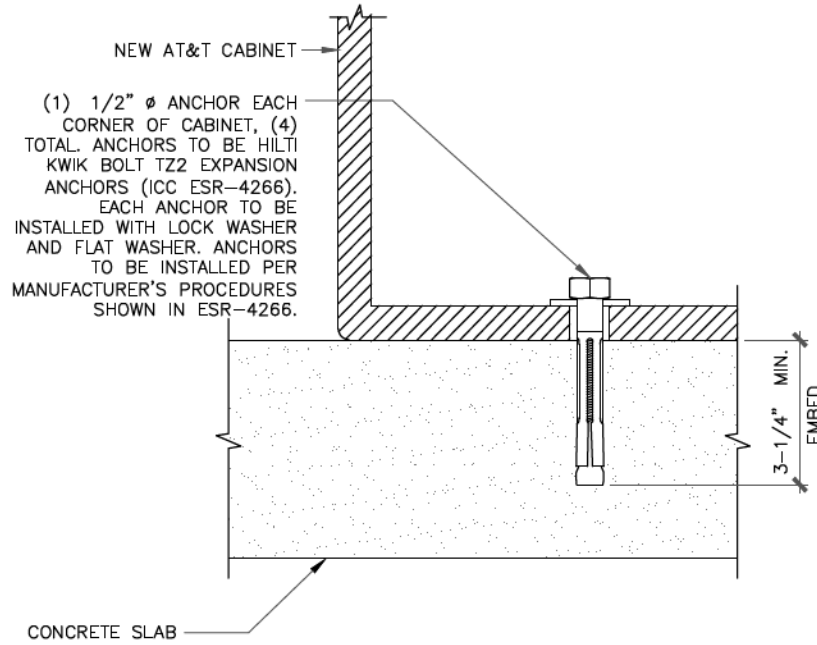
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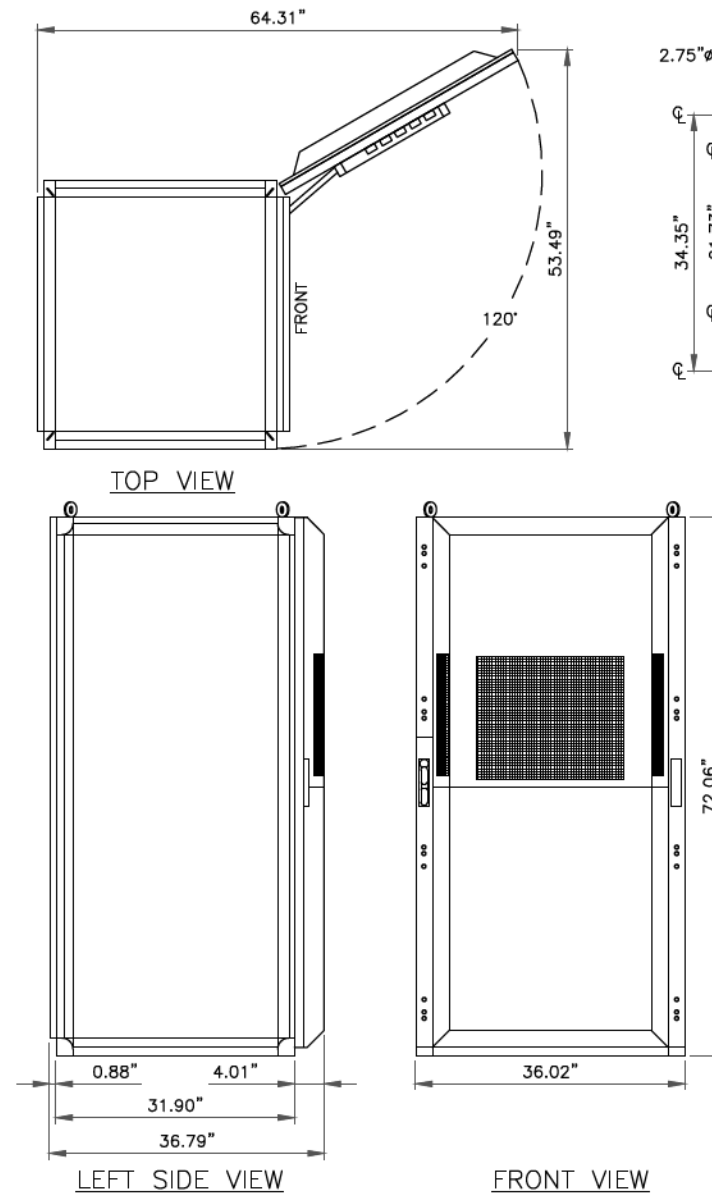
STATE OF CONNECTICUT
CHAD LITTLE
No. 23924
LICENSED PROFESSIONAL ENGINEER
3/3/25

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SHEET NUMBER: C-3
REVISION: 1

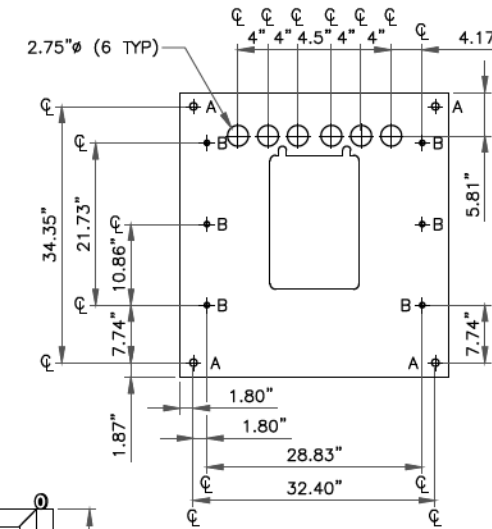


1 CABINET ANCHOR DETAIL
SCALE: N.T.S.



2 NOT USED
SCALE: N.T.S.

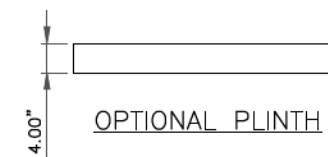
3 EMERSON NETXTEND BATTERY CABINET
SCALE: N.T.S.



MOUNTING TEMPLATE

TEMPLATE NOTES:

- A. (4) 1" DIAMETER HOLE POSITIONS "A" USED FOR MOUNTING CABINETS ON PLINTHS.
- B. (6) 3/4" DIAMETER HOLE POSITIONS "B" USED FOR MOUNTING CABINETS ON PAD WITH OR WITHOUT METAL MOUNTING TEMPLATES.



EMERSON NetXtend™
BATTERY CABINET

AT&T No. NEQ. 15918 -48V DC BATTERY CABINET
NEQ. 15919 24V DC BATTERY CABINET

TECHNICAL SPECIFICATIONS

EQUIPMENT	
BATTERY SHELVES	(5) SHELVES (+24V - 12 STRING MAX/-48V - 6 STRING MAX)
THERMAL SOLUTION	FREE AIR VENTED
GROUND BAR	10 POSITIONS
TERMINAL BLOCK	12-PAIR PHOENIX BLOCK
ENVIRONMENTAL	
NEMA ENCLOSURE	3R
WEIGHT	
NetXtend™ FLEX BATTERY CABINET	980lbs (W/O BATTERIES) 4010lbs (W/BATTERIES) TBD
PLINTH	
CLEARANCES	
FRONT	36"
LEFT AND RIGHT	0"
REAR	12"



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FA: 10071138

MONOE SOUTH

88 MAIN STREET
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EXISTING MONOPOLE

PROJECT NO: 173228.001.01
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SHEET NUMBER: C-3.1
REVISION: 1

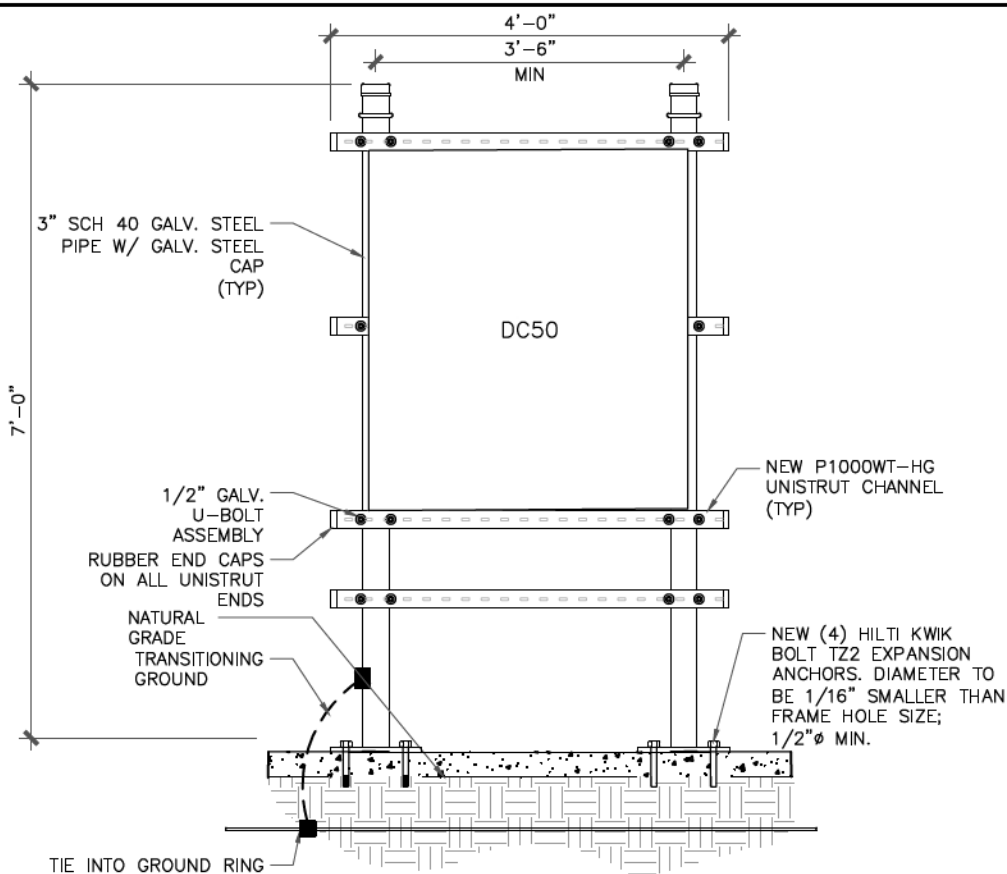
PROPOSED 5'-0" LONG
VERTICAL P1000 UNISTRUT
(MIN. OF 2) AS NEEDED TO
ATTACH PROPOSED DC50 TO
NEW UNISTRUT ON NEW
H-FRAME

PROPOSED HORIZONTAL
UNISTRUT ON NEW H-FRAME
(TYP.)

DC50 INSTALLED ON
PROPOSED UNISTRUT

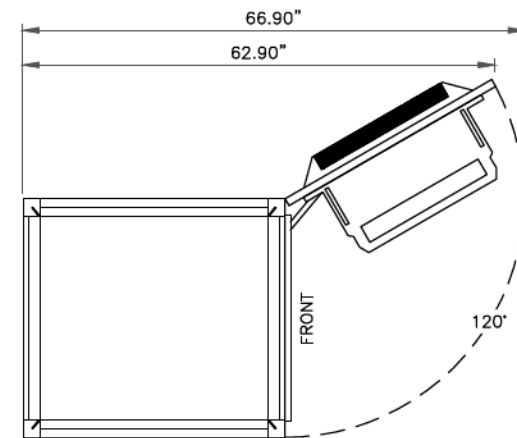
1 DC50 MOUNTING DETAIL

SCALE: N.T.S.

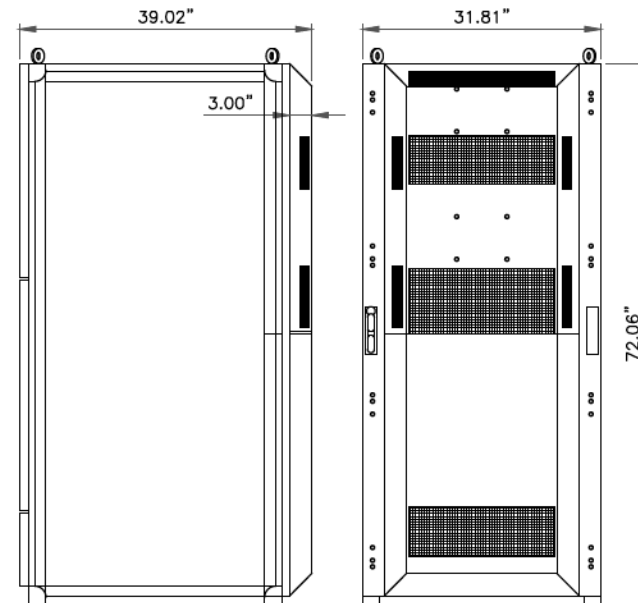


2 UTILITY FRAME ELEVATION

SCALE: N.T.S.



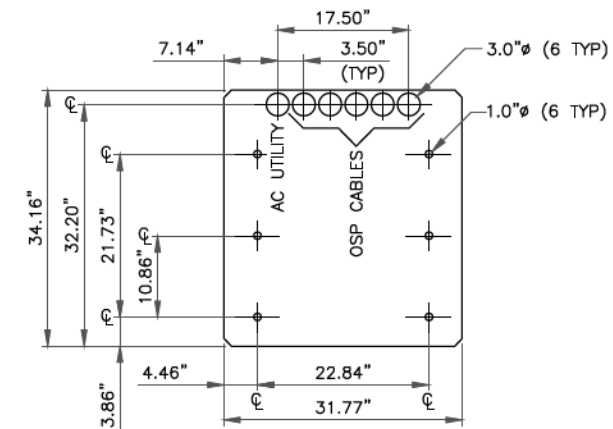
TOP VIEW



LEFT SIDE VIEW

FRONT VIEW

OPTIONAL PLINTH



MOUNTING TEMPLATE

AT&T No. NEQ.15917
TECHNICAL SPECIFICATIONS

DC POWER SYSTEM FEATURES

NOMINAL SYSTEM VOLTAGE -48VDC TO -58VDC
MICROPROCESSOR (ACU+)

RATED OUTPUT CAPACITY - MAXIMUM CONFIGURATION
SYSTEM 400 AMPS AT -48VDC
300 AMPS AT -58VDC
2000 WATTS (41.7A)

RECTIFIER 2000 WATTS (50A), -48VDC TO -58VDC
CONVERTER WIRED FOR (14) -48V AND (4) -58V BULLET POSITIONS
DISTRIBUTION PANEL (TOP) (14) -48V AND (4) -58V BULLET POSITIONS
(BOTTOM)

ENVIRONMENTAL
OPERATING TEMPERATURE -40°F TO 115°F (-40°C TO 46°C) CONTINUOUS OPERATION
HUMIDITY 0% TO 95% RELATIVE HUMIDITY, NON-CONDENSING
NEMA ENCLOSURE 3R

THERMAL SOLUTIONS
POWER CHAMBER 2500 WATT DOOR-MOUNTED HEAT EXCHANGER,
2RU AVAILABLE SPACE FOR SURGE PROTECTION
FAN COOLED, FRESH AIR VENTILATION,
BATTERY CHAMBER HOLDS UP TO (3) BATTERY STRINGS

EQUIPMENT
GROUND BAR 10 POSITIONS
TERMINAL BLOCK 12-POSITION PHOENIX ALARM BLOCK,
32-POSITION PHOENIX ALARM BUNCHING BLOCK

SAFETY
DC POWER SYSTEM UL 1801 LISTED (US & CANADA), NEBS LEVEL 3
ENCLOSURE GR-487, UL 60950, AND SEISMIC ZONE 4 COMPLIANT

WEIGHT
OUTDOOR NetSure™ 512 816lbs (W/O BATTERIES)
2300lbs (W/GNB BATTERIES)
TBD

PLINTH
CLEARANCES
FRONT 36"
LEFT AND RIGHT 0"
REAR 12"

3 EMERSON OUTDOOR NETSURE 512 DC POWER SYSTEM

SCALE: N.T.S.



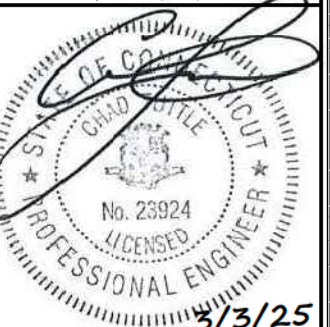
2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 24490
FA: 10071138
MONOE SOUTH
88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

PROJECT NO: 173228.001.01
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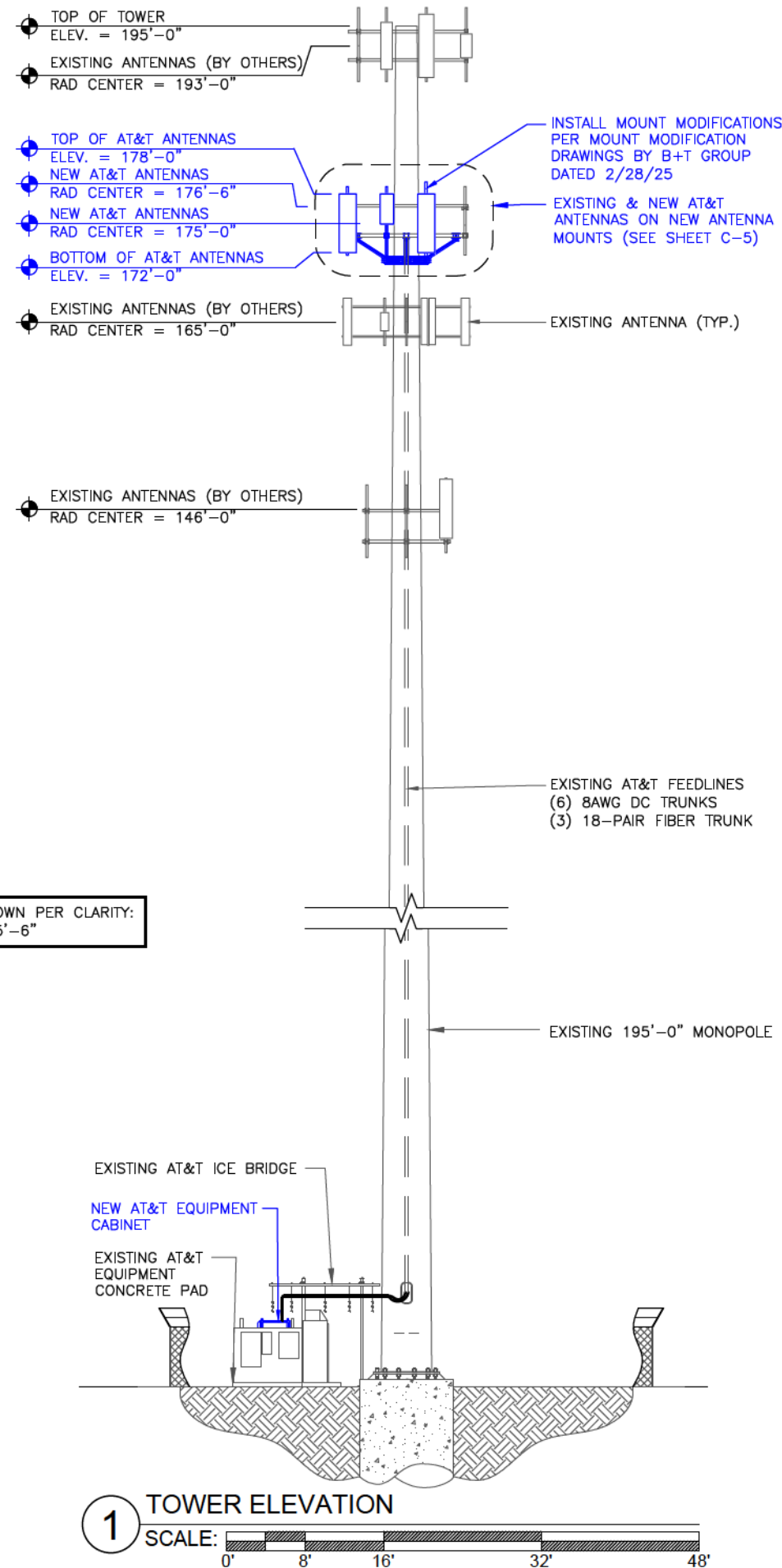
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PEC.0002304
Expires 4/11/25



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SHEET NUMBER: C-3.2
REVISION: 1

173228.001.01.0001_10071138_CT5189.dwg - Sheet: C-4 - User: tim.grove - Mar 03, 2025 - 11:13am

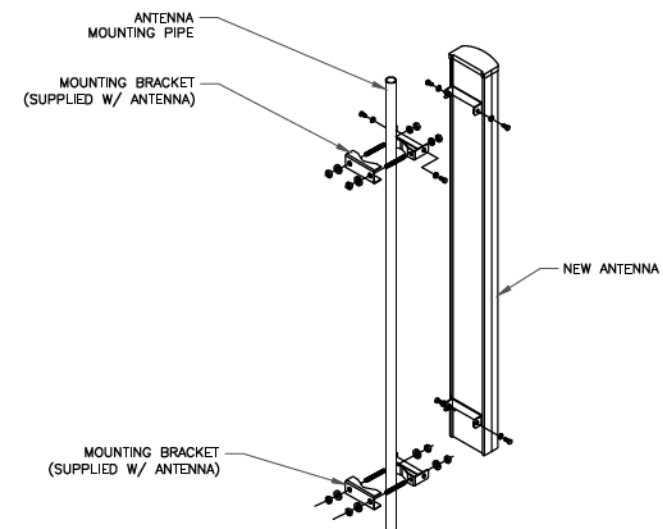


NOTE:
THESE DRAWINGS ARE NOT INTENDED
TO REFLECT THE STRUCTURAL
INTEGRITY OF THE TOWER. THE
PROPOSED ANTENNAS AND
TRANSMISSION LINES SHOWN ARE
REPRESENTATIVE IN NATURE AND DO
NOT REFLECT THE ACTUAL
CONFIGURATIONS REQUIRED. THE
CONTRACTOR SHALL REFER TO THE
STRUCTURAL ANALYSIS OF THIS TOWER
SITE FOR THE APPROVED LOCATION
AND CONFIGURATION OF ALL ANTENNAS
AND TRANSMISSION LINES. ALL
ANTENNAS MUST BE MOUNTED AND
THE TRANSMISSION LINES CONFIGURED
IN STRICT ACCORDANCE WITH THE
STRUCTURAL ANALYSIS.

EXISTING MOUNT TO BE MODIFIED PER
MOUNT ANALYSIS BY B+T GROUP
DATED 2/26/25.

2 NOT USED
SCALE: N.T.S.

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



3 ANTENNA MOUNTING DETAIL
SCALE: N.T.S.



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MONOE SOUTH

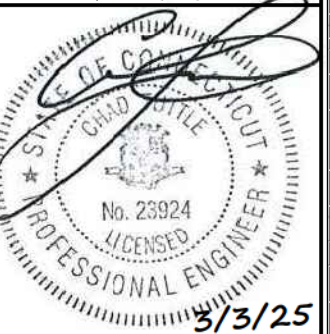
88 MAIN STREET
MONROE, CT 06468

EXISTING MONOPOLE

PROJECT NO: 173228.001.01
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SHEET NUMBER: C-4
REVISION: 1

TOWER SCOPE OF WORK

MONOPOLE, EQUIPMENT CONCRETE PAD
EXISTING ANT AZ - A 30, 60 B 150, 160 C 270, 300
PROPOSED ANT AZ - A 30 B 150 C 270

TOWER TOP SOW:

1. ROTATE EXISTING MOUNT TO MATCH AZIMUTHS 30°/150°/270°.
2. REMOVE ALL EXISTING ANTENNAS
3. REMOVE THE RRUS32 B2 RADIOS
4. REMOVE THE RRUS-11 B12 RADIOS
5. REMOVE THE 4478 B5 RADIOS
6. REMOVE THE 4426 B66 RADIOS
7. REMOVE THE 4415 B2/B25 RADIOS
8. RELOCATE THE RRUs 32 B30 RADIOS TO THE NEWLY INSTALLED MAST PIPES ON THE STANDOFF ARMS.
9. INSTALL MOUNT MODIFICATIONS PER MOUNT MODIFICATION DRAWINGS BY B+T GROUP DATED 2/28/25.

10. INSTALL (3) TPA65R-BU6DV2B IN POS A2/B2/C2 ON NEW 10' MAST PIPE
11. INSTALL (3) AIR 6472 B77G B77M ANTENNAS IN POS A3/B3/C3 ON NEW 2.5" STD. x 10' MAST PIPE
12. INSTALL (3) TPA65R-BU6DV2B IN POS A4/B4/C4 ON NEW 10' MAST PIPE
13. INSTALL (6) TOTAL NEW 2" STD. x 10'-6" EQUIPMENT PIPE ON THE STANDOFF OF EACH SECTOR TO SUPPORT PROPOSED EQUIPMENT. (2) PER SECTOR.
14. INSTALL (3) E/// 4494 B14/B29 RADIOS ON THE NEW 10'-6" PIPE ON A/B/C V-FRAME ARM ON NEW BACK-TO-BACK BRACKET.
15. INSTALL (3) E/// 4490 B5/B12 RADIOS ON THE NEW 10'-6" PIPE ON A/B/C V-FRAME ARM ON NEW BACK-TO-BACK BRACKET.
16. INSTALL (3) E/// 4890 B25/B66 RADIOS ON THE NEW 10'-6" PIPE ON A/B/C V-FRAME ARM ON NEW BACK-TO-BACK BRACKET.



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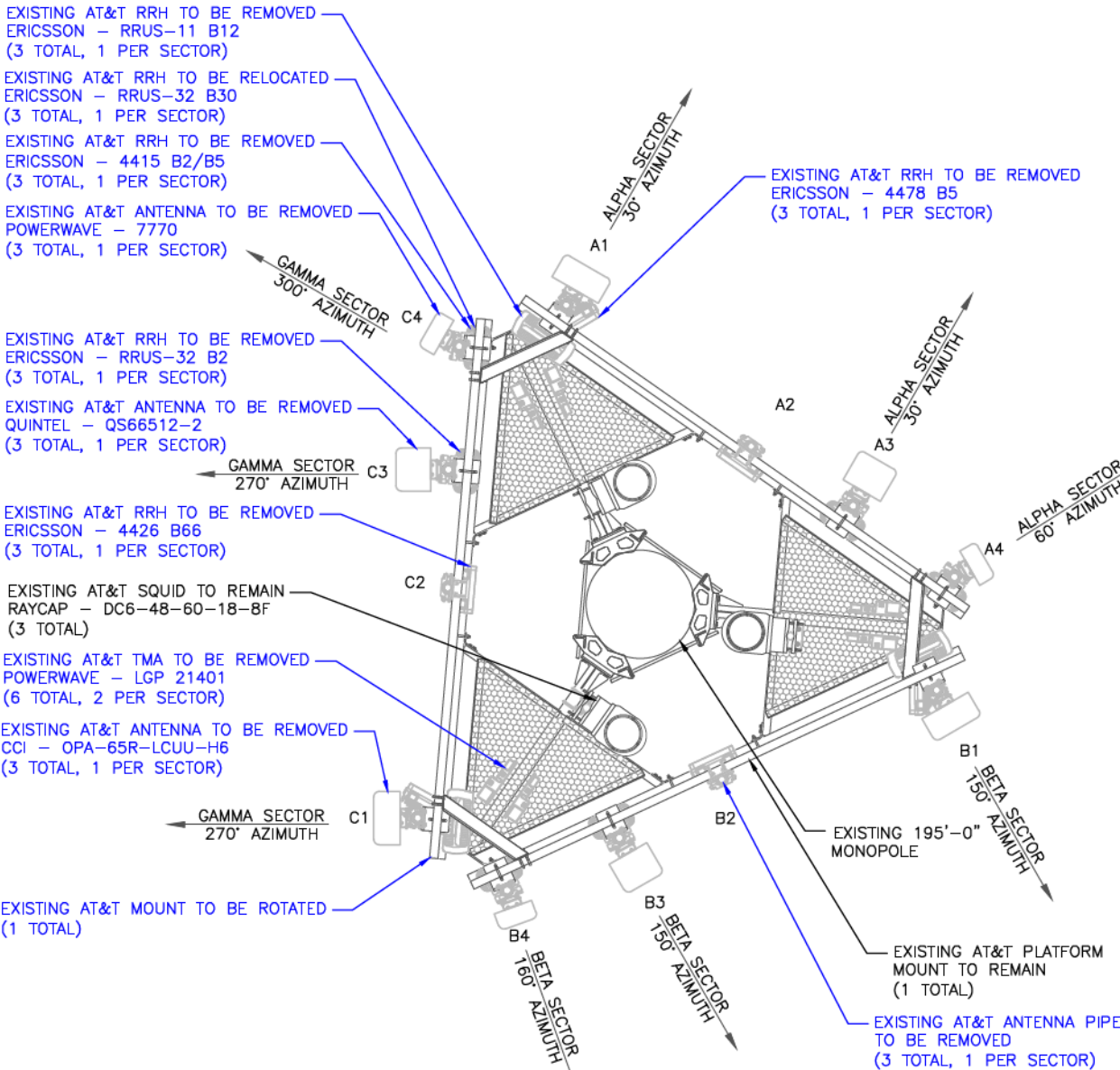
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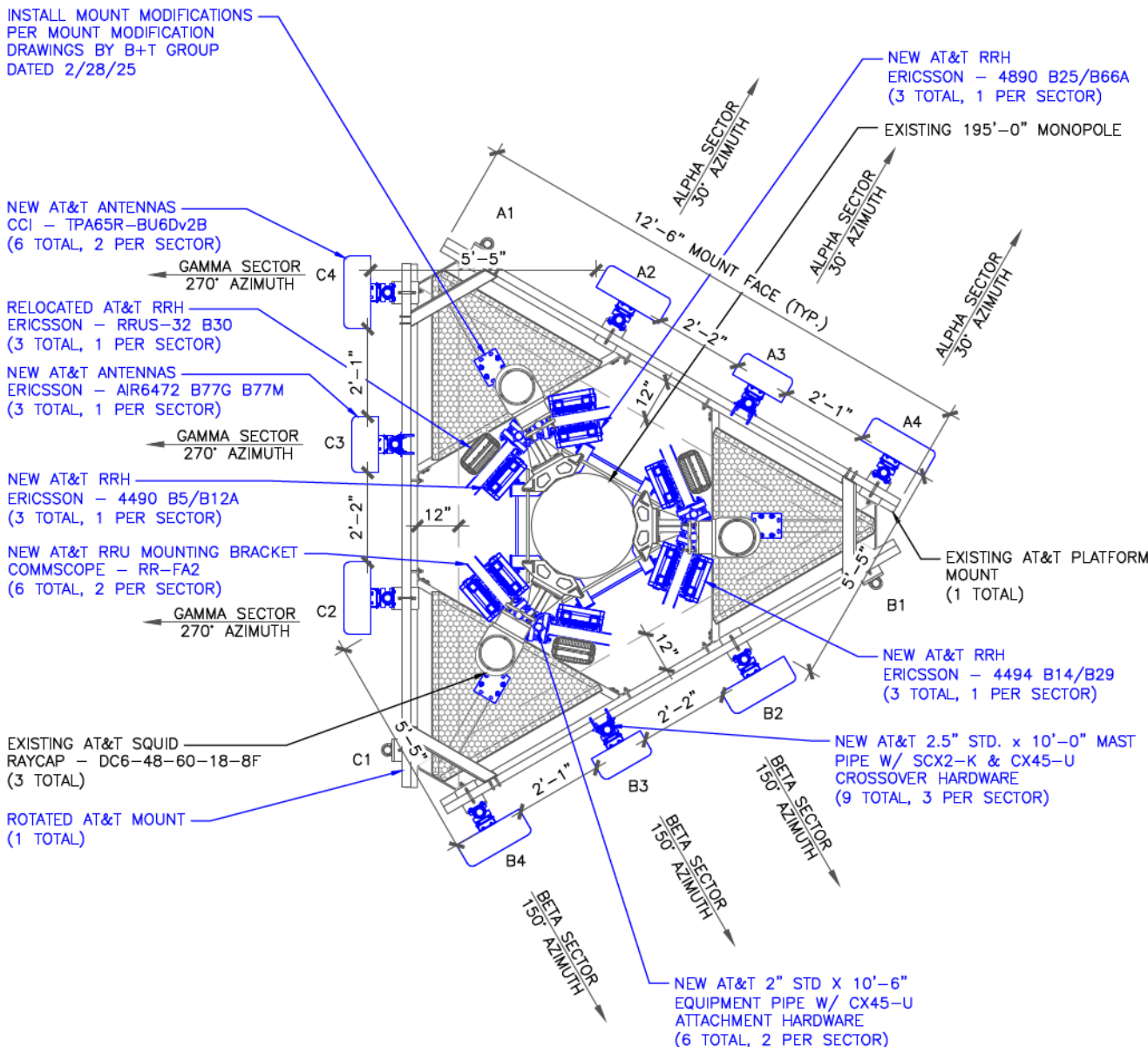


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SHEET NUMBER: C-5
REVISION: 1



1 EXISTING ANTENNA PLAN
SCALE: 0' 1' 2' 4' 10'



2 FINAL ANTENNA PLAN
SCALE: 0' 1' 2' 4' 10'

173228.001.01.0001_10071138_CT5189.dwg - Sheet: C-6 - User: tim.grove - Mar 03, 2025 - 11:13am

SECTOR	ANTENNA POSITION	BANDS	ANTENNA VENDOR	ANTENNA MODEL	AZIMUTH	RAD CENTER	RRH (QTY) MODEL	SURGE PROTECTION W/ (QTY) FIBER (QTY) DC	FEEDER LENGTH
ALPHA	A1	—	—	—	—	—	—	(1) DC6-48-60-18-8F (1) 18 PAIR FIBER (2) 8AWG DC	220'-0"
	A2	LTE 700/PCS/AWS	CCI	TPA65R-BU6Dv2B (71.2"x20.7"x7.7")	30°	175'-0"	(1) 4494 B14/B29 (17.48"x15.12"x5.63") (1) 4890 B25/B66A (20.6"x15.6"x7")		
	A3	CBAND/DoD	ERICSSON	AIR6472 B77G B77M (36.42"x16.14"x7.48")	30°	176'-6"	INTEGRATED WITHIN		
	A4	LTE 700/850/WCS	CCI	TPA65R-BU6Dv2B (71.2"x20.7"x7.7")	30°	175'-0"	(1) 4490 B5/B12A (20.6"x15.6"x7.0") (1) RRUS-32 B30 (27.20"x12.05"x7.00")		
BETA	B1	—	—	—	—	—	—	(1) DC6-48-60-18-8F (1) 18 PAIR FIBER (2) 8AWG DC	220'-0"
	B2	LTE 700/PCS/AWS	CCI	TPA65R-BU6Dv2B (71.2"x20.7"x7.7")	150°	175'-0"	(1) 4494 B14/B29 (17.48"x15.12"x5.63") (1) 4890 B25/B66A (20.6"x15.6"x7")		
	B3	CBAND/DoD	ERICSSON	AIR6472 B77G B77M (36.42"x16.14"x7.48")	150°	176'-6"	INTEGRATED WITHIN		
	B4	LTE 700/850/WCS	CCI	TPA65R-BU6Dv2B (71.2"x20.7"x7.7")	150°	175'-0"	(1) 4490 B5/B12A (20.6"x15.6"x7.0") (1) RRUS-32 B30 (27.20"x12.05"x7.00")		
GAMMA	C1	—	—	—	—	—	—	(1) DC6-48-60-18-8F (1) 18 PAIR FIBER (2) 8AWG DC	220'-0"
	C2	LTE 700/PCS/AWS	CCI	TPA65R-BU6Dv2B (71.2"x20.7"x7.7")	270°	175'-0"	(1) 4494 B14/B29 (17.48"x15.12"x5.63") (1) 4890 B25/B66A (20.6"x15.6"x7")		
	C3	CBAND/DoD	ERICSSON	AIR6472 B77G B77M (36.42"x16.14"x7.48")	270°	176'-6"	INTEGRATED WITHIN		
	C4	LTE 700/850/WCS	CCI	TPA65R-BU6Dv2B (71.2"x20.7"x7.7")	270°	175'-0"	(1) 4490 B5/B12A (20.6"x15.6"x7.0") (1) RRUS-32 B30 (27.20"x12.05"x7.00")		

NOTES:

1. VERIFY ANTENNA DIMENSIONS WITH MANUFACTURER.
2. VERIFY FINAL ANTENNA MODEL WITH CURRENT VERSION OF THE AT&T RFDS.
3. ALL FEEDLINE LENGTHS SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION.
4. BLUE DENOTES NEW EQUIPMENT.

UNUSED FEEDLINES		
(QTY) TYPE	SIZE	LENGTH
—	—	—

1 ANTENNA & CABLE SCHEDULE
SCALE: N.T.S.



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 24490
FA: 10071138
MONOE SOUTH
88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

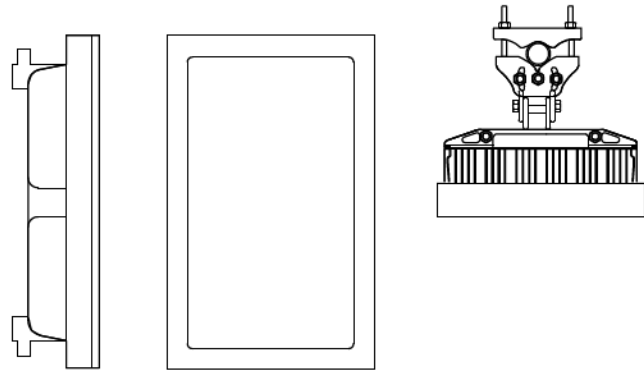
PROJECT NO: 173228.001.01
CHECKED BY: TDG

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	10/16/24	AB	PRELIMINARY REVIEW
0	11/22/24	BKR	CONSTRUCTION
1	3/3/25	YX	CONSTRUCTION

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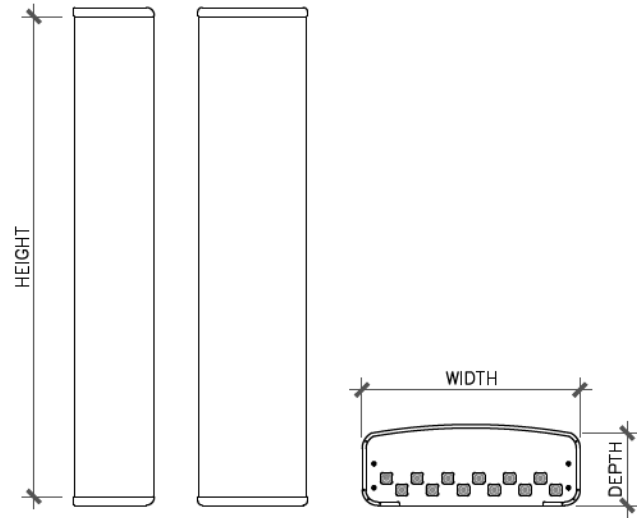
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SHEET NUMBER: C-6
REVISION: 1



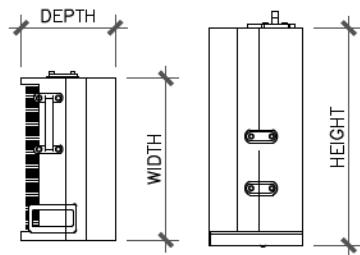
ERICSSON – AIR6472 B77G B77M
WEIGHT: 92.61 LBS
SIZE (HxWxD): 36.42x16.14x7.48 IN.

1 ANTENNA DETAIL
SCALE: N.T.S.



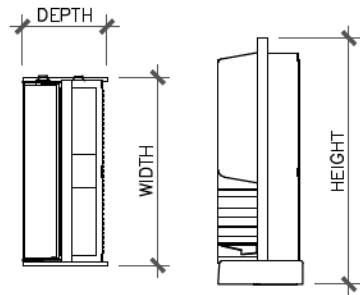
CCI ANTENNAS – TPA65R-BU6Dv2B
WEIGHT: 68.3 LBS
SIZE (HxWxD): 71.2X20.7X7.7 IN.

2 ANTENNA DETAIL
SCALE: N.T.S.



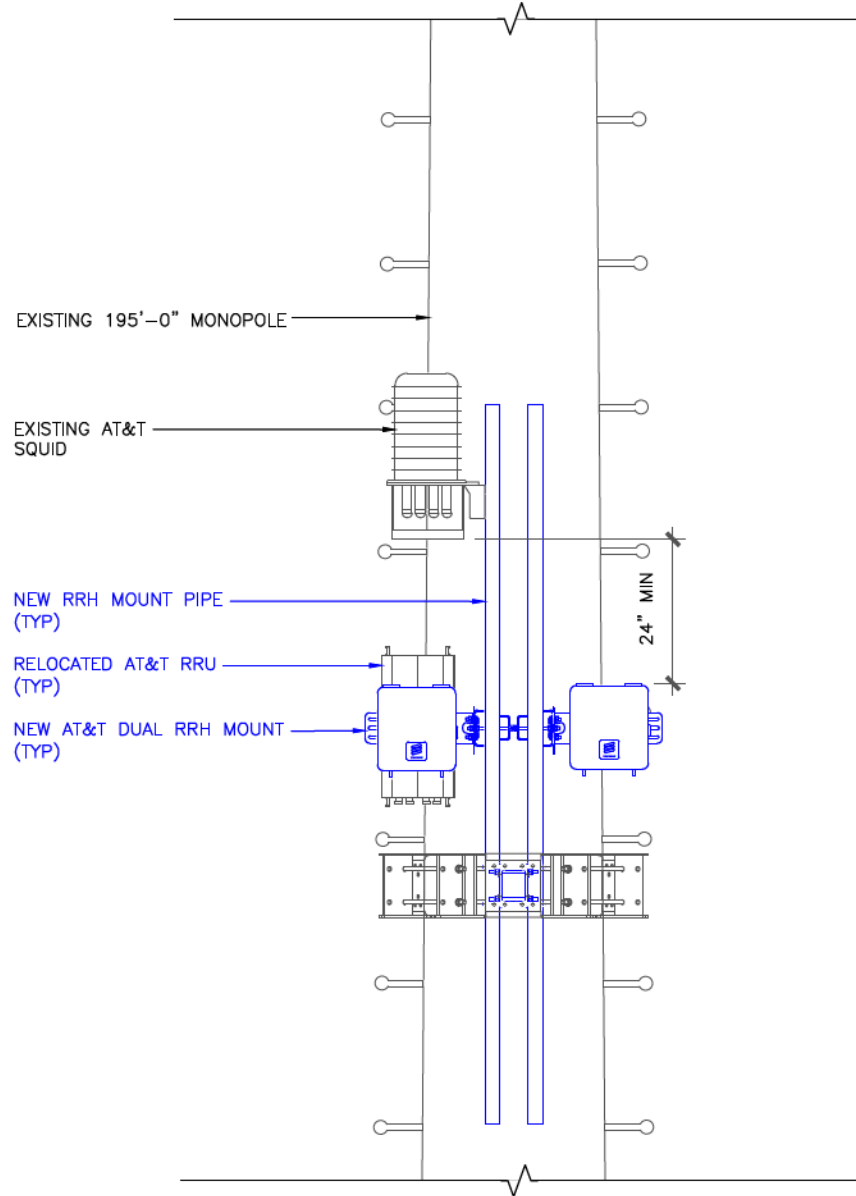
ERICSSON – RADIO 4494 B14/B29
WEIGHT: 57.33 LBS
SIZE (HxWxD): 17.48x15.12x5.63 IN

3 RRH DETAIL
SCALE: N.T.S.



ERICSSON – RADIO 4890 B25/B66A
WEIGHT: 67.24 LBS
SIZE (HxWxD): 20.6x15.6x7.0 IN.

4 RRH DETAIL
SCALE: N.T.S.



5 VERTICAL RRH & SQUID PLACEMENT DETAIL
SCALE: N.T.S.



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 24490
FA: 10071138
MONOE SOUTH
88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

PROJECT NO: 173228.001.01
CHECKED BY: TDG

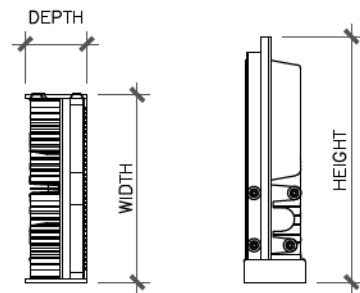
ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	10/16/24	AB	PRELIMINARY REVIEW
0	11/22/24	BKR	CONSTRUCTION
1	3/3/25	YX	CONSTRUCTION

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Expires 4/11/25

3/3/25

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SHEET NUMBER: C-7
REVISION: 1



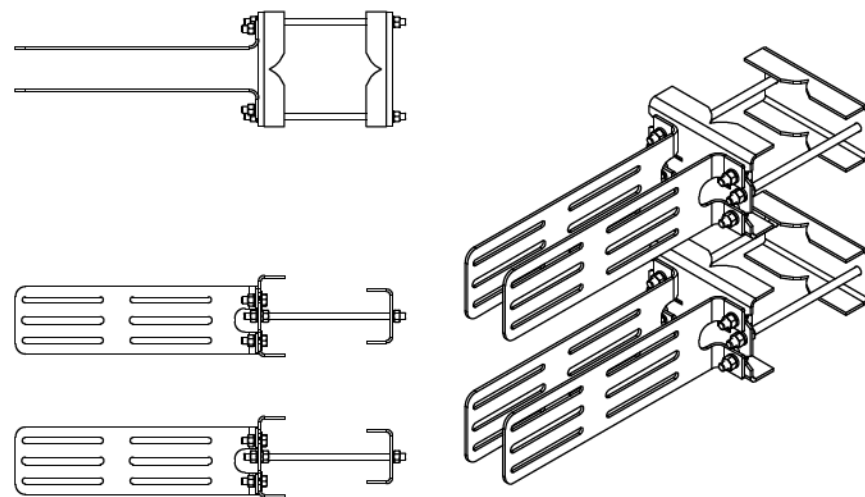
ERICSSON – RADIO 4490 B5/B12A
WEIGHT: 65.0 LBS
SIZE (HxWxD): 20.6x15.6x7.0 IN.

1 RRH DETAIL
SCALE: N.T.S.

2 NOT USED
SCALE: N.T.S.

3 NOT USED
SCALE: N.T.S.

- MOUNTING NOTES:**
- REFER TO PRODUCT SPECS FOR BOLT SIZE & PIPE DIAMETER TOLERANCES.
 - THE PART NO. RR-FA2 (OR APPROVED EQUAL) IS REQUIRED FOR (2) RRHs.

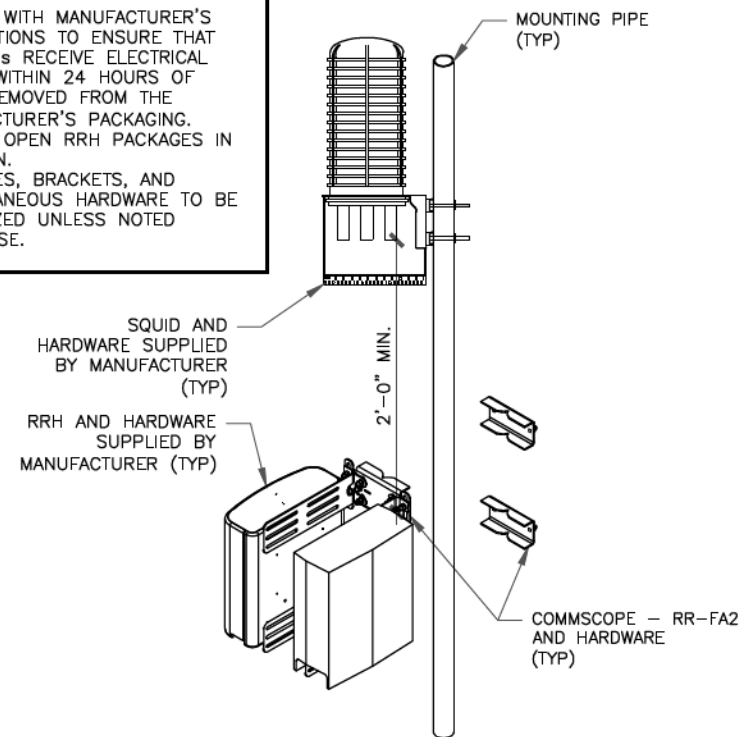


COMMSCOPE – RR-FA2
FAST ACCESS DUAL RRH MOUNT

5 DUAL RRH MOUNT BRACKET DETAIL
SCALE: N.T.S.

INSTALLER NOTES:

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



6 DUAL RRH AND SQUID MOUNTING DETAIL
SCALE: N.T.S.



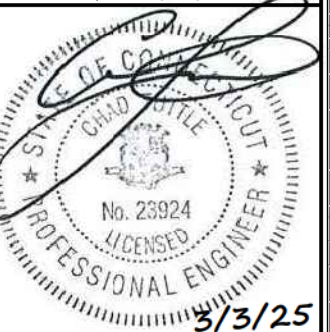
2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 24490
FA: 10071138
MONOE SOUTH
88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

PROJECT NO: 173228.001.01
CHECKED BY: TDG

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	10/16/24	AB	PRELIMINARY REVIEW
0	11/22/24	BKR	CONSTRUCTION
1	3/3/25	YX	CONSTRUCTION

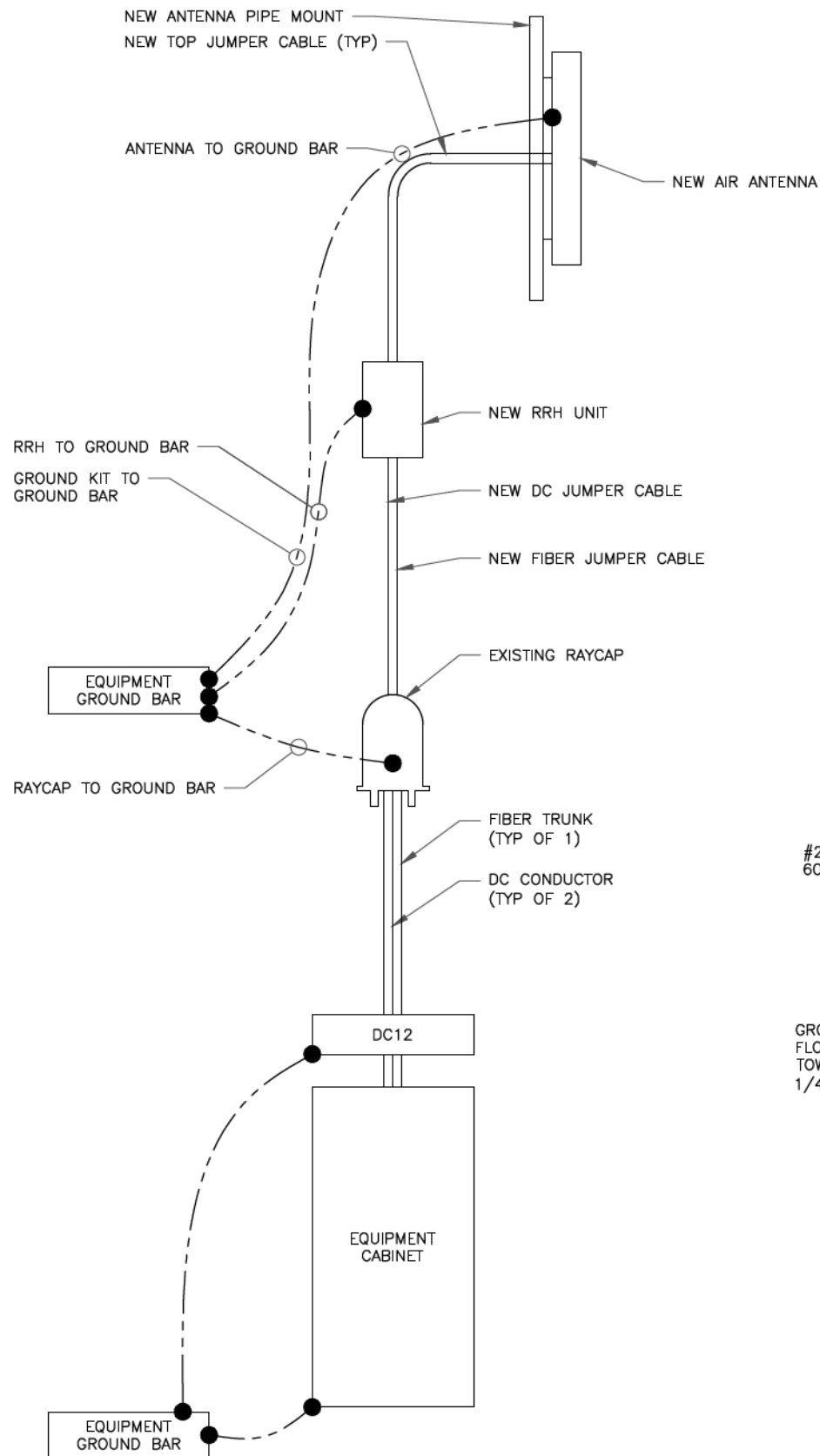
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PEC.0002304
Expires 4/11/25



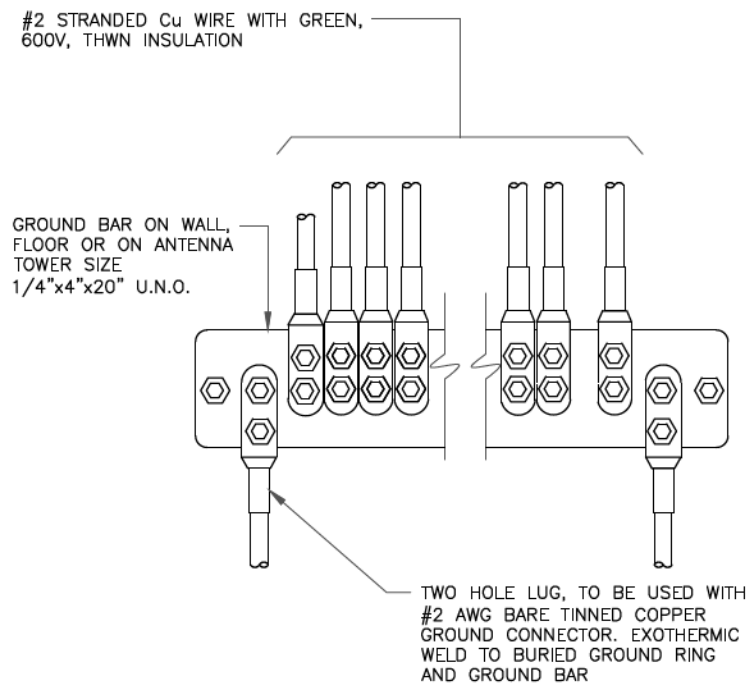
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SHEET NUMBER: C-7.1
REVISION: 1

173228.001.01.0001_10071138_CT5189.dwg - SheetG-1 - User: tim.grove - Mar 03, 2025 - 11:13am



1 GROUNDING SCHEMATIC
SCALE: N.T.S.



2 INSTALLATION OF GROUND WIRE TO GROUND BAR
SCALE: N.T.S.



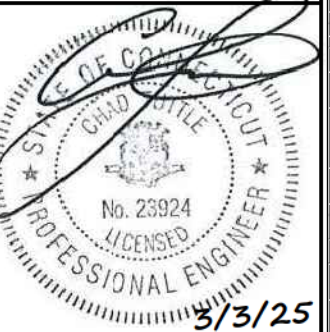
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CONSHOHOCKEN, PA 19428

USID: 24490
FA: 10071138
MONOE SOUTH
88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

PROJECT NO: 173228.001.01
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REV	DATE	DRWN	DESCRIPTION
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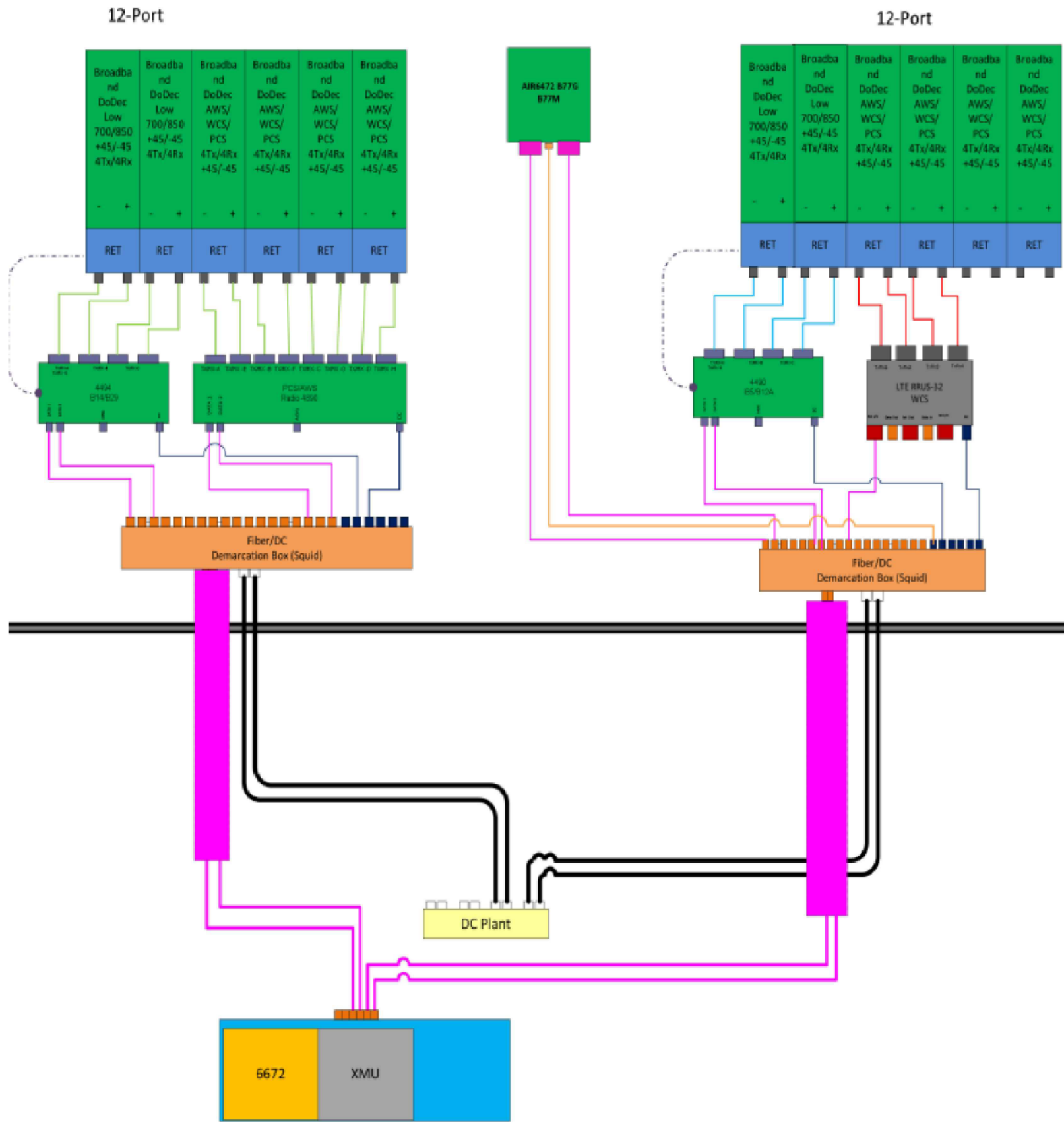
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SHEET NUMBER: G-1
REVISION: 1

173228.001.01.0001_10071138_CT5189.dwg - Sheet:RF-1 - User: tim.grove - Mar 03, 2025 - 11:13am



1 PLUMBING DIAGRAM (ALL SECTORS)
SCALE: N.T.S.



2 ASH STREET, SUITE #3000
CONSHOHOCKEN, PA 19428

USID: 24490
FA: 10071138
MONOE SOUTH
88 MAIN STREET
MONROE, CT 06468
EXISTING MONOPOLE

PROJECT NO: 173228.001.01

CHECKED BY: TDG

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	10/16/24	AB	PRELIMINARY REVIEW
0	11/22/24	BKR	CONSTRUCTION
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Expires 4/11/25



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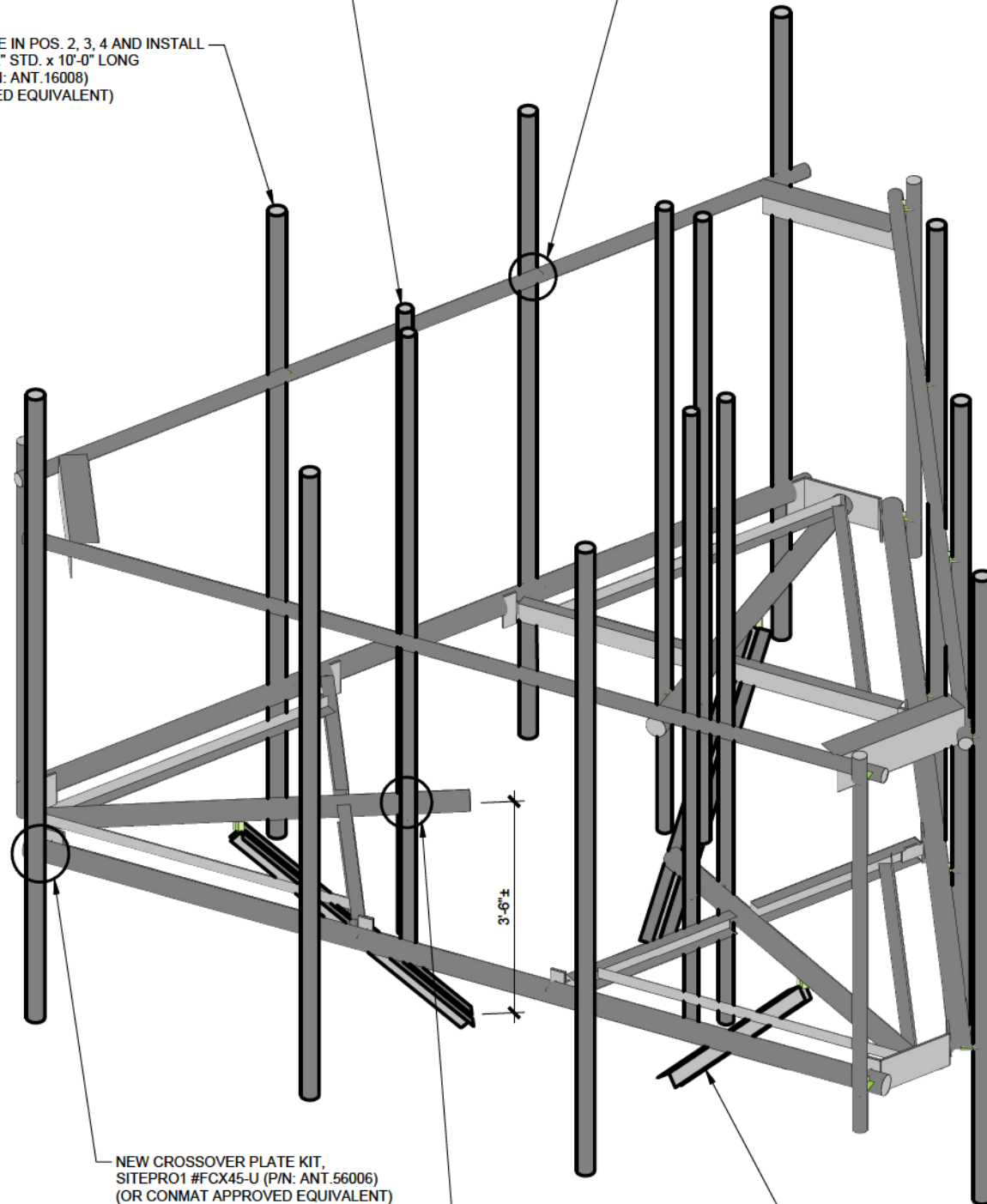
SHEET NUMBER: REVISION:

RF-1 1

NEW EQUIPMENT PIPE 2.375"x0.12" x 10'-6" LONG
COMMSCOPE #MT-537 (P/N: ANT.16531)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 6 PLACES)

REMOVE EXISTING PIPE IN POS. 2, 3, 4 AND INSTALL
NEW MOUNT PIPE 2-1/2" STD. x 10'-0" LONG
SITEPRO1 #P30120 (P/N: ANT.16008)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 9 PLACES)

NEW CROSSOVER PLATE KIT,
SITEPRO1 #SCX2-K (P/N: CEQ.53317)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 9 PLACES)
RE: S4



NEW CROSSOVER PLATE KIT,
SITEPRO1 #FCX45-U (P/N: ANT.56006)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 9 PLACES)
RE: S3

NEW CROSSOVER PLATE KIT,
SITEPRO1 #FCX45-U (P/N: ANT.56006)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 6 PLACES)
RE: S3

NEW PLATFORM REINFORCEMENT KIT,
SITEPRO1 #PRK-1245 (P/N: ANT.16462)
(OR CONMAT APPROVED EQUIVALENT)
RE: S2

MODIFICATIONS BASED ON THE FAILING
STRUCTURAL ANALYSIS FROM B+T GROUP
DATED 12/03/24 AND ACCOMPANIED BY
ANALYSIS FROM B+T GROUP DATED 02/26/25

GENERAL NOTES

- 1.1 CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE MOBILIZING ON THE SITE FOR INSTALLATION OF THE MOUNT MODIFICATION AND SHALL NOTIFY THE ENGINEER OF RECORD IF THE FIELD CONDITIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO MOBILIZING AT THE SITE IF THE MOUNT REINFORCEMENT SHOWN WILL NEED TO BE REVISED TO SATISFY FIELD CONDITIONS.
- 1.2 CONTRACTOR SHALL RELOCATE NON-ANTENNA EQUIPMENT ALONG THE EXISTING PIPE MOUNT THAT IT IS MOUNTED TO, TO ALLOW FOR INSTALLATION OF MOUNT REINFORCEMENT. ENGINEER OF RECORD WILL BE NOTIFIED IF NON-ANTENNA EQUIPMENT NEEDS TO BE RELOCATED TO ANY OTHER EXISTING MEMBERS TO ALLOW FOR INSTALLATION OF MOUNT MODIFICATION.
- 1.3 MODIFICATION SHALL BE COMPLETED PRIOR TO ADDING THE PROPOSED APPURTENANCES.
- 1.4 ALL WORK SHALL COMPLY WITH THE TIA-222-H STANDARD, ANSI/TIA-322 AND ANSI/ASSE A10.48, AS WELL AS ANY OTHER GOVERNING BUILDING CODES.
- 1.5 FIELD WORK WILL BE DONE AROUND EXISTING COAXIAL CABLE AND EQUIPMENT. ALL WORK SHALL BE DONE IN A MANNER SUCH THAT NO DAMAGE OCCURS TO THE EXISTING EQUIPMENT OR THE STRUCTURE.
- 1.6 A MINIMUM OF TWO COATS OF ZINGA COLD GALVANIZING COMPOUND (OR APPROVED EQUIVALENT) SHALL BE APPLIED TO ANY FIELD CUTS OR FIELD DRILLED HOLES.
- 1.7 THE USE OF A GAS TORCH OR WELDER WILL NOT BE PERMITTED ON THE TOWER WITHOUT THE CONSENT OF THE OWNER.
- 1.8 ALL FIELD CONNECTIONS SHALL BE MADE WITH A325N BOLTS, U.N.O.
- 1.9 IN LIEU OF TEMPORARY BRACING, CONTRACTOR MAY HAVE A STABILITY ANALYSIS PERFORMED BY AN ENGINEER LICENSED IN THE STATE THE TOWER IS LOCATED. THE ANALYSIS SHALL USE A MINIMUM WIND SPEED OF 45 mph (3-SEC) PER ANSI/TIA-322 and ANSI/ASSE A10.48
- 1.10 ALL CUTTING AND WELDING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH CCUSA POLICY "CUTTING AND WELDING PLAN" (DOC #ENG-PLN-10015) ON AN ONGOING BASIS THROUGHOUT THE ENTIRE LIFE OF THE PROJECT.
- 1.11 DIMENSIONS WITH "±" MUST BE WITHIN 3" OF THE INDICATED DIMENSION.

FABRICATION

- 2.1 ALL WORK SHALL BE DONE IN ACCORDANCE WITH A.I.S.C. "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- 2.2 STRUCTURAL STEEL SHALL MEET THE FOLLOWING SPECIFICATIONS:

	<u>YIELD</u>	<u>ASTM SPECS</u>
STEEL PIPE, U.N.O.	35ksi	A53 GR B
- 2.3 ALL NEW MATERIAL INCLUDING STRUCTURAL STEEL AND FASTENERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND A153.
- 2.4 WELDING SHALL MEET ANSI/AWS D1.1 STRUCTURAL WELDING CODE (LATEST REVISION). ELECTRODES SHALL BE E80 SERIES.
- 2.5 CONTRACTOR SHALL PROVIDE SHOP FABRICATION DRAWINGS TO B+T GROUP 5 DAYS PRIOR TO FABRICATION.



100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

MONOE SOUTH

88 MAIN STREET
MONROE, CT 06468
FAIRFIELD

EXISTING PLATFORM
AT 175'-00"

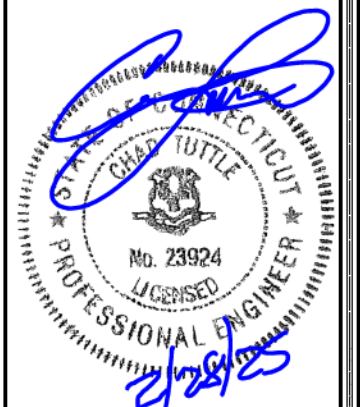
PROJECT NO: 173228.001.01.0003

CHECKED BY: LA

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	02/26/25	NGR	CONSTRUCTION

MTS ENGINEERING, P.L.L.C.
COA: PEC.0002304
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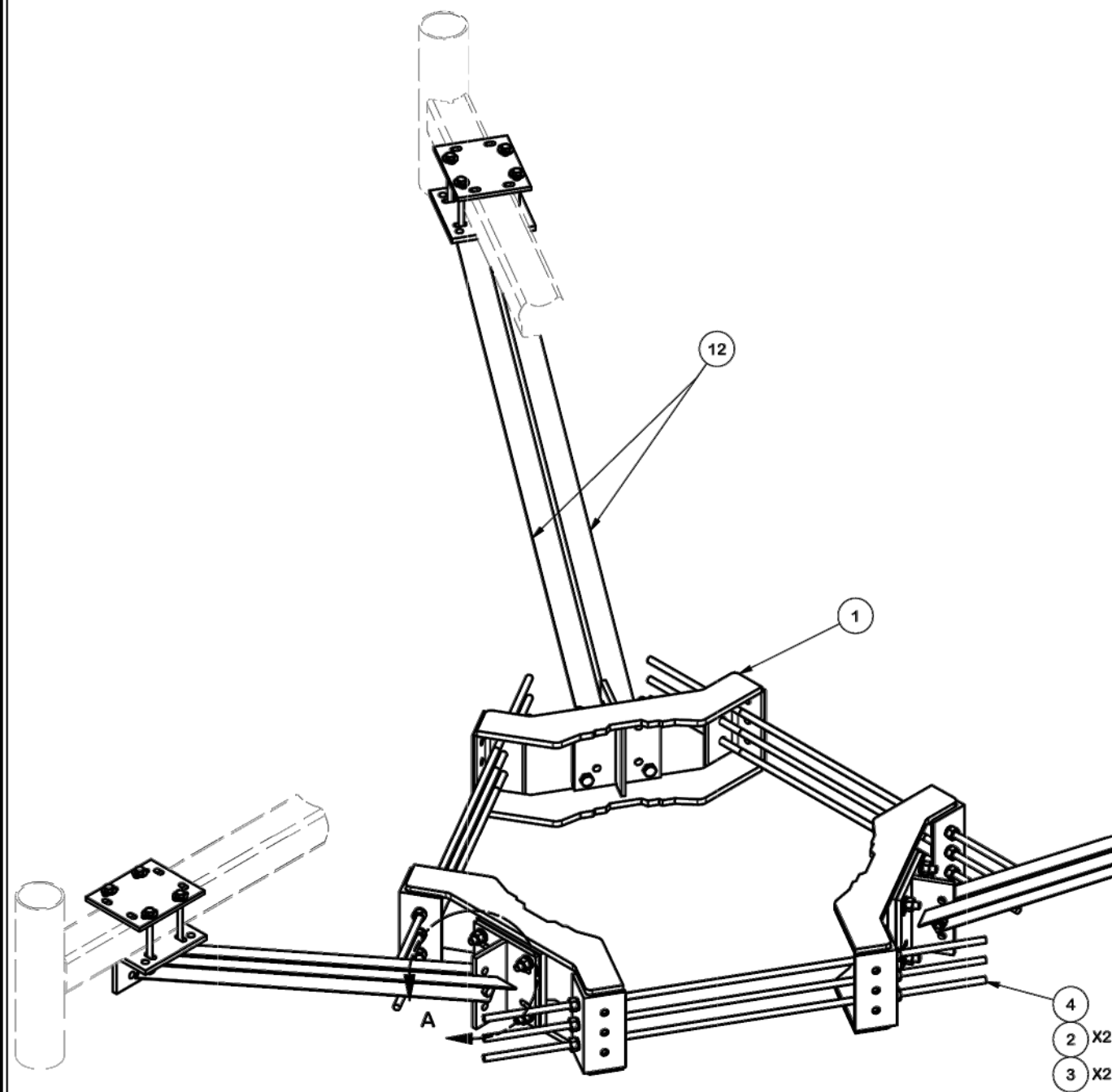
SHEET NUMBER: REVISION:

S1

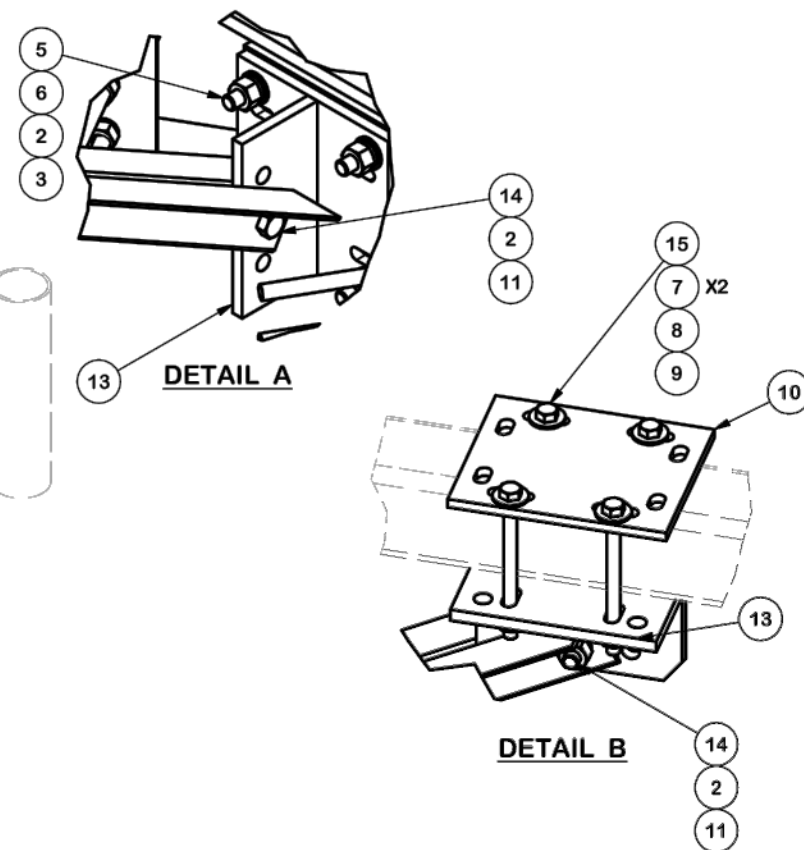
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1 MODIFIED PLATFORM
SCALE: N.T.S.

173228_001_01_0003_Mount MOD Drawing.dwg - User: SUMANTH - Feb 26, 2025 - 4:29pm



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	36	G58LW	5/8" HDG LOCKWASHER		0.03	0.94
3	30	A58NUT	5/8" HDG A325 HEX NUT		0.13	3.90
4	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)		0.55	4.94
4	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)		0.55	4.94
5	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	4.27
6	12	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.41
7	24	G12FW	1/2" HDG USS FLATWASHER		0.03	0.82
8	12	G12LW	1/2" HDG LOCKWASHER		0.01	0.17
9	12	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.86
10	3	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	18.06
11	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
12	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
13	6	X-253992	T-BRACKET FOR REINFORCEMENT KIT		13.55	81.27
14	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
15	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
TOTAL WT. #						464.91



TOLERANCE NOTES

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

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

DESCRIPTION

PLATFORM REINFORCEMENT
ON A 12" TO 45" POLE
4' 6" ANGLE

CPD NO.	DRAWN BY	ENG. APPROVAL
4488	CEK 4/10/2014	
CLASS	DRAWING USAGE	CHECKED BY
81	01	CUSTOMER
		BMC 4/10/2014



A valmont COMPANY

Engineering
Support Team:
1-888-753-7446

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

PART NO.	PRK-1245	PAGE
DWG. NO.	PRK-1245	1 OF 2



100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

MONOE SOUTH

88 MAIN STREET
MONROE, CT 06468
FAIRFIELD

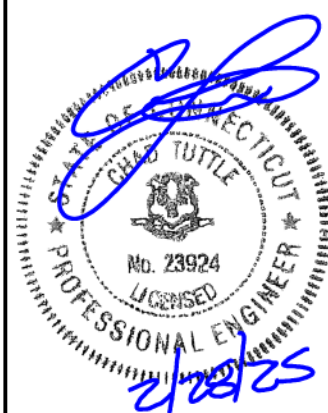
EXISTING PLATFORM
AT 175'-00"

PROJECT NO: 173228.001.01.0003

CHECKED BY: LA

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	02/26/25	NGR	CONSTRUCTION



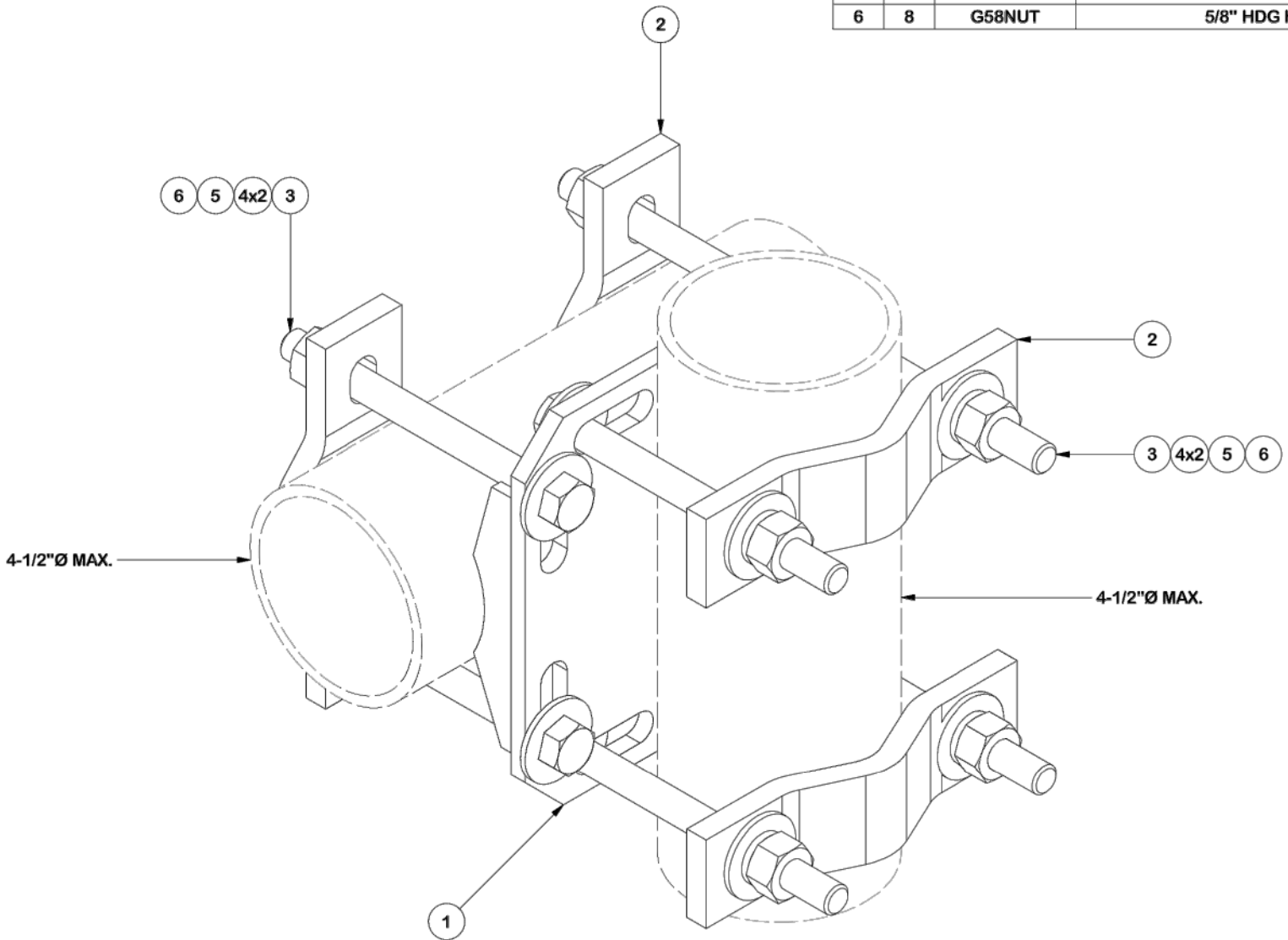
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SHEET NUMBER: REVISION:

S2

0

173228_001_01_0003_Mount MOD Drawing.dwg - Sheet-S3 - User: SUMANTH - Feb 26, 2025 - 4:29pm



FINISH:
HOT DIP GALVANIZED.

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SCX4-FR	4-1/2" FORTRESS CROSSOVER PLATE		8.15	8.15
2	4	DCP	1/2" THICK, 5-3/4" CTR TO CENTER CLAMP HALF	8 1/8 in	2.36	9.45
3	8	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	5.64
4	16	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.13
5	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
6	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
TOTAL WT. #						25.62



B+T GRP
MTS ENGINEERING, P.L.L.C.
1717 S. BOULDER, SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
towersupport@btgrp.com



AT&T

JACOBS

100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

MONOE SOUTH

88 MAIN STREET
MONROE, CT 06468
FAIRFIELD

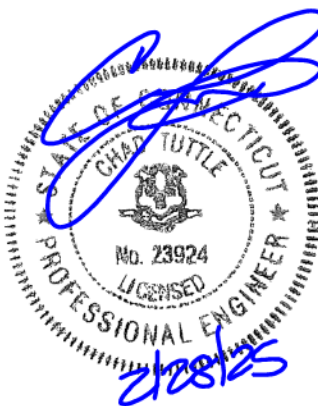
EXISTING PLATFORM
AT 175'-00"

PROJECT NO: 173228.001.01.0003

CHECKED BY: LA

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SHEET NUMBER:

S3

REVISION:

0

TOLERANCE NOTES

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

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

DESCRIPTION

HEAVY-DUTY UNIVERSAL CROSSOVER KIT

CPD NO.

DRAWN BY
CMFL 9/14/2021

ENG. APPROVAL

CLASS
87

SUB
02

DRAWING USAGE
CUSTOMER

CHECKED BY



A valmont COMPANY

Engineering
Support Team:
1-888-753-7446

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

PART NO.

FCX45-U

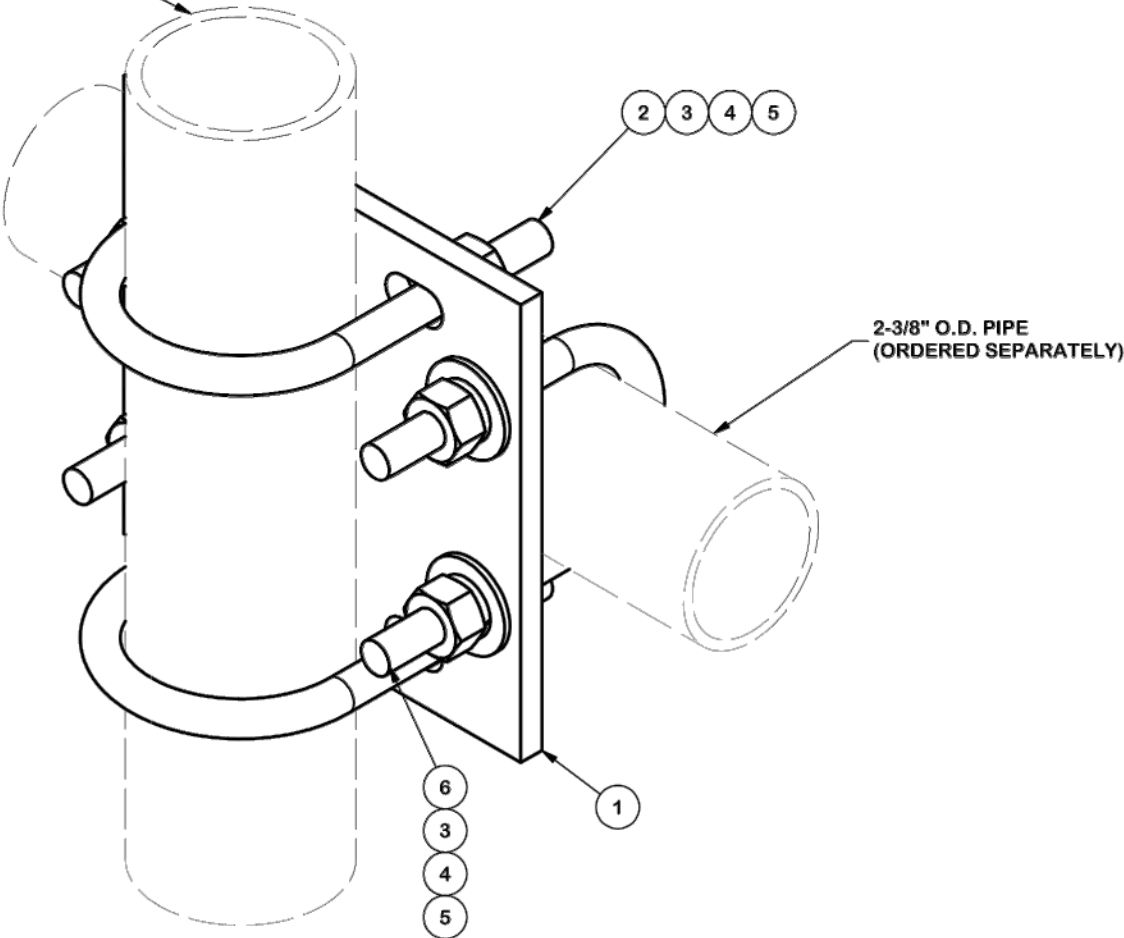
DWG. NO.

FCX45-U

PAGE
1 OF 1

173228_001_01_0003_Mount MOD Drawing.dwg -- User: SUMANTH -- Feb 26, 2025 -- 4:29pm

2-7/8" O.D. ANTENNA PIPE
(ORDERED SEPARATELY)



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX2	CROSSOVER PLATE	7 in	4.80	4.80
2	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.66	1.31
3	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
4	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
6	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	1.25
TOTAL WT. #						8.39



JACOBS

100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

MONOE SOUTH

88 MAIN STREET
MONROE, CT 06468
FAIRFIELD

EXISTING PLATFORM
AT 175'-00"

PROJECT NO: 173228.001.01.0003

CHECKED BY: LA

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	02/26/25	NGR	CONSTRUCTION



TOLERANCE NOTES

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

PROPRIETARY NOTE:
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DESCRIPTION

CROSSOVER
PLATE
KIT



A valmont COMPANY

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX
Engineering
Support Team:
1-888-753-7446

CPD NO.	DRAWN BY CEK 6/30/2011	ENG. APPROVAL
CLASS	DRAWING USAGE SHOP	CHECKED BY BMC 7/1/2011

PART NO.	SCX2-K
DWG. NO.	SCX2-K

PAGE
1 OF 1

SHEET NUMBER: REVISION:

S4

0

Date: April 27, 2025

TEP CT COA# PEC.0002212
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351

Subject: Structural Analysis Report

Carrier Designation: **AT&T Mobility Co-Locate**
Site Number: CT5189
Site Name: Monroe South
FA Number: 10071138

Crown Castle Designation: **BU Number:** 826053
Site Name: Monroe-1/Rt 25
JDE Job Number: 2144694
Work Order Number: 2384404
Order Number: 699531 Rev. 2

Engineering Firm Designation: **TEP Project Number:** 217657.1095273

Site Data: **88 Main Street, Monroe, Fairfield County, CT 06468**
Latitude 41° 18' 6.06", Longitude -73° 15' 2.92"
195 Foot - Monopole Tower

TEP is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above-mentioned tower.

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

LC5: Proposed Equipment Configuration

Sufficient Capacity- 61.4%

This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: MS / WAT

Respectfully submitted by:

Andrew T. Haldane, P.E.

TEP Engineering, PLLC

PEC.0002212



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1) INTRODUCTION

This is a 195-ft monopole tower designed by Summit.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	117 mph
Exposure Category:	B
Topographic Factor:	1.0
Ice Thickness:	1.0 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)
175.0	176.0	3	Ericsson	AIR 6472 B77G B77M_20240625 w/ Mount Pipe	3 6 3	3/8 7/8 Conduit
		1	Ericsson	RRUS 32 B30		
	175.0	6	CCI Antennas	TPA65R-BU6Dv2_20221028 w/ Mount Pipe		
		1	Raycap	DC6-48-60-18-8C		
		1	Raycap	DC6-48-60-18-8F_CCIV2		
		3	Ericsson	RADIO 4490HP B5/B12A		
		3	Ericsson	4890 B25 B66A		
		2	Ericsson	RRUS 32 B30		
		3	Ericsson	RADIO 4494 44B14 20B29		
		1	Site Pro 1	PRK-1245		
		1	Tower Mounts	Platform Mount [LP 303-1-HR-1]		
	174.0	1	Raycap	DC6-48-60-18-8C		

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)
193.0	194.0	3	Ericsson	AIR 32 B2A/B66AA w/ Mount Pipe	13	1 5/8
	193.0	3	RFS Celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	Ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		3	Ericsson	KRY 112 144/1		
		3	Commscope	SDX1926Q-43		
		3	Ericsson	RRUS 4415 B25_CCIV2		
		3	Ericsson	RADIO 4449 B12/B71		
		1	Tower Mounts	Platform Mount [LP 303-1_KCKR-HR-1]		
165.0	165.0	3	Samsung Telecom.	MT6407-77A_CCIV2 w/ Mount Pipe	2	1 5/8
		2	Commscope	NHH-65B-R2B		
		1	Samsung Telecom.	RF4439D-25A		
		3	Samsung Telecom.	RF4440D-13A		
		1	Tower Mounts	Platform Mount [LP 404-1]		
	164.0	6	Antel	LPA-80080/6CF w/ Mount Pipe		
		4	Commscope	NHH-65B-R2B		
		2	Samsung Telecom.	RF4439D-25A		
		1	Raycap	RVZDC-6627-PF-48_CCIV2		
144.0	146.0	3	Commscope	FFVV-65B-R2 w/ Mount Pipe	1	1 1/2
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
	144.0	1	Raycap	RDIDC-9181-PF-48_CCIV3		
		1	Tower Mounts	Valmont SNP8HR-396		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Geotechnical Report	3488965	CCISites
Tower Foundation Drawings	3950063	CCISites
Tower Manufacturer Drawings	3488966	CCISites

3.1) Analysis Method

tnxTower (version 8.3.1.2), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (k)	ΦP_{allow} (k)	% Capacity	Pass / Fail
L1	195 - 157.5	Pole	TP33.351x26x0.25	1	-16.99	1572.76	22.1	Pass
L2	157.5 - 116.75	Pole	TP40.839x32.0179x0.3125	2	-27.39	2406.41	45.0	Pass
L3	116.75 - 77	Pole	TP48.006x39.1849x0.375	3	-38.04	3396.36	50.7	Pass
L4	77 - 38	Pole	TP54.901x46.0798x0.375	4	-50.37	3886.13	61.4	Pass
L5	38 - 0	Pole	TP61.6x52.7788x0.4375	5	-68.89	5216.94	57.0	Pass
							Summary	
						Pole (L4)	61.4	Pass
						RATING =	61.4	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	-	54.7	Pass
1,2	Base Plate	-	47.3	Pass
1,2	Base Foundation Structural	-	51.7	Pass
1,2	Base Foundation Soil Interaction	-	35.7	Pass

Structure Rating (max from all components) =	61.4%
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Notes:

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

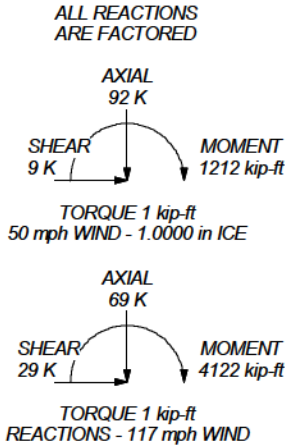
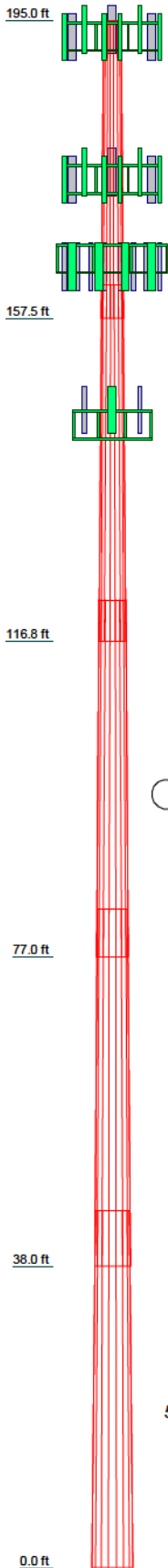
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	1	2	3	4	5
Length (ft)	37.50	45.00	45.00	45.00	45.00
Number of Sides	18	18	18	18	18
Thickness (in)	0.2500	0.3125	0.3750	0.3750	0.4375
Socket Length (ft)	4.25	5.25	6.00	7.00	
Top Dia (in)	26.0000	32.0179	39.1849	46.0798	52.7788
Bot Dia (in)	33.3510	40.8390	48.0060	54.9010	61.6000
Grade			A607-65		
Weight (K)	3.0	5.5	7.9	9.1	12.1



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 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: 61.4%

TEP 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350			Job: Monroe-1/Rt 25 (BU 826053) Project: TEP No. 217657.1095273 Client: Crown Castle Code: TIA-222-H Path:			Drawn by: onovikov Date: 04/27/25 Scale: NTS Dwg No. E-1		
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<i>tnxTower</i> TEP 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	Job	Monroe-1/Rt 25 (BU 826053)	Page	1 of 17
	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

Tower is located in Fairfield County, Connecticut.

Tower base elevation above sea level: 324.00 ft.

Basic wind speed of 117 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.0000 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.

Non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.

Maximum demand-capacity ratio is: 1.05.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

<i>tnxTower</i> TEP 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	Job	Monroe-1/Rt 25 (BU 826053)	Page	3 of 17
	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

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 plf

Step Pegs (5/8" SR) 7-in. w/30" step	A	No	No	CaAa (Out Of Face)	195.00 - 0.00	1	No Ice	0.03	0.49
							1/2" Ice	0.14	1.01
							1" Ice	0.23	2.07

**									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	193.00 - 0.00	10	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
HCS 6X12 4AWG(1-5/8)	B	No	No	Inside Pole	193.00 - 0.00	2	No Ice	0.00	2.40
							1/2" Ice	0.00	2.40
							1" Ice	0.00	2.40
MLE Hybrid 9Power/18Fiber RL 2(1-5/8)	B	No	No	Inside Pole	193.00 - 0.00	1	No Ice	0.00	1.07
							1/2" Ice	0.00	1.07
							1" Ice	0.00	1.07
**									
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	175.00 - 0.00	3	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
WR-VG66ST-BRD(7/8)	C	No	No	Inside Pole	175.00 - 0.00	6	No Ice	0.00	0.91
							1/2" Ice	0.00	0.91
							1" Ice	0.00	0.91
2" Flexible Conduit	C	No	No	Inside Pole	175.00 - 0.00	3	No Ice	0.00	0.34
							1/2" Ice	0.00	0.34
							1" Ice	0.00	0.34
**									
HB158-U12S24-XX X-LI(1-5/8)	A	No	No	Inside Pole	165.00 - 0.00	2	No Ice	0.00	3.20
							1/2" Ice	0.00	3.20
							1" Ice	0.00	3.20
**									
CU12PSM9P6XXX(1-1/2)	C	No	No	Inside Pole	144.00 - 0.00	1	No Ice	0.00	2.35
							1/2" Ice	0.00	2.35
							1" Ice	0.00	2.35

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
L1	195.00-157.50	A	0.000	0.000	0.000	1.312	0.07
		B	0.000	0.000	0.000	0.000	0.50
		C	0.000	0.000	0.000	0.000	0.12
L2	157.50-116.75	A	0.000	0.000	0.000	1.426	0.28
		B	0.000	0.000	0.000	0.000	0.57
		C	0.000	0.000	0.000	0.000	0.34
L3	116.75-77.00	A	0.000	0.000	0.000	1.391	0.27
		B	0.000	0.000	0.000	0.000	0.56
		C	0.000	0.000	0.000	0.000	0.36
L4	77.00-38.00	A	0.000	0.000	0.000	1.365	0.27
		B	0.000	0.000	0.000	0.000	0.55

tnxTower TEP 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	Job	Monroe-1/Rt 25 (BU 826053)	Page	4 of 17
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	Client	Crown Castle	Designed by	onovikov

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
L5	38.00-0.00	C	0.000	0.000	0.000	0.000	0.35
		A	0.000	0.000	0.000	1.330	0.26
		B	0.000	0.000	0.000	0.000	0.53
		C	0.000	0.000	0.000	0.000	0.34

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	195.00-157.50	A	1.005	0.000	0.000	0.000	8.847	0.13
		B		0.000	0.000	0.000	0.000	0.50
		C		0.000	0.000	0.000	0.000	0.12
L2	157.50-116.75	A	0.980	0.000	0.000	0.000	9.614	0.35
		B		0.000	0.000	0.000	0.000	0.57
		C		0.000	0.000	0.000	0.000	0.34
L3	116.75-77.00	A	0.946	0.000	0.000	0.000	9.180	0.33
		B		0.000	0.000	0.000	0.000	0.56
		C		0.000	0.000	0.000	0.000	0.36
L4	77.00-38.00	A	0.899	0.000	0.000	0.000	8.746	0.33
		B		0.000	0.000	0.000	0.000	0.55
		C		0.000	0.000	0.000	0.000	0.35
L5	38.00-0.00	A	0.803	0.000	0.000	0.000	8.159	0.31
		B		0.000	0.000	0.000	0.000	0.53
		C		0.000	0.000	0.000	0.000	0.34

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	195.00-157.50	0.0000	-0.3216	0.0000	-1.1013
L2	157.50-116.75	0.0000	-0.3229	0.0000	-1.1317
L3	116.75-77.00	0.0000	-0.3239	0.0000	-1.1306
L4	77.00-38.00	0.0000	-0.3245	0.0000	-1.1147
L5	38.00-0.00	0.0000	-0.3250	0.0000	-1.0819

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

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	$C_A A_A$ Front ft ²	$C_A A_A$ Side ft ²	Weight K
-------------	-------------	-------------	---	-------------------------	-----------------	---------------------------------------	--------------------------------------	-------------

<i>tnxTower</i> TEP 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	Job	Monroe-1/Rt 25 (BU 826053)	Page	5 of 17
	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
Top Hat	C	None		0.0000	196.00	No Ice	5.50	5.50	0.78
						1/2" Ice	8.20	8.20	1.01
						1" Ice	11.40	11.40	1.25

AIR 32 B2A/B66AA w/ Mount Pipe	A	From Centroid-Le g	4.00 0.00 1.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	3.76 4.12 4.48	3.15 3.49 3.84	0.19 0.25 0.32
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Centroid-Le g	4.00 0.00 1.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	3.76 4.12 4.48	3.15 3.49 3.84	0.19 0.25 0.32
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Centroid-Le g	4.00 0.00 1.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	3.76 4.12 4.48	3.15 3.49 3.84	0.19 0.25 0.32
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.19 0.31 0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.19 0.31 0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.19 0.31 0.46
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
KRY 112 144/1	A	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	0.35 0.43 0.51	0.17 0.23 0.30	0.01 0.01 0.02
KRY 112 144/1	B	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	0.35 0.43 0.51	0.17 0.23 0.30	0.01 0.01 0.02
KRY 112 144/1	C	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	0.35 0.43 0.51	0.17 0.23 0.30	0.01 0.01 0.02
SDX1926Q-43	A	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	0.24 0.31 0.38	0.10 0.14 0.19	0.01 0.01 0.01
SDX1926Q-43	B	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	0.24 0.31 0.38	0.10 0.14 0.19	0.01 0.01 0.01
SDX1926Q-43	C	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	0.24 0.31 0.38	0.10 0.14 0.19	0.01 0.01 0.01
RRUS 4415 B25_CCIV2	A	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	1.84 2.01 2.19	0.82 0.94 1.07	0.05 0.06 0.08
RRUS 4415 B25_CCIV2	B	From Centroid-Le g	4.00 0.00 0.00	0.0000	193.00	No Ice 1/2" Ice 1" Ice	1.84 2.01 2.19	0.82 0.94 1.07	0.05 0.06 0.08
RRUS 4415 B25_CCIV2	C	From Centroid-Le	4.00 0.00	0.0000	193.00	No Ice 1/2" Ice	1.84 2.01	0.82 0.94	0.05 0.06

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	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
RADIO 4449 B12/B71	A	g From Centroid-Le	0.00 4.00 0.00	0.0000	193.00	1" Ice No Ice 1/2" Ice	2.19 1.64 1.80	1.07 1.15 1.29	0.08 0.08 0.09
RADIO 4449 B12/B71	B	g From Centroid-Le	0.00 4.00 0.00	0.0000	193.00	1" Ice No Ice 1/2" Ice	1.97 1.64 1.80	1.44 1.15 1.29	0.11 0.08 0.09
RADIO 4449 B12/B71	C	g From Centroid-Le	0.00 4.00 0.00	0.0000	193.00	1" Ice No Ice 1/2" Ice	1.97 1.64 1.80	1.44 1.15 1.29	0.11 0.08 0.09
2.4" x 8' Pipe	A	g From Centroid-Le	0.00 4.00 0.00	0.0000	193.00	1" Ice No Ice 1/2" Ice	1.97 1.90 2.73	1.44 1.90 2.73	0.11 0.03 0.05
2.4" x 8' Pipe	B	g From Centroid-Le	0.00 4.00 0.00	0.0000	193.00	1" Ice No Ice 1/2" Ice	3.42 1.90 2.73	3.42 1.90 2.73	0.07 0.03 0.05
2.4" x 8' Pipe	C	g From Centroid-Le	0.00 4.00 0.00	0.0000	193.00	1" Ice No Ice 1/2" Ice	3.42 1.90 2.73	3.42 1.90 2.73	0.07 0.03 0.05
Platform Mount [LP 303-1_KCKR-HR-1]	C	g None	0.00	0.0000	193.00	1" Ice No Ice 1/2" Ice	3.42 28.31 35.69	3.42 28.31 35.69	0.07 1.77 2.30
***						1" Ice	43.11	43.11	2.94
(2)	A	From	4.00	0.0000	175.00	No Ice	12.87	6.39	0.09
TPA65R-BU6Dv2_20221028 w/ Mount Pipe		Centroid-Le	0.00			1/2" Ice	13.67	7.10	0.18
(2)	B	g From	0.00 4.00	0.0000	175.00	1" Ice No Ice	14.49 12.87	7.82 6.39	0.28 0.09
TPA65R-BU6Dv2_20221028 w/ Mount Pipe		Centroid-Le	0.00			1/2" Ice	13.67	7.10	0.18
(2)	C	g From	0.00 4.00	0.0000	175.00	1" Ice No Ice	14.49 12.87	7.82 6.39	0.28 0.09
TPA65R-BU6Dv2_20221028 w/ Mount Pipe		Centroid-Le	0.00			1/2" Ice	13.67	7.10	0.18
AIR 6472 B77G	A	g From	0.00 4.00	0.0000	175.00	1" Ice No Ice	14.49 5.96	7.82 4.34	0.28 0.10
B77M_20240625 w/ Mount Pipe		Centroid-Le	0.00			1/2" Ice	6.77	5.40	0.15
AIR 6472 B77G	B	g From	1.00 4.00	0.0000	175.00	1" Ice No Ice	7.49 5.96	6.32 4.34	0.21 0.10
B77M_20240625 w/ Mount Pipe		Centroid-Le	0.00			1/2" Ice	6.77	5.40	0.15
AIR 6472 B77G	C	g From	1.00 4.00	0.0000	175.00	1" Ice No Ice	7.49 5.96	6.32 4.34	0.21 0.10
B77M_20240625 w/ Mount Pipe		Centroid-Le	0.00			1/2" Ice	6.77	5.40	0.15
DC6-48-60-18-8C	A	g From	1.00 4.00		175.00	1" Ice No Ice	7.49 1.14	6.32 1.14	0.21 0.03
		Centroid-Le	0.00			1/2" Ice	1.79	1.79	0.05
DC6-48-60-18-8C	B	g From	0.00 4.00	0.0000	175.00	1" Ice No Ice	2.00 1.14	2.00 1.14	0.07 0.03
		Centroid-Le	0.00			1/2" Ice	1.79	1.79	0.05
DC6-48-60-18-8F_CCIV2	C	g From	-1.00 4.00	0.0000	175.00	1" Ice No Ice	2.00 2.90	2.00 2.90	0.07 0.02
		Centroid-Le	0.00			1/2" Ice	3.13	3.13	0.05
RADIO 4490HP B5/B12A	A	g From	0.00 4.00	0.0000	175.00	1" Ice No Ice	3.37 2.20	3.37 0.99	0.08 0.07
		Centroid-Le	0.00			1/2" Ice	2.39	1.13	0.09
RADIO 4490HP B5/B12A	B	g From	0.00 4.00	0.0000	175.00	1" Ice No Ice	2.58 2.20	1.28 0.99	0.10 0.07
		Centroid-Le	0.00			1/2" Ice	2.39	1.13	0.09
RADIO 4490HP B5/B12A	C	g From	0.00 4.00	0.0000	175.00	1" Ice No Ice	2.58 2.20	1.28 0.99	0.10 0.07

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	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
4890 B25 B66A	A	Centroid-Le	0.00	0.0000	175.00	1/2" Ice	2.39	0.09
		g	0.00			1" Ice	2.58	0.10
		From	4.00			No Ice	2.20	0.07
		Centroid-Le	0.00			1/2" Ice	2.39	0.09
4890 B25 B66A	B	g	0.00	0.0000	175.00	1" Ice	2.58	0.11
		From	4.00			No Ice	2.20	0.07
		Centroid-Le	0.00			1/2" Ice	2.39	0.09
		g	0.00			1" Ice	2.58	0.11
4890 B25 B66A	C	From	4.00	0.0000	175.00	No Ice	2.20	0.07
		Centroid-Le	0.00			1/2" Ice	2.39	0.09
		g	0.00			1" Ice	2.58	0.11
		From	4.00			No Ice	2.20	0.07
RRUS 32 B30	A	Centroid-Le	0.00	0.0000	175.00	1/2" Ice	2.39	0.09
		g	0.00			1" Ice	2.58	0.11
		From	4.00			No Ice	2.73	0.05
		Centroid-Le	0.00			1/2" Ice	2.95	0.07
RRUS 32 B30	B	g	1.00	0.0000	175.00	1" Ice	3.18	0.10
		From	4.00			No Ice	2.73	0.05
		Centroid-Le	0.00			1/2" Ice	2.95	0.07
		g	0.00			1" Ice	3.18	0.10
RRUS 32 B30	C	From	4.00	0.0000	175.00	No Ice	2.73	0.05
		Centroid-Le	0.00			1/2" Ice	2.95	0.07
		g	0.00			1" Ice	3.18	0.10
		From	4.00			No Ice	2.20	0.06
RADIO 4494 44B14 20B29	A	Centroid-Le	0.00	0.0000	175.00	1/2" Ice	2.39	0.07
		g	0.00			1" Ice	2.58	0.09
		From	4.00			No Ice	2.20	0.06
		Centroid-Le	0.00			1/2" Ice	2.39	0.07
RADIO 4494 44B14 20B29	B	g	0.00	0.0000	175.00	1" Ice	2.58	0.09
		From	4.00			No Ice	2.20	0.06
		Centroid-Le	0.00			1/2" Ice	2.39	0.07
		g	0.00			1" Ice	2.58	0.09
RADIO 4494 44B14 20B29	C	From	4.00	0.0000	175.00	No Ice	2.20	0.06
		Centroid-Le	0.00			1/2" Ice	2.39	0.07
		g	0.00			1" Ice	2.58	0.09
		From	4.00			No Ice	1.43	0.02
2.4" Dia. x 6-ft	A	Centroid-Le	0.00	0.0000	175.00	1/2" Ice	1.92	0.03
		g	0.00			1" Ice	2.29	0.05
		From	4.00			No Ice	1.43	0.02
		Centroid-Le	0.00			1/2" Ice	1.92	0.03
2.4" Dia. x 6-ft	B	g	0.00	0.0000	175.00	1" Ice	2.29	0.05
		From	4.00			No Ice	1.43	0.02
		Centroid-Le	0.00			1/2" Ice	1.92	0.03
		g	0.00			1" Ice	2.29	0.05
2.4" Dia. x 6-ft	C	From	4.00	0.0000	175.00	No Ice	1.43	0.02
		Centroid-Le	0.00			1/2" Ice	1.92	0.03
		g	0.00			1" Ice	2.29	0.05
		From	4.00			No Ice	28.31	1.77
Platform Mount [LP 303-1_KCKR-HR-1]	C	None		0.0000	175.00	1/2" Ice	35.69	2.30
						1" Ice	43.11	2.94

MT6407-77A_CCIV2 w/ Mount Pipe	A	From	4.00	0.0000	165.00	No Ice	5.94	0.10
		Centroid-Fa	0.00			1/2" Ice	6.47	0.13
		ce	0.00			1" Ice	7.02	0.18
		From	4.00			No Ice	5.94	0.10
MT6407-77A_CCIV2 w/ Mount Pipe	B	Centroid-Fa	0.00	0.0000	165.00	1/2" Ice	6.47	0.13
		ce	0.00			1" Ice	7.02	0.18
		From	4.00			No Ice	5.94	0.10
		Centroid-Fa	0.00			1/2" Ice	6.47	0.13
MT6407-77A_CCIV2 w/ Mount Pipe	C	ce	0.00	0.0000	165.00	1" Ice	7.02	0.18
		From	4.00			No Ice	5.94	0.10
		Centroid-Fa	0.00			1/2" Ice	6.47	0.13
		ce	0.00			1" Ice	7.02	0.18
(2) LPA-80080/6CF w/ Mount Pipe	A	From	4.00	0.0000	165.00	No Ice	3.02	0.06
		Centroid-Fa	0.00			1/2" Ice	3.57	0.12
		ce	-1.00			1" Ice	4.14	0.19
		From	4.00			No Ice	3.02	0.06
(2) LPA-80080/6CF w/ Mount Pipe	B	Centroid-Fa	0.00	0.0000	165.00	1/2" Ice	3.57	0.12
		ce	-1.00			1" Ice	4.14	0.19
		From	4.00			No Ice	3.02	0.06
		Centroid-Fa	0.00			1/2" Ice	3.57	0.12

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	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
(2) LPA-80080/6CF w/ Mount Pipe	C	From	4.00	0.0000	165.00	No Ice	3.02	7.80	0.06
		Centroid-Fa	0.00			1/2" Ice	3.57	8.42	0.12
		ce	-1.00			1" Ice	4.14	9.06	0.19
(2) NHH-65B-R2B	A	From	4.00	0.0000	165.00	No Ice	4.16	2.49	0.04
		Centroid-Fa	0.00			1/2" Ice	4.56	2.88	0.09
		ce	0.00			1" Ice	4.98	3.27	0.15
(2) NHH-65B-R2B	B	From	4.00	0.0000	165.00	No Ice	4.16	2.49	0.04
		Centroid-Fa	0.00			1/2" Ice	4.56	2.88	0.09
		ce	-1.00			1" Ice	4.98	3.27	0.15
(2) NHH-65B-R2B	C	From	4.00	0.0000	165.00	No Ice	4.16	2.49	0.04
		Centroid-Fa	0.00			1/2" Ice	4.56	2.88	0.09
		ce	-1.00			1" Ice	4.98	3.27	0.15
RF4439D-25A	A	From	4.00	0.0000	165.00	No Ice	1.87	1.25	0.07
		Centroid-Fa	0.00			1/2" Ice	2.03	1.39	0.09
		ce	0.00			1" Ice	2.21	1.54	0.11
RF4439D-25A	B	From	4.00	0.0000	165.00	No Ice	1.87	1.25	0.07
		Centroid-Fa	0.00			1/2" Ice	2.03	1.39	0.09
		ce	-1.00			1" Ice	2.21	1.54	0.11
RF4439D-25A	C	From	4.00	0.0000	165.00	No Ice	1.87	1.25	0.07
		Centroid-Fa	0.00			1/2" Ice	2.03	1.39	0.09
		ce	-1.00			1" Ice	2.21	1.54	0.11
RF4440D-13A	A	From	4.00	0.0000	165.00	No Ice	1.87	1.13	0.07
		Centroid-Fa	0.00			1/2" Ice	2.03	1.27	0.09
		ce	0.00			1" Ice	2.21	1.41	0.11
RF4440D-13A	B	From	4.00	0.0000	165.00	No Ice	1.87	1.13	0.07
		Centroid-Fa	0.00			1/2" Ice	2.03	1.27	0.09
		ce	0.00			1" Ice	2.21	1.41	0.11
RF4440D-13A	C	From	4.00	0.0000	165.00	No Ice	1.87	1.13	0.07
		Centroid-Fa	0.00			1/2" Ice	2.03	1.27	0.09
		ce	0.00			1" Ice	2.21	1.41	0.11
RVZDC-6627-PF-48_CCIV2	A	From	4.00	0.0000	165.00	No Ice	4.06	3.10	0.03
		Centroid-Fa	0.00			1/2" Ice	4.32	3.34	0.07
		ce	-1.00			1" Ice	4.58	3.58	0.11
(2) 2.4" x 8' Pipe	A	From	4.00	0.0000	165.00	No Ice	1.90	1.90	0.03
		Centroid-Fa	0.00			1/2" Ice	2.73	2.73	0.05
		ce	0.00			1" Ice	3.42	3.42	0.07
(2) 2.4" x 8' Pipe	B	From	4.00	0.0000	165.00	No Ice	1.90	1.90	0.03
		Centroid-Fa	0.00			1/2" Ice	2.73	2.73	0.05
		ce	0.00			1" Ice	3.42	3.42	0.07
(2) 2.4" x 8' Pipe	C	From	4.00	0.0000	165.00	No Ice	1.90	1.90	0.03
		Centroid-Fa	0.00			1/2" Ice	2.73	2.73	0.05
		ce	0.00			1" Ice	3.42	3.42	0.07
(2) L 2.5x2.5x1/4x4.375'	A	From	2.00	0.0000	165.00	No Ice	1.25	0.01	0.03
		Centroid-Fa	0.00			1/2" Ice	1.60	0.02	0.03
		ce	2.00			1" Ice	1.96	0.05	0.04
(2) L 2.5x2.5x1/4x4.375'	B	From	2.00	0.0000	165.00	No Ice	1.25	0.01	0.03
		Centroid-Fa	0.00			1/2" Ice	1.60	0.02	0.03
		ce	2.00			1" Ice	1.96	0.05	0.04
(2) L 2.5x2.5x1/4x4.375'	C	From	2.00	0.0000	165.00	No Ice	1.25	0.01	0.03
		Centroid-Fa	0.00			1/2" Ice	1.60	0.02	0.03
		ce	2.00			1" Ice	1.96	0.05	0.04
Commscope	C	None		0.0000	165.00	No Ice	0.00	0.00	0.20
BSAMNT-SBS-2-2 Mounting						1/2" Ice	0.00	0.00	0.26
Kit (3)						1" Ice	0.00	0.00	0.32
Platform Mount [LP 404-1]	C	None		0.0000	165.00	No Ice	24.60	24.60	2.04
						1/2" Ice	31.63	31.63	2.60
						1" Ice	38.37	38.37	3.29

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	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

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

FFVV-65B-R2 w/ Mount Pipe	A	From	4.00	0.0000	144.00	No Ice	7.14	3.83	0.11
		Centroid-Fa	0.00			1/2" Ice	7.60	4.24	0.19
		ce	2.00			1" Ice	8.06	4.66	0.29
FFVV-65B-R2 w/ Mount Pipe	B	From	4.00	0.0000	144.00	No Ice	7.14	3.83	0.11
		Centroid-Fa	0.00			1/2" Ice	7.60	4.24	0.19
		ce	2.00			1" Ice	8.06	4.66	0.29
FFVV-65B-R2 w/ Mount Pipe	C	From	4.00	0.0000	144.00	No Ice	7.14	3.83	0.11
		Centroid-Fa	0.00			1/2" Ice	7.60	4.24	0.19
		ce	2.00			1" Ice	8.06	4.66	0.29
TA08025-B604	A	From	4.00	0.0000	144.00	No Ice	1.96	0.98	0.06
		Centroid-Fa	0.00			1/2" Ice	2.14	1.11	0.08
		ce	2.00			1" Ice	2.32	1.25	0.10
TA08025-B604	B	From	4.00	0.0000	144.00	No Ice	1.96	0.98	0.06
		Centroid-Fa	0.00			1/2" Ice	2.14	1.11	0.08
		ce	2.00			1" Ice	2.32	1.25	0.10
TA08025-B604	C	From	4.00	0.0000	144.00	No Ice	1.96	0.98	0.06
		Centroid-Fa	0.00			1/2" Ice	2.14	1.11	0.08
		ce	2.00			1" Ice	2.32	1.25	0.10
TA08025-B605	A	From	4.00	0.0000	144.00	No Ice	1.96	1.13	0.08
		Centroid-Fa	0.00			1/2" Ice	2.14	1.27	0.09
		ce	2.00			1" Ice	2.32	1.41	0.11
TA08025-B605	B	From	4.00	0.0000	144.00	No Ice	1.96	1.13	0.08
		Centroid-Fa	0.00			1/2" Ice	2.14	1.27	0.09
		ce	2.00			1" Ice	2.32	1.41	0.11
TA08025-B605	C	From	4.00	0.0000	144.00	No Ice	1.96	1.13	0.08
		Centroid-Fa	0.00			1/2" Ice	2.14	1.27	0.09
		ce	2.00			1" Ice	2.32	1.41	0.11
RDIDC-9181-PF-48_CCIV3	A	From	4.00	0.0000	144.00	No Ice	2.01	1.17	0.02
		Centroid-Fa	0.00			1/2" Ice	2.19	1.31	0.04
		ce	0.00			1" Ice	2.37	1.46	0.06
(2) 2.4" x 8' Pipe	A	From	4.00	0.0000	144.00	No Ice	1.90	1.90	0.03
		Centroid-Fa	0.00			1/2" Ice	2.73	2.73	0.05
		ce	0.00			1" Ice	3.42	3.42	0.07
(2) 2.4" x 8' Pipe	B	From	4.00	0.0000	144.00	No Ice	1.90	1.90	0.03
		Centroid-Fa	0.00			1/2" Ice	2.73	2.73	0.05
		ce	0.00			1" Ice	3.42	3.42	0.07
(2) 2.4" x 8' Pipe	C	From	4.00	0.0000	144.00	No Ice	1.90	1.90	0.03
		Centroid-Fa	0.00			1/2" Ice	2.73	2.73	0.05
		ce	0.00			1" Ice	3.42	3.42	0.07
Valmont SNP8HR-396	C	None		0.0000	144.00	No Ice	26.80	26.80	1.51
						1/2" Ice	32.20	32.20	1.81
						1" Ice	37.60	37.60	2.11

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice

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Comb. No.	Description
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	195 - 157.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-30.20	0.42	0.31
			Max. Mx	20	-16.99	253.50	0.23
			Max. My	2	-17.00	0.16	253.45
			Max. Vy	20	-15.87	253.50	0.23

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L2	157.5 - 116.75	Pole	Max. Vx	2	-15.85	0.16	253.45
			Max. Torque	2			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.36	0.64	0.56
			Max. Mx	20	-27.40	1000.34	1.15
			Max. My	2	-27.40	1.09	999.34
			Max. Vy	20	-21.32	1000.34	1.15
L3	116.75 - 77	Pole	Max. Vx	2	-21.29	1.09	999.34
			Max. Torque	16			-0.71
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-57.04	0.64	0.71
			Max. Mx	20	-38.04	1891.05	2.22
			Max. My	2	-38.04	2.13	1888.93
			Max. Vy	20	-24.27	1891.05	2.22
L4	77 - 38	Pole	Max. Vx	2	-24.24	2.13	1888.93
			Max. Torque	16			-0.75
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-71.47	0.64	0.88
			Max. Mx	20	-50.37	2862.89	3.25
			Max. My	2	-50.37	3.11	2859.69
			Max. Vy	20	-26.72	2862.89	3.25
L5	38 - 0	Pole	Max. Vx	2	-26.69	3.11	2859.69
			Max. Torque	16			-0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-92.48	0.64	1.08
			Max. Mx	20	-68.89	4119.59	4.43
			Max. My	2	-68.89	4.23	4115.18
			Max. Vy	20	-29.00	4119.59	4.43
			Max. Vx	2	-28.97	4.23	4115.18
			Max. Torque	16			-0.84

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	36	92.48	8.59	0.00
	Max. H _x	21	51.68	28.97	0.02
	Max. H _z	2	68.90	0.02	28.94
	Max. M _x	2	4115.18	0.02	28.94
	Max. M _z	8	4119.22	-28.97	-0.02
	Max. Torsion	4	0.84	-14.46	25.05
	Min. Vert	17	51.68	14.46	-25.05
	Min. H _x	9	51.68	-28.97	-0.02
	Min. H _z	14	68.90	-0.02	-28.94
	Min. M _x	14	-4114.41	-0.02	-28.94
	Min. M _z	20	-4119.59	28.97	0.02
	Min. Torsion	16	-0.84	14.46	-25.05

Tower Mast Reaction Summary

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Load Combination	Vertical K	Shear _x K	Shear _y K	Overturning Moment, M _x kip-ft	Overturning Moment, M _y kip-ft	Torque kip-ft
Dead Only	57.42	0.00	0.00	-0.29	0.14	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	68.90	-0.02	-28.94	-4115.18	4.23	-0.65
0.9 Dead+1.0 Wind 0 deg - No Ice	51.68	-0.02	-28.94	-4044.89	4.11	-0.65
1.2 Dead+1.0 Wind 30 deg - No Ice	68.90	14.46	-25.05	-3561.89	-2056.03	-0.84
0.9 Dead+1.0 Wind 30 deg - No Ice	51.68	14.46	-25.05	-3501.03	-2021.01	-0.84
1.2 Dead+1.0 Wind 60 deg - No Ice	68.90	25.07	-14.45	-2054.27	-3565.32	-0.80
0.9 Dead+1.0 Wind 60 deg - No Ice	51.68	25.07	-14.45	-2019.14	-3504.55	-0.80
1.2 Dead+1.0 Wind 90 deg - No Ice	68.90	28.97	0.02	3.67	-4119.22	-0.54
0.9 Dead+1.0 Wind 90 deg - No Ice	51.68	28.97	0.02	3.70	-4048.97	-0.54
1.2 Dead+1.0 Wind 120 deg - No Ice	68.90	25.10	14.49	2060.51	-3569.35	-0.15
0.9 Dead+1.0 Wind 120 deg - No Ice	51.68	25.10	14.49	2025.46	-3508.51	-0.15
1.2 Dead+1.0 Wind 150 deg - No Ice	68.90	14.50	25.07	3565.15	-2063.03	0.29
0.9 Dead+1.0 Wind 150 deg - No Ice	51.68	14.50	25.07	3504.43	-2027.88	0.29
1.2 Dead+1.0 Wind 180 deg - No Ice	68.90	0.02	28.94	4114.41	-3.87	0.65
0.9 Dead+1.0 Wind 180 deg - No Ice	51.68	0.02	28.94	4044.33	-3.85	0.65
1.2 Dead+1.0 Wind 210 deg - No Ice	68.90	-14.46	25.05	3561.13	2056.39	0.84
0.9 Dead+1.0 Wind 210 deg - No Ice	51.68	-14.46	25.05	3500.47	2021.27	0.84
1.2 Dead+1.0 Wind 240 deg - No Ice	68.90	-25.07	14.45	2053.52	3565.69	0.80
0.9 Dead+1.0 Wind 240 deg - No Ice	51.68	-25.07	14.45	2018.58	3504.82	0.80
1.2 Dead+1.0 Wind 270 deg - No Ice	68.90	-28.97	-0.02	-4.43	4119.59	0.55
0.9 Dead+1.0 Wind 270 deg - No Ice	51.68	-28.97	-0.02	-4.26	4049.24	0.55
1.2 Dead+1.0 Wind 300 deg - No Ice	68.90	-25.10	-14.49	-2061.28	3569.72	0.14
0.9 Dead+1.0 Wind 300 deg - No Ice	51.68	-25.10	-14.49	-2026.02	3508.78	0.14
1.2 Dead+1.0 Wind 330 deg - No Ice	68.90	-14.50	-25.07	-3565.93	2063.40	-0.29
0.9 Dead+1.0 Wind 330 deg - No Ice	51.68	-14.50	-25.07	-3505.00	2028.15	-0.29
1.2 Dead+1.0 Ice+1.0 Temp	92.48	0.00	0.00	-1.08	0.64	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	92.48	-0.00	-8.59	-1210.74	1.59	-0.13
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	92.48	4.29	-7.43	-1048.32	-603.75	-0.37
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	92.48	7.44	-4.29	-605.30	-1047.10	-0.51
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	92.48	8.59	0.00	-0.43	-1209.65	-0.51
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	92.48	7.44	4.30	604.22	-1047.91	-0.38
1.2 Dead+1.0 Wind 150	92.48	4.30	7.44	1046.64	-605.15	-0.14

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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
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 180	92.48	0.00	8.59	1208.25	-0.04	0.13
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 210	92.48	-4.29	7.43	1045.83	605.30	0.37
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 240	92.48	-7.44	4.29	602.82	1048.66	0.51
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 270	92.48	-8.59	-0.00	-2.06	1211.20	0.51
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 300	92.48	-7.44	-4.30	-606.71	1049.47	0.38
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330	92.48	-4.30	-7.44	-1049.13	606.71	0.14
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	57.42	-0.01	-7.17	-1009.66	1.14	-0.16
Dead+Wind 30 deg - Service	57.42	3.58	-6.21	-873.95	-504.24	-0.21
Dead+Wind 60 deg - Service	57.42	6.21	-3.58	-504.14	-874.46	-0.20
Dead+Wind 90 deg - Service	57.42	7.18	0.01	0.68	-1010.32	-0.14
Dead+Wind 120 deg - Service	57.42	6.22	3.59	505.22	-875.46	-0.04
Dead+Wind 150 deg - Service	57.42	3.59	6.21	874.31	-505.95	0.07
Dead+Wind 180 deg - Service	57.42	0.01	7.17	1009.03	-0.84	0.16
Dead+Wind 210 deg - Service	57.42	-3.58	6.21	873.32	504.54	0.21
Dead+Wind 240 deg - Service	57.42	-6.21	3.58	503.50	874.77	0.20
Dead+Wind 270 deg - Service	57.42	-7.18	-0.01	-1.31	1010.63	0.14
Dead+Wind 300 deg - Service	57.42	-6.22	-3.59	-505.86	875.76	0.04
Dead+Wind 330 deg - Service	57.42	-3.59	-6.21	-874.95	506.26	-0.07

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	-57.42	0.00	0.00	57.42	0.00	0.000%
2	-0.02	-68.90	-28.94	0.02	68.90	28.94	0.000%
3	-0.02	-51.68	-28.94	0.02	51.68	28.94	0.000%
4	14.46	-68.90	-25.05	-14.46	68.90	25.05	0.000%
5	14.46	-51.68	-25.05	-14.46	51.68	25.05	0.000%
6	25.07	-68.90	-14.45	-25.07	68.90	14.45	0.000%
7	25.07	-51.68	-14.45	-25.07	51.68	14.45	0.000%
8	28.97	-68.90	0.02	-28.97	68.90	-0.02	0.000%
9	28.97	-51.68	0.02	-28.97	51.68	-0.02	0.000%
10	25.10	-68.90	14.49	-25.10	68.90	-14.49	0.000%
11	25.10	-51.68	14.49	-25.10	51.68	-14.49	0.000%
12	14.50	-68.90	25.07	-14.50	68.90	-25.07	0.000%
13	14.50	-51.68	25.07	-14.50	51.68	-25.07	0.000%
14	0.02	-68.90	28.94	-0.02	68.90	-28.94	0.000%
15	0.02	-51.68	28.94	-0.02	51.68	-28.94	0.000%
16	-14.46	-68.90	25.05	14.46	68.90	-25.05	0.000%
17	-14.46	-51.68	25.05	14.46	51.68	-25.05	0.000%
18	-25.07	-68.90	14.45	25.07	68.90	-14.45	0.000%
19	-25.07	-51.68	14.45	25.07	51.68	-14.45	0.000%
20	-28.97	-68.90	-0.02	28.97	68.90	0.02	0.000%
21	-28.97	-51.68	-0.02	28.97	51.68	0.02	0.000%
22	-25.10	-68.90	-14.49	25.10	68.90	14.49	0.000%
23	-25.10	-51.68	-14.49	25.10	51.68	14.49	0.000%
24	-14.50	-68.90	-25.07	14.50	68.90	25.07	0.000%
25	-14.50	-51.68	-25.07	14.50	51.68	25.07	0.000%
26	0.00	-92.48	0.00	0.00	92.48	0.00	0.000%
27	-0.00	-92.48	-8.59	0.00	92.48	8.59	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
28	4.29	-92.48	-7.43	-4.29	92.48	7.43	0.000%
29	7.44	-92.48	-4.29	-7.44	92.48	4.29	0.000%
30	8.59	-92.48	0.00	-8.59	92.48	-0.00	0.000%
31	7.44	-92.48	4.30	-7.44	92.48	-4.30	0.000%
32	4.30	-92.48	7.44	-4.30	92.48	-7.44	0.000%
33	0.00	-92.48	8.59	-0.00	92.48	-8.59	0.000%
34	-4.29	-92.48	7.43	4.29	92.48	-7.43	0.000%
35	-7.44	-92.48	4.29	7.44	92.48	-4.29	0.000%
36	-8.59	-92.48	-0.00	8.59	92.48	0.00	0.000%
37	-7.44	-92.48	-4.30	7.44	92.48	4.30	0.000%
38	-4.30	-92.48	-7.44	4.30	92.48	7.44	0.000%
39	-0.01	-57.42	-7.17	0.01	57.42	7.17	0.000%
40	3.58	-57.42	-6.21	-3.58	57.42	6.21	0.000%
41	6.21	-57.42	-3.58	-6.21	57.42	3.58	0.000%
42	7.18	-57.42	0.01	-7.18	57.42	-0.01	0.000%
43	6.22	-57.42	3.59	-6.22	57.42	-3.59	0.000%
44	3.59	-57.42	6.21	-3.59	57.42	-6.21	0.000%
45	0.01	-57.42	7.17	-0.01	57.42	-7.17	0.000%
46	-3.58	-57.42	6.21	3.58	57.42	-6.21	0.000%
47	-6.21	-57.42	3.58	6.21	57.42	-3.58	0.000%
48	-7.18	-57.42	-0.01	7.18	57.42	0.01	0.000%
49	-6.22	-57.42	-3.59	6.22	57.42	3.59	0.000%
50	-3.59	-57.42	-6.21	3.59	57.42	6.21	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00011695
3	Yes	5	0.00000001	0.00005584
4	Yes	6	0.00000001	0.00041516
5	Yes	6	0.00000001	0.00014721
6	Yes	6	0.00000001	0.00042288
7	Yes	6	0.00000001	0.00015021
8	Yes	5	0.00000001	0.00007196
9	Yes	4	0.00000001	0.00086683
10	Yes	6	0.00000001	0.00042136
11	Yes	6	0.00000001	0.00014949
12	Yes	6	0.00000001	0.00041891
13	Yes	6	0.00000001	0.00014856
14	Yes	5	0.00000001	0.00009638
15	Yes	5	0.00000001	0.00004482
16	Yes	6	0.00000001	0.00042333
17	Yes	6	0.00000001	0.00015041
18	Yes	6	0.00000001	0.00041580
19	Yes	6	0.00000001	0.00014745
20	Yes	5	0.00000001	0.00008687
21	Yes	4	0.00000001	0.00095722
22	Yes	6	0.00000001	0.00042141
23	Yes	6	0.00000001	0.00014946
24	Yes	6	0.00000001	0.00042367
25	Yes	6	0.00000001	0.00015036
26	Yes	4	0.00000001	0.00000001
27	Yes	5	0.00000001	0.00096618
28	Yes	6	0.00000001	0.00016678

<i>tnxTower</i> TEP 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	Job	Monroe-1/Rt 25 (BU 826053)	Page	15 of 17
	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

29	Yes	6	0.00000001	0.00016814
30	Yes	5	0.00000001	0.00096464
31	Yes	6	0.00000001	0.00016678
32	Yes	6	0.00000001	0.00016720
33	Yes	5	0.00000001	0.00096331
34	Yes	6	0.00000001	0.00016788
35	Yes	6	0.00000001	0.00016665
36	Yes	5	0.00000001	0.00096724
37	Yes	6	0.00000001	0.00016866
38	Yes	6	0.00000001	0.00016810
39	Yes	4	0.00000001	0.00019523
40	Yes	5	0.00000001	0.00007542
41	Yes	5	0.00000001	0.00007964
42	Yes	4	0.00000001	0.00018755
43	Yes	5	0.00000001	0.00007790
44	Yes	5	0.00000001	0.00007675
45	Yes	4	0.00000001	0.00019354
46	Yes	5	0.00000001	0.00007989
47	Yes	5	0.00000001	0.00007566
48	Yes	4	0.00000001	0.00018857
49	Yes	5	0.00000001	0.00007813
50	Yes	5	0.00000001	0.00007928

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	195 - 157.5	29.842	49	1.2895	0.0009
L2	161.75 - 116.75	21.028	49	1.2137	0.0008
L3	122 - 77	11.902	49	0.9404	0.0004
L4	83 - 38	5.400	49	0.6297	0.0002
L5	45 - 0	1.558	49	0.3142	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
196.00	Top Hat	49	29.842	1.2895	0.0009	81218
193.00	AIR 32 B2A/B66AA w/ Mount Pipe	49	29.301	1.2870	0.0009	81218
175.00	(2) TPA65R-BU6Dv2_20221028 w/ Mount Pipe	49	24.471	1.2576	0.0009	20304
165.00	MT6407-77A_CCIV2 w/ Mount Pipe	49	21.860	1.2271	0.0008	13541
144.00	FFVV-65B-R2 w/ Mount Pipe	49	16.689	1.1098	0.0006	9068

Maximum Tower Deflections - Design Wind

tnxTower TEP 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	Job	Monroe-1/Rt 25 (BU 826053)	Page	16 of 17
	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	195 - 157.5	121.804	20	5.2737	0.0037
L2	161.75 - 116.75	85.837	22	4.9630	0.0033
L3	122 - 77	48.588	22	3.8441	0.0018
L4	83 - 38	22.038	22	2.5725	0.0009
L5	45 - 0	6.354	22	1.2821	0.0004

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
196.00	Top Hat	20	121.804	5.2737	0.0037	20136
193.00	AIR 32 B2A/B66AA w/ Mount Pipe	20	119.596	5.2637	0.0037	20136
175.00	(2) TPA65R-BU6Dv2_20221028 w/ Mount Pipe	22	99.885	5.1426	0.0035	5032
165.00	MT6407-77A_CCIV2 w/ Mount Pipe	22	89.228	5.0177	0.0034	3354
144.00	FFVV-65B-R2 w/ Mount Pipe	22	68.129	4.5375	0.0027	2241

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	195 - 157.5 (1)	TP33.351x26x0.25	37.50	0.00	0.0	25.6046	-16.99	1497.87	0.011
L2	157.5 - 116.75 (2)	TP40.839x32.0179x0.3125	45.00	0.00	0.0	39.1765	-27.39	2291.82	0.012
L3	116.75 - 77 (3)	TP48.006x39.1849x0.375	45.00	0.00	0.0	55.2929	-38.04	3234.63	0.012
L4	77 - 38 (4)	TP54.901x46.0798x0.375	45.00	0.00	0.0	63.2663	-50.37	3701.08	0.014
L5	38 - 0 (5)	TP61.6x52.7788x0.4375	45.00	0.00	0.0	84.9318	-68.89	4968.51	0.014

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	195 - 157.5 (1)	TP33.351x26x0.25	253.63	1154.72	0.220	0.00	1154.72	0.000
L2	157.5 - 116.75 (2)	TP40.839x32.0179x0.3125	1000.98	2178.16	0.460	0.00	2178.16	0.000
L3	116.75 - 77 (3)	TP48.006x39.1849x0.375	1892.31	3639.87	0.520	0.00	3639.87	0.000
L4	77 - 38 (4)	TP54.901x46.0798x0.375	2864.72	4539.82	0.631	0.00	4539.82	0.000
L5	38 - 0 (5)	TP61.6x52.7788x0.4375	4122.12	7050.74	0.585	0.00	7050.74	0.000

tnxTower TEP 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	Job	Monroe-1/Rt 25 (BU 826053)	Page	17 of 17
	Project	TEP No. 217657.1095273	Date	20:32:40 04/27/25
	Client	Crown Castle	Designed by	onovikov

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	195 - 157.5 (1)	TP33.351x26x0.25	15.88	449.36	0.035	0.15	1269.83	0.000
L2	157.5 - 116.75 (2)	TP40.839x32.0179x0.3125	21.34	687.55	0.031	0.08	2378.21	0.000
L3	116.75 - 77 (3)	TP48.006x39.1849x0.375	24.29	970.39	0.025	0.01	3947.82	0.000
L4	77 - 38 (4)	TP54.901x46.0798x0.375	26.74	1110.32	0.024	0.06	5168.50	0.000
L5	38 - 0 (5)	TP61.6x52.7788x0.4375	29.02	1490.55	0.019	0.14	7983.85	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	195 - 157.5 (1)	0.011	0.220	0.000	0.035	0.000	0.232	1.050	
L2	157.5 - 116.75 (2)	0.012	0.460	0.000	0.031	0.000	0.472	1.050	
L3	116.75 - 77 (3)	0.012	0.520	0.000	0.025	0.000	0.532	1.050	
L4	77 - 38 (4)	0.014	0.631	0.000	0.024	0.000	0.645	1.050	
L5	38 - 0 (5)	0.014	0.585	0.000	0.019	0.000	0.599	1.050	

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	195 - 157.5	Pole	TP33.351x26x0.25	1	-16.99	1572.76	22.1	Pass
L2	157.5 - 116.75	Pole	TP40.839x32.0179x0.3125	2	-27.39	2406.41	45.0	Pass
L3	116.75 - 77	Pole	TP48.006x39.1849x0.375	3	-38.04	3396.36	50.7	Pass
L4	77 - 38	Pole	TP54.901x46.0798x0.375	4	-50.37	3886.13	61.4	Pass
L5	38 - 0	Pole	TP61.6x52.7788x0.4375	5	-68.89	5216.94	57.0	Pass
							Summary	
							Pole (L4)	61.4 Pass
							RATING =	61.4 Pass

APPENDIX B

BASE LEVEL DRAWING



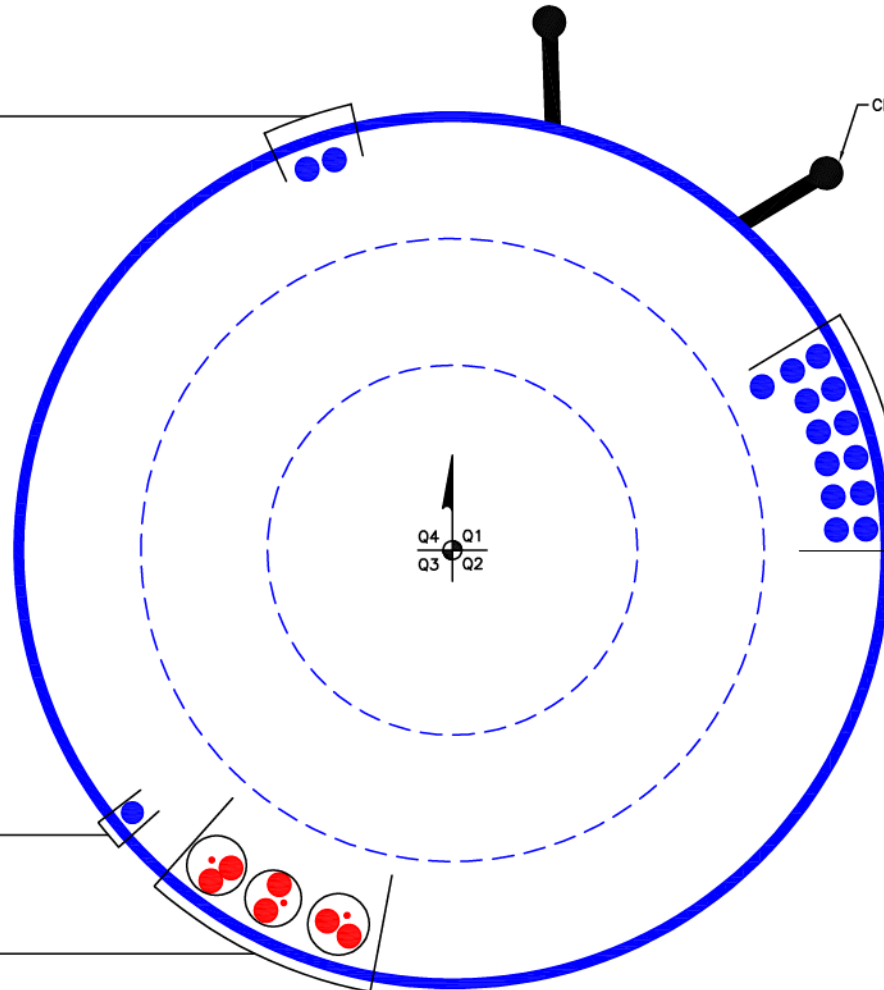
(OTHER CONSIDERED EQUIPMENT)
(2) 1-5/8" TO 165 FT LEVEL

CLIMBING PEGS

(OTHER CONSIDERED EQUIPMENT)
(13) 1-5/8" TO 193 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(1) 1-1/2" TO 144 FT LEVEL

(PROPOSED EQUIPMENT CONFIGURATION)
(3) 3/8" TO 175 FT LEVEL
(6) 7/8" TO 175 FT LEVEL



APPENDIX C

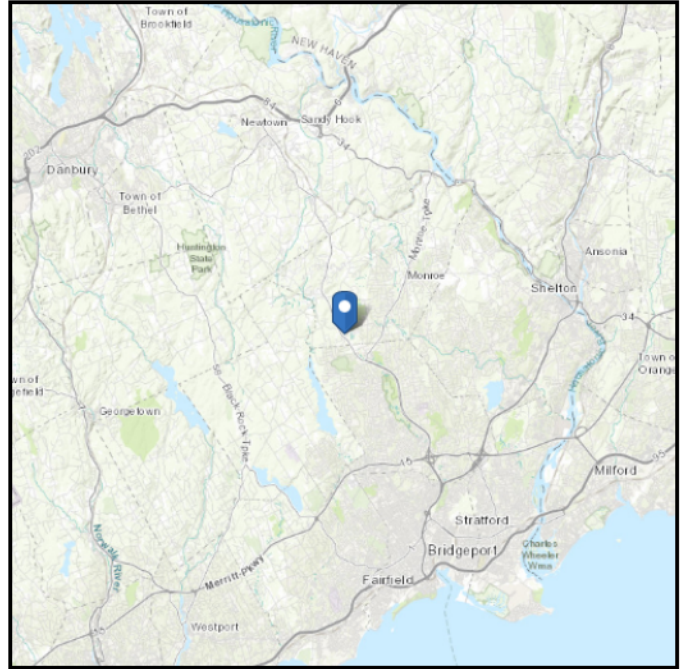
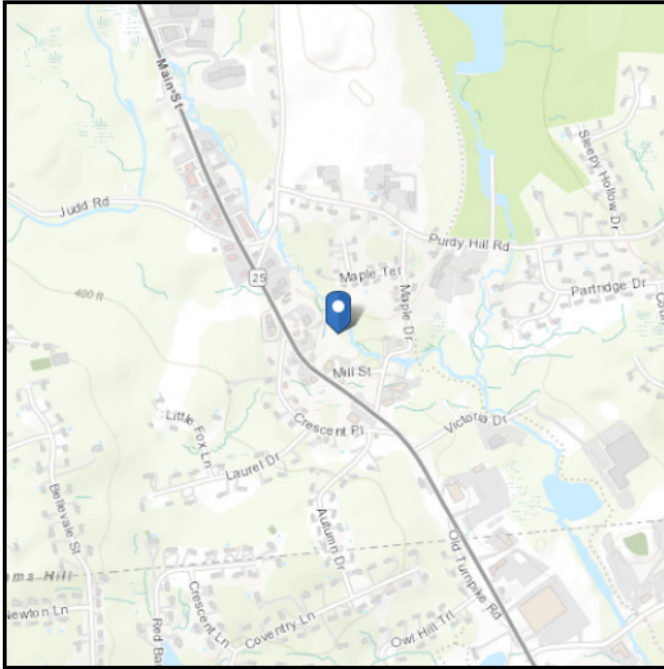
ADDITIONAL CALCULATIONS

ASCE Hazards Report

Address:
No Address at This Location

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

Latitude: 41.301683
Longitude: -73.250811
Elevation: 324.27821358556395 ft
(NAVD 88)



Wind

Results:

Wind Speed	117 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Sun Apr 27 2025

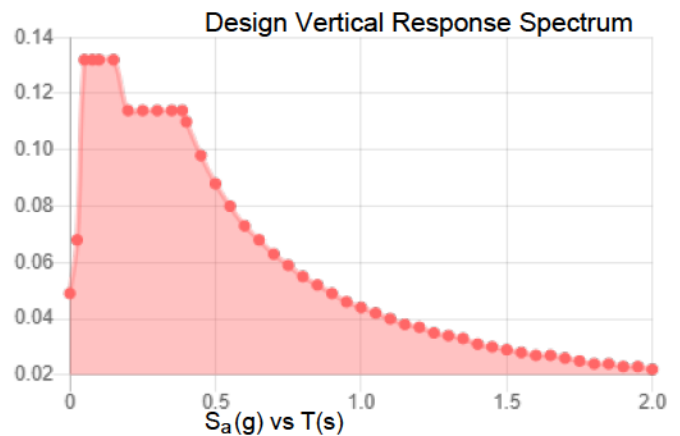
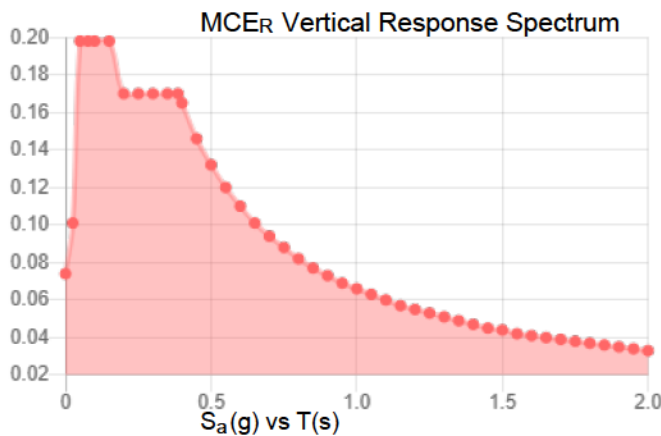
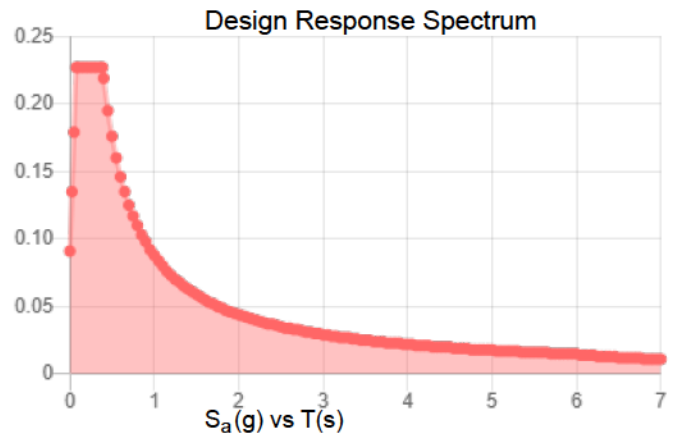
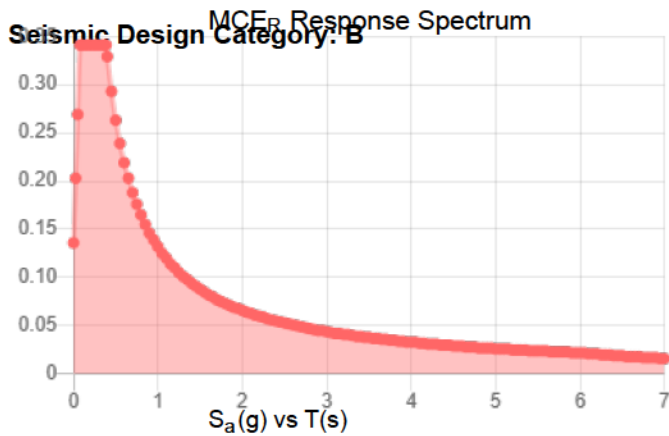
Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance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

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

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

Results:

S_s :	0.213	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.121
F_v :	2.4	PGA _M :	0.189
S_{MS} :	0.341	F_{PGA} :	1.557
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.227	C_v :	0.726



Data Accessed: Sun Apr 27 2025

Date Source:

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

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed 50 mph

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

Date Accessed: Sun Apr 27 2025

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

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

The ASCE 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 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.

Monopole Base Plate Connection

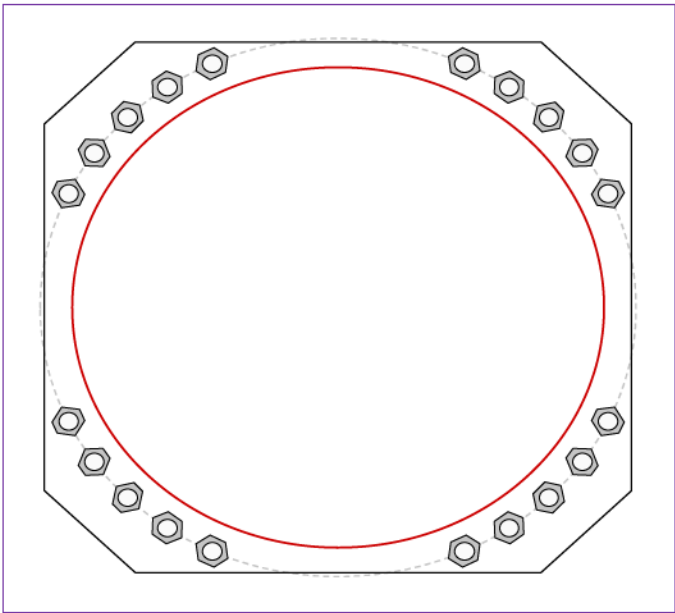


Site Info	
BU #	826053
Site Name	Monroe-1/Rt 25
Order #	699531 Rev. 2

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	2.75

Applied Loads	
Moment (kip-ft)	4122.11
Axial Force (kips)	68.89
Shear Force (kips)	29.02

*TIA-222-H Section 15.5 Applied



Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary (units of kips, kip-in)	
(20) 2-1/4" ϕ bolts (A615-75 N; F_y =75 ksi, F_u =100 ksi) on 69" BC Anchor Spacing: 6 in		Pu_t = 139.87	ϕPn_t = 243.75 Stress Rating
		Vu = 1.45	ϕVn = 149.1 54.7%
		Mu = 2.59	ϕMn = 128.14 Pass
Base Plate Data		Base Plate Summary	
68" W x 3" Plate (A572-55; F_y =55 ksi, F_u =70 ksi); Clip: 10.5 in		Max Stress (ksi):	24.59 (Flexural)
Stiffener Data		Allowable Stress (ksi):	49.5
N/A		Stress Rating:	47.3% Pass
Pole Data			
61.6" x 0.4375" 18-sided pole (A607-65; F_y =65 ksi, F_u =80 ksi)			

Drilled Pier Foundation

BU #:	826053
Site Name:	Monroe-1/Rt 25
Order Number:	699531 Rev. 2
TIA-222 Revision:	H
Tower Type:	Monopole

Report File: G:\Shared drives\216520 - 218089\217657P-475414_L-1095273_826053_Monroe-1Rt 25_Structural Analy



Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	4122.11	
Axial Force (kips)	68.9	
Shear Force (kips)	28.98	

Material Properties		
Concrete Strength, f _c :	4.5	ksi
Rebar Strength, F _y :	60	ksi
Tie Yield Strength, F _y :	40	ksi

Pier Design Data		
Depth	37	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
From 0.5' above grade to 37' below grade		
Pier Diameter	8	ft
Rebar Quantity	28	
Rebar Size	11	
Clear Cover to Ties	4	in
Tie Size	5	
Tie Spacing	18	in

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Analysis Results		
Soil Lateral Check	Compression	Uplift
D _{req} (ft from TOC)	14.85	-
Soil Safety Factor	3.55	-
Max Moment (kip-ft)	4539.39	-
Rating*	35.7%	-

Soil Vertical Check	Compression	Uplift
Skin Friction (kips)	678.58	-
End Bearing (kips)	1130.97	-
Weight of Concrete (kips)	211.27	-
Total Capacity (kips)	1809.56	-
Axial (kips)	280.17	-
Rating*	14.7%	-

Reinforced Concrete Flexure	Compression	Uplift
Critical Depth (ft from TOC)	14.89	-
Critical Moment (kip-ft)	4539.38	-
Critical Moment Capacity	8364.83	-
Rating*	51.7%	-

Reinforced Concrete Shear	Compression	Uplift
Critical Depth (ft from TOC)	28.29	-
Critical Shear (kip)	410.07	-
Critical Shear Capacity	807.65	-
Rating*	48.4%	-

Structural Foundation Rating*	51.7%
Soil Interaction Rating*	35.7%

*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
N/A	<input type="checkbox"/>
Design Options	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Consider non-tapered moment capacity:	<input type="checkbox"/>
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

[Go to Soil Calculations](#)

Soil Profile														
Groundwater Depth		3	# of Layers		3									
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	V _{soil} (pcf)	V _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3	3	115	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3	13	10	52.6	87.6	0	0	0.000	0.000	0.00	0.00			Cohesionless
3	13	37	24	52.6	87.6	0	34	0.000	0.000	1.50	1.50	30		Cohesionless



February 26, 2025

Michael Street
Jacobs Telecommunications, Inc.
450 Raritan Center Parkway
Edison, NJ 08837
(732) 225-3330

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

Subject: **Appurtenance Mount Modification Report**

Carrier Designation: **Site Number:** 10071138
Site Name: Monoe South
IWM Job Number: WSCTB0028153

Engineering Firm Designation: **Project Number:** 173228.001.01.0003

Site Data: **88 Main Street, Monroe, CT, 06468, Fairfield County**
Latitude 41.30165°, Longitude -73.25078°
195' Monopole
Existing (1) 12.5' Platform Mount

Dear Michael Street,

We are pleased to submit this “**Appurtenance Mount Modification Report**” to determine the structural integrity of the antenna mount on the above-mentioned structure.

The purpose of the analysis is to determine acceptability of the mount’s stress level. Based on our analysis we have determined the stress level for the mount under the following load case to be:

Existing + Proposed Equipment

Note: See Table 1 for the final loading configuration

Sufficient Capacity

(Passing at 58.4%)

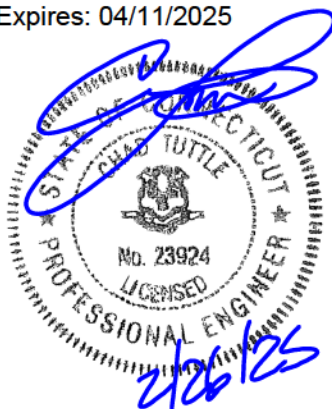
This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2022 Connecticut State Building Code. Applicable standard references and design criteria are listed in Section 2 - Analysis Criteria.

All modifications and equipment proposed in this report shall be installed in accordance with the drawings for the determined available structural capacity to be effective.

We appreciate the opportunity of providing our continuing professional services to you and *Jacobs Telecommunications, Inc.* If you have any questions or need further assistance on this or any other projects, please give us a call.

Mount structural analysis prepared by: Luke Antloger

Respectfully submitted by: MTS Engineering, P.L.L.C.
COA: PEC.0002304 Expires: 04/11/2025



Chad E. Tuttle, P.E.

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3.2) Assumptions

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Modification Drawings

1) INTRODUCTION

The appurtenance mount consists of existing platform mount at 175 ft., attached to monopole at 88 Main Street, Monroe, CT, 06468, Fairfield County. The proposed antenna loading information was obtained from Jacobs Telecommunications, Inc. All information provided to us was assumed accurate and complete.

2) ANALYSIS CRITERIA

The structural analysis was performed for this mount in accordance with the ANSI/TIA-222-H-2017 Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures, ATT-790-202-083 MACRO Build Standards and ATT-002-291-373 Mount Technical Guidance using a 3-second gust wind speed of 117 mph with no ice and 50 mph with 1 inch escalated ice thickness Exposure Category B, Topographic Category 1 and Risk Category II were used in this analysis.

In addition, the platform mount has been analyzed for various live loading conditions consisting of a 250-lb man live load applied individually at the midpoint and cantilevered ends of horizontal members as well as a 250-lb man live load applied individually at mount pipe locations using a 3-second gust of 30mph. The mount was analyzed under 30° increments in the wind direction.

The analyzed loading is detailed in Table 1.

Table 1 – Proposed and Existing Equipment Information

Loading	RAD Center Elev. (ft.)	Position	Qty.	Manufacturer	Model / Type	Note
Proposed	176.5	3	3	Ericsson	AIR6472 B77G B77M	1
		2,4	6	CCI	TPA65R-BU6DV2	
	175	-	3	Ericsson	4494 B14/B29	2
			3	Ericsson	4890 B25/B66	
			3	Ericsson	4490 B5/B12A	
Existing	175	-	3	Ericsson	RRUS-32 B30	3
			3	Raycap	DC6-48-60-18-8F	

Note:

- (1) Proposed Antenna to be installed on the proposed Mount Pipes.
- (2) Proposed Equipment to be installed on the proposed Equipment Mounting Pipes.
- (3) Existing Equipment to be installed on the proposed Equipment Mounting Pipes.

Table 2 – Documents Provided

Documents	Remarks	Reference	Source
10071138_WSCTB0028153_C T5189_DE130 – DE130	Existing Loading Proposed Loading	-	Jacobs Telecommunications, Inc.
RFDS		Date: 10/04/2024	
Redlined PCD's Rev.A	MTS Engineering, P.L.L.C.	Date: 10/16/2024	On File
Mount Analysis Report	Hudson Design Group LLC	Date: 06/11/2018	Jacobs Telecommunications, Inc.
Failing Mount Analysis Report	MTS Engineering, P.L.L.C.	Date: 12/03/2024	On File

3) ANALYSIS PROCEDURE

3.1) Analysis Method

RISA-3D (Version 22.0.1), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses and deflections for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

1. The mount was built in accordance with the manufacturer's specifications.
2. The mount has been maintained in accordance with the manufacturer's specifications and is free of damage.
3. The configuration of antennas and other appurtenances are as specified in Table 1.
4. All mount components have been assumed to be in sufficient condition to carry their full design capacity for the analysis.
5. Mount areas and weights are determined from field measurements, standard material properties, and/or manufacturer product data.

The following assumptions have been included in the analysis of the mount

Component	Section	Length	Note
Existing Mount Pipes	2" Std. Pipe	6'-0"	Pos. 1, All Sectors

6. Serviceability with respect to antenna twist, tilt, roll or lateral translation is not checked and is left to the carrier or tower owner to ensure conformance.
7. All prior structural modifications, if any are assumed to be correctly installed and fully effective.
8. 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.
9. The following material grades were assumed (Unless Noted Otherwise):
 - a) Connection Bolts : ASTM A325
 - b) Steel Pipe : ASTM A53 (GR. 35)
 - c) HSS (Round) : ASTM 500 (GR. B-42)
 - d) HSS (Rectangular) : ASTM 500 (GR. B-46)
 - e) Channel : ASTM A36 (GR. 36)
 - f) Steel Solid Rod : ASTM A36 (GR. 36)
 - g) Steel Plate : ASTM A36 (GR. 36)
 - h) Steel Angle : ASTM A36 (GR. 36)
 - i) UNISTRUT : ASTM A570 (GR. 33)

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

4) ANALYSIS RESULTS

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

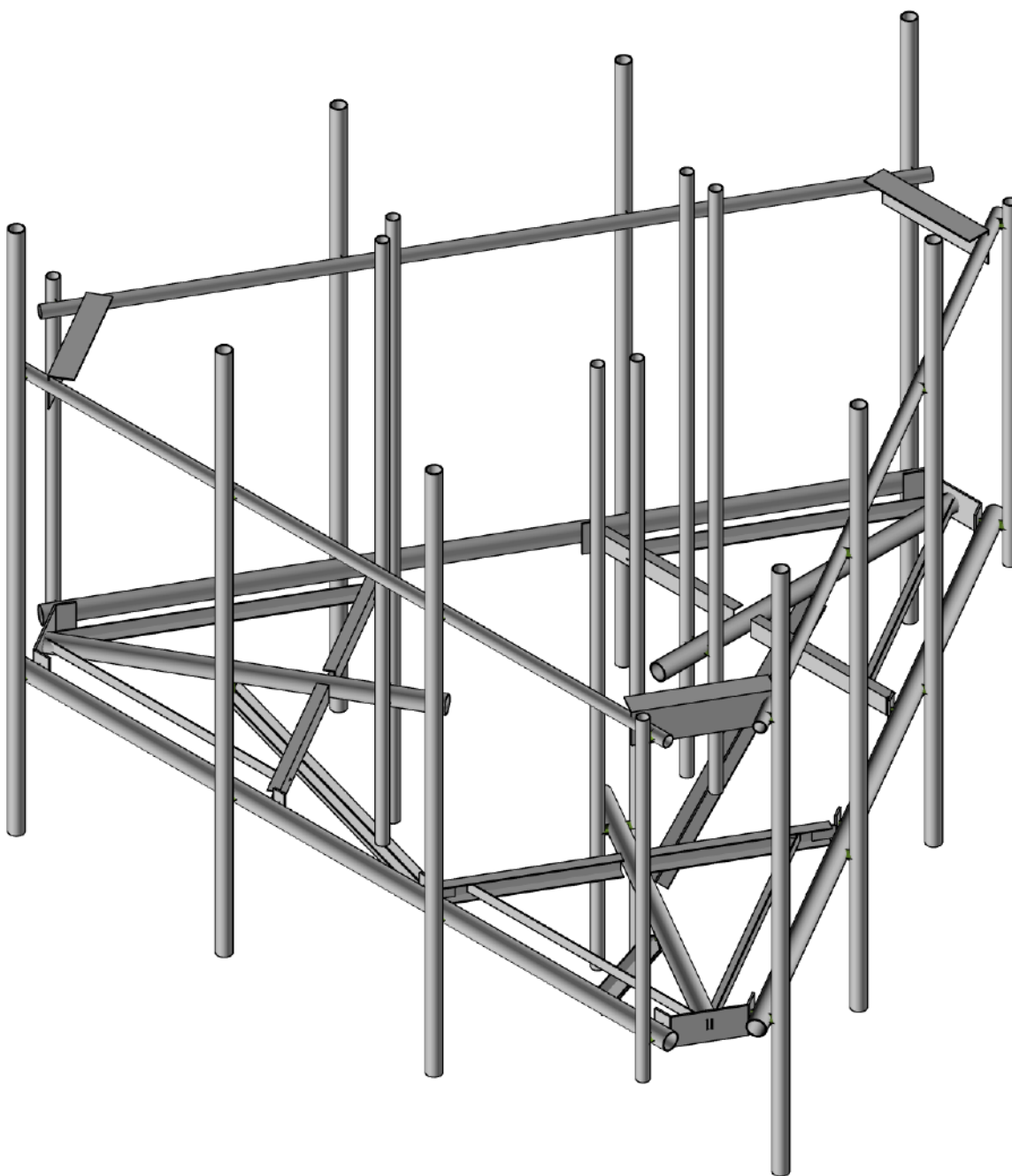
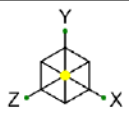
Notes	Component	Elevation (ft.)	% Capacity	Pass / Fail
-	Main Horizontals	175	18.5	Pass
-	Support Arms	175	58.4	Pass
-	Support Channels	175	38.3	Pass
-	Support Angles	175	43.8	Pass
-	Mount Pipes	175	41.9	Pass
-	Connection Plates	175	34.0	Pass
-	Support Rails	175	41.6	Pass
-	Support Rail Connection Angles	175	35.0	Pass
-	Equipment Mounting Pipes	175	46.3	Pass
-	Additional kicker Angles	175	10.1	Pass
-	Connection Bolts	175	28.2	Pass-

4.1) Structural Notes:

- 1) All modifications proposed in this report shall be installed in accordance with the attached drawing for the determined available structural capacity to be effective.
- 2) If the loading differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 3) MTS Engineering, P.L.L.C. certifies that carrier's entire antenna structure will support the equipment deployment.
- 4) No erection or modification of the structure shall be made without approval of the structural engineer.

APPENDIX A

(RISA-3D Output)



Envelope Only Solution



MTS Engineering, P.L.L.C.

MP

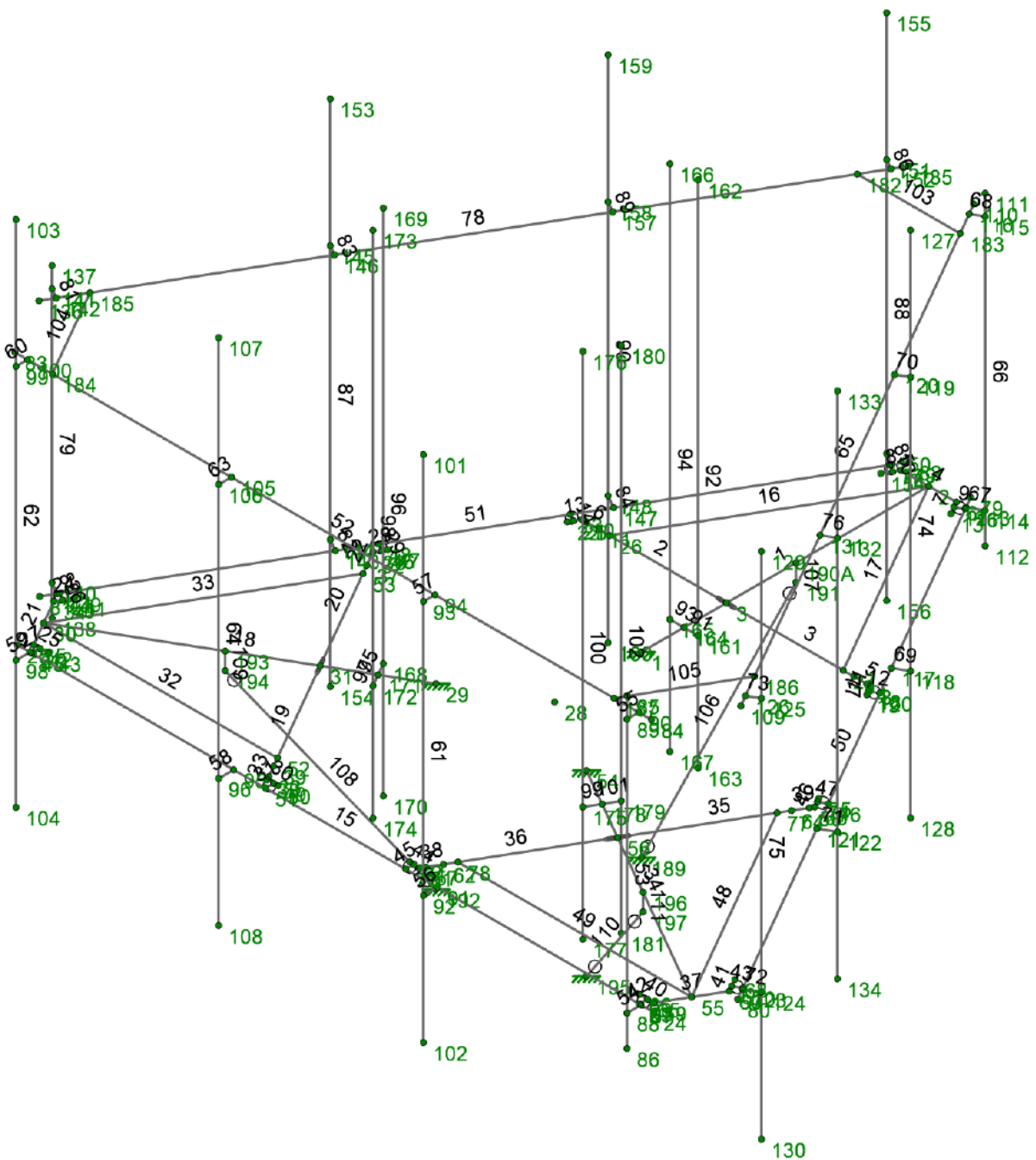
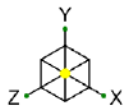
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10071138 - Monoe South

SK-1

Feb 26, 2025 at 11:01 AM

173228_001_01_0003_Mon...



Envelope Only Solution



MTS Engineering, P.L.L.C.

MP

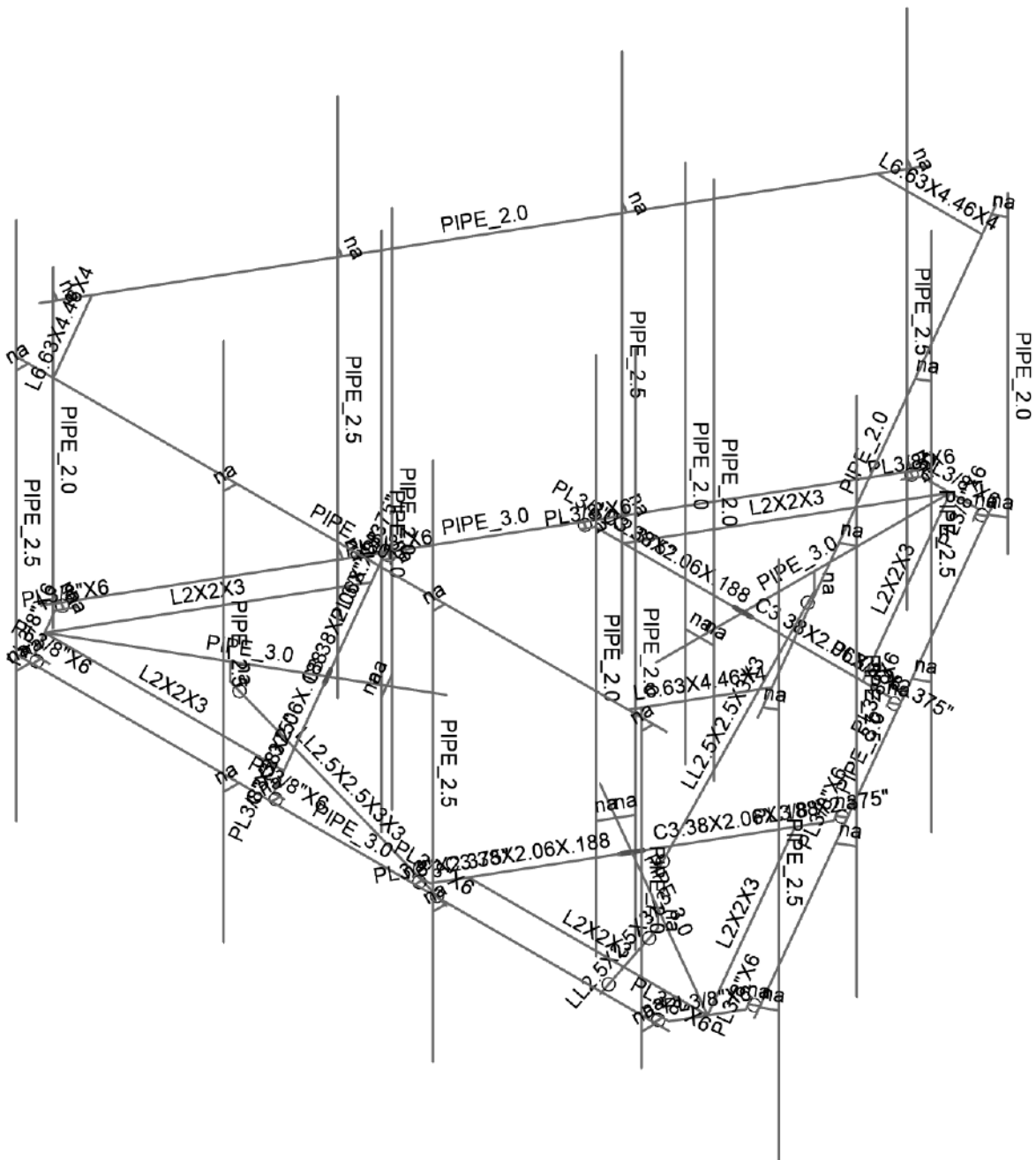
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10071138 - Monoe South

SK-2

Feb 26, 2025 at 11:01 AM

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Envelope Only Solution



MTS Engineering, P.L.L.C.

MP

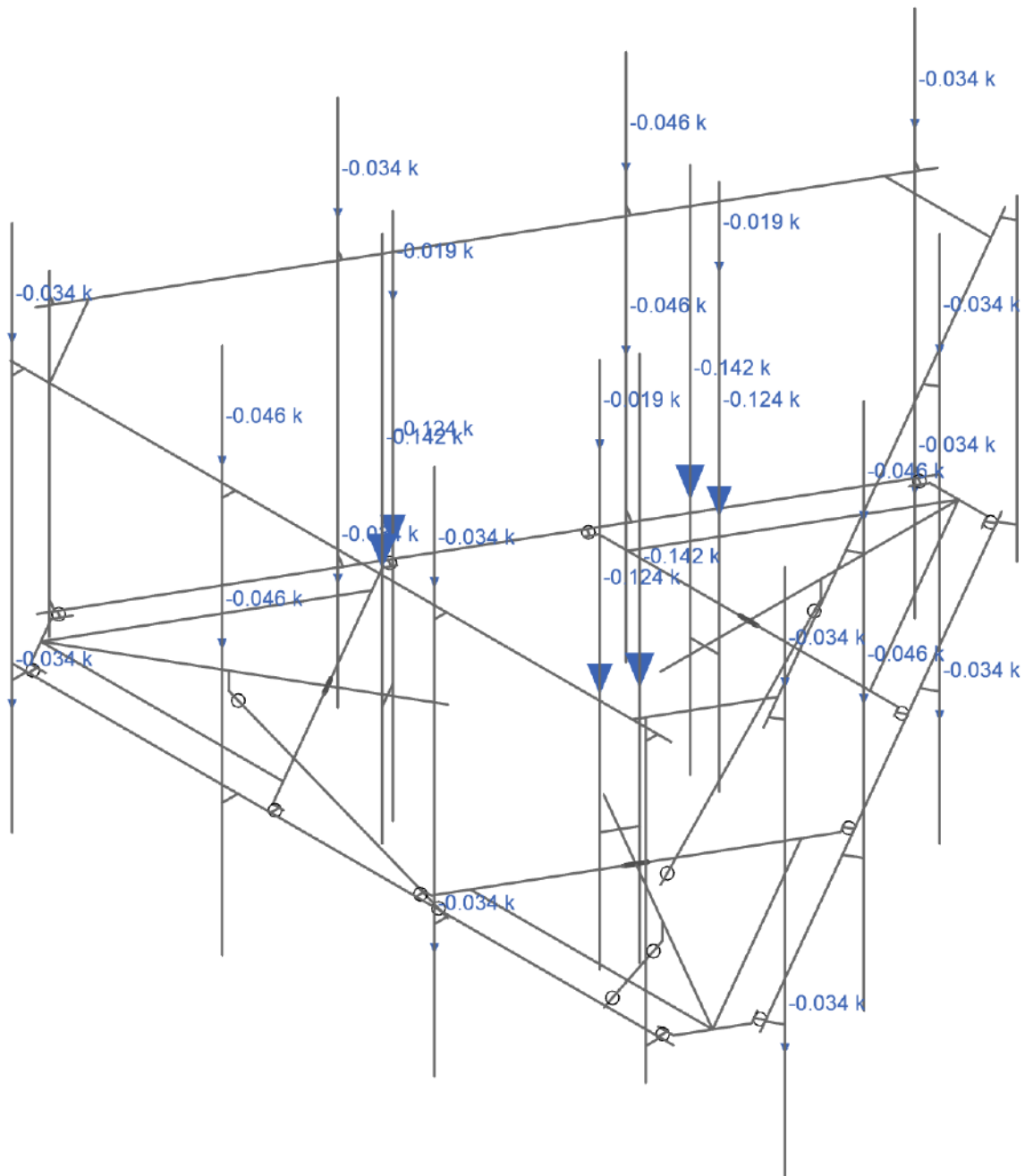
173228.001.01.0003

10071138 - Monoe South

SK-3

Feb 26, 2025 at 11:01 AM

173228_001_01_0003_Mon...



Loads: BLC 1, Dead
Envelope Only Solution



MTS Engineering, P.L.L.C.

MP

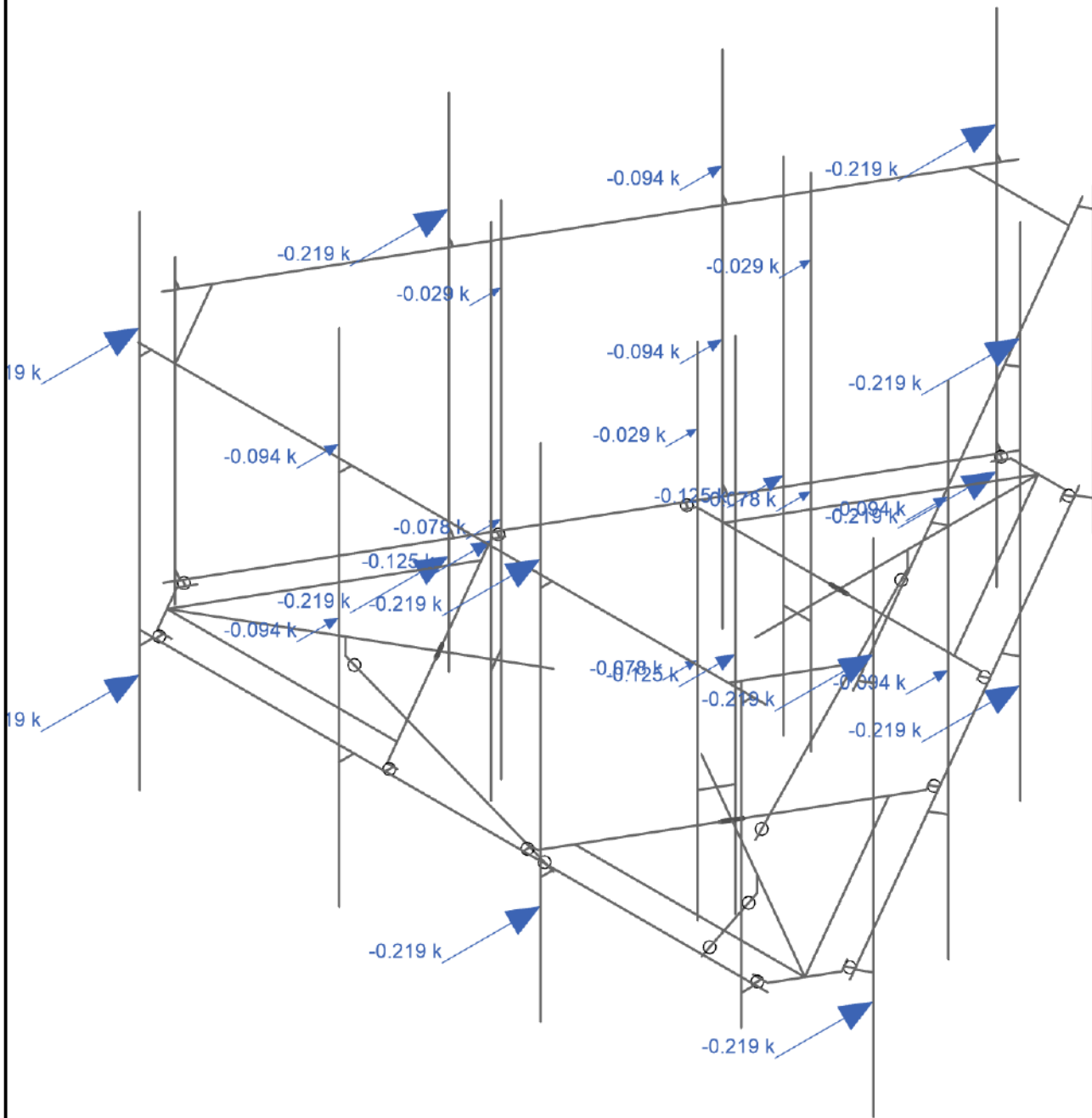
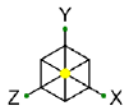
173228.001.01.0003

10071138 - Monoe South

SK-6

Feb 26, 2025 at 11:02 AM

173228_001_01_0003_Mon...



Loads: BLC 2, 0 Wind
Envelope Only Solution



MTS Engineering, P.L.L.C.

MP

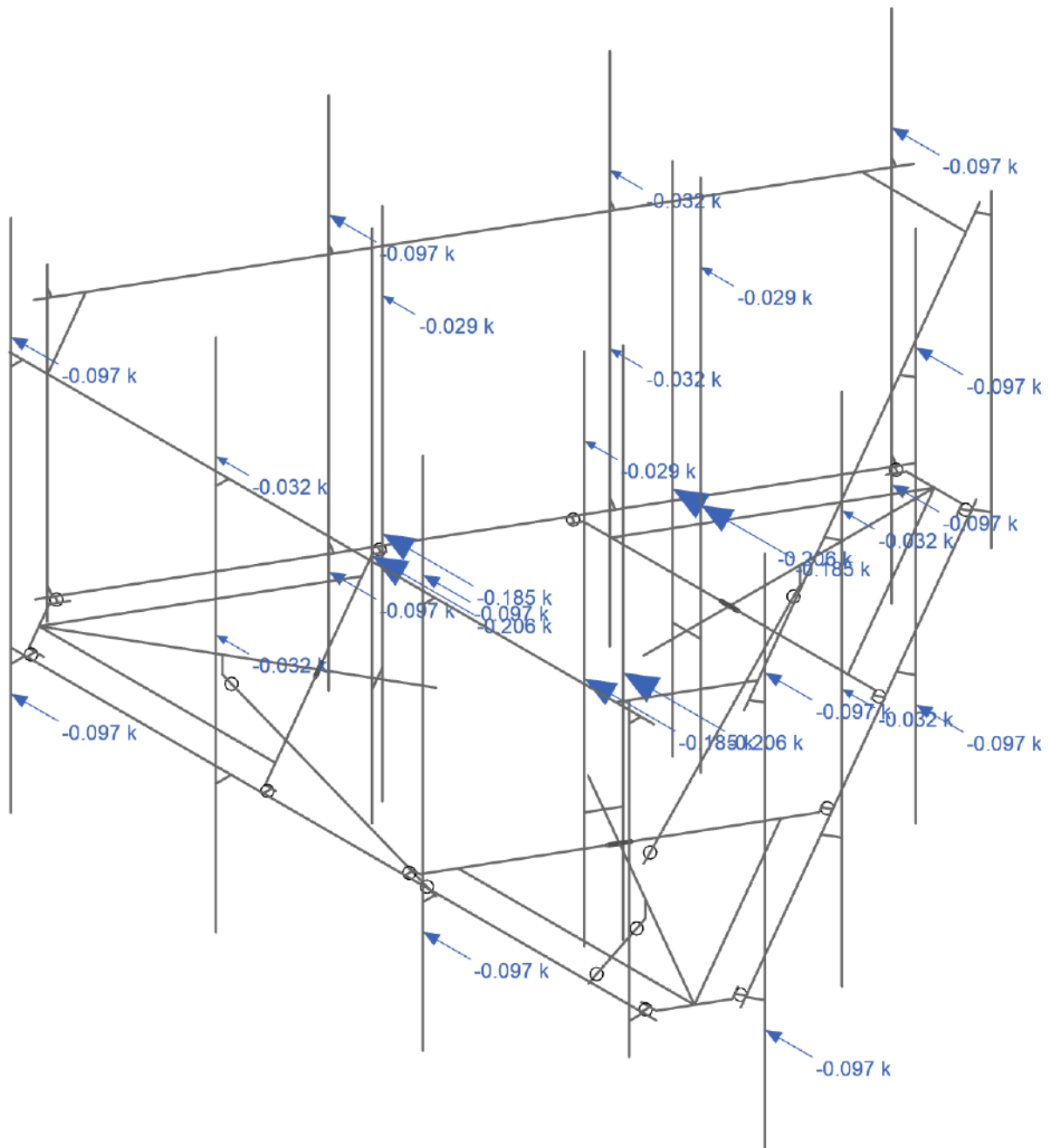
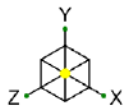
173228.001.01.0003

10071138 - Monoe South

SK-7

Feb 26, 2025 at 11:02 AM

173228_001_01_0003_Mon...



Loads: BLC 5, 90 Wind
Envelope Only Solution



MTS Engineering, P.L.L.C.

MP

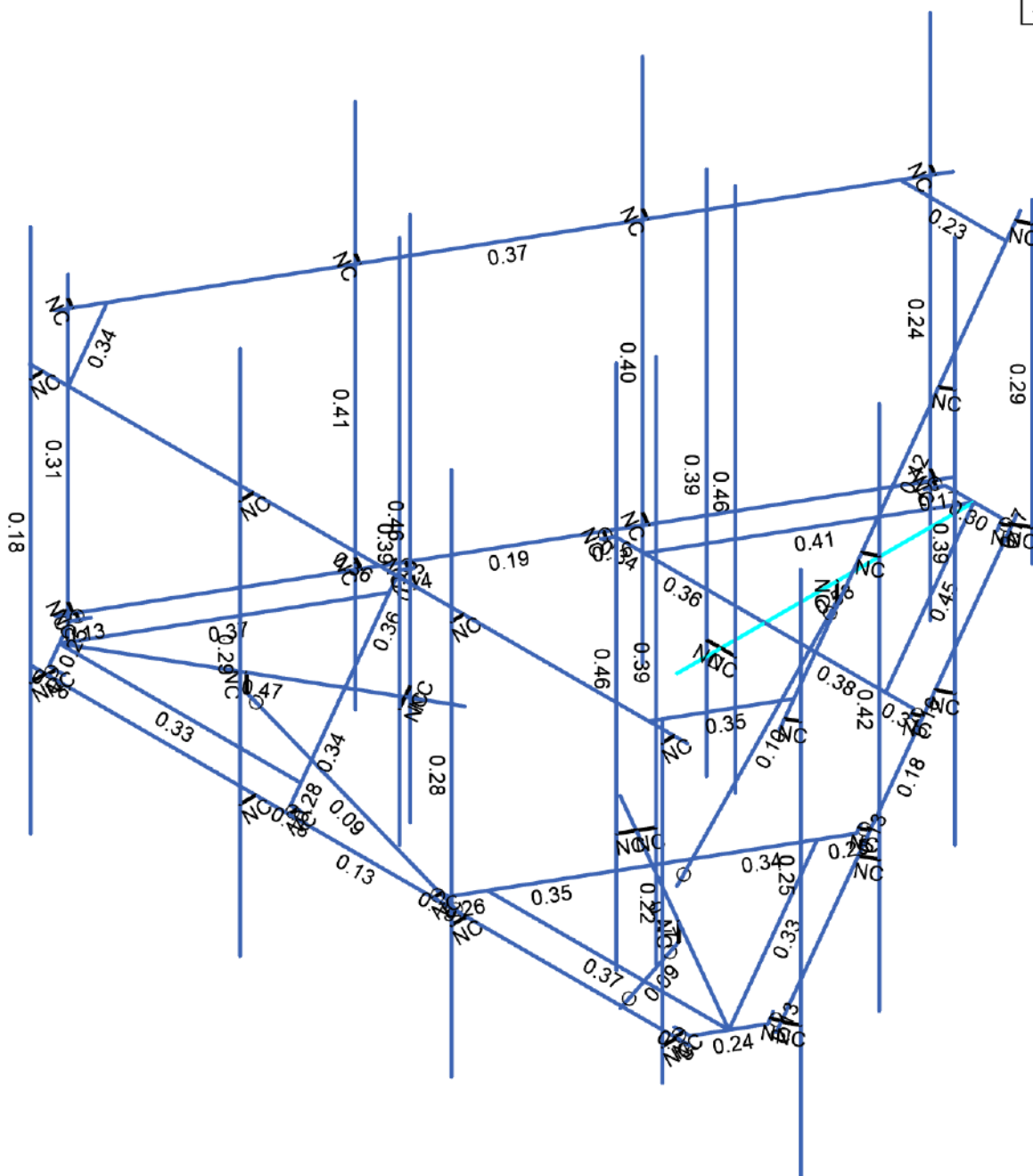
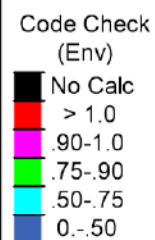
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10071138 - Monoe South

SK-8

Feb 26, 2025 at 11:02 AM

173228_001_01_0003_Mon...



Member Code Checks Displayed (Enveloped)
Envelope Only Solution



MP

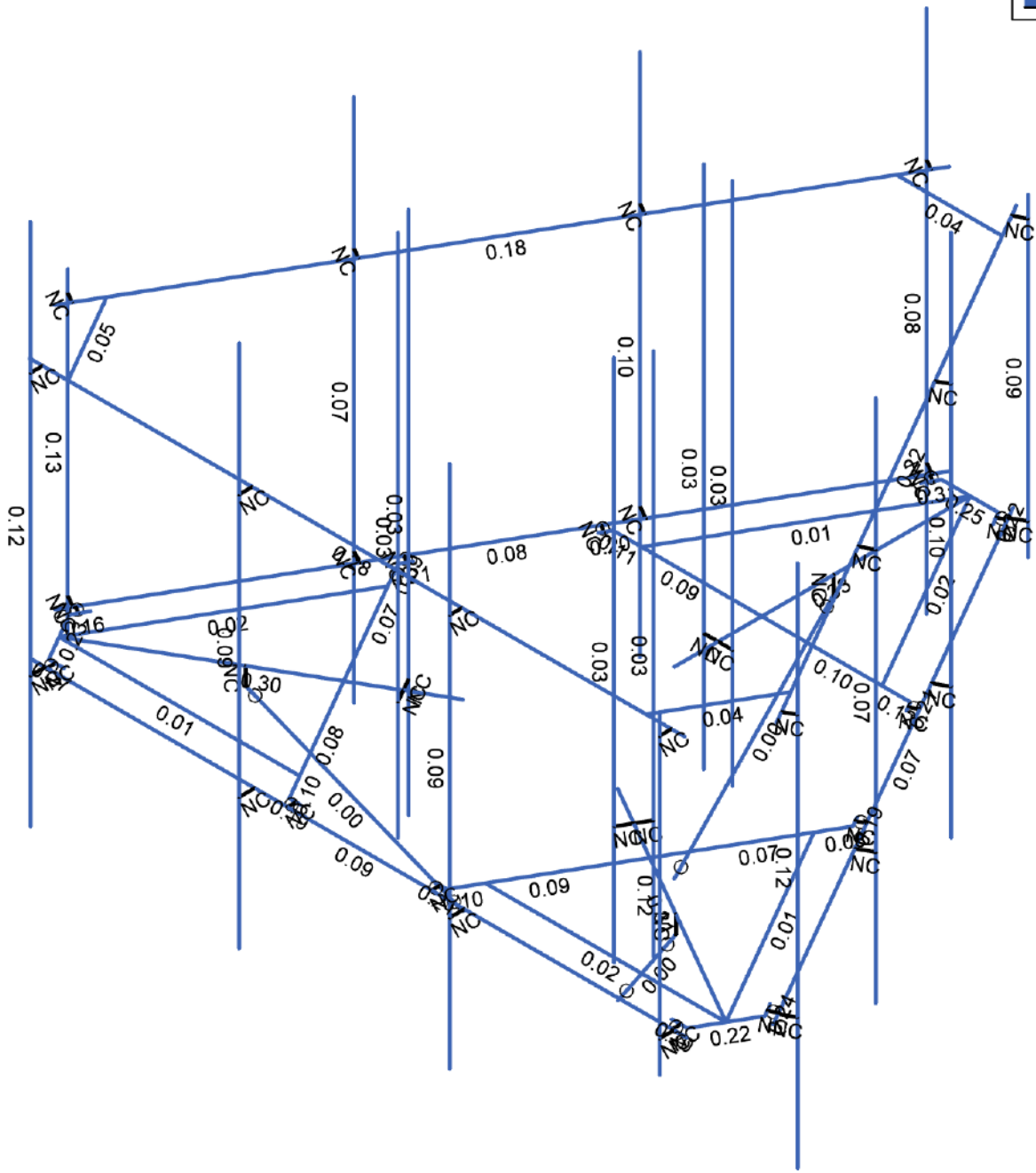
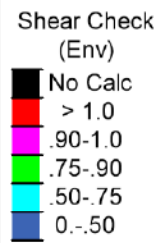
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10071138 - Monoe South

SK-4

Feb 26, 2025 at 11:01 AM

173228_001_01_0003_Mon...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution



MTS Engineering, P.L.L.C.
MP
173228.001.01.0003

10071138 - Monoe South

SK-5
Feb 26, 2025 at 11:01 AM
173228_001_01_0003_Mon...

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	1	0	0	-1.705	
2	2	0	0	-7.346667	
3	3	0	0	-3.371667	
4	4	2.758333	0	-3.371667	
5	5	-2.758333	0	-3.371667	
6	6	0.541667	0	-7.346667	
7	7	-0.541667	0	-7.346667	
8	8	2.836634	0	-3.371667	
9	9	2.503333	0	-3.371667	
10	10	-2.836634	0	-3.371667	
11	11	-2.503333	0	-3.371667	
12	12	0.604167	0	-7.238413	
13	13	0.6875	0	-7.094076	
14	14	-0.604167	0	-7.238413	
15	15	-0.6875	0	-7.094076	
16	16	0.743994	0	-7.319143	
17	17	-0.743994	0	-7.319143	
18	18	2.899134	0	-3.263413	
19	19	2.940801	0	-3.191245	
20	20	3.038961	0	-3.344143	
21	21	-2.899134	0	-3.263413	
22	22	-2.940801	0	-3.191245	
23	23	-3.038961	0	-3.344143	
24	24	6.25	0	4.303889	
25	25	-6.25	0	4.303889	
26	26	-2.294967	0	-3.371667	
27	27	2.294967	0	-3.371667	
28	28	0	0	0	
29	29	-1.476573	0	0.8525	
30	30	-6.3624	0	3.673333	
31	31	-2.919949	0	1.685833	
32	32	-4.299116	0	-0.702953	
33	33	-1.540782	0	4.07462	
34	34	-6.633233	0	3.204236	
35	35	-6.091567	0	4.14243	
36	36	-4.338266	0	-0.770764	
37	37	-4.171616	0	-0.482117	
38	38	-1.501632	0	4.14243	
39	39	-1.668282	0	3.853784	
40	40	-6.570733	0	3.095983	
41	41	-6.4874	0	2.951645	
42	42	-5.966567	0	4.14243	
43	43	-5.7999	0	4.14243	
44	44	-6.71056	0	3.015254	
45	45	-5.966567	0	4.303889	
46	46	-4.275766	0	-0.879017	
47	47	-4.234099	0	-0.951186	
48	48	-4.415593	0	-0.959746	
49	49	-1.376632	0	4.14243	
50	50	-1.293299	0	4.14243	
51	51	-1.376632	0	4.303889	
52	52	-1.772465	0	3.673333	
53	53	-4.067433	0	-0.301667	
54	54	1.476573	0	0.8525	
55	55	6.3624	0	3.673333	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
56	56	2.919949	0	1.685833	
57	57	1.540782	0	4.07462	
58	58	4.299116	0	-0.702953	
59	59	6.091567	0	4.14243	
60	60	6.633233	0	3.204236	
61	61	1.501632	0	4.14243	
62	62	1.668282	0	3.853784	
63	63	4.338266	0	-0.770764	
64	64	4.171616	0	-0.482117	
65	65	5.966567	0	4.14243	
66	66	5.7999	0	4.14243	
67	67	6.570733	0	3.095983	
68	68	6.4874	0	2.951645	
69	69	5.966567	0	4.303889	
70	70	6.71056	0	3.015254	
71	71	1.376632	0	4.14243	
72	72	1.293299	0	4.14243	
73	73	1.376632	0	4.303889	
74	74	4.275766	0	-0.879017	
75	75	4.234099	0	-0.951186	
76	76	4.415593	0	-0.959746	
77	77	4.067433	0	-0.301667	
78	78	1.772465	0	3.673333	
79	79	0.602277	0	-7.564603	
80	80	6.852277	0	3.260714	
81	81	-6.852277	0	3.260714	
82	82	-0.602277	0	-7.564603	
83	83	-6.25	5	4.350732	
84	84	6.25	5	4.350732	
85	85	6	5.395941	4.579932	
86	86	6	-0.604059	4.579932	
87	87	6	0	4.303889	
88	88	6	0	4.579932	
89	89	6	5	4.579932	
90	90	6	5	4.350732	
91	91	2	0	4.303889	
92	92	2	0	4.579932	
93	93	2	5	4.579932	
94	94	2	5	4.350732	
95	95	-2	0	4.303889	
96	96	-2	0	4.600732	
97	97	-6	0	4.303889	
98	98	-6	0	4.579932	
99	99	-6	5	4.579932	
100	100	-6	5	4.350732	
101	101	2	7.5	4.579932	
102	102	2	-2.5	4.579932	
103	103	-6	7.5	4.579932	
104	104	-6	-2.5	4.579932	
105	105	-2	5	4.350732	
106	106	-2	5	4.600732	
107	107	-2	7.5	4.600732	
108	108	-2	-2.5	4.600732	
109	109	6.892844	5	3.237293	
110	110	0.642844	5	-7.588025	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
111	111	0.966337	5.395941	-7.486118	
112	112	0.966337	-0.604059	-7.486118	
113	113	0.727277	0	-7.348097	
114	114	0.966337	0	-7.486118	
115	115	0.966337	5	-7.486118	
116	116	0.767844	5	-7.371518	
117	117	2.727277	0	-3.883995	
118	118	2.966337	0	-4.022017	
119	119	2.966337	5	-4.022017	
120	120	2.767844	5	-3.907417	
121	121	4.727277	0	-0.419894	
122	122	4.98435	0	-0.568315	
123	123	6.727277	0	3.044208	
124	124	6.966337	0	2.906187	
125	125	6.966337	5	2.906187	
126	126	6.767844	5	3.020787	
127	127	2.966337	7.5	-4.022017	
128	128	2.966337	-2.5	-4.022017	
129	129	6.966337	7.5	2.906187	
130	130	6.966337	-2.5	2.906187	
131	131	4.767844	5	-0.443315	
132	132	4.98435	5	-0.568315	
133	133	4.98435	7.5	-0.568315	
134	134	4.98435	-2.5	-0.568315	
135	135	-0.642844	5	-7.588025	
136	136	-6.892844	5	3.237293	
137	137	-6.966337	5.395941	2.906187	
138	138	-6.966337	-0.604059	2.906187	
139	139	-6.727277	0	3.044208	
140	140	-6.966337	0	2.906187	
141	141	-6.966337	5	2.906187	
142	142	-6.767844	5	3.020787	
143	143	-4.727277	0	-0.419894	
144	144	-4.966337	0	-0.557915	
145	145	-4.966337	5	-0.557915	
146	146	-4.767844	5	-0.443315	
147	147	-2.727277	0	-3.883995	
148	148	-2.98435	0	-4.032417	
149	149	-0.727277	0	-7.348097	
150	150	-0.966337	0	-7.486118	
151	151	-0.966337	5	-7.486118	
152	152	-0.767844	5	-7.371518	
153	153	-4.966337	7.5	-0.557915	
154	154	-4.966337	-2.5	-0.557915	
155	155	-0.966337	7.5	-7.486118	
156	156	-0.966337	-2.5	-7.486118	
157	157	-2.767844	5	-3.907417	
158	158	-2.98435	5	-4.032417	
159	159	-2.98435	7.5	-4.032417	
160	160	-2.98435	-2.5	-4.032417	
161	161	0.276	0	-2.538335	
162	162	0.276	7.75	-2.538335	
163	163	0.276	-2.25	-2.538335	
164	164	0	0	-2.538335	
165	165	-0.276	0	-2.538335	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
166	166	-0.276	7.75	-2.538335	
167	167	-0.276	-2.25	-2.538335	
168	168	-2.336263	0	1.030144	
169	169	-2.336263	7.75	1.030144	
170	170	-2.336263	-2.25	1.030144	
171	171	-2.198263	0	1.269168	
172	172	-2.060263	0	1.508191	
173	173	-2.060263	7.75	1.508191	
174	174	-2.060263	-2.25	1.508191	
175	175	2.060263	0	1.508191	
176	176	2.060263	7.75	1.508191	
177	177	2.060263	-2.25	1.508191	
178	178	2.198263	0	1.269168	
179	179	2.336263	0	1.030144	
180	180	2.336263	7.75	1.030144	
181	181	2.336263	-2.25	1.030144	
182	182	-1.01	5	-6.952092	
183	183	1.01	5	-6.952092	
184	184	-5.515688	5	4.350732	
185	185	-6.525688	5	2.60136	
186	186	6.525688	5	2.60136	
187	187	5.515688	5	4.350732	
188	189	0	-3.5	-1.705	
189	190A	0	0	-4.7383	
190	191	0	-0.3333	-4.7383	
191	192	-1.476573	-3.5	0.8525	
192	193	-4.103488	0	2.36915	
193	194	-4.103488	-0.3333	2.36915	
194	195	1.476573	-3.5	0.8525	
195	196	4.103488	0	2.36915	
196	197	4.103488	-0.3333	2.36915	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	29	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	54	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	189	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	190A						
6	191						
7	192	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
8	193						
9	194						
10	195	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
11	196						
12	197						

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [$10^{-6}/^{\circ}\text{F}$]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [$10^{-6}/^{\circ}\text{F}^{-1}$]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
8	A500 Gr.C	29000	11154	0.3	0.65	0.49	46	1.4	62	1.3
9	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
10	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
11	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	I _{yy} [in ⁴]	I _{zz} [in ⁴]	J [in ⁴]
1	MF-H1	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	SF-H1	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
3	SF-H2	C3.38X2.06X.188	Beam	Channel	A36 Gr.36	Typical	1.339	0.562	2.4	0.015
4	SF-H3	L2X2X3	Beam	Single Angle	A36 Gr.36	Typical	0.722	0.271	0.271	0.009
5	MF-P1	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
6	MF-CP1	PL3/8"X6	Beam	RECT	A36 Gr.36	Typical	2.25	0.026	6.75	0.101
7	MF-CP2	PL3/8"X2.375"	Beam	RECT	A36 Gr.36	Typical	0.891	0.01	0.419	0.038
8	MF-H2	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
9	F1-CA1	L6.63X4.46X4	Beam	Single Angle	A36 Gr.36	Typical	2.71	4.764	12.628	0.055
10	RRU-P	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
11	MF-P2	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
12	Kicker	LL2.5X2.5X3X3	VBrace	Double Angle (3/8 Gap)	A36 Gr.36	Typical	1.8	2.46	1.07	0.023

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	1	2	1		SF-H1	Beam	Pipe	A53 Gr.B	Typical
2	2	5	3	180	SF-H2	Beam	Channel	A36 Gr.36	Typical
3	3	3	4	180	SF-H2	Beam	Channel	A36 Gr.36	Typical
4	4	7	6		MF-CP1	Beam	RECT	A36 Gr.36	Typical
5	5	9	8		MF-CP2	Beam	RECT	A36 Gr.36	Typical
6	6	11	10		MF-CP2	Beam	RECT	A36 Gr.36	Typical
7	7	13	6		MF-CP1	Beam	RECT	A36 Gr.36	Typical
8	8	7	15		MF-CP1	Beam	RECT	A36 Gr.36	Typical
9	9	12	16		RIGID	None	None	RIGID	Typical
10	10	14	17		RIGID	None	None	RIGID	Typical
11	11	8	19		MF-CP1	Beam	RECT	A36 Gr.36	Typical
12	12	18	20		RIGID	None	None	RIGID	Typical
13	13	10	22		MF-CP1	Beam	RECT	A36 Gr.36	Typical
14	14	21	23		RIGID	None	None	RIGID	Typical
15	15	25	24		MF-H1	Beam	Pipe	A53 Gr.B	Typical
16	16	26	2		SF-H3	Beam	Single Angle	A36 Gr.36	Typical
17	17	2	27		SF-H3	Beam	Single Angle	A36 Gr.36	Typical
18	18	30	29		SF-H1	Beam	Pipe	A53 Gr.B	Typical
19	19	33	31	180	SF-H2	Beam	Channel	A36 Gr.36	Typical
20	20	31	32	180	SF-H2	Beam	Channel	A36 Gr.36	Typical
21	21	35	34		MF-CP1	Beam	RECT	A36 Gr.36	Typical
22	22	37	36		MF-CP2	Beam	RECT	A36 Gr.36	Typical
23	23	39	38		MF-CP2	Beam	RECT	A36 Gr.36	Typical
24	24	41	34		MF-CP1	Beam	RECT	A36 Gr.36	Typical
25	25	35	43		MF-CP1	Beam	RECT	A36 Gr.36	Typical
26	26	40	44		RIGID	None	None	RIGID	Typical
27	27	42	45		RIGID	None	None	RIGID	Typical
28	28	36	47		MF-CP1	Beam	RECT	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
29	29	46	48		RIGID	None	None	RIGID	Typical
30	30	38	50		MF-CP1	Beam	RECT	A36 Gr.36	Typical
31	31	49	51		RIGID	None	None	RIGID	Typical
32	32	52	30		SF-H3	Beam	Single Angle	A36 Gr.36	Typical
33	33	30	53		SF-H3	Beam	Single Angle	A36 Gr.36	Typical
34	34	55	54		SF-H1	Beam	Pipe	A53 Gr.B	Typical
35	35	58	56	180	SF-H2	Beam	Channel	A36 Gr.36	Typical
36	36	56	57	180	SF-H2	Beam	Channel	A36 Gr.36	Typical
37	37	60	59		MF-CP1	Beam	RECT	A36 Gr.36	Typical
38	38	62	61		MF-CP2	Beam	RECT	A36 Gr.36	Typical
39	39	64	63		MF-CP2	Beam	RECT	A36 Gr.36	Typical
40	40	66	59		MF-CP1	Beam	RECT	A36 Gr.36	Typical
41	41	60	68		MF-CP1	Beam	RECT	A36 Gr.36	Typical
42	42	65	69		RIGID	None	None	RIGID	Typical
43	43	67	70		RIGID	None	None	RIGID	Typical
44	44	61	72		MF-CP1	Beam	RECT	A36 Gr.36	Typical
45	45	71	73		RIGID	None	None	RIGID	Typical
46	46	63	75		MF-CP1	Beam	RECT	A36 Gr.36	Typical
47	47	74	76		RIGID	None	None	RIGID	Typical
48	48	77	55		SF-H3	Beam	Single Angle	A36 Gr.36	Typical
49	49	55	78		SF-H3	Beam	Single Angle	A36 Gr.36	Typical
50	50	80	79		MF-H1	Beam	Pipe	A53 Gr.B	Typical
51	51	82	81		MF-H1	Beam	Pipe	A53 Gr.B	Typical
52	52	83	84		MF-H2	Beam	Pipe	A53 Gr.B	Typical
53	53	85	86		MF-P1	Column	Pipe	A53 Gr.B	Typical
54	54	87	88		RIGID	None	None	RIGID	Typical
55	55	89	90		RIGID	None	None	RIGID	Typical
56	56	91	92		RIGID	None	None	RIGID	Typical
57	57	93	94		RIGID	None	None	RIGID	Typical
58	58	95	96		RIGID	None	None	RIGID	Typical
59	59	97	98		RIGID	None	None	RIGID	Typical
60	60	99	100		RIGID	None	None	RIGID	Typical
61	61	101	102		MF-P2	Column	Pipe	A53 Gr.B	Typical
62	62	103	104		MF-P2	Column	Pipe	A53 Gr.B	Typical
63	63	105	106		RIGID	None	None	RIGID	Typical
64	64	107	108		MF-P2	Column	Pipe	A53 Gr.B	Typical
65	65	109	110		MF-H2	Beam	Pipe	A53 Gr.B	Typical
66	66	111	112		MF-P1	Column	Pipe	A53 Gr.B	Typical
67	67	113	114		RIGID	None	None	RIGID	Typical
68	68	115	116		RIGID	None	None	RIGID	Typical
69	69	117	118		RIGID	None	None	RIGID	Typical
70	70	119	120		RIGID	None	None	RIGID	Typical
71	71	121	122		RIGID	None	None	RIGID	Typical
72	72	123	124		RIGID	None	None	RIGID	Typical
73	73	125	126		RIGID	None	None	RIGID	Typical
74	74	127	128		MF-P2	Column	Pipe	A53 Gr.B	Typical
75	75	129	130		MF-P2	Column	Pipe	A53 Gr.B	Typical
76	76	131	132		RIGID	None	None	RIGID	Typical
77	77	133	134		MF-P2	Column	Pipe	A53 Gr.B	Typical
78	78	135	136		MF-H2	Beam	Pipe	A53 Gr.B	Typical
79	79	137	138		MF-P1	Column	Pipe	A53 Gr.B	Typical
80	80	139	140		RIGID	None	None	RIGID	Typical
81	81	141	142		RIGID	None	None	RIGID	Typical
82	82	143	144		RIGID	None	None	RIGID	Typical
83	83	145	146		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
84	84	147	148		RIGID	None	None	RIGID	Typical
85	85	149	150		RIGID	None	None	RIGID	Typical
86	86	151	152		RIGID	None	None	RIGID	Typical
87	87	153	154		MF-P2	Column	Pipe	A53 Gr.B	Typical
88	88	155	156		MF-P2	Column	Pipe	A53 Gr.B	Typical
89	89	157	158		RIGID	None	None	RIGID	Typical
90	90	159	160		MF-P2	Column	Pipe	A53 Gr.B	Typical
91	91	164	161		RIGID	None	None	RIGID	Typical
92	92	162	163		RRU-P	Column	Pipe	A53 Gr.B	Typical
93	93	164	165		RIGID	None	None	RIGID	Typical
94	94	166	167		RRU-P	Column	Pipe	A53 Gr.B	Typical
95	95	171	168		RIGID	None	None	RIGID	Typical
96	96	169	170		RRU-P	Column	Pipe	A53 Gr.B	Typical
97	97	171	172		RIGID	None	None	RIGID	Typical
98	98	173	174		RRU-P	Column	Pipe	A53 Gr.B	Typical
99	99	178	175		RIGID	None	None	RIGID	Typical
100	100	176	177		RRU-P	Column	Pipe	A53 Gr.B	Typical
101	101	178	179		RIGID	None	None	RIGID	Typical
102	102	180	181		RRU-P	Column	Pipe	A53 Gr.B	Typical
103	103	183	182	180	F1-CA1	Beam	Single Angle	A36 Gr.36	Typical
104	104	185	184	180	F1-CA1	Beam	Single Angle	A36 Gr.36	Typical
105	105	187	186	180	F1-CA1	Beam	Single Angle	A36 Gr.36	Typical
106	106	191	189		Kicker	VBrace	Double Angle (3/8 Gap)	A36 Gr.36	Typical
107	107	190A	191		RIGID	None	None	RIGID	Typical
108	108	194	192		Kicker	VBrace	Double Angle (3/8 Gap)	A36 Gr.36	Typical
109	109	193	194		RIGID	None	None	RIGID	Typical
110	110	197	195		Kicker	VBrace	Double Angle (3/8 Gap)	A36 Gr.36	Typical
111	111	196	197		RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall	Vert Release	Offset [in]	J Offset [in]	Physical	Deflection Ratio	Options	Seismic DR
1	1							Yes	N/A		None
2	2						2	Yes	N/A		None
3	3					2		Yes	N/A		None
4	4							Yes	N/A		None
5	5							Yes	N/A		None
6	6							Yes	N/A		None
7	7							Yes	N/A		None
8	8							Yes	N/A		None
9	9		OOOOOX					Yes	** NA **		None
10	10		OOOOOX					Yes	** NA **		None
11	11							Yes	N/A		None
12	12		OOOOOX					Yes	** NA **		None
13	13							Yes	N/A		None
14	14		OOOOOX					Yes	** NA **		None
15	15							Yes	N/A		None
16	16							Yes	N/A		None
17	17							Yes	N/A		None
18	18							Yes	Default		None
19	19						2	Yes	Default		None
20	20					2		Yes	N/A		None
21	21							Yes	N/A		None
22	22							Yes	N/A		None
23	23							Yes	N/A		None
24	24							Yes	N/A		None

Member Advanced Data (Continued)

Label	I	Release	J	Release	Col-Wall	Vert	Release	Offset [in]	J	Offset [in]	Physical	Deflection	Ratio	Options	Seismic	DR
25	25										Yes	N/A			None	
26	26			OOOOOX							Yes	** NA **			None	
27	27			OOOOOX							Yes	** NA **			None	
28	28										Yes	N/A			None	
29	29			OOOOOX							Yes	** NA **			None	
30	30										Yes	N/A			None	
31	31			OOOOOX							Yes	** NA **			None	
32	32										Yes	N/A			None	
33	33										Yes	N/A			None	
34	34										Yes	N/A			None	
35	35								2		Yes	N/A			None	
36	36							2			Yes	N/A			None	
37	37										Yes	N/A			None	
38	38										Yes	N/A			None	
39	39										Yes	N/A			None	
40	40										Yes	N/A			None	
41	41										Yes	N/A			None	
42	42			OOOOOX							Yes	** NA **			None	
43	43			OOOOOX							Yes	** NA **			None	
44	44										Yes	N/A			None	
45	45			OOOOOX							Yes	** NA **			None	
46	46										Yes	N/A			None	
47	47			OOOOOX							Yes	** NA **			None	
48	48										Yes	N/A			None	
49	49										Yes	N/A			None	
50	50										Yes	N/A			None	
51	51										Yes	N/A			None	
52	52										Yes	N/A			None	
53	53										Yes	** NA **			None	
54	54										Yes	** NA **			None	
55	55										Yes	** NA **			None	
56	56										Yes	** NA **			None	
57	57										Yes	** NA **			None	
58	58										Yes	** NA **			None	
59	59										Yes	** NA **			None	
60	60										Yes	** NA **			None	
61	61										Yes	** NA **			None	
62	62										Yes	** NA **			None	
63	63										Yes	** NA **			None	
64	64										Yes	** NA **			None	
65	65										Yes	N/A			None	
66	66										Yes	** NA **			None	
67	67										Yes	** NA **			None	
68	68										Yes	** NA **			None	
69	69										Yes	** NA **			None	
70	70										Yes	** NA **			None	
71	71										Yes	** NA **			None	
72	72										Yes	** NA **			None	
73	73										Yes	** NA **			None	
74	74										Yes	** NA **			None	
75	75										Yes	** NA **			None	
76	76										Yes	** NA **			None	
77	77										Yes	** NA **			None	
78	78										Yes	N/A			None	
79	79										Yes	** NA **			None	

Member Advanced Data (Continued)

Label	Release	J Release	Col-Wall	Vert Release	Offset [in]	J Offset [in]	Physical	Deflection	Ratio	Options	Seismic	DR
80	80						Yes	**	NA	**	None	
81	81						Yes	**	NA	**	None	
82	82						Yes	**	NA	**	None	
83	83						Yes	**	NA	**	None	
84	84						Yes	**	NA	**	None	
85	85						Yes	**	NA	**	None	
86	86						Yes	**	NA	**	None	
87	87						Yes	**	NA	**	None	
88	88						Yes	**	NA	**	None	
89	89						Yes	**	NA	**	None	
90	90						Yes	**	NA	**	None	
91	91						Yes	**	NA	**	None	
92	92						Yes	**	NA	**	None	
93	93						Yes	**	NA	**	None	
94	94						Yes	**	NA	**	None	
95	95						Yes	**	NA	**	None	
96	96						Yes	**	NA	**	None	
97	97						Yes	**	NA	**	None	
98	98						Yes	**	NA	**	None	
99	99						Yes	**	NA	**	None	
100	100						Yes	**	NA	**	None	
101	101						Yes	**	NA	**	None	
102	102						Yes	**	NA	**	None	
103	103						Yes		N/A		None	
104	104						Yes		N/A		None	
105	105						Yes		N/A		None	
106	106	BenPIN	BenPIN				Yes	**	NA	**	None	
107	107						Yes	**	NA	**	None	
108	108	BenPIN	BenPIN				Yes	**	NA	**	None	
109	109						Yes	**	NA	**	None	
110	110	BenPIN	BenPIN				Yes	**	NA	**	None	
111	111						Yes	**	NA	**	None	

Hot Rolled Steel Design Parameters

Label	Shape	Length [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
1	1	SF-H1	5.642	Lbyy	N/A	Lateral
2	2	SF-H2	2.758	Lbyy	N/A	Lateral
3	3	SF-H2	2.758	Lbyy	N/A	Lateral
4	4	MF-CP1	1.083	Lbyy	N/A	Lateral
5	5	MF-CP2	0.333	Lbyy	N/A	Lateral
6	6	MF-CP2	0.333	Lbyy	N/A	Lateral
7	7	MF-CP1	0.292	Lbyy	N/A	Lateral
8	8	MF-CP1	0.292	Lbyy	N/A	Lateral
9	11	MF-CP1	0.208	Lbyy	N/A	Lateral
10	13	MF-CP1	0.208	Lbyy	N/A	Lateral
11	15	MF-H1	12.5	Lbyy	N/A	Lateral
12	16	SF-H3	4.59	Lbyy	N/A	Lateral
13	17	SF-H3	4.59	Lbyy	N/A	Lateral
14	18	SF-H1	5.642	Lbyy	N/A	Lateral
15	19	SF-H2	2.758	Lbyy	N/A	Lateral
16	20	SF-H2	2.758	Lbyy	N/A	Lateral
17	21	MF-CP1	1.083	Lbyy	N/A	Lateral
18	22	MF-CP2	0.333	Lbyy	N/A	Lateral
19	23	MF-CP2	0.333	Lbyy	N/A	Lateral
20	24	MF-CP1	0.292	Lbyy	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
21	25	MF-CP1	0.292	Lbyy	N/A	N/A	Lateral
22	28	MF-CP1	0.208	Lbyy	N/A	N/A	Lateral
23	30	MF-CP1	0.208	Lbyy	N/A	N/A	Lateral
24	32	SF-H3	4.59	Lbyy	N/A	N/A	Lateral
25	33	SF-H3	4.59	Lbyy	N/A	N/A	Lateral
26	34	SF-H1	5.642	Lbyy	N/A	N/A	Lateral
27	35	SF-H2	2.758	Lbyy	N/A	N/A	Lateral
28	36	SF-H2	2.758	Lbyy	N/A	N/A	Lateral
29	37	MF-CP1	1.083	Lbyy	N/A	N/A	Lateral
30	38	MF-CP2	0.333	Lbyy	N/A	N/A	Lateral
31	39	MF-CP2	0.333	Lbyy	N/A	N/A	Lateral
32	40	MF-CP1	0.292	Lbyy	N/A	N/A	Lateral
33	41	MF-CP1	0.292	Lbyy	N/A	N/A	Lateral
34	44	MF-CP1	0.208	Lbyy	N/A	N/A	Lateral
35	46	MF-CP1	0.208	Lbyy	N/A	N/A	Lateral
36	48	SF-H3	4.59	Lbyy	N/A	N/A	Lateral
37	49	SF-H3	4.59	Lbyy	N/A	N/A	Lateral
38	50	MF-H1	12.5	Lbyy	N/A	N/A	Lateral
39	51	MF-H1	12.5	Lbyy	N/A	N/A	Lateral
40	52	MF-H2	12.5	Lbyy	N/A	N/A	Lateral
41	53	MF-P1	6	Lbyy	N/A	N/A	Lateral
42	61	MF-P2	10	Lbyy	N/A	N/A	Lateral
43	62	MF-P2	10	Lbyy	N/A	N/A	Lateral
44	64	MF-P2	10	Lbyy	N/A	N/A	Lateral
45	65	MF-H2	12.5	Lbyy	N/A	N/A	Lateral
46	66	MF-P1	6	Lbyy	N/A	N/A	Lateral
47	74	MF-P2	10	Lbyy	N/A	N/A	Lateral
48	75	MF-P2	10	Lbyy	N/A	N/A	Lateral
49	77	MF-P2	10	Lbyy	N/A	N/A	Lateral
50	78	MF-H2	12.5	Lbyy	N/A	N/A	Lateral
51	79	MF-P1	6	Lbyy	N/A	N/A	Lateral
52	87	MF-P2	10	Lbyy	N/A	N/A	Lateral
53	88	MF-P2	10	Lbyy	N/A	N/A	Lateral
54	90	MF-P2	10	Lbyy	N/A	N/A	Lateral
55	92	RRU-P	10	Lbyy	N/A	N/A	Lateral
56	94	RRU-P	10	Lbyy	N/A	N/A	Lateral
57	96	RRU-P	10	Lbyy	N/A	N/A	Lateral
58	98	RRU-P	10	Lbyy	N/A	N/A	Lateral
59	100	RRU-P	10	Lbyy	N/A	N/A	Lateral
60	102	RRU-P	10	Lbyy	N/A	N/A	Lateral
61	103	F1-CA1	2.02	Lbyy	N/A	N/A	Lateral
62	104	F1-CA1	2.02	Lbyy	N/A	N/A	Lateral
63	105	F1-CA1	2.02	Lbyy	N/A	N/A	Lateral
64	106	Kicker	4.385	Lbyy	N/A	N/A	Lateral
65	108	Kicker	4.385	Lbyy	N/A	N/A	Lateral
66	110	Kicker	4.385	Lbyy	N/A	N/A	Lateral

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Y	-0.034	%20
2	61	Y	-0.034	%80
3	61	Y	0	0
4	61	Y	0	0
5	61	Y	0	0
6	64	Y	-0.046	%20

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
7	64	Y	-0.046	%50
8	64	Y	0	0
9	64	Y	0	0
10	64	Y	0	0
11	62	Y	-0.034	%20
12	62	Y	-0.034	%80
13	62	Y	0	0
14	62	Y	0	0
15	62	Y	0	0
16	100	Y	-0.057	%55
17	100	Y	-0.067	%55
18	100	Y	-0.019	%15
19	100	Y	0	0
20	100	Y	0	0
21	98	Y	-0.065	%55
22	98	Y	-0.077	%55
23	98	Y	0	0
24	98	Y	0	0
25	98	Y	0	0
26	87	Y	-0.034	%20
27	87	Y	-0.034	%80
28	87	Y	0	0
29	87	Y	0	0
30	87	Y	0	0
31	90	Y	-0.046	%20
32	90	Y	-0.046	%50
33	90	Y	0	0
34	90	Y	0	0
35	90	Y	0	0
36	88	Y	-0.034	%20
37	88	Y	-0.034	%80
38	88	Y	0	0
39	88	Y	0	0
40	88	Y	0	0
41	96	Y	-0.057	%55
42	96	Y	-0.067	%55
43	96	Y	-0.019	%15
44	96	Y	0	0
45	96	Y	0	0
46	94	Y	-0.065	%55
47	94	Y	-0.077	%55
48	94	Y	0	0
49	94	Y	0	0
50	94	Y	0	0
51	74	Y	-0.034	%20
52	74	Y	-0.034	%80
53	74	Y	0	0
54	74	Y	0	0
55	74	Y	0	0
56	77	Y	-0.046	%20
57	77	Y	-0.046	%50
58	77	Y	0	0
59	77	Y	0	0
60	77	Y	0	0
61	75	Y	-0.034	%20

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
62	75	Y	-0.034	%80
63	75	Y	0	0
64	75	Y	0	0
65	75	Y	0	0
66	92	Y	-0.057	%55
67	92	Y	-0.067	%55
68	92	Y	-0.019	%15
69	92	Y	0	0
70	92	Y	0	0
71	102	Y	-0.065	%55
72	102	Y	-0.077	%55
73	102	Y	0	0
74	102	Y	0	0
75	102	Y	0	0

Member Point Loads (BLC 2 : 0 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	-0.219	%20
2	61	Z	-0.219	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	-0.095	%20
7	64	Z	-0.095	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	-0.219	%20
12	62	Z	-0.219	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	-0.036	%55
17	100	Z	-0.042	%55
18	100	Z	-0.029	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	-0.042	%55
22	98	Z	-0.083	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	-0.219	%20
27	87	Z	-0.219	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	-0.095	%20
32	90	Z	-0.095	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	-0.219	%20
37	88	Z	-0.219	%80
38	88	Z	0	0

Member Point Loads (BLC 2 : 0 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	-0.036	%55
42	96	Z	-0.042	%55
43	96	Z	-0.029	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	-0.042	%55
47	94	Z	-0.083	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	-0.219	%20
52	74	Z	-0.219	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	-0.095	%20
57	77	Z	-0.095	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	-0.219	%20
62	75	Z	-0.219	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	-0.036	%55
67	92	Z	-0.042	%55
68	92	Z	-0.029	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	-0.042	%55
72	102	Z	-0.083	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0

Member Point Loads (BLC 3 : 30 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	-0.189	%20
2	61	Z	-0.189	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	-0.064	%20
7	64	Z	-0.064	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	-0.189	%20
12	62	Z	-0.189	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
16	100	Z	-0.031	%55
17	100	Z	-0.036	%55
18	100	Z	-0.025	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	-0.036	%55
22	98	Z	-0.072	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	-0.189	%20
27	87	Z	-0.189	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	-0.064	%20
32	90	Z	-0.064	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	-0.189	%20
37	88	Z	-0.189	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	-0.031	%55
42	96	Z	-0.036	%55
43	96	Z	-0.025	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	-0.036	%55
47	94	Z	-0.072	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	-0.189	%20
52	74	Z	-0.189	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	-0.064	%20
57	77	Z	-0.064	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	-0.189	%20
62	75	Z	-0.189	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	-0.031	%55
67	92	Z	-0.036	%55
68	92	Z	-0.025	%15
69	92	Z	0	0
70	92	Z	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
71	102	Z	-0.036	%55
72	102	Z	-0.072	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0
76	61	X	-0.048	%20
77	61	X	-0.048	%80
78	61	X	0	0
79	61	X	0	0
80	61	X	0	0
81	64	X	-0.037	%20
82	64	X	-0.037	%50
83	64	X	0	0
84	64	X	0	0
85	64	X	0	0
86	62	X	-0.048	%20
87	62	X	-0.048	%80
88	62	X	0	0
89	62	X	0	0
90	62	X	0	0
91	100	X	-0.046	%55
92	100	X	-0.046	%55
93	100	X	-0.015	%15
94	100	X	0	0
95	100	X	0	0
96	98	X	-0.046	%55
97	98	X	-0.057	%55
98	98	X	0	0
99	98	X	0	0
100	98	X	0	0
101	87	X	-0.048	%20
102	87	X	-0.048	%80
103	87	X	0	0
104	87	X	0	0
105	87	X	0	0
106	90	X	-0.037	%20
107	90	X	-0.037	%50
108	90	X	0	0
109	90	X	0	0
110	90	X	0	0
111	88	X	-0.048	%20
112	88	X	-0.048	%80
113	88	X	0	0
114	88	X	0	0
115	88	X	0	0
116	96	X	-0.046	%55
117	96	X	-0.046	%55
118	96	X	-0.015	%15
119	96	X	0	0
120	96	X	0	0
121	94	X	-0.046	%55
122	94	X	-0.057	%55
123	94	X	0	0
124	94	X	0	0
125	94	X	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
126	74	X	-0.048	%20
127	74	X	-0.048	%80
128	74	X	0	0
129	74	X	0	0
130	74	X	0	0
131	77	X	-0.037	%20
132	77	X	-0.037	%50
133	77	X	0	0
134	77	X	0	0
135	77	X	0	0
136	75	X	-0.048	%20
137	75	X	-0.048	%80
138	75	X	0	0
139	75	X	0	0
140	75	X	0	0
141	92	X	-0.046	%55
142	92	X	-0.046	%55
143	92	X	-0.015	%15
144	92	X	0	0
145	92	X	0	0
146	102	X	-0.046	%55
147	102	X	-0.057	%55
148	102	X	0	0
149	102	X	0	0
150	102	X	0	0

Member Point Loads (BLC 4 : 60 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	-0.109	%20
2	61	Z	-0.109	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	-0.023	%20
7	64	Z	-0.023	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	-0.109	%20
12	62	Z	-0.109	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	-0.018	%55
17	100	Z	-0.021	%55
18	100	Z	-0.015	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	-0.021	%55
22	98	Z	-0.042	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	-0.109	%20
27	87	Z	-0.109	%80

Member Point Loads (BLC 4 : 60 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	-0.023	%20
32	90	Z	-0.023	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	-0.109	%20
37	88	Z	-0.109	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	-0.018	%55
42	96	Z	-0.021	%55
43	96	Z	-0.015	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	-0.021	%55
47	94	Z	-0.042	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	-0.109	%20
52	74	Z	-0.109	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	-0.023	%20
57	77	Z	-0.023	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	-0.109	%20
62	75	Z	-0.109	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	-0.018	%55
67	92	Z	-0.021	%55
68	92	Z	-0.015	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	-0.021	%55
72	102	Z	-0.042	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0
76	61	X	-0.084	%20
77	61	X	-0.084	%80
78	61	X	0	0
79	61	X	0	0
80	61	X	0	0
81	64	X	-0.04	%20
82	64	X	-0.04	%50

Member Point Loads (BLC 4 : 60 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
83	64	X	0	0
84	64	X	0	0
85	64	X	0	0
86	62	X	-0.084	%20
87	62	X	-0.084	%80
88	62	X	0	0
89	62	X	0	0
90	62	X	0	0
91	100	X	-0.08	%55
92	100	X	-0.08	%55
93	100	X	-0.025	%15
94	100	X	0	0
95	100	X	0	0
96	98	X	-0.08	%55
97	98	X	-0.099	%55
98	98	X	0	0
99	98	X	0	0
100	98	X	0	0
101	87	X	-0.084	%20
102	87	X	-0.084	%80
103	87	X	0	0
104	87	X	0	0
105	87	X	0	0
106	90	X	-0.04	%20
107	90	X	-0.04	%50
108	90	X	0	0
109	90	X	0	0
110	90	X	0	0
111	88	X	-0.084	%20
112	88	X	-0.084	%80
113	88	X	0	0
114	88	X	0	0
115	88	X	0	0
116	96	X	-0.08	%55
117	96	X	-0.08	%55
118	96	X	-0.025	%15
119	96	X	0	0
120	96	X	0	0
121	94	X	-0.08	%55
122	94	X	-0.099	%55
123	94	X	0	0
124	94	X	0	0
125	94	X	0	0
126	74	X	-0.084	%20
127	74	X	-0.084	%80
128	74	X	0	0
129	74	X	0	0
130	74	X	0	0
131	77	X	-0.04	%20
132	77	X	-0.04	%50
133	77	X	0	0
134	77	X	0	0
135	77	X	0	0
136	75	X	-0.084	%20
137	75	X	-0.084	%80

Member Point Loads (BLC 4 : 60 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
138	75	X	0	0
139	75	X	0	0
140	75	X	0	0
141	92	X	-0.08	%55
142	92	X	-0.08	%55
143	92	X	-0.025	%15
144	92	X	0	0
145	92	X	0	0
146	102	X	-0.08	%55
147	102	X	-0.099	%55
148	102	X	0	0
149	102	X	0	0
150	102	X	0	0

Member Point Loads (BLC 5 : 90 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	X	-0.097	%20
2	61	X	-0.097	%80
3	61	X	0	0
4	61	X	0	0
5	61	X	0	0
6	64	X	-0.032	%20
7	64	X	-0.032	%50
8	64	X	0	0
9	64	X	0	0
10	64	X	0	0
11	62	X	-0.097	%20
12	62	X	-0.097	%80
13	62	X	0	0
14	62	X	0	0
15	62	X	0	0
16	100	X	-0.092	%55
17	100	X	-0.093	%55
18	100	X	-0.029	%15
19	100	X	0	0
20	100	X	0	0
21	98	X	-0.092	%55
22	98	X	-0.114	%55
23	98	X	0	0
24	98	X	0	0
25	98	X	0	0
26	87	X	-0.097	%20
27	87	X	-0.097	%80
28	87	X	0	0
29	87	X	0	0
30	87	X	0	0
31	90	X	-0.032	%20
32	90	X	-0.032	%50
33	90	X	0	0
34	90	X	0	0
35	90	X	0	0
36	88	X	-0.097	%20
37	88	X	-0.097	%80
38	88	X	0	0
39	88	X	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
40	88	X	0	0
41	96	X	-0.092	%55
42	96	X	-0.093	%55
43	96	X	-0.029	%15
44	96	X	0	0
45	96	X	0	0
46	94	X	-0.092	%55
47	94	X	-0.114	%55
48	94	X	0	0
49	94	X	0	0
50	94	X	0	0
51	74	X	-0.097	%20
52	74	X	-0.097	%80
53	74	X	0	0
54	74	X	0	0
55	74	X	0	0
56	77	X	-0.032	%20
57	77	X	-0.032	%50
58	77	X	0	0
59	77	X	0	0
60	77	X	0	0
61	75	X	-0.097	%20
62	75	X	-0.097	%80
63	75	X	0	0
64	75	X	0	0
65	75	X	0	0
66	92	X	-0.092	%55
67	92	X	-0.093	%55
68	92	X	-0.029	%15
69	92	X	0	0
70	92	X	0	0
71	102	X	-0.092	%55
72	102	X	-0.114	%55
73	102	X	0	0
74	102	X	0	0
75	102	X	0	0

Member Point Loads (BLC 6 : 120 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	0.109	%20
2	61	Z	0.109	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	0.023	%20
7	64	Z	0.023	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	0.109	%20
12	62	Z	0.109	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	0.018	%55

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
17	100	Z	0.021	%55
18	100	Z	0.015	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	0.021	%55
22	98	Z	0.042	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	0.109	%20
27	87	Z	0.109	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	0.023	%20
32	90	Z	0.023	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	0.109	%20
37	88	Z	0.109	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	0.018	%55
42	96	Z	0.021	%55
43	96	Z	0.015	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	0.021	%55
47	94	Z	0.042	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	0.109	%20
52	74	Z	0.109	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	0.023	%20
57	77	Z	0.023	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	0.109	%20
62	75	Z	0.109	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	0.018	%55
67	92	Z	0.021	%55
68	92	Z	0.015	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	0.021	%55

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
72	102	Z	0.042	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0
76	61	X	-0.084	%20
77	61	X	-0.084	%80
78	61	X	0	0
79	61	X	0	0
80	61	X	0	0
81	64	X	-0.041	%20
82	64	X	-0.041	%50
83	64	X	0	0
84	64	X	0	0
85	64	X	0	0
86	62	X	-0.084	%20
87	62	X	-0.084	%80
88	62	X	0	0
89	62	X	0	0
90	62	X	0	0
91	100	X	-0.08	%55
92	100	X	-0.08	%55
93	100	X	-0.025	%15
94	100	X	0	0
95	100	X	0	0
96	98	X	-0.08	%55
97	98	X	-0.099	%55
98	98	X	0	0
99	98	X	0	0
100	98	X	0	0
101	87	X	-0.084	%20
102	87	X	-0.084	%80
103	87	X	0	0
104	87	X	0	0
105	87	X	0	0
106	90	X	-0.041	%20
107	90	X	-0.041	%50
108	90	X	0	0
109	90	X	0	0
110	90	X	0	0
111	88	X	-0.084	%20
112	88	X	-0.084	%80
113	88	X	0	0
114	88	X	0	0
115	88	X	0	0
116	96	X	-0.08	%55
117	96	X	-0.08	%55
118	96	X	-0.025	%15
119	96	X	0	0
120	96	X	0	0
121	94	X	-0.08	%55
122	94	X	-0.099	%55
123	94	X	0	0
124	94	X	0	0
125	94	X	0	0
126	74	X	-0.084	%20

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
127	74	X	-0.084	%80
128	74	X	0	0
129	74	X	0	0
130	74	X	0	0
131	77	X	-0.041	%20
132	77	X	-0.041	%50
133	77	X	0	0
134	77	X	0	0
135	77	X	0	0
136	75	X	-0.084	%20
137	75	X	-0.084	%80
138	75	X	0	0
139	75	X	0	0
140	75	X	0	0
141	92	X	-0.08	%55
142	92	X	-0.08	%55
143	92	X	-0.025	%15
144	92	X	0	0
145	92	X	0	0
146	102	X	-0.08	%55
147	102	X	-0.099	%55
148	102	X	0	0
149	102	X	0	0
150	102	X	0	0

Member Point Loads (BLC 7 : 150 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	0.189	%20
2	61	Z	0.189	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	0.055	%20
7	64	Z	0.055	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	0.189	%20
12	62	Z	0.189	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	0.031	%55
17	100	Z	0.036	%55
18	100	Z	0.025	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	0.036	%55
22	98	Z	0.072	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	0.189	%20
27	87	Z	0.189	%80
28	87	Z	0	0

Member Point Loads (BLC 7 : 150 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	0.055	%20
32	90	Z	0.055	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	0.189	%20
37	88	Z	0.189	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	0.031	%55
42	96	Z	0.036	%55
43	96	Z	0.025	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	0.036	%55
47	94	Z	0.072	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	0.189	%20
52	74	Z	0.189	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	0.055	%20
57	77	Z	0.055	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	0.189	%20
62	75	Z	0.189	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	0.031	%55
67	92	Z	0.036	%55
68	92	Z	0.025	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	0.036	%55
72	102	Z	0.072	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0
76	61	X	-0.048	%20
77	61	X	-0.048	%80
78	61	X	0	0
79	61	X	0	0
80	61	X	0	0
81	64	X	-0.032	%20
82	64	X	-0.032	%50
83	64	X	0	0

Member Point Loads (BLC 7 : 150 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
84	64	X	0	0
85	64	X	0	0
86	62	X	-0.048	%20
87	62	X	-0.048	%80
88	62	X	0	0
89	62	X	0	0
90	62	X	0	0
91	100	X	-0.046	%55
92	100	X	-0.046	%55
93	100	X	-0.015	%15
94	100	X	0	0
95	100	X	0	0
96	98	X	-0.046	%55
97	98	X	-0.057	%55
98	98	X	0	0
99	98	X	0	0
100	98	X	0	0
101	87	X	-0.048	%20
102	87	X	-0.048	%80
103	87	X	0	0
104	87	X	0	0
105	87	X	0	0
106	90	X	-0.032	%20
107	90	X	-0.032	%50
108	90	X	0	0
109	90	X	0	0
110	90	X	0	0
111	88	X	-0.048	%20
112	88	X	-0.048	%80
113	88	X	0	0
114	88	X	0	0
115	88	X	0	0
116	96	X	-0.046	%55
117	96	X	-0.046	%55
118	96	X	-0.015	%15
119	96	X	0	0
120	96	X	0	0
121	94	X	-0.046	%55
122	94	X	-0.057	%55
123	94	X	0	0
124	94	X	0	0
125	94	X	0	0
126	74	X	-0.048	%20
127	74	X	-0.048	%80
128	74	X	0	0
129	74	X	0	0
130	74	X	0	0
131	77	X	-0.032	%20
132	77	X	-0.032	%50
133	77	X	0	0
134	77	X	0	0
135	77	X	0	0
136	75	X	-0.048	%20
137	75	X	-0.048	%80
138	75	X	0	0

Member Point Loads (BLC 7 : 150 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
139	75	X	0	0
140	75	X	0	0
141	92	X	-0.046	%55
142	92	X	-0.046	%55
143	92	X	-0.015	%15
144	92	X	0	0
145	92	X	0	0
146	102	X	-0.046	%55
147	102	X	-0.057	%55
148	102	X	0	0
149	102	X	0	0
150	102	X	0	0

Member Point Loads (BLC 8 : 180 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	0.219	%20
2	61	Z	0.219	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	0.059	%20
7	64	Z	0.059	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	0.219	%20
12	62	Z	0.219	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	0.036	%55
17	100	Z	0.042	%55
18	100	Z	0.029	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	0.042	%55
22	98	Z	0.083	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	0.219	%20
27	87	Z	0.219	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	0.059	%20
32	90	Z	0.059	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	0.219	%20
37	88	Z	0.219	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
41	96	Z	0.036	%55
42	96	Z	0.042	%55
43	96	Z	0.029	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	0.042	%55
47	94	Z	0.083	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	0.219	%20
52	74	Z	0.219	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	0.059	%20
57	77	Z	0.059	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	0.219	%20
62	75	Z	0.219	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	0.036	%55
67	92	Z	0.042	%55
68	92	Z	0.029	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	0.042	%55
72	102	Z	0.083	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0

Member Point Loads (BLC 9 : 210 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	0.189	%20
2	61	Z	0.189	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	0.055	%20
7	64	Z	0.055	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	0.189	%20
12	62	Z	0.189	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	0.031	%55
17	100	Z	0.036	%55

Member Point Loads (BLC 9 : 210 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
18	100	Z	0.025	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	0.036	%55
22	98	Z	0.072	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	0.189	%20
27	87	Z	0.189	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	0.055	%20
32	90	Z	0.055	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	0.189	%20
37	88	Z	0.189	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	0.031	%55
42	96	Z	0.036	%55
43	96	Z	0.025	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	0.036	%55
47	94	Z	0.072	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	0.189	%20
52	74	Z	0.189	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	0.055	%20
57	77	Z	0.055	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	0.189	%20
62	75	Z	0.189	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	0.031	%55
67	92	Z	0.036	%55
68	92	Z	0.025	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	0.036	%55
72	102	Z	0.072	%55

Member Point Loads (BLC 9 : 210 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0
76	61	X	0.048	%20
77	61	X	0.048	%80
78	61	X	0	0
79	61	X	0	0
80	61	X	0	0
81	64	X	0.032	%20
82	64	X	0.032	%50
83	64	X	0	0
84	64	X	0	0
85	64	X	0	0
86	62	X	0.048	%20
87	62	X	0.048	%80
88	62	X	0	0
89	62	X	0	0
90	62	X	0	0
91	100	X	0.046	%55
92	100	X	0.046	%55
93	100	X	0.015	%15
94	100	X	0	0
95	100	X	0	0
96	98	X	0.046	%55
97	98	X	0.057	%55
98	98	X	0	0
99	98	X	0	0
100	98	X	0	0
101	87	X	0.048	%20
102	87	X	0.048	%80
103	87	X	0	0
104	87	X	0	0
105	87	X	0	0
106	90	X	0.032	%20
107	90	X	0.032	%50
108	90	X	0	0
109	90	X	0	0
110	90	X	0	0
111	88	X	0.048	%20
112	88	X	0.048	%80
113	88	X	0	0
114	88	X	0	0
115	88	X	0	0
116	96	X	0.046	%55
117	96	X	0.046	%55
118	96	X	0.015	%15
119	96	X	0	0
120	96	X	0	0
121	94	X	0.046	%55
122	94	X	0.057	%55
123	94	X	0	0
124	94	X	0	0
125	94	X	0	0
126	74	X	0.048	%20
127	74	X	0.048	%80

Member Point Loads (BLC 9 : 210 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
128	74	X	0	0
129	74	X	0	0
130	74	X	0	0
131	77	X	0.032	%20
132	77	X	0.032	%50
133	77	X	0	0
134	77	X	0	0
135	77	X	0	0
136	75	X	0.048	%20
137	75	X	0.048	%80
138	75	X	0	0
139	75	X	0	0
140	75	X	0	0
141	92	X	0.046	%55
142	92	X	0.046	%55
143	92	X	0.015	%15
144	92	X	0	0
145	92	X	0	0
146	102	X	0.046	%55
147	102	X	0.057	%55
148	102	X	0	0
149	102	X	0	0
150	102	X	0	0

Member Point Loads (BLC 10 : 240 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	0.109	%20
2	61	Z	0.109	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	0.023	%20
7	64	Z	0.023	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	0.109	%20
12	62	Z	0.109	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	0.018	%55
17	100	Z	0.021	%55
18	100	Z	0.015	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	0.021	%55
22	98	Z	0.042	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	0.109	%20
27	87	Z	0.109	%80
28	87	Z	0	0
29	87	Z	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
30	87	Z	0	0
31	90	Z	0.023	%20
32	90	Z	0.023	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	0.109	%20
37	88	Z	0.109	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	0.018	%55
42	96	Z	0.021	%55
43	96	Z	0.015	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	0.021	%55
47	94	Z	0.042	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	0.109	%20
52	74	Z	0.109	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	0.023	%20
57	77	Z	0.023	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	0.109	%20
62	75	Z	0.109	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	0.018	%55
67	92	Z	0.021	%55
68	92	Z	0.015	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	0.021	%55
72	102	Z	0.042	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0
76	61	X	0.084	%20
77	61	X	0.084	%80
78	61	X	0	0
79	61	X	0	0
80	61	X	0	0
81	64	X	0.041	%20
82	64	X	0.041	%50
83	64	X	0	0
84	64	X	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
85	64	X	0	0
86	62	X	0.084	%20
87	62	X	0.084	%80
88	62	X	0	0
89	62	X	0	0
90	62	X	0	0
91	100	X	0.08	%55
92	100	X	0.08	%55
93	100	X	0.025	%15
94	100	X	0	0
95	100	X	0	0
96	98	X	0.08	%55
97	98	X	0.099	%55
98	98	X	0	0
99	98	X	0	0
100	98	X	0	0
101	87	X	0.084	%20
102	87	X	0.084	%80
103	87	X	0	0
104	87	X	0	0
105	87	X	0	0
106	90	X	0.041	%20
107	90	X	0.041	%50
108	90	X	0	0
109	90	X	0	0
110	90	X	0	0
111	88	X	0.084	%20
112	88	X	0.084	%80
113	88	X	0	0
114	88	X	0	0
115	88	X	0	0
116	96	X	0.08	%55
117	96	X	0.08	%55
118	96	X	0.025	%15
119	96	X	0	0
120	96	X	0	0
121	94	X	0.08	%55
122	94	X	0.099	%55
123	94	X	0	0
124	94	X	0	0
125	94	X	0	0
126	74	X	0.084	%20
127	74	X	0.084	%80
128	74	X	0	0
129	74	X	0	0
130	74	X	0	0
131	77	X	0.041	%20
132	77	X	0.041	%50
133	77	X	0	0
134	77	X	0	0
135	77	X	0	0
136	75	X	0.084	%20
137	75	X	0.084	%80
138	75	X	0	0
139	75	X	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
140	75	X	0	0
141	92	X	0.08	%55
142	92	X	0.08	%55
143	92	X	0.025	%15
144	92	X	0	0
145	92	X	0	0
146	102	X	0.08	%55
147	102	X	0.099	%55
148	102	X	0	0
149	102	X	0	0
150	102	X	0	0

Member Point Loads (BLC 11 : 270 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	X	0.097	%20
2	61	X	0.097	%80
3	61	X	0	0
4	61	X	0	0
5	61	X	0	0
6	64	X	0.032	%20
7	64	X	0.032	%50
8	64	X	0	0
9	64	X	0	0
10	64	X	0	0
11	62	X	0.097	%20
12	62	X	0.097	%80
13	62	X	0	0
14	62	X	0	0
15	62	X	0	0
16	100	X	0.092	%55
17	100	X	0.093	%55
18	100	X	0.029	%15
19	100	X	0	0
20	100	X	0	0
21	98	X	0.092	%55
22	98	X	0.114	%55
23	98	X	0	0
24	98	X	0	0
25	98	X	0	0
26	87	X	0.097	%20
27	87	X	0.097	%80
28	87	X	0	0
29	87	X	0	0
30	87	X	0	0
31	90	X	0.032	%20
32	90	X	0.032	%50
33	90	X	0	0
34	90	X	0	0
35	90	X	0	0
36	88	X	0.097	%20
37	88	X	0.097	%80
38	88	X	0	0
39	88	X	0	0
40	88	X	0	0
41	96	X	0.092	%55

Member Point Loads (BLC 11 : 270 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
42	96	X	0.093	%55
43	96	X	0.029	%15
44	96	X	0	0
45	96	X	0	0
46	94	X	0.092	%55
47	94	X	0.114	%55
48	94	X	0	0
49	94	X	0	0
50	94	X	0	0
51	74	X	0.097	%20
52	74	X	0.097	%80
53	74	X	0	0
54	74	X	0	0
55	74	X	0	0
56	77	X	0.032	%20
57	77	X	0.032	%50
58	77	X	0	0
59	77	X	0	0
60	77	X	0	0
61	75	X	0.097	%20
62	75	X	0.097	%80
63	75	X	0	0
64	75	X	0	0
65	75	X	0	0
66	92	X	0.092	%55
67	92	X	0.093	%55
68	92	X	0.029	%15
69	92	X	0	0
70	92	X	0	0
71	102	X	0.092	%55
72	102	X	0.114	%55
73	102	X	0	0
74	102	X	0	0
75	102	X	0	0

Member Point Loads (BLC 12 : 300 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	-0.109	%20
2	61	Z	-0.109	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	-0.023	%20
7	64	Z	-0.023	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	-0.109	%20
12	62	Z	-0.109	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	-0.018	%55
17	100	Z	-0.021	%55
18	100	Z	-0.015	%15

Member Point Loads (BLC 12 : 300 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	-0.021	%55
22	98	Z	-0.042	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	-0.109	%20
27	87	Z	-0.109	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	-0.023	%20
32	90	Z	-0.023	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	-0.109	%20
37	88	Z	-0.109	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	-0.018	%55
42	96	Z	-0.021	%55
43	96	Z	-0.015	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	-0.021	%55
47	94	Z	-0.042	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	-0.109	%20
52	74	Z	-0.109	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	-0.023	%20
57	77	Z	-0.023	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	-0.109	%20
62	75	Z	-0.109	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	-0.018	%55
67	92	Z	-0.021	%55
68	92	Z	-0.015	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	-0.021	%55
72	102	Z	-0.042	%55
73	102	Z	0	0

Member Point Loads (BLC 12 : 300 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
74	102	Z	0	0
75	102	Z	0	0
76	61	X	0.084	%20
77	61	X	0.084	%80
78	61	X	0	0
79	61	X	0	0
80	61	X	0	0
81	64	X	0.04	%20
82	64	X	0.04	%50
83	64	X	0	0
84	64	X	0	0
85	64	X	0	0
86	62	X	0.084	%20
87	62	X	0.084	%80
88	62	X	0	0
89	62	X	0	0
90	62	X	0	0
91	100	X	0.08	%55
92	100	X	0.08	%55
93	100	X	0.025	%15
94	100	X	0	0
95	100	X	0	0
96	98	X	0.08	%55
97	98	X	0.099	%55
98	98	X	0	0
99	98	X	0	0
100	98	X	0	0
101	87	X	0.084	%20
102	87	X	0.084	%80
103	87	X	0	0
104	87	X	0	0
105	87	X	0	0
106	90	X	0.04	%20
107	90	X	0.04	%50
108	90	X	0	0
109	90	X	0	0
110	90	X	0	0
111	88	X	0.084	%20
112	88	X	0.084	%80
113	88	X	0	0
114	88	X	0	0
115	88	X	0	0
116	96	X	0.08	%55
117	96	X	0.08	%55
118	96	X	0.025	%15
119	96	X	0	0
120	96	X	0	0
121	94	X	0.08	%55
122	94	X	0.099	%55
123	94	X	0	0
124	94	X	0	0
125	94	X	0	0
126	74	X	0.084	%20
127	74	X	0.084	%80
128	74	X	0	0

Member Point Loads (BLC 12 : 300 Wind) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
129	74	X	0	0
130	74	X	0	0
131	77	X	0.04	%20
132	77	X	0.04	%50
133	77	X	0	0
134	77	X	0	0
135	77	X	0	0
136	75	X	0.084	%20
137	75	X	0.084	%80
138	75	X	0	0
139	75	X	0	0
140	75	X	0	0
141	92	X	0.08	%55
142	92	X	0.08	%55
143	92	X	0.025	%15
144	92	X	0	0
145	92	X	0	0
146	102	X	0.08	%55
147	102	X	0.099	%55
148	102	X	0	0
149	102	X	0	0
150	102	X	0	0

Member Point Loads (BLC 13 : 330 Wind)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	-0.189	%20
2	61	Z	-0.189	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	-0.064	%20
7	64	Z	-0.064	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	-0.189	%20
12	62	Z	-0.189	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	-0.031	%55
17	100	Z	-0.036	%55
18	100	Z	-0.025	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	-0.036	%55
22	98	Z	-0.072	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	-0.189	%20
27	87	Z	-0.189	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
31	90	Z	-0.064	%20
32	90	Z	-0.064	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	-0.189	%20
37	88	Z	-0.189	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	-0.031	%55
42	96	Z	-0.036	%55
43	96	Z	-0.025	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	-0.036	%55
47	94	Z	-0.072	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	-0.189	%20
52	74	Z	-0.189	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	-0.064	%20
57	77	Z	-0.064	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	-0.189	%20
62	75	Z	-0.189	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	-0.031	%55
67	92	Z	-0.036	%55
68	92	Z	-0.025	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	-0.036	%55
72	102	Z	-0.072	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0
76	61	X	0.048	%20
77	61	X	0.048	%80
78	61	X	0	0
79	61	X	0	0
80	61	X	0	0
81	64	X	0.037	%20
82	64	X	0.037	%50
83	64	X	0	0
84	64	X	0	0
85	64	X	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
86	62	X	0.048	%20
87	62	X	0.048	%80
88	62	X	0	0
89	62	X	0	0
90	62	X	0	0
91	100	X	0.046	%55
92	100	X	0.046	%55
93	100	X	0.015	%15
94	100	X	0	0
95	100	X	0	0
96	98	X	0.046	%55
97	98	X	0.057	%55
98	98	X	0	0
99	98	X	0	0
100	98	X	0	0
101	87	X	0.048	%20
102	87	X	0.048	%80
103	87	X	0	0
104	87	X	0	0
105	87	X	0	0
106	90	X	0.037	%20
107	90	X	0.037	%50
108	90	X	0	0
109	90	X	0	0
110	90	X	0	0
111	88	X	0.048	%20
112	88	X	0.048	%80
113	88	X	0	0
114	88	X	0	0
115	88	X	0	0
116	96	X	0.046	%55
117	96	X	0.046	%55
118	96	X	0.015	%15
119	96	X	0	0
120	96	X	0	0
121	94	X	0.046	%55
122	94	X	0.057	%55
123	94	X	0	0
124	94	X	0	0
125	94	X	0	0
126	74	X	0.048	%20
127	74	X	0.048	%80
128	74	X	0	0
129	74	X	0	0
130	74	X	0	0
131	77	X	0.037	%20
132	77	X	0.037	%50
133	77	X	0	0
134	77	X	0	0
135	77	X	0	0
136	75	X	0.048	%20
137	75	X	0.048	%80
138	75	X	0	0
139	75	X	0	0
140	75	X	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
141	92	X	0.046	%55
142	92	X	0.046	%55
143	92	X	0.015	%15
144	92	X	0	0
145	92	X	0	0
146	102	X	0.046	%55
147	102	X	0.057	%55
148	102	X	0	0
149	102	X	0	0
150	102	X	0	0

Member Point Loads (BLC 14 : 0 Wind w/Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	-0.046	%20
2	61	Z	-0.046	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	-0.019	%20
7	64	Z	-0.019	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	-0.046	%20
12	62	Z	-0.046	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	-0.01	%55
17	100	Z	-0.011	%55
18	100	Z	-0.007	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	-0.011	%55
22	98	Z	-0.021	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	-0.046	%20
27	87	Z	-0.046	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	-0.019	%20
32	90	Z	-0.019	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	-0.046	%20
37	88	Z	-0.046	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	-0.01	%55
42	96	Z	-0.011	%55

Member Point Loads (BLC 14 : 0 Wind w/Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
43	96	Z	-0.007	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	-0.011	%55
47	94	Z	-0.021	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	-0.046	%20
52	74	Z	-0.046	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	-0.019	%20
57	77	Z	-0.019	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	-0.046	%20
62	75	Z	-0.046	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	-0.01	%55
67	92	Z	-0.011	%55
68	92	Z	-0.007	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	-0.011	%55
72	102	Z	-0.021	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0

Member Point Loads (BLC 15 : 90 Wind w/Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	X	-0.024	%20
2	61	X	-0.024	%80
3	61	X	0	0
4	61	X	0	0
5	61	X	0	0
6	64	X	-0.011	%20
7	64	X	-0.011	%50
8	64	X	0	0
9	64	X	0	0
10	64	X	0	0
11	62	X	-0.024	%20
12	62	X	-0.024	%80
13	62	X	0	0
14	62	X	0	0
15	62	X	0	0
16	100	X	-0.022	%55
17	100	X	-0.022	%55
18	100	X	-0.007	%15
19	100	X	0	0

Member Point Loads (BLC 15 : 90 Wind w/Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
20	100	X	0	0
21	98	X	-0.022	%55
22	98	X	-0.026	%55
23	98	X	0	0
24	98	X	0	0
25	98	X	0	0
26	87	X	-0.024	%20
27	87	X	-0.024	%80
28	87	X	0	0
29	87	X	0	0
30	87	X	0	0
31	90	X	-0.011	%20
32	90	X	-0.011	%50
33	90	X	0	0
34	90	X	0	0
35	90	X	0	0
36	88	X	-0.024	%20
37	88	X	-0.024	%80
38	88	X	0	0
39	88	X	0	0
40	88	X	0	0
41	96	X	-0.022	%55
42	96	X	-0.022	%55
43	96	X	-0.007	%15
44	96	X	0	0
45	96	X	0	0
46	94	X	-0.022	%55
47	94	X	-0.026	%55
48	94	X	0	0
49	94	X	0	0
50	94	X	0	0
51	74	X	-0.024	%20
52	74	X	-0.024	%80
53	74	X	0	0
54	74	X	0	0
55	74	X	0	0
56	77	X	-0.011	%20
57	77	X	-0.011	%50
58	77	X	0	0
59	77	X	0	0
60	77	X	0	0
61	75	X	-0.024	%20
62	75	X	-0.024	%80
63	75	X	0	0
64	75	X	0	0
65	75	X	0	0
66	92	X	-0.022	%55
67	92	X	-0.022	%55
68	92	X	-0.007	%15
69	92	X	0	0
70	92	X	0	0
71	102	X	-0.022	%55
72	102	X	-0.026	%55
73	102	X	0	0
74	102	X	0	0

Member Point Loads (BLC 15 : 90 Wind w/Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
75	102	X	0	0

Member Point Loads (BLC 16 : 0 Wind Service)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	-0.014	%20
2	61	Z	-0.014	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	-0.006	%20
7	64	Z	-0.006	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	-0.014	%20
12	62	Z	-0.014	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	-0.002	%55
17	100	Z	-0.003	%55
18	100	Z	-0.002	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	-0.003	%55
22	98	Z	-0.005	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	-0.014	%20
27	87	Z	-0.014	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	-0.006	%20
32	90	Z	-0.006	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	-0.014	%20
37	88	Z	-0.014	%80
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	-0.002	%55
42	96	Z	-0.003	%55
43	96	Z	-0.002	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	-0.003	%55
47	94	Z	-0.005	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	-0.014	%20

Member Point Loads (BLC 16 : 0 Wind Service) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
52	74	Z	-0.014	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	-0.006	%20
57	77	Z	-0.006	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	-0.014	%20
62	75	Z	-0.014	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	-0.002	%55
67	92	Z	-0.003	%55
68	92	Z	-0.002	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	-0.003	%55
72	102	Z	-0.005	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0

Member Point Loads (BLC 17 : 90 Wind Service)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	X	-0.006	%20
2	61	X	-0.006	%80
3	61	X	0	0
4	61	X	0	0
5	61	X	0	0
6	64	X	-0.002	%20
7	64	X	-0.002	%50
8	64	X	0	0
9	64	X	0	0
10	64	X	0	0
11	62	X	-0.006	%20
12	62	X	-0.006	%80
13	62	X	0	0
14	62	X	0	0
15	62	X	0	0
16	100	X	-0.006	%55
17	100	X	-0.006	%55
18	100	X	-0.002	%15
19	100	X	0	0
20	100	X	0	0
21	98	X	-0.006	%55
22	98	X	-0.007	%55
23	98	X	0	0
24	98	X	0	0
25	98	X	0	0
26	87	X	-0.006	%20
27	87	X	-0.006	%80
28	87	X	0	0

Member Point Loads (BLC 17 : 90 Wind Service) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
29	87	X	0	0
30	87	X	0	0
31	90	X	-0.002	%20
32	90	X	-0.002	%50
33	90	X	0	0
34	90	X	0	0
35	90	X	0	0
36	88	X	-0.006	%20
37	88	X	-0.006	%80
38	88	X	0	0
39	88	X	0	0
40	88	X	0	0
41	96	X	-0.006	%55
42	96	X	-0.006	%55
43	96	X	-0.002	%15
44	96	X	0	0
45	96	X	0	0
46	94	X	-0.006	%55
47	94	X	-0.007	%55
48	94	X	0	0
49	94	X	0	0
50	94	X	0	0
51	74	X	-0.006	%20
52	74	X	-0.006	%80
53	74	X	0	0
54	74	X	0	0
55	74	X	0	0
56	77	X	-0.002	%20
57	77	X	-0.002	%50
58	77	X	0	0
59	77	X	0	0
60	77	X	0	0
61	75	X	-0.006	%20
62	75	X	-0.006	%80
63	75	X	0	0
64	75	X	0	0
65	75	X	0	0
66	92	X	-0.006	%55
67	92	X	-0.006	%55
68	92	X	-0.002	%15
69	92	X	0	0
70	92	X	0	0
71	102	X	-0.006	%55
72	102	X	-0.007	%55
73	102	X	0	0
74	102	X	0	0
75	102	X	0	0

Member Point Loads (BLC 18 : Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Y	-0.1	%20
2	61	Y	-0.1	%80
3	61	Y	0	0
4	61	Y	0	0
5	61	Y	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
6	64	Y	-0.042	%20
7	64	Y	-0.042	%50
8	64	Y	0	0
9	64	Y	0	0
10	64	Y	0	0
11	62	Y	-0.1	%20
12	62	Y	-0.1	%80
13	62	Y	0	0
14	62	Y	0	0
15	62	Y	0	0
16	100	Y	-0.044	%55
17	100	Y	-0.046	%55
18	100	Y	-0.033	%15
19	100	Y	0	0
20	100	Y	0	0
21	98	Y	-0.045	%55
22	98	Y	-0.063	%55
23	98	Y	0	0
24	98	Y	0	0
25	98	Y	0	0
26	87	Y	-0.1	%20
27	87	Y	-0.1	%80
28	87	Y	0	0
29	87	Y	0	0
30	87	Y	0	0
31	90	Y	-0.042	%20
32	90	Y	-0.042	%50
33	90	Y	0	0
34	90	Y	0	0
35	90	Y	0	0
36	88	Y	-0.1	%20
37	88	Y	-0.1	%80
38	88	Y	0	0
39	88	Y	0	0
40	88	Y	0	0
41	96	Y	-0.044	%55
42	96	Y	-0.046	%55
43	96	Y	-0.033	%15
44	96	Y	0	0
45	96	Y	0	0
46	94	Y	-0.045	%55
47	94	Y	-0.063	%55
48	94	Y	0	0
49	94	Y	0	0
50	94	Y	0	0
51	74	Y	-0.1	%20
52	74	Y	-0.1	%80
53	74	Y	0	0
54	74	Y	0	0
55	74	Y	0	0
56	77	Y	-0.042	%20
57	77	Y	-0.042	%50
58	77	Y	0	0
59	77	Y	0	0
60	77	Y	0	0

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
61	75	Y	-0.1	%20
62	75	Y	-0.1	%80
63	75	Y	0	0
64	75	Y	0	0
65	75	Y	0	0
66	92	Y	-0.044	%55
67	92	Y	-0.046	%55
68	92	Y	-0.033	%15
69	92	Y	0	0
70	92	Y	0	0
71	102	Y	-0.045	%55
72	102	Y	-0.063	%55
73	102	Y	0	0
74	102	Y	0	0
75	102	Y	0	0

Member Point Loads (BLC 19 : 0 Seismic)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	Z	-0.008	%20
2	61	Z	-0.008	%80
3	61	Z	0	0
4	61	Z	0	0
5	61	Z	0	0
6	64	Z	-0.011	%20
7	64	Z	-0.011	%50
8	64	Z	0	0
9	64	Z	0	0
10	64	Z	0	0
11	62	Z	-0.008	%20
12	62	Z	-0.008	%80
13	62	Z	0	0
14	62	Z	0	0
15	62	Z	0	0
16	100	Z	-0.006	%55
17	100	Z	-0.008	%55
18	100	Z	-0.002	%15
19	100	Z	0	0
20	100	Z	0	0
21	98	Z	-0.007	%55
22	98	Z	-0.009	%55
23	98	Z	0	0
24	98	Z	0	0
25	98	Z	0	0
26	87	Z	-0.008	%20
27	87	Z	-0.008	%80
28	87	Z	0	0
29	87	Z	0	0
30	87	Z	0	0
31	90	Z	-0.011	%20
32	90	Z	-0.011	%50
33	90	Z	0	0
34	90	Z	0	0
35	90	Z	0	0
36	88	Z	-0.008	%20
37	88	Z	-0.008	%80

Member Point Loads (BLC 19 : 0 Seismic) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
38	88	Z	0	0
39	88	Z	0	0
40	88	Z	0	0
41	96	Z	-0.006	%55
42	96	Z	-0.008	%55
43	96	Z	-0.002	%15
44	96	Z	0	0
45	96	Z	0	0
46	94	Z	-0.007	%55
47	94	Z	-0.009	%55
48	94	Z	0	0
49	94	Z	0	0
50	94	Z	0	0
51	74	Z	-0.008	%20
52	74	Z	-0.008	%80
53	74	Z	0	0
54	74	Z	0	0
55	74	Z	0	0
56	77	Z	-0.011	%20
57	77	Z	-0.011	%50
58	77	Z	0	0
59	77	Z	0	0
60	77	Z	0	0
61	75	Z	-0.008	%20
62	75	Z	-0.008	%80
63	75	Z	0	0
64	75	Z	0	0
65	75	Z	0	0
66	92	Z	-0.006	%55
67	92	Z	-0.008	%55
68	92	Z	-0.002	%15
69	92	Z	0	0
70	92	Z	0	0
71	102	Z	-0.007	%55
72	102	Z	-0.009	%55
73	102	Z	0	0
74	102	Z	0	0
75	102	Z	0	0

Member Point Loads (BLC 20 : 90 Seismic)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	61	X	-0.008	%20
2	61	X	-0.008	%80
3	61	X	0	0
4	61	X	0	0
5	61	X	0	0
6	64	X	-0.011	%20
7	64	X	-0.011	%50
8	64	X	0	0
9	64	X	0	0
10	64	X	0	0
11	62	X	-0.008	%20
12	62	X	-0.008	%80
13	62	X	0	0
14	62	X	0	0

Member Point Loads (BLC 20 : 90 Seismic) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
15	62	X	0	0
16	100	X	-0.006	%55
17	100	X	-0.008	%55
18	100	X	-0.002	%15
19	100	X	0	0
20	100	X	0	0
21	98	X	-0.007	%55
22	98	X	-0.009	%55
23	98	X	0	0
24	98	X	0	0
25	98	X	0	0
26	87	X	-0.008	%20
27	87	X	-0.008	%80
28	87	X	0	0
29	87	X	0	0
30	87	X	0	0
31	90	X	-0.011	%20
32	90	X	-0.011	%50
33	90	X	0	0
34	90	X	0	0
35	90	X	0	0
36	88	X	-0.008	%20
37	88	X	-0.008	%80
38	88	X	0	0
39	88	X	0	0
40	88	X	0	0
41	96	X	-0.006	%55
42	96	X	-0.008	%55
43	96	X	-0.002	%15
44	96	X	0	0
45	96	X	0	0
46	94	X	-0.007	%55
47	94	X	-0.009	%55
48	94	X	0	0
49	94	X	0	0
50	94	X	0	0
51	74	X	-0.008	%20
52	74	X	-0.008	%80
53	74	X	0	0
54	74	X	0	0
55	74	X	0	0
56	77	X	-0.011	%20
57	77	X	-0.011	%50
58	77	X	0	0
59	77	X	0	0
60	77	X	0	0
61	75	X	-0.008	%20
62	75	X	-0.008	%80
63	75	X	0	0
64	75	X	0	0
65	75	X	0	0
66	92	X	-0.006	%55
67	92	X	-0.008	%55
68	92	X	-0.002	%15
69	92	X	0	0

Member Point Loads (BLC 20 : 90 Seismic) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
70	92	X	0	0
71	102	X	-0.007	%55
72	102	X	-0.009	%55
73	102	X	0	0
74	102	X	0	0
75	102	X	0	0

Member Point Loads (BLC 27 : Maint LL 1)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	15	Y	-0.25	%5

Member Point Loads (BLC 28 : Maint LL 2)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	52	Y	-0.25	%5

Member Point Loads (BLC 29 : Maint LL 3)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	51	Y	-0.25	%5

Member Point Loads (BLC 30 : Maint LL 4)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	78	Y	-0.25	%5

Member Point Loads (BLC 31 : Maint LL 5)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	50	Y	-0.25	%5

Member Point Loads (BLC 32 : Maint LL 6)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	65	Y	-0.25	%5

Member Point Loads (BLC 33 : Maint LL 7)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	15	Y	-0.25	%95

Member Point Loads (BLC 34 : Maint LL 8)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	52	Y	-0.25	%95

Member Point Loads (BLC 35 : Maint LL 9)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	51	Y	-0.25	%95

Member Point Loads (BLC 36 : Maint LL 10)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	78	Y	-0.25	%95

Member Point Loads (BLC 37 : Maint LL 11)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	50	Y	-0.25	%95

Member Point Loads (BLC 38 : Maint LL 12)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	65	Y	-0.25	%95

Member Point Loads (BLC 39 : Maint LL 13)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	18	Y	-0.25	%5

Member Point Loads (BLC 40 : Maint LL 14)

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

Member Point Loads (BLC 41 : Maint LL 15)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	34	Y	-0.25	%5

Member Distributed Loads (BLC 14 : 0 Wind w/Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.002	-0.002	0	%100
2	2	Z	-0.005	-0.005	0	%100
3	3	Z	-0.005	-0.005	0	%100
4	4	Z	-0.003	-0.003	0	%100
5	5	Z	-0.005	-0.005	0	%100
6	6	Z	-0.005	-0.005	0	%100
7	7	Z	-0.004	-0.004	0	%100
8	8	Z	-0.004	-0.004	0	%100
9	11	Z	-0.004	-0.004	0	%100
10	13	Z	-0.004	-0.004	0	%100
11	15	Z	-0.002	-0.002	0	%100
12	16	Z	-0.005	-0.005	0	%100
13	17	Z	-0.005	-0.005	0	%100
14	18	Z	-0.002	-0.002	0	%100
15	19	Z	-0.005	-0.005	0	%100
16	20	Z	-0.005	-0.005	0	%100
17	21	Z	-0.003	-0.003	0	%100
18	22	Z	-0.005	-0.005	0	%100
19	23	Z	-0.005	-0.005	0	%100
20	24	Z	-0.004	-0.004	0	%100
21	25	Z	-0.004	-0.004	0	%100
22	28	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 14 : 0 Wind w/Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
23	30	Z	-0.004	-0.004	0	%100
24	32	Z	-0.005	-0.005	0	%100
25	33	Z	-0.005	-0.005	0	%100
26	34	Z	-0.002	-0.002	0	%100
27	35	Z	-0.005	-0.005	0	%100
28	36	Z	-0.005	-0.005	0	%100
29	37	Z	-0.003	-0.003	0	%100
30	38	Z	-0.005	-0.005	0	%100
31	39	Z	-0.005	-0.005	0	%100
32	40	Z	-0.004	-0.004	0	%100
33	41	Z	-0.004	-0.004	0	%100
34	44	Z	-0.004	-0.004	0	%100
35	46	Z	-0.004	-0.004	0	%100
36	48	Z	-0.005	-0.005	0	%100
37	49	Z	-0.005	-0.005	0	%100
38	50	Z	-0.002	-0.002	0	%100
39	51	Z	-0.002	-0.002	0	%100
40	52	Z	-0.002	-0.002	0	%100
41	53	Z	-0.002	-0.002	0	%100
42	61	Z	-0.002	-0.002	0	%100
43	62	Z	-0.002	-0.002	0	%100
44	64	Z	-0.002	-0.002	0	%100
45	65	Z	-0.002	-0.002	0	%100
46	66	Z	-0.002	-0.002	0	%100
47	74	Z	-0.002	-0.002	0	%100
48	75	Z	-0.002	-0.002	0	%100
49	77	Z	-0.002	-0.002	0	%100
50	78	Z	-0.002	-0.002	0	%100
51	79	Z	-0.002	-0.002	0	%100
52	87	Z	-0.002	-0.002	0	%100
53	88	Z	-0.002	-0.002	0	%100
54	90	Z	-0.002	-0.002	0	%100
55	92	Z	-0.002	-0.002	0	%100
56	94	Z	-0.002	-0.002	0	%100
57	96	Z	-0.002	-0.002	0	%100
58	98	Z	-0.002	-0.002	0	%100
59	100	Z	-0.002	-0.002	0	%100
60	102	Z	-0.002	-0.002	0	%100
61	103	Z	-0.006	-0.006	0	%100
62	104	Z	-0.006	-0.006	0	%100
63	105	Z	-0.006	-0.006	0	%100
64	106	Z	-0.006	-0.006	0	%100
65	108	Z	-0.006	-0.006	0	%100
66	110	Z	-0.006	-0.006	0	%100

Member Distributed Loads (BLC 15 : 90 Wind w/Ice)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.002	-0.002	0	%100
2	2	X	-0.005	-0.005	0	%100
3	3	X	-0.005	-0.005	0	%100
4	4	X	-0.003	-0.003	0	%100
5	5	X	-0.005	-0.005	0	%100
6	6	X	-0.005	-0.005	0	%100
7	7	X	-0.004	-0.004	0	%100
8	8	X	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 15 : 90 Wind w/Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
9	11	X	-0.004	-0.004	0	%100
10	13	X	-0.004	-0.004	0	%100
11	15	X	-0.002	-0.002	0	%100
12	16	X	-0.005	-0.005	0	%100
13	17	X	-0.005	-0.005	0	%100
14	18	X	-0.002	-0.002	0	%100
15	19	X	-0.005	-0.005	0	%100
16	20	X	-0.005	-0.005	0	%100
17	21	X	-0.003	-0.003	0	%100
18	22	X	-0.005	-0.005	0	%100
19	23	X	-0.005	-0.005	0	%100
20	24	X	-0.004	-0.004	0	%100
21	25	X	-0.004	-0.004	0	%100
22	28	X	-0.004	-0.004	0	%100
23	30	X	-0.004	-0.004	0	%100
24	32	X	-0.005	-0.005	0	%100
25	33	X	-0.005	-0.005	0	%100
26	34	X	-0.002	-0.002	0	%100
27	35	X	-0.005	-0.005	0	%100
28	36	X	-0.005	-0.005	0	%100
29	37	X	-0.003	-0.003	0	%100
30	38	X	-0.005	-0.005	0	%100
31	39	X	-0.005	-0.005	0	%100
32	40	X	-0.004	-0.004	0	%100
33	41	X	-0.004	-0.004	0	%100
34	44	X	-0.004	-0.004	0	%100
35	46	X	-0.004	-0.004	0	%100
36	48	X	-0.005	-0.005	0	%100
37	49	X	-0.005	-0.005	0	%100
38	50	X	-0.002	-0.002	0	%100
39	51	X	-0.002	-0.002	0	%100
40	52	X	-0.002	-0.002	0	%100
41	53	X	-0.002	-0.002	0	%100
42	61	X	-0.002	-0.002	0	%100
43	62	X	-0.002	-0.002	0	%100
44	64	X	-0.002	-0.002	0	%100
45	65	X	-0.002	-0.002	0	%100
46	66	X	-0.002	-0.002	0	%100
47	74	X	-0.002	-0.002	0	%100
48	75	X	-0.002	-0.002	0	%100
49	77	X	-0.002	-0.002	0	%100
50	78	X	-0.002	-0.002	0	%100
51	79	X	-0.002	-0.002	0	%100
52	87	X	-0.002	-0.002	0	%100
53	88	X	-0.002	-0.002	0	%100
54	90	X	-0.002	-0.002	0	%100
55	92	X	-0.002	-0.002	0	%100
56	94	X	-0.002	-0.002	0	%100
57	96	X	-0.002	-0.002	0	%100
58	98	X	-0.002	-0.002	0	%100
59	100	X	-0.002	-0.002	0	%100
60	102	X	-0.002	-0.002	0	%100
61	103	X	-0.006	-0.006	0	%100
62	104	X	-0.006	-0.006	0	%100
63	105	X	-0.006	-0.006	0	%100

Member Distributed Loads (BLC 15 : 90 Wind w/Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
64	106	X	-0.006	-0.006	0	%100
65	108	X	-0.006	-0.006	0	%100
66	110	X	-0.006	-0.006	0	%100

Member Distributed Loads (BLC 16 : 0 Wind Service)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.0004	-0.0004	0	%100
2	2	Z	-0.0009	-0.0009	0	%100
3	3	Z	-0.0009	-0.0009	0	%100
4	4	Z	-0.0001	-0.0001	0	%100
5	5	Z	-0.0005	-0.0005	0	%100
6	6	Z	-0.0005	-0.0005	0	%100
7	7	Z	-0.0001	-0.0001	0	%100
8	8	Z	-0.0001	-0.0001	0	%100
9	11	Z	-0.0001	-0.0001	0	%100
10	13	Z	-0.0001	-0.0001	0	%100
11	15	Z	-0.0004	-0.0004	0	%100
12	16	Z	-0.0008	-0.0008	0	%100
13	17	Z	-0.0008	-0.0008	0	%100
14	18	Z	-0.0004	-0.0004	0	%100
15	19	Z	-0.0009	-0.0009	0	%100
16	20	Z	-0.0009	-0.0009	0	%100
17	21	Z	-0.0001	-0.0001	0	%100
18	22	Z	-0.0005	-0.0005	0	%100
19	23	Z	-0.0005	-0.0005	0	%100
20	24	Z	-0.0001	-0.0001	0	%100
21	25	Z	-0.0001	-0.0001	0	%100
22	28	Z	-0.0001	-0.0001	0	%100
23	30	Z	-0.0001	-0.0001	0	%100
24	32	Z	-0.0008	-0.0008	0	%100
25	33	Z	-0.0008	-0.0008	0	%100
26	34	Z	-0.0004	-0.0004	0	%100
27	35	Z	-0.0009	-0.0009	0	%100
28	36	Z	-0.0009	-0.0009	0	%100
29	37	Z	-0.0001	-0.0001	0	%100
30	38	Z	-0.0005	-0.0005	0	%100
31	39	Z	-0.0005	-0.0005	0	%100
32	40	Z	-0.0001	-0.0001	0	%100
33	41	Z	-0.0001	-0.0001	0	%100
34	44	Z	-0.0001	-0.0001	0	%100
35	46	Z	-0.0001	-0.0001	0	%100
36	48	Z	-0.0008	-0.0008	0	%100
37	49	Z	-0.0008	-0.0008	0	%100
38	50	Z	-0.0004	-0.0004	0	%100
39	51	Z	-0.0004	-0.0004	0	%100
40	52	Z	-0.0003	-0.0003	0	%100
41	53	Z	-0.0003	-0.0003	0	%100
42	61	Z	-0.0003	-0.0003	0	%100
43	62	Z	-0.0003	-0.0003	0	%100
44	64	Z	-0.0003	-0.0003	0	%100
45	65	Z	-0.0003	-0.0003	0	%100
46	66	Z	-0.0003	-0.0003	0	%100
47	74	Z	-0.0003	-0.0003	0	%100
48	75	Z	-0.0003	-0.0003	0	%100
49	77	Z	-0.0003	-0.0003	0	%100

Member Distributed Loads (BLC 16 : 0 Wind Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
50	78	Z	-0.0003	-0.0003	0	%100
51	79	Z	-0.0003	-0.0003	0	%100
52	87	Z	-0.0003	-0.0003	0	%100
53	88	Z	-0.0003	-0.0003	0	%100
54	90	Z	-0.0003	-0.0003	0	%100
55	92	Z	-0.0003	-0.0003	0	%100
56	94	Z	-0.0003	-0.0003	0	%100
57	96	Z	-0.0003	-0.0003	0	%100
58	98	Z	-0.0003	-0.0003	0	%100
59	100	Z	-0.0003	-0.0003	0	%100
60	102	Z	-0.0003	-0.0003	0	%100
61	103	Z	-0.002	-0.002	0	%100
62	104	Z	-0.002	-0.002	0	%100
63	105	Z	-0.002	-0.002	0	%100
64	106	Z	-0.001	-0.001	0	%100
65	108	Z	-0.001	-0.001	0	%100
66	110	Z	-0.001	-0.001	0	%100

Member Distributed Loads (BLC 17 : 90 Wind Service)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.0004	-0.0004	0	%100
2	2	X	-0.0009	-0.0009	0	%100
3	3	X	-0.0009	-0.0009	0	%100
4	4	X	-0.0001	-0.0001	0	%100
5	5	X	-0.0005	-0.0005	0	%100
6	6	X	-0.0005	-0.0005	0	%100
7	7	X	-0.0001	-0.0001	0	%100
8	8	X	-0.0001	-0.0001	0	%100
9	11	X	-0.0001	-0.0001	0	%100
10	13	X	-0.0001	-0.0001	0	%100
11	15	X	-0.0004	-0.0004	0	%100
12	16	X	-0.0008	-0.0008	0	%100
13	17	X	-0.0008	-0.0008	0	%100
14	18	X	-0.0004	-0.0004	0	%100
15	19	X	-0.0009	-0.0009	0	%100
16	20	X	-0.0009	-0.0009	0	%100
17	21	X	-0.0001	-0.0001	0	%100
18	22	X	-0.0005	-0.0005	0	%100
19	23	X	-0.0005	-0.0005	0	%100
20	24	X	-0.0001	-0.0001	0	%100
21	25	X	-0.0001	-0.0001	0	%100
22	28	X	-0.0001	-0.0001	0	%100
23	30	X	-0.0001	-0.0001	0	%100
24	32	X	-0.0008	-0.0008	0	%100
25	33	X	-0.0008	-0.0008	0	%100
26	34	X	-0.0004	-0.0004	0	%100
27	35	X	-0.0009	-0.0009	0	%100
28	36	X	-0.0009	-0.0009	0	%100
29	37	X	-0.0001	-0.0001	0	%100
30	38	X	-0.0005	-0.0005	0	%100
31	39	X	-0.0005	-0.0005	0	%100
32	40	X	-0.0001	-0.0001	0	%100
33	41	X	-0.0001	-0.0001	0	%100
34	44	X	-0.0001	-0.0001	0	%100
35	46	X	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 17 : 90 Wind Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
36	48	X	-0.0008	-0.0008	0	%100
37	49	X	-0.0008	-0.0008	0	%100
38	50	X	-0.0004	-0.0004	0	%100
39	51	X	-0.0004	-0.0004	0	%100
40	52	X	-0.0003	-0.0003	0	%100
41	53	X	-0.0003	-0.0003	0	%100
42	61	X	-0.0003	-0.0003	0	%100
43	62	X	-0.0003	-0.0003	0	%100
44	64	X	-0.0003	-0.0003	0	%100
45	65	X	-0.0003	-0.0003	0	%100
46	66	X	-0.0003	-0.0003	0	%100
47	74	X	-0.0003	-0.0003	0	%100
48	75	X	-0.0003	-0.0003	0	%100
49	77	X	-0.0003	-0.0003	0	%100
50	78	X	-0.0003	-0.0003	0	%100
51	79	X	-0.0003	-0.0003	0	%100
52	87	X	-0.0003	-0.0003	0	%100
53	88	X	-0.0003	-0.0003	0	%100
54	90	X	-0.0003	-0.0003	0	%100
55	92	X	-0.0003	-0.0003	0	%100
56	94	X	-0.0003	-0.0003	0	%100
57	96	X	-0.0003	-0.0003	0	%100
58	98	X	-0.0003	-0.0003	0	%100
59	100	X	-0.0003	-0.0003	0	%100
60	102	X	-0.0003	-0.0003	0	%100
61	103	X	-0.002	-0.002	0	%100
62	104	X	-0.002	-0.002	0	%100
63	105	X	-0.002	-0.002	0	%100
64	106	X	-0.001	-0.001	0	%100
65	108	X	-0.001	-0.001	0	%100
66	110	X	-0.001	-0.001	0	%100

Member Distributed Loads (BLC 18 : Ice)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Y	-0.007	-0.007	0	%100
2	2	Y	-0.007	-0.007	0	%100
3	3	Y	-0.007	-0.007	0	%100
4	4	Y	-0.01	-0.01	0	%100
5	5	Y	-0.005	-0.005	0	%100
6	6	Y	-0.005	-0.005	0	%100
7	7	Y	-0.01	-0.01	0	%100
8	8	Y	-0.01	-0.01	0	%100
9	11	Y	-0.01	-0.01	0	%100
10	13	Y	-0.01	-0.01	0	%100
11	15	Y	-0.007	-0.007	0	%100
12	16	Y	-0.006	-0.006	0	%100
13	17	Y	-0.006	-0.006	0	%100
14	18	Y	-0.007	-0.007	0	%100
15	19	Y	-0.007	-0.007	0	%100
16	20	Y	-0.007	-0.007	0	%100
17	21	Y	-0.01	-0.01	0	%100
18	22	Y	-0.005	-0.005	0	%100
19	23	Y	-0.005	-0.005	0	%100
20	24	Y	-0.01	-0.01	0	%100
21	25	Y	-0.01	-0.01	0	%100

Member Distributed Loads (BLC 18 : Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
22	28	Y	-0.01	-0.01	0	%100
23	30	Y	-0.01	-0.01	0	%100
24	32	Y	-0.006	-0.006	0	%100
25	33	Y	-0.006	-0.006	0	%100
26	34	Y	-0.007	-0.007	0	%100
27	35	Y	-0.007	-0.007	0	%100
28	36	Y	-0.007	-0.007	0	%100
29	37	Y	-0.01	-0.01	0	%100
30	38	Y	-0.005	-0.005	0	%100
31	39	Y	-0.005	-0.005	0	%100
32	40	Y	-0.01	-0.01	0	%100
33	41	Y	-0.01	-0.01	0	%100
34	44	Y	-0.01	-0.01	0	%100
35	46	Y	-0.01	-0.01	0	%100
36	48	Y	-0.006	-0.006	0	%100
37	49	Y	-0.006	-0.006	0	%100
38	50	Y	-0.007	-0.007	0	%100
39	51	Y	-0.007	-0.007	0	%100
40	52	Y	-0.005	-0.005	0	%100
41	53	Y	-0.005	-0.005	0	%100
42	61	Y	-0.006	-0.006	0	%100
43	62	Y	-0.006	-0.006	0	%100
44	64	Y	-0.006	-0.006	0	%100
45	65	Y	-0.005	-0.005	0	%100
46	66	Y	-0.005	-0.005	0	%100
47	74	Y	-0.006	-0.006	0	%100
48	75	Y	-0.006	-0.006	0	%100
49	77	Y	-0.006	-0.006	0	%100
50	78	Y	-0.005	-0.005	0	%100
51	79	Y	-0.005	-0.005	0	%100
52	87	Y	-0.006	-0.006	0	%100
53	88	Y	-0.006	-0.006	0	%100
54	90	Y	-0.006	-0.006	0	%100
55	92	Y	-0.005	-0.005	0	%100
56	94	Y	-0.005	-0.005	0	%100
57	96	Y	-0.005	-0.005	0	%100
58	98	Y	-0.005	-0.005	0	%100
59	100	Y	-0.005	-0.005	0	%100
60	102	Y	-0.005	-0.005	0	%100
61	103	Y	-0.013	-0.013	0	%100
62	104	Y	-0.013	-0.013	0	%100
63	105	Y	-0.013	-0.013	0	%100
64	106	Y	-0.012	-0.012	0	%100
65	108	Y	-0.012	-0.012	0	%100
66	110	Y	-0.012	-0.012	0	%100

Member Distributed Loads (BLC 19 : 0 Seismic)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.0009	-0.0009	0	%100
2	2	Z	-0.0005	-0.0005	0	%100
3	3	Z	-0.0005	-0.0005	0	%100
4	4	Z	-0.0008	-0.0008	0	%100
5	5	Z	-0.0003	-0.0003	0	%100
6	6	Z	-0.0003	-0.0003	0	%100
7	7	Z	-0.0008	-0.0008	0	%100

Member Distributed Loads (BLC 19 : 0 Seismic) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
8	8	Z	-0.0008	-0.0008	0	%100
9	11	Z	-0.0008	-0.0008	0	%100
10	13	Z	-0.0008	-0.0008	0	%100
11	15	Z	-0.0009	-0.0009	0	%100
12	16	Z	-0.0003	-0.0003	0	%100
13	17	Z	-0.0003	-0.0003	0	%100
14	18	Z	-0.0009	-0.0009	0	%100
15	19	Z	-0.0005	-0.0005	0	%100
16	20	Z	-0.0005	-0.0005	0	%100
17	21	Z	-0.0008	-0.0008	0	%100
18	22	Z	-0.0003	-0.0003	0	%100
19	23	Z	-0.0003	-0.0003	0	%100
20	24	Z	-0.0008	-0.0008	0	%100
21	25	Z	-0.0008	-0.0008	0	%100
22	28	Z	-0.0008	-0.0008	0	%100
23	30	Z	-0.0008	-0.0008	0	%100
24	32	Z	-0.0003	-0.0003	0	%100
25	33	Z	-0.0003	-0.0003	0	%100
26	34	Z	-0.0009	-0.0009	0	%100
27	35	Z	-0.0005	-0.0005	0	%100
28	36	Z	-0.0005	-0.0005	0	%100
29	37	Z	-0.0008	-0.0008	0	%100
30	38	Z	-0.0003	-0.0003	0	%100
31	39	Z	-0.0003	-0.0003	0	%100
32	40	Z	-0.0008	-0.0008	0	%100
33	41	Z	-0.0008	-0.0008	0	%100
34	44	Z	-0.0008	-0.0008	0	%100
35	46	Z	-0.0008	-0.0008	0	%100
36	48	Z	-0.0003	-0.0003	0	%100
37	49	Z	-0.0003	-0.0003	0	%100
38	50	Z	-0.0009	-0.0009	0	%100
39	51	Z	-0.0009	-0.0009	0	%100
40	52	Z	-0.0004	-0.0004	0	%100
41	53	Z	-0.0004	-0.0004	0	%100
42	61	Z	-0.0007	-0.0007	0	%100
43	62	Z	-0.0007	-0.0007	0	%100
44	64	Z	-0.0007	-0.0007	0	%100
45	65	Z	-0.0004	-0.0004	0	%100
46	66	Z	-0.0004	-0.0004	0	%100
47	74	Z	-0.0007	-0.0007	0	%100
48	75	Z	-0.0007	-0.0007	0	%100
49	77	Z	-0.0007	-0.0007	0	%100
50	78	Z	-0.0004	-0.0004	0	%100
51	79	Z	-0.0004	-0.0004	0	%100
52	87	Z	-0.0007	-0.0007	0	%100
53	88	Z	-0.0007	-0.0007	0	%100
54	90	Z	-0.0007	-0.0007	0	%100
55	92	Z	-0.0003	-0.0003	0	%100
56	94	Z	-0.0003	-0.0003	0	%100
57	96	Z	-0.0003	-0.0003	0	%100
58	98	Z	-0.0003	-0.0003	0	%100
59	100	Z	-0.0003	-0.0003	0	%100
60	102	Z	-0.0003	-0.0003	0	%100
61	103	Z	-0.001	-0.001	0	%100
62	104	Z	-0.001	-0.001	0	%100

Member Distributed Loads (BLC 19 : 0 Seismic) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
63	105	Z	-0.001	-0.001	0	%100
64	106	Z	-0.0007	-0.0007	0	%100
65	108	Z	-0.0007	-0.0007	0	%100
66	110	Z	-0.0007	-0.0007	0	%100

Member Distributed Loads (BLC 20 : 90 Seismic)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.0009	-0.0009	0	%100
2	2	X	-0.0005	-0.0005	0	%100
3	3	X	-0.0005	-0.0005	0	%100
4	4	X	-0.0008	-0.0008	0	%100
5	5	X	-0.0003	-0.0003	0	%100
6	6	X	-0.0003	-0.0003	0	%100
7	7	X	-0.0008	-0.0008	0	%100
8	8	X	-0.0008	-0.0008	0	%100
9	11	X	-0.0008	-0.0008	0	%100
10	13	X	-0.0008	-0.0008	0	%100
11	15	X	-0.0009	-0.0009	0	%100
12	16	X	-0.0003	-0.0003	0	%100
13	17	X	-0.0003	-0.0003	0	%100
14	18	X	-0.0009	-0.0009	0	%100
15	19	X	-0.0005	-0.0005	0	%100
16	20	X	-0.0005	-0.0005	0	%100
17	21	X	-0.0008	-0.0008	0	%100
18	22	X	-0.0003	-0.0003	0	%100
19	23	X	-0.0003	-0.0003	0	%100
20	24	X	-0.0008	-0.0008	0	%100
21	25	X	-0.0008	-0.0008	0	%100
22	28	X	-0.0008	-0.0008	0	%100
23	30	X	-0.0008	-0.0008	0	%100
24	32	X	-0.0003	-0.0003	0	%100
25	33	X	-0.0003	-0.0003	0	%100
26	34	X	-0.0009	-0.0009	0	%100
27	35	X	-0.0005	-0.0005	0	%100
28	36	X	-0.0005	-0.0005	0	%100
29	37	X	-0.0008	-0.0008	0	%100
30	38	X	-0.0003	-0.0003	0	%100
31	39	X	-0.0003	-0.0003	0	%100
32	40	X	-0.0008	-0.0008	0	%100
33	41	X	-0.0008	-0.0008	0	%100
34	44	X	-0.0008	-0.0008	0	%100
35	46	X	-0.0008	-0.0008	0	%100
36	48	X	-0.0003	-0.0003	0	%100
37	49	X	-0.0003	-0.0003	0	%100
38	50	X	-0.0009	-0.0009	0	%100
39	51	X	-0.0009	-0.0009	0	%100
40	52	X	-0.0004	-0.0004	0	%100
41	53	X	-0.0004	-0.0004	0	%100
42	61	X	-0.0007	-0.0007	0	%100
43	62	X	-0.0007	-0.0007	0	%100
44	64	X	-0.0007	-0.0007	0	%100
45	65	X	-0.0004	-0.0004	0	%100
46	66	X	-0.0004	-0.0004	0	%100
47	74	X	-0.0007	-0.0007	0	%100
48	75	X	-0.0007	-0.0007	0	%100

Member Distributed Loads (BLC 20 : 90 Seismic) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
49	77	X	-0.0007	-0.0007	0	%100
50	78	X	-0.0004	-0.0004	0	%100
51	79	X	-0.0004	-0.0004	0	%100
52	87	X	-0.0007	-0.0007	0	%100
53	88	X	-0.0007	-0.0007	0	%100
54	90	X	-0.0007	-0.0007	0	%100
55	92	X	-0.0003	-0.0003	0	%100
56	94	X	-0.0003	-0.0003	0	%100
57	96	X	-0.0003	-0.0003	0	%100
58	98	X	-0.0003	-0.0003	0	%100
59	100	X	-0.0003	-0.0003	0	%100
60	102	X	-0.0003	-0.0003	0	%100
61	103	X	-0.001	-0.001	0	%100
62	104	X	-0.001	-0.001	0	%100
63	105	X	-0.001	-0.001	0	%100
64	106	X	-0.0007	-0.0007	0	%100
65	108	X	-0.0007	-0.0007	0	%100
66	110	X	-0.0007	-0.0007	0	%100

Member Distributed Loads (BLC 21 : 0 Wind (Members))

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.011	-0.011	0	%100
2	2	Z	-0.014	-0.014	0	%100
3	3	Z	-0.014	-0.014	0	%100
4	4	Z	-0.002	-0.002	0	%100
5	5	Z	-0.008	-0.008	0	%100
6	6	Z	-0.008	-0.008	0	%100
7	7	Z	-0.002	-0.002	0	%100
8	8	Z	-0.002	-0.002	0	%100
9	11	Z	-0.001	-0.001	0	%100
10	13	Z	-0.001	-0.001	0	%100
11	15	Z	-0.012	-0.012	0	%100
12	16	Z	-0.011	-0.011	0	%100
13	17	Z	-0.011	-0.011	0	%100
14	18	Z	-0.011	-0.011	0	%100
15	19	Z	-0.014	-0.014	0	%100
16	20	Z	-0.014	-0.014	0	%100
17	21	Z	-0.002	-0.002	0	%100
18	22	Z	-0.008	-0.008	0	%100
19	23	Z	-0.008	-0.008	0	%100
20	24	Z	-0.002	-0.002	0	%100
21	25	Z	-0.002	-0.002	0	%100
22	28	Z	-0.001	-0.001	0	%100
23	30	Z	-0.001	-0.001	0	%100
24	32	Z	-0.011	-0.011	0	%100
25	33	Z	-0.011	-0.011	0	%100
26	34	Z	-0.011	-0.011	0	%100
27	35	Z	-0.014	-0.014	0	%100
28	36	Z	-0.014	-0.014	0	%100
29	37	Z	-0.002	-0.002	0	%100
30	38	Z	-0.008	-0.008	0	%100
31	39	Z	-0.008	-0.008	0	%100
32	40	Z	-0.002	-0.002	0	%100
33	41	Z	-0.002	-0.002	0	%100
34	44	Z	-0.001	-0.001	0	%100

Member Distributed Loads (BLC 21 : 0 Wind (Members)) (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
35	46	Z	-0.001	-0.001	0 %100
36	48	Z	-0.011	-0.011	0 %100
37	49	Z	-0.011	-0.011	0 %100
38	50	Z	-0.012	-0.012	0 %100
39	51	Z	-0.012	-0.012	0 %100
40	52	Z	-0.008	-0.008	0 %100
41	53	Z	-0.008	-0.008	0 %100
42	61	Z	-0.01	-0.01	0 %100
43	62	Z	-0.01	-0.01	0 %100
44	64	Z	-0.01	-0.01	0 %100
45	65	Z	-0.008	-0.008	0 %100
46	66	Z	-0.008	-0.008	0 %100
47	74	Z	-0.01	-0.01	0 %100
48	75	Z	-0.01	-0.01	0 %100
49	77	Z	-0.01	-0.01	0 %100
50	78	Z	-0.008	-0.008	0 %100
51	79	Z	-0.008	-0.008	0 %100
52	87	Z	-0.01	-0.01	0 %100
53	88	Z	-0.01	-0.01	0 %100
54	90	Z	-0.01	-0.01	0 %100
55	92	Z	-0.008	-0.008	0 %100
56	94	Z	-0.008	-0.008	0 %100
57	96	Z	-0.008	-0.008	0 %100
58	98	Z	-0.008	-0.008	0 %100
59	100	Z	-0.008	-0.008	0 %100
60	102	Z	-0.008	-0.008	0 %100
61	103	Z	-0.024	-0.024	0 %100
62	104	Z	-0.024	-0.024	0 %100
63	105	Z	-0.024	-0.024	0 %100
64	106	Z	-0.021	-0.021	0 %100
65	108	Z	-0.021	-0.021	0 %100
66	110	Z	-0.021	-0.021	0 %100

Member Distributed Loads (BLC 22 : 90 Wind (Members))

Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.011	-0.011	0 %100
2	2	X	-0.014	-0.014	0 %100
3	3	X	-0.014	-0.014	0 %100
4	4	X	-0.002	-0.002	0 %100
5	5	X	-0.008	-0.008	0 %100
6	6	X	-0.008	-0.008	0 %100
7	7	X	-0.002	-0.002	0 %100
8	8	X	-0.002	-0.002	0 %100
9	11	X	-0.001	-0.001	0 %100
10	13	X	-0.001	-0.001	0 %100
11	15	X	-0.012	-0.012	0 %100
12	16	X	-0.011	-0.011	0 %100
13	17	X	-0.011	-0.011	0 %100
14	18	X	-0.011	-0.011	0 %100
15	19	X	-0.014	-0.014	0 %100
16	20	X	-0.014	-0.014	0 %100
17	21	X	-0.002	-0.002	0 %100
18	22	X	-0.008	-0.008	0 %100
19	23	X	-0.008	-0.008	0 %100
20	24	X	-0.002	-0.002	0 %100

Member Distributed Loads (BLC 22 : 90 Wind (Members)) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
21	25	X	-0.002	-0.002	0	%100
22	28	X	-0.001	-0.001	0	%100
23	30	X	-0.001	-0.001	0	%100
24	32	X	-0.011	-0.011	0	%100
25	33	X	-0.011	-0.011	0	%100
26	34	X	-0.011	-0.011	0	%100
27	35	X	-0.014	-0.014	0	%100
28	36	X	-0.014	-0.014	0	%100
29	37	X	-0.002	-0.002	0	%100
30	38	X	-0.008	-0.008	0	%100
31	39	X	-0.008	-0.008	0	%100
32	40	X	-0.002	-0.002	0	%100
33	41	X	-0.002	-0.002	0	%100
34	44	X	-0.001	-0.001	0	%100
35	46	X	-0.001	-0.001	0	%100
36	48	X	-0.011	-0.011	0	%100
37	49	X	-0.011	-0.011	0	%100
38	50	X	-0.012	-0.012	0	%100
39	51	X	-0.012	-0.012	0	%100
40	52	X	-0.008	-0.008	0	%100
41	53	X	-0.008	-0.008	0	%100
42	61	X	-0.01	-0.01	0	%100
43	62	X	-0.01	-0.01	0	%100
44	64	X	-0.01	-0.01	0	%100
45	65	X	-0.008	-0.008	0	%100
46	66	X	-0.008	-0.008	0	%100
47	74	X	-0.01	-0.01	0	%100
48	75	X	-0.01	-0.01	0	%100
49	77	X	-0.01	-0.01	0	%100
50	78	X	-0.008	-0.008	0	%100
51	79	X	-0.008	-0.008	0	%100
52	87	X	-0.01	-0.01	0	%100
53	88	X	-0.01	-0.01	0	%100
54	90	X	-0.01	-0.01	0	%100
55	92	X	-0.008	-0.008	0	%100
56	94	X	-0.008	-0.008	0	%100
57	96	X	-0.008	-0.008	0	%100
58	98	X	-0.008	-0.008	0	%100
59	100	X	-0.008	-0.008	0	%100
60	102	X	-0.008	-0.008	0	%100
61	103	X	-0.024	-0.024	0	%100
62	104	X	-0.024	-0.024	0	%100
63	105	X	-0.024	-0.024	0	%100
64	106	X	-0.021	-0.021	0	%100
65	108	X	-0.021	-0.021	0	%100
66	110	X	-0.021	-0.021	0	%100

Member Distributed Loads (BLC 47 : BLC 1 Transient Area Loads)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	18	Y	-0.012	-0.012	1.133	2.954
2	19	Y	-0.012	-0.012	1.756	2.592
3	20	Y	-0.012	-0.012	0.167	1.002
4	32	Y	-0.009	-0.001	0	4.59
5	33	Y	-0.001	-0.009	0	4.59
6	1	Y	-0.012	-0.012	1.133	2.954

Member Distributed Loads (BLC 47 : BLC 1 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
7	2	Y	-0.012	-0.012	1.756	2.592
8	3	Y	-0.012	-0.012	0.167	1.002
9	16	Y	-0.009	-0.001	0	4.59
10	17	Y	-0.001	-0.009	0	4.59
11	34	Y	-0.012	-0.012	1.133	2.954
12	35	Y	-0.012	-0.012	1.756	2.592
13	36	Y	-0.012	-0.012	0.167	1.002
14	48	Y	-0.009	-0.001	0	4.59
15	49	Y	-0.001	-0.009	0	4.59

Member Distributed Loads (BLC 48 : BLC 18 Transient Area Loads)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	35	Y	-0.007	-0.007	1.756	2.592
2	36	Y	-0.007	-0.007	0.167	1.002
3	48	Y	-0.006	-0.0008213	0	4.59
4	49	Y	-0.0008213	-0.006	0	4.59
5	18	Y	-0.007	-0.007	1.133	2.954
6	19	Y	-0.007	-0.007	1.756	2.592
7	20	Y	-0.007	-0.007	0.167	1.002
8	32	Y	-0.006	-0.0008213	0	4.59
9	33	Y	-0.0008213	-0.006	0	4.59
10	1	Y	-0.007	-0.007	1.133	2.954
11	2	Y	-0.007	-0.007	1.756	2.592
12	3	Y	-0.007	-0.007	0.167	1.002
13	16	Y	-0.006	-0.0008213	0	4.59
14	17	Y	-0.0008213	-0.006	0	4.59
15	34	Y	-0.007	-0.007	1.133	2.954

Member Area Loads (BLC 1 : Dead)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [ksf]	B Magnitude [ksf]	C Magnitude [ksf]	Exclude Braces
1	52	30	53	52	Y	Two Way	-0.01	-0.01	-0.01	Yes
2	26	2	27	26	Y	Two Way	-0.01	-0.01	-0.01	Yes
3	77	55	78	77	Y	Two Way	-0.01	-0.01	-0.01	Yes

Member Area Loads (BLC 18 : Ice)

	Node A	Node B	Node C	Direction	Load Direction	A Magnitude [ksf]	B Magnitude [ksf]	C Magnitude [ksf]	Exclude Braces
1	52	30	53	Y	Two Way	-0.006	-0.006	-0.006	Yes
2	26	2	27	Y	Two Way	-0.006	-0.006	-0.006	Yes
3	77	55	78	Y	Two Way	-0.006	-0.006	-0.006	Yes

Node Loads and Enforced Displacements (BLC 23 : Live Load a)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	97	L	Y	-0.25
2	123	L	Y	-0.25
3	149	L	Y	-0.25

Node Loads and Enforced Displacements (BLC 24 : Live Load b)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s ² /ft, k*s ² *ft)]
1	95	L	Y	-0.25
2	121	L	Y	-0.25
3	147	L	Y	-0.25

Node Loads and Enforced Displacements (BLC 25 : Live Load c)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s ² /ft, k*s ² *ft)]
1	91	L	Y	-0.25
2	117	L	Y	-0.25
3	143	L	Y	-0.25

Node Loads and Enforced Displacements (BLC 26 : Live Load d)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s ² /ft, k*s ² *ft)]
1	87	L	Y	-0.25
2	113	L	Y	-0.25
3	139	L	Y	-0.25

Basic Load Cases

	BLC Description	Category	Y Gravity	Nodal	Point	Distributed	Area(Member)
1	Dead	DL	-1		75		3
2	0 Wind	WL			75		
3	30 Wind	WL			150		
4	60 Wind	WL			150		
5	90 Wind	WL			75		
6	120 Wind	WL			150		
7	150 Wind	WL			150		
8	180 Wind	WL			75		
9	210 Wind	WL			150		
10	240 Wind	WL			150		
11	270 Wind	WL			75		
12	300 Wind	WL			150		
13	330 Wind	WL			150		
14	0 Wind w/Ice	WL			75	66	
15	90 Wind w/Ice	WL			75	66	
16	0 Wind Service	WL			75	66	
17	90 Wind Service	WL			75	66	
18	Ice	OL1			75	66	3
19	0 Seismic	EL			75	66	
20	90 Seismic	EL			75	66	
21	0 Wind (Members)	WL				66	
22	90 Wind (Members)	WL				66	
23	Live Load a	LL		3			
24	Live Load b	LL		3			
25	Live Load c	LL		3			
26	Live Load d	LL		3			
27	Maint LL 1	LL			1		
28	Maint LL 2	LL			1		
29	Maint LL 3	LL			1		
30	Maint LL 4	LL			1		
31	Maint LL 5	LL			1		
32	Maint LL 6	LL			1		
33	Maint LL 7	LL			1		

Basic Load Cases (Continued)

	BLC Description	Category	Y Gravity	Nodal	Point	Distributed	Area(Member)
34	Maint LL 8	LL			1		
35	Maint LL 9	LL			1		
36	Maint LL 10	LL			1		
37	Maint LL 11	LL			1		
38	Maint LL 12	LL			1		
39	Maint LL 13	LL			1		
40	Maint LL 14	LL			1		
41	Maint LL 15	LL			1		
42	Maint LL 16	LL					
43	Maint LL 17	LL					
44	Maint LL 18	LL					
45	Maint LL 19	LL					
46	Maint LL 20	LL					
47	BLC 1 Transient Area Loads	None				15	
48	BLC 18 Transient Area Loads	None				15	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4 Dead	Yes	Y	1	1.4						
2	1.2 D + 1.0 - 0 W	Yes	Y	1	1.2	2	1	21	1		
3	1.2 D + 1.0 - 30 W	Yes	Y	1	1.2	3	1	21	0.866	22	0.5
4	1.2 D + 1.0 - 60 W	Yes	Y	1	1.2	4	1	22	0.866	21	0.5
5	1.2 D + 1.0 - 90 W	Yes	Y	1	1.2	5	1	22	1		
6	1.2 D + 1.0 - 120 W	Yes	Y	1	1.2	6	1	22	0.866	21	-0.5
7	1.2 D + 1.0 - 150 W	Yes	Y	1	1.2	7	1	21	-0.866	22	0.5
8	1.2 D + 1.0 - 180 W	Yes	Y	1	1.2	8	1	21	-1		
9	1.2 D + 1.0 - 210 W	Yes	Y	1	1.2	9	1	21	-0.866	22	-0.5
10	1.2 D + 1.0 - 240 W	Yes	Y	1	1.2	10	1	22	-0.866	21	-0.5
11	1.2 D + 1.0 - 270 W	Yes	Y	1	1.2	11	1	22	-1		
12	1.2 D + 1.0 - 300 W	Yes	Y	1	1.2	12	1	22	-0.866	21	0.5
13	1.2 D + 1.0 - 330 W	Yes	Y	1	1.2	13	1	21	0.866	22	-0.5
14	1.2 D + 1.0 - 0 W/Ice	Yes	Y	1	1.2	14	1			18	1
15	1.2 D + 1.0 - 30 W/Ice	Yes	Y	1	1.2	14	0.866	15	0.5	18	1
16	1.2 D + 1.0 - 60 W/Ice	Yes	Y	1	1.2	15	0.866	14	0.5	18	1
17	1.2 D + 1.0 - 90 W/Ice	Yes	Y	1	1.2	15	1			18	1
18	1.2 D + 1.0 - 120 W/Ice	Yes	Y	1	1.2	15	0.866	14	-0.5	18	1
19	1.2 D + 1.0 - 150 W/Ice	Yes	Y	1	1.2	14	-0.866	15	0.5	18	1
20	1.2 D + 1.0 - 180 W/Ice	Yes	Y	1	1.2	14	-1			18	1
21	1.2 D + 1.0 - 210 W/Ice	Yes	Y	1	1.2	14	-0.866	15	-0.5	18	1
22	1.2 D + 1.0 - 240 W/Ice	Yes	Y	1	1.2	15	-0.866	14	-0.5	18	1
23	1.2 D + 1.0 - 270 W/Ice	Yes	Y	1	1.2	15	-1			18	1
24	1.2 D + 1.0 - 300 W/Ice	Yes	Y	1	1.2	15	-0.866	14	0.5	18	1
25	1.2 D + 1.0 - 330 W/Ice	Yes	Y	1	1.2	14	0.866	15	-0.5	18	1
26	1.2 D + 1.0 E - 0	Yes	Y	1	1.2	19	1				
27	1.2 D + 1.0 E - 30	Yes	Y	1	1.2	19	0.866	20	0.5		
28	1.2 D + 1.0 E - 60	Yes	Y	1	1.2	20	0.866	19	0.5		
29	1.2 D + 1.0 E - 90	Yes	Y	1	1.2	20	1				
30	1.2 D + 1.0 E - 120	Yes	Y	1	1.2	20	0.866	19	-0.5		
31	1.2 D + 1.0 E - 150	Yes	Y	1	1.2	19	-0.866	20	0.5		
32	1.2 D + 1.0 E - 180	Yes	Y	1	1.2	19	-1				
33	1.2 D + 1.0 E - 210	Yes	Y	1	1.2	19	-0.866	20	-0.5		
34	1.2 D + 1.0 E - 240	Yes	Y	1	1.2	20	-0.866	19	-0.5		
35	1.2 D + 1.0 E - 270	Yes	Y	1	1.2	20	-1				
36	1.2 D + 1.0 E - 300	Yes	Y	1	1.2	20	-0.866	19	0.5		
37	1.2 D + 1.0 E - 330	Yes	Y	1	1.2	19	0.866	20	-0.5		

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
38	1.2 D + 1.5 LL a + Service - 0 W	Yes	Y	1	1.2	16	1			23	1.5
39	1.2 D + 1.5 LL a + Service - 30 W	Yes	Y	1	1.2	16	0.866	17	0.5	23	1.5
40	1.2 D + 1.5 LL a + Service - 60 W	Yes	Y	1	1.2	17	0.866	16	0.5	23	1.5
41	1.2 D + 1.5 LL a + Service - 90 W	Yes	Y	1	1.2	17	1			23	1.5
42	1.2 D + 1.5 LL a + Service - 120 W	Yes	Y	1	1.2	17	0.866	16	-0.5	23	1.5
43	1.2 D + 1.5 LL a + Service - 150 W	Yes	Y	1	1.2	16	-0.866	17	0.5	23	1.5
44	1.2 D + 1.5 LL a + Service - 180 W	Yes	Y	1	1.2	16	-1			23	1.5
45	1.2 D + 1.5 LL a + Service - 210 W	Yes	Y	1	1.2	16	-0.866	17	-0.5	23	1.5
46	1.2 D + 1.5 LL a + Service - 240 W	Yes	Y	1	1.2	17	-0.866	16	-0.5	23	1.5
47	1.2 D + 1.5 LL a + Service - 270 W	Yes	Y	1	1.2	17	-1			23	1.5
48	1.2 D + 1.5 LL a + Service - 300 W	Yes	Y	1	1.2	17	-0.866	16	0.5	23	1.5
49	1.2 D + 1.5 LL a + Service - 330 W	Yes	Y	1	1.2	16	0.866	17	-0.5	23	1.5
50	1.2 D + 1.5 LL b + Service - 0 W	Yes	Y	1	1.2	16	1			24	1.5
51	1.2 D + 1.5 LL b + Service - 30 W	Yes	Y	1	1.2	16	0.866	17	0.5	24	1.5
52	1.2 D + 1.5 LL b + Service - 60 W	Yes	Y	1	1.2	17	0.866	16	0.5	24	1.5
53	1.2 D + 1.5 LL b + Service - 90 W	Yes	Y	1	1.2	17	1			24	1.5
54	1.2 D + 1.5 LL b + Service - 120 W	Yes	Y	1	1.2	17	0.866	16	-0.5	24	1.5
55	1.2 D + 1.5 LL b + Service - 150 W	Yes	Y	1	1.2	16	-0.866	17	0.5	24	1.5
56	1.2 D + 1.5 LL b + Service - 180 W	Yes	Y	1	1.2	16	-1			24	1.5
57	1.2 D + 1.5 LL b + Service - 210 W	Yes	Y	1	1.2	16	-0.866	17	-0.5	24	1.5
58	1.2 D + 1.5 LL b + Service - 240 W	Yes	Y	1	1.2	17	-0.866	16	-0.5	24	1.5
59	1.2 D + 1.5 LL b + Service - 270 W	Yes	Y	1	1.2	17	-1			24	1.5
60	1.2 D + 1.5 LL b + Service - 300 W	Yes	Y	1	1.2	17	-0.866	16	0.5	24	1.5
61	1.2 D + 1.5 LL b + Service - 330 W	Yes	Y	1	1.2	16	0.866	17	-0.5	24	1.5
62	1.2 D + 1.5 LL c + Service - 0 W	Yes	Y	1	1.2	16	1			25	1.5
63	1.2 D + 1.5 LL c + Service - 30 W	Yes	Y	1	1.2	16	0.866	17	0.5	25	1.5
64	1.2 D + 1.5 LL c + Service - 60 W	Yes	Y	1	1.2	17	0.866	16	0.5	25	1.5
65	1.2 D + 1.5 LL c + Service - 90 W	Yes	Y	1	1.2	17	1			25	1.5
66	1.2 D + 1.5 LL c + Service - 120 W	Yes	Y	1	1.2	17	0.866	16	-0.5	25	1.5
67	1.2 D + 1.5 LL c + Service - 150 W	Yes	Y	1	1.2	16	-0.866	17	0.5	25	1.5
68	1.2 D + 1.5 LL c + Service - 180 W	Yes	Y	1	1.2	16	-1			25	1.5
69	1.2 D + 1.5 LL c + Service - 210 W	Yes	Y	1	1.2	16	-0.866	17	-0.5	25	1.5
70	1.2 D + 1.5 LL c + Service - 240 W	Yes	Y	1	1.2	17	-0.866	16	-0.5	25	1.5
71	1.2 D + 1.5 LL c + Service - 270 W	Yes	Y	1	1.2	17	-1			25	1.5
72	1.2 D + 1.5 LL c + Service - 300 W	Yes	Y	1	1.2	17	-0.866	16	0.5	25	1.5
73	1.2 D + 1.5 LL c + Service - 330 W	Yes	Y	1	1.2	16	0.866	17	-0.5	25	1.5
74	1.2 D + 1.5 LL d + Service - 0 W	Yes	Y	1	1.2	16	1			26	1.5
75	1.2 D + 1.5 LL d + Service - 30 W	Yes	Y	1	1.2	16	0.866	17	0.5	26	1.5
76	1.2 D + 1.5 LL d + Service - 60 W	Yes	Y	1	1.2	17	0.866	16	0.5	26	1.5
77	1.2 D + 1.5 LL d + Service - 90 W	Yes	Y	1	1.2	17	1			26	1.5
78	1.2 D + 1.5 LL d + Service - 120 W	Yes	Y	1	1.2	17	0.866	16	-0.5	26	1.5
79	1.2 D + 1.5 LL d + Service - 150 W	Yes	Y	1	1.2	16	-0.866	17	0.5	26	1.5
80	1.2 D + 1.5 LL d + Service - 180 W	Yes	Y	1	1.2	16	-1			26	1.5
81	1.2 D + 1.5 LL d + Service - 210 W	Yes	Y	1	1.2	16	-0.866	17	-0.5	26	1.5
82	1.2 D + 1.5 LL d + Service - 240 W	Yes	Y	1	1.2	17	-0.866	16	-0.5	26	1.5
83	1.2 D + 1.5 LL d + Service - 270 W	Yes	Y	1	1.2	17	-1			26	1.5
84	1.2 D + 1.5 LL d + Service - 300 W	Yes	Y	1	1.2	17	-0.866	16	0.5	26	1.5
85	1.2 D + 1.5 LL d + Service - 330 W	Yes	Y	1	1.2	16	0.866	17	-0.5	26	1.5
86	1.2 D + 1.5 LL Maint (1)	Yes	Y	1	1.2					27	1.5
87	1.2 D + 1.5 LL Maint (2)	Yes	Y	1	1.2					28	1.5
88	1.2 D + 1.5 LL Maint (3)	Yes	Y	1	1.2					29	1.5
89	1.2 D + 1.5 LL Maint (4)	Yes	Y	1	1.2					30	1.5
90	1.2 D + 1.5 LL Maint (5)	Yes	Y	1	1.2					31	1.5
91	1.2 D + 1.5 LL Maint (6)	Yes	Y	1	1.2					32	1.5
92	1.2 D + 1.5 LL Maint (7)	Yes	Y	1	1.2					33	1.5

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
93	1.2 D + 1.5 LL Maint (8)	Yes	Y	1	1.2					34	1.5
94	1.2 D + 1.5 LL Maint (9)	Yes	Y	1	1.2					35	1.5
95	1.2 D + 1.5 LL Maint (10)	Yes	Y	1	1.2					36	1.5
96	1.2 D + 1.5 LL Maint (11)	Yes	Y	1	1.2					37	1.5
97	1.2 D + 1.5 LL Maint (12)	Yes	Y	1	1.2					38	1.5
98	1.2 D + 1.5 LL Maint (13)	Yes	Y	1	1.2					39	1.5
99	1.2 D + 1.5 LL Maint (14)	Yes	Y	1	1.2					40	1.5
100	1.2 D + 1.5 LL Maint (15)	Yes	Y	1	1.2					41	1.5
101	1.2 D + 1.5 LL Maint (16)	Yes	Y	1	1.2					42	1.5
102	1.2 D + 1.5 LL Maint (17)	Yes	Y	1	1.2					43	1.5
103	1.2 D + 1.5 LL Maint (18)	Yes	Y	1	1.2					44	1.5
104	1.2 D + 1.5 LL Maint (19)	Yes	Y	1	1.2					45	1.5
105	1.2 D + 1.5 LL Maint (20)	Yes	Y	1	1.2					46	1.5

Envelope Node Reactions

Node Label			X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	1	max	1.422	5	1.218	8	6.228	2	0.471	20	1.369	11	1.238	11
2		min	-1.421	11	-0.335	2	-4.387	8	0.035	2	-1.368	5	-1.28	5
3	29	max	4.528	6	1.162	12	2.382	13	0.769	3	1.6	3	0.418	9
4		min	-3.106	12	-0.249	6	-3.165	7	-1.055	9	-1.58	9	-0.841	3
5	54	max	3.134	4	1.172	4	2.429	3	0.773	13	1.614	7	0.932	13
6		min	-4.557	10	-0.259	10	-3.219	9	-0.989	7	-1.633	13	-0.466	7
7	189	max	0.046	5	3.253	2	1.217	8	0	105	0	5	0	11
8		min	-0.046	11	-1.303	8	-3.054	2	0	1	0	11	0	5
9	192	max	0.74	12	2.753	6	1.288	6	0	3	0	9	0	9
10		min	-2.23	6	-0.925	12	-0.427	12	0	9	0	3	0	3
11	195	max	2.235	10	2.76	10	1.291	10	0	13	0	13	0	13
12		min	-0.746	4	-0.932	4	-0.43	4	0	7	0	7	0	7
13	Totals:	max	6.069	5	8.494	18	7.348	2						
14		min	-6.069	11	4.109	13	-7.137	8						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	L	Cphi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
1	1	PIPE 3.0	0.584	2	5.642	2	0.327	5	54.99	65.205	5.749	5.749	1	H1-1b	
2	2	C3.38X2.06X.188	0.357	13	0.093	0.459	z	2	38.433	43.394	1.703	4.483	1.576	H1-1b	
3	3	C3.38X2.06X.188	0.383	3	0.1	2.133	z	2	38.433	43.394	1.703	4.483	1.572	H1-1b	
4	4	PL3/8"X6	0.304	2	0.249	0.542	y	2	34.12	72.9	0.57	9.113	1.251	H1-1b	
5	5	PL3/8"X2.375"	0.315	2	0.122	0.257	y	2	26.855	28.856	0.225	1.428	3	H1-1b	
6	6	PL3/8"X2.375"	0.34	2	0.11	0.257	y	2	26.855	28.856	0.225	1.428	3	H1-1b	
7	7	PL3/8"X6	0.174	2	0.217	0.292	y	2	68.997	72.9	0.57	9.113	2.616	H1-1b	
8	8	PL3/8"X6	0.172	2	0.305	0	y	2	68.997	72.9	0.57	9.113	2.869	H1-1b	
9	11	PL3/8"X6	0.157	7	0.212	0	y	15	70.882	72.9	0.57	9.113	1.341	H1-1b	
10	13	PL3/8"X6	0.162	9	0.197	0	y	14	70.882	72.9	0.57	9.113	1.439	H1-1b	
11	15	PIPE 3.0	0.134	11	0.09	0.26	8	28.251	65.205	5.749	5.749	1	H1-1b		
12	16	L2X2X3	0.41	2	0.013	4.59	y	23	8.136	23.393	0.558	1.118	1.5	H2-1	
13	17	L2X2X3	0.451	2	0.017	0	y	15	8.136	23.393	0.558	1.118	1.5	H2-1	
14	18	PIPE 3.0	0.468	6	0.302	5.642	9	54.99	65.205	5.749	5.749	1	H1-1b		
15	19	C3.38X2.06X.188	0.339	20	0.084	0.459	z	13	38.433	43.394	1.694	4.483	1.602	H1-1b	
16	20	C3.38X2.06X.188	0.358	20	0.073	2.133	z	6	38.433	43.394	1.703	4.483	1.596	H1-1b	
17	21	PL3/8"X6	0.246	7	0.225	0.542	y	19	34.12	72.9	0.57	9.113	1.299	H1-1b	
18	22	PL3/8"X2.375"	0.231	6	0.094	0.257	y	6	26.855	28.856	0.225	1.428	3	H1-1b	
19	23	PL3/8"X2.375"	0.278	7	0.096	0.257	y	7	26.855	28.856	0.225	1.428	3	H1-1b	
20	24	PL3/8"X6	0.127	6	0.164	0.292	y	6	68.997	72.9	0.57	9.113	2.59	H1-1b	

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

Member	Shape	Code	Check	Loc	LC	Shear	Check	Loc	Dir	L	Cphi	Pnc	[k]	phi	Pnt	[k]	phi	Mn	y-y	[k-ft]	phi	Mn	z-z	[k-ft]	Cb	Eqn
21	25	PL3/8"X6	0.155	0.125	13	0.267	0	y	7	68.997	72.9	0.57	9.113	3	H1-1b											
22	28	PL3/8"X6	0.138	0.124	10	0.208	0	y	19	70.882	72.9	0.57	9.113	2.419	H1-1b											
23	30	PL3/8"X6	0.179	0.124	2	0.193	0	y	18	70.882	72.9	0.57	9.113	1.892	H1-1b											
24	32	L2X2X3	0.33	4.59	6	0.013	4.59	y	15	8.136	23.393	0.558	1.118	1.5	H2-1											
25	33	L2X2X3	0.366	0	6	0.017	0	y	20	8.136	23.393	0.558	1.118	1.5	H2-1											
26	34	PIPE 3.0	0.47	2.586	10	0.307	5.642	z	13	54.99	65.205	5.749	5.749	1	H1-1b											
27	35	C3.38X2.06X.188	0.335	2.592	21	0.068	0.459	z	10	38.433	43.394	1.703	4.483	1.6	H1-1b											
28	36	C3.38X2.06X.188	0.352	0	21	0.09	2.133	z	3	38.433	43.394	1.694	4.483	1.596	H1-1b											
29	37	PL3/8"X6	0.239	0.542	9	0.222	0.542	y	22	34.12	72.9	0.57	9.113	1.196	H1-1b											
30	38	PL3/8"X2.375"	0.258	0.333	9	0.102	0.257	y	9	26.855	28.856	0.225	1.428	3	H1-1b											
31	39	PL3/8"X2.375"	0.246	0.333	10	0.085	0.257	y	10	26.855	28.856	0.225	1.428	3	H1-1b											
32	40	PL3/8"X6	0.146	0.292	9	0.202	0.292	y	9	68.997	72.9	0.57	9.113	2.683	H1-1b											
33	41	PL3/8"X6	0.127	0	10	0.235	0	y	10	68.997	72.9	0.57	9.113	2.836	H1-1b											
34	44	PL3/8"X6	0.189	0.124	2	0.207	0	y	22	70.882	72.9	0.57	9.113	1.931	H1-1b											
35	46	PL3/8"X6	0.131	0.124	6	0.192	0	y	21	70.882	72.9	0.57	9.113	2.408	H1-1b											
36	48	L2X2X3	0.332	4.59	10	0.013	4.59	y	19	8.136	23.393	0.558	1.118	1.5	H2-1											
37	49	L2X2X3	0.368	0	10	0.017	0	y	24	8.136	23.393	0.558	1.118	1.5	H2-1											
38	50	PIPE 3.0	0.183	4.297	3	0.069	0.26	z	12	28.251	65.205	5.749	5.749	1	H1-1b											
39	51	PIPE 3.0	0.185	4.297	7	0.082	0.26	z	3	28.251	65.205	5.749	5.749	1	H1-1b											
40	52	PIPE 2.0	0.36	0.651	2	0.278	0.651	z	2	6.295	32.13	1.872	1.872	1	H3-6											
41	53	PIPE 2.0	0.217	5.375	6	0.119	5.375	z	13	20.867	32.13	1.872	1.872	1	H1-1b											
42	61	PIPE 2.5	0.284	7.5	11	0.085	7.5	z	9	22.373	50.715	3.596	3.596	1	H1-1b											
43	62	PIPE 2.5	0.176	7.5	10	0.12	7.5	z	2	22.373	50.715	3.596	3.596	1	H1-1b											
44	64	PIPE 2.5	0.293	7.5	11	0.086	7.5	z	13	22.373	50.715	3.596	3.596	1	H1-1b											
45	65	PIPE 2.0	0.416	0.651	2	0.222	0.651	z	7	6.295	32.13	1.872	1.872	1	H1-1b											
46	66	PIPE 2.0	0.293	5.375	3	0.088	5.375	z	4	20.867	32.13	1.872	1.872	1	H1-1b											
47	74	PIPE 2.5	0.394	7.5	3	0.104	7.5	z	2	22.373	50.715	3.596	3.596	1	H1-1b											
48	75	PIPE 2.5	0.255	7.5	2	0.118	7.5	z	13	22.373	50.715	3.596	3.596	1	H1-1b											
49	77	PIPE 2.5	0.419	7.5	3	0.072	7.5	z	4	22.373	50.715	3.596	3.596	1	H1-1b											
50	78	PIPE 2.0	0.372	8.333	2	0.181	0.651	z	10	6.295	32.13	1.872	1.872	1	H1-1b											
51	79	PIPE 2.0	0.314	5.375	2	0.131	5.375	z	2	20.867	32.13	1.872	1.872	1	H1-1b											
52	87	PIPE 2.5	0.405	7.5	13	0.074	7.5	z	6	22.373	50.715	3.596	3.596	1	H1-1b											
53	88	PIPE 2.5	0.236	7.5	13	0.08	7.5	z	5	22.373	50.715	3.596	3.596	1	H1-1b											
54	90	PIPE 2.5	0.398	7.5	7	0.105	7.5	z	2	22.373	50.715	3.596	3.596	1	H1-1b											
55	92	PIPE 2.0	0.463	7.708	5	0.029	7.708	z	5	9.837	32.13	1.872	1.872	1	H1-1b											
56	94	PIPE 2.0	0.389	7.708	5	0.028	7.708	z	5	9.837	32.13	1.872	1.872	1	H1-1b											
57	96	PIPE 2.0	0.462	7.708	5	0.029	7.708	z	5	9.837	32.13	1.872	1.872	1	H1-1b											
58	98	PIPE 2.0	0.388	7.708	5	0.028	7.708	z	5	9.837	32.13	1.872	1.872	1	H1-1b											
59	100	PIPE 2.0	0.462	7.708	11	0.029	7.708	z	11	9.837	32.13	1.872	1.872	1	H1-1b											
60	102	PIPE 2.0	0.388	7.708	11	0.028	7.708	z	11	9.837	32.13	1.872	1.872	1	H1-1b											
61	103	L6.63X4.46X4	0.226	2.02	5	0.036	0	z	4	52.463	87.804	2.444	7.106	1.5	H2-1											
62	104	L6.63X4.46X4	0.342	2.02	9	0.048	0	z	8	52.463	87.804	2.444	7.106	1.5	H2-1											
63	105	L6.63X4.46X4	0.35	2.02	2	0.044	0.715	z	13	52.463	87.804	2.444	7.106	1.5	H2-1											
64	106	LL2.5X2.5X3X3	0.101	0	2	0.005	4.385	z	5	44.485	58.32	3.954	2.55	1	H1-1b*											
65	108	LL2.5X2.5X3X3	0.086	0	6	0.005	4.385	z	9	44.485	58.32	3.954	2.55	1	H1-1b*											
66	110	LL2.5X2.5X3X3	0.086	0	10	0.005	4.385	z	13	44.485	58.32	3.954	2.55	1	H1-1b*											

APPENDIX B

(Additional Calculations)

PROJECT	173228.001.01.0003 - Monoe South, C KSC		
SUBJECT	Platform Mount Analysis		
DATE	02-26-25		



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

Tower Type	:	Monopole		
Ground Elevation	z_s	: 324	ft	[ASCE7 Hazard Tool]
Tower Height	:	195.00	ft	
Mount Elevation	:	175.00	ft	
Antenna Elevation	:	176.50	ft	
Crest Height	:	0	ft	
Risk Category	:	II		[Table 2-1]
Exposure Category	:	B		[Sec. 2.6.5.1.2]
Topography Category	:	1.00		[Sec. 2.6.6.2]
Wind Velocity	V	: 117	mph	[ASCE7 Hazard Tool]
Ice wind Velocity	V_i	: 50	mph	[ASCE7 Hazard Tool]
Service Velocity	V_s	: 30	mph	[ASCE7 Hazard Tool]
Base Ice thickness	t_i	: 1.00	in	[ASCE7 Hazard Tool]
Seismic Design Cat.	:	B		[ASCE7 Hazard Tool]
	S_S	: 0.21		
	S_1	: 0.06		
	S_{DS}	: 0.23		
	S_{D1}	: 0.09		
Gust Factor	G_h	: 1.00		[Sec. 16.6]
Pressure Coefficient	K_z	: 1.16		[Sec. 2.6.5.2]
Topography Facto	K_{zt}	: 1.00		[Sec. 2.6.6]
Elevation Factor	K_e	: 0.99		[Sec. 2.6.8]
Directionality Factor	K_d	: 0.95		[Sec. 16.6]
Shielding Factor	K_a	: 0.90		[Sec. 16.6]
Design Ice Thickness	t_{iz}	: 1.18	in	[Sec. 2.6.10]
Importance Factor	I_e	: 1		[Table 2-3]
Response Coefficient	C_s	: 0.114		[Sec. 2.7.7.1]
Amplification	A_s	: 1		[Sec. 16.7]
	q_z	: 38.15	psf	

PROJECT	173228.001.01.0003 - Monoe South, C KSC		
SUBJECT	Platform Mount Analysis		
DATE	02-26-25		

Bolded Equipment EPA has been adjusted per wind tunnel & CFD testing



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

B+T GRP

Manufacturer	Model	Qty	Height (in ²)	Width (in ²)	Depth (in ²)	Weight (lbs)	C _a A _a (N) (ft ²)	C _a A _a (T) (ft ²)	C _a A _a (N) Ice (ft ²)	C _a A _a (T) Ice (ft ²)	F _A (N) (k)	F _A (T) (k)	F _A (N) Ice (k)	F _A (T) Ice (k)
CCI ANTENNAS	TPA65R-BU6DV2	0.5	71.2	20.7	7.7	68.3	7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
CCI ANTENNAS	TPA65R-BU6DV2	0.5					7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
ERICSSON	AIR 6472 B77G B77M	0.5	36.4	16.1	7.5	92.6	2.47	0.83	3.59	2.26	0.09	0.03	0.02	0.01
ERICSSON	AIR 6472 B77G B77M	0.5					2.47	0.83	3.59	2.26	0.09	0.03	0.02	0.01
CCI ANTENNAS	TPA65R-BU6DV2	0.5	71.2	20.7	7.7	68.3	7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
CCI ANTENNAS	TPA65R-BU6DV2	0.5					7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
ERICSSON	4494 B14/B29	1	20.6	5.9	15.6	57.3	1.31	3.21	2.04	4.12	0.04	0.09	0.01	0.02
ERICSSON	4890 B25/B66	1	20.6	7.0	15.7	67.2	1.49	3.23	2.22	4.15	0.04	0.09	0.01	0.02
RAYCAP	DC6-48-60-18-8F	1	22.3	11.0	11.0	18.9	0.42	0.42	0.57	0.57	0.03	0.03	0.01	0.01
ERICSSON	4490 B5/B12A	1	20.6	7.0	15.6	65.0	1.49	3.21	2.22	4.12	0.04	0.09	0.01	0.02
ERICSSON	RRUS-32 B30	1	29.9	9.5	13.3	77.0	2.98	3.98	4.01	5.05	0.08	0.11	0.02	0.03
CCI ANTENNAS	TPA65R-BU6DV2	0.5	71.2	20.7	7.7	68.3	7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
CCI ANTENNAS	TPA65R-BU6DV2	0.5					7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
ERICSSON	AIR 6472 B77G B77M	0.5	36.4	16.1	7.5	92.6	2.47	0.83	3.59	2.26	0.09	0.03	0.02	0.01
ERICSSON	AIR 6472 B77G B77M	0.5					2.47	0.83	3.59	2.26	0.09	0.03	0.02	0.01
CCI ANTENNAS	TPA65R-BU6DV2	0.5	71.2	20.7	7.7	68.3	7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
CCI ANTENNAS	TPA65R-BU6DV2	0.5					7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02

PROJECT	173228.001.01.0003 - Monoe South, C KSC	
SUBJECT	Platform Mount Analysis	
DATE	02-26-25	

Bolded Equipment EPA has been adjusted per wind tunnel & CFD testing



B+T Group

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

B+T GRP

Manufacturer	Model	Qty	Height (in ²)	Width (in ²)	Depth (in ²)	Weight (lbs)	C _a A _a (N) (ft ²)	C _a A _a (T) (ft ²)	C _a A _a (N) Ice (ft ²)	C _a A _a (T) Ice (ft ²)	F _A (N) (k)	F _A (T) (k)	F _A (N) Ice (k)	F _A (T) Ice (k)
ERICSSON	4494 B14/B29	1	20.6	5.9	15.6	57.3	1.31	3.21	2.04	4.12	0.04	0.09	0.01	0.02
ERICSSON	4890 B25/B66	1	20.6	7.0	15.7	67.2	1.49	3.23	2.22	4.15	0.04	0.09	0.01	0.02
RAYCAP	DC6-48-60-18-8F	1	22.3	11.0	11.0	18.9	0.42	0.42	0.57	0.57	0.03	0.03	0.01	0.01
ERICSSON	4490 B5/B12A	1	20.6	7.0	15.6	65.0	1.49	3.21	2.22	4.12	0.04	0.09	0.01	0.02
ERICSSON	RRUS-32 B30	1	29.9	9.5	13.3	77.0	2.98	3.98	4.01	5.05	0.08	0.11	0.02	0.03
CCI ANTENNAS	TPA65R-BU6DV2	0.5	71.2	20.7	7.7	68.3	7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
CCI ANTENNAS	TPA65R-BU6DV2	0.5					7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
ERICSSON	AIR 6472 B77G B77M	0.5	36.4	16.1	7.5	92.6	2.47	0.83	3.59	2.26	0.09	0.03	0.02	0.01
ERICSSON	AIR 6472 B77G B77M	0.5					2.47	0.83	3.59	2.26	0.09	0.03	0.02	0.01
CCI ANTENNAS	TPA65R-BU6DV2	0.5	71.2	20.7	7.7	68.3	7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
CCI ANTENNAS	TPA65R-BU6DV2	0.5					7.89	4.14	9.08	5.59	0.22	0.10	0.05	0.02
ERICSSON	4494 B14/B29	1		5.9	15.6	57.3	1.31	3.21	2.04	4.12	0.04	0.09	0.01	0.02
ERICSSON	4890 B25/B66	1	20.6	7.0	15.7	67.2	1.49	3.23	2.22	4.15	0.04	0.09	0.01	0.02
RAYCAP	DC6-48-60-18-8F	1		11.0	11.0	18.9	0.42	0.42	0.57	0.57	0.03	0.03	0.01	0.01
ERICSSON	4490 B5/B12A	1	20.6	7.0	15.6	65.0	1.49	3.21	2.22	4.12	0.04	0.09	0.01	0.02
ERICSSON	RRUS-32 B30	1	29.9	9.5	13.3	77.0	2.98	3.98	4.01	5.05	0.08	0.11	0.02	0.03

PROJECT	173228.001.01.0003 - Monoe South, C KSC			
SUBJECT	Platform Mount Analysis			
DATE	02/26/25	PAGE	1	OF 1



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

[REF: AISC 360-05]

Reactions at Bolted Connection

Tension	:	3.219	k
Vertical Shear	:	1.172	k
Horizontal Shear	:	4.557	k
Torsion	:	0.932	k.ft
Moment from Horizontal Forces	:	1.633	k.ft
Moment from Vertical Forces	:	0.989	k.ft

Bolt Parameters

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

Summary of Forces

Shear Resultant Force	:	4.71	k
Force from Horz. Moment	:	2.96	k
Force from Vert. Moment	:	1.79	k
Shear Load / Bolt	:	1.18	k
Tension Load / Bolt	:	0.80	k
Resultant from Moments / Bolt	:	1.73	k

Bolt Checks

Nominal Tensile Stress, F_{nt}	:	90.00	ksi	[AISC Table J3.2]
Available Tensile Stress, ΦR_{nt}	:	20.72	k/bolt	[Eq. J3-1]
Unity Check, Bolt Tension	:	12.23%		OKAY
Nominal Shear Stress, F_{nv}	:	54.00	ksi	[AISC Table J3.2]
Available Shear Stress, ΦR_{nv}	:	12.43	k/bolt	[Eq. J3-1]
Unity Check, Bolt Shear	:	15.93%		OKAY
Unity Check, Combined	:	28.16%		OKAY
Available Bearing Strength, ΦR_n	:	34.66	k/bolt	
Unity Check, Bolt Bearing	:	3.39%		OKAY

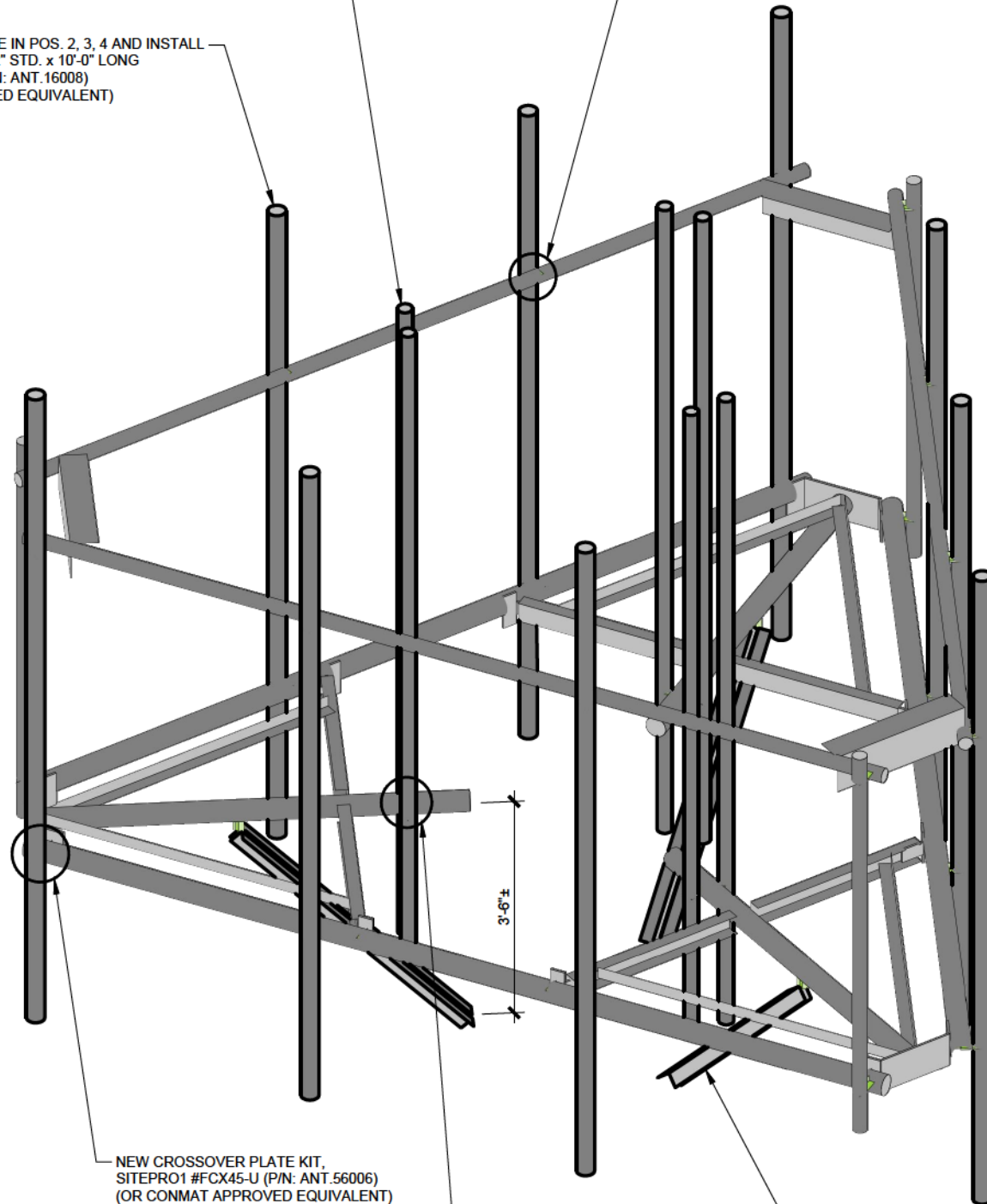
APPENDIX C

(Modification Drawings)

NEW EQUIPMENT PIPE 2.375"x0.12" x 10'-6" LONG
COMMSCOPE #MT-537 (P/N: ANT.16531)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 6 PLACES)

REMOVE EXISTING PIPE IN POS. 2, 3, 4 AND INSTALL
NEW MOUNT PIPE 2-1/2" STD. x 10'-0" LONG
SITEPRO1 #P30120 (P/N: ANT.16008)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 9 PLACES)

NEW CROSSOVER PLATE KIT,
SITEPRO1 #SCX2-K (P/N: CEQ.53317)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 9 PLACES)
RE: S4



NEW CROSSOVER PLATE KIT,
SITEPRO1 #FCX45-U (P/N: ANT.56006)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 9 PLACES)
RE: S3

NEW CROSSOVER PLATE KIT,
SITEPRO1 #FCX45-U (P/N: ANT.56006)
(OR CONMAT APPROVED EQUIVALENT)
(TYP. 6 PLACES)
RE: S3

NEW PLATFORM REINFORCEMENT KIT,
SITEPRO1 #PRK-1245 (P/N: ANT.16462)
(OR CONMAT APPROVED EQUIVALENT)
RE: S2

MODIFICATIONS BASED ON THE FAILING
STRUCTURAL ANALYSIS FROM B+T GROUP
DATED 12/03/24 AND ACCOMPANIED BY
ANALYSIS FROM B+T GROUP DATED 02/26/25

GENERAL NOTES

- 1.1 CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE MOBILIZING ON THE SITE FOR INSTALLATION OF THE MOUNT MODIFICATION AND SHALL NOTIFY THE ENGINEER OF RECORD IF THE FIELD CONDITIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO MOBILIZING AT THE SITE IF THE MOUNT REINFORCEMENT SHOWN WILL NEED TO BE REVISED TO SATISFY FIELD CONDITIONS.
- 1.2 CONTRACTOR SHALL RELOCATE NON-ANTENNA EQUIPMENT ALONG THE EXISTING PIPE MOUNT THAT IT IS MOUNTED TO, TO ALLOW FOR INSTALLATION OF MOUNT REINFORCEMENT. ENGINEER OF RECORD WILL BE NOTIFIED IF NON-ANTENNA EQUIPMENT NEEDS TO BE RELOCATED TO ANY OTHER EXISTING MEMBERS TO ALLOW FOR INSTALLATION OF MOUNT MODIFICATION.
- 1.3 MODIFICATION SHALL BE COMPLETED PRIOR TO ADDING THE PROPOSED APPURTENANCES.
- 1.4 ALL WORK SHALL COMPLY WITH THE TIA-222-H STANDARD, ANSI/TIA-322 AND ANSI/ASSE A10.48, AS WELL AS ANY OTHER GOVERNING BUILDING CODES.
- 1.5 FIELD WORK WILL BE DONE AROUND EXISTING COAXIAL CABLE AND EQUIPMENT. ALL WORK SHALL BE DONE IN A MANNER SUCH THAT NO DAMAGE OCCURS TO THE EXISTING EQUIPMENT OR THE STRUCTURE.
- 1.6 A MINIMUM OF TWO COATS OF ZINGA COLD GALVANIZING COMPOUND (OR APPROVED EQUIVALENT) SHALL BE APPLIED TO ANY FIELD CUTS OR FIELD DRILLED HOLES.
- 1.7 THE USE OF A GAS TORCH OR WELDER WILL NOT BE PERMITTED ON THE TOWER WITHOUT THE CONSENT OF THE OWNER.
- 1.8 ALL FIELD CONNECTIONS SHALL BE MADE WITH A325N BOLTS, U.N.O.
- 1.9 IN LIEU OF TEMPORARY BRACING, CONTRACTOR MAY HAVE A STABILITY ANALYSIS PERFORMED BY AN ENGINEER LICENSED IN THE STATE THE TOWER IS LOCATED. THE ANALYSIS SHALL USE A MINIMUM WIND SPEED OF 45 mph (3-SEC) PER ANSI/TIA-322 and ANSI/ASSE A10.48.
- 1.10 ALL CUTTING AND WELDING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH CCUSA POLICY "CUTTING AND WELDING PLAN" (DOC #ENG-PLN-10015) ON AN ONGOING BASIS THROUGHOUT THE ENTIRE LIFE OF THE PROJECT.
- 1.11 DIMENSIONS WITH "±" MUST BE WITHIN 3" OF THE INDICATED DIMENSION.

FABRICATION

- 2.1 ALL WORK SHALL BE DONE IN ACCORDANCE WITH A.I.S.C. "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- 2.2 STRUCTURAL STEEL SHALL MEET THE FOLLOWING SPECIFICATIONS:

	<u>YIELD</u>	<u>ASTM SPECS</u>
STEEL PIPE, U.N.O.	35ksi	A53 GR B
- 2.3 ALL NEW MATERIAL INCLUDING STRUCTURAL STEEL AND FASTENERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND A153.
- 2.4 WELDING SHALL MEET ANSI/AWS D1.1 STRUCTURAL WELDING CODE (LATEST REVISION). ELECTRODES SHALL BE E80 SERIES.
- 2.5 CONTRACTOR SHALL PROVIDE SHOP FABRICATION DRAWINGS TO B+T GROUP 5 DAYS PRIOR TO FABRICATION.



100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

MONOE SOUTH

88 MAIN STREET
MONROE, CT 06468
FAIRFIELD

EXISTING PLATFORM
AT 175'-00"

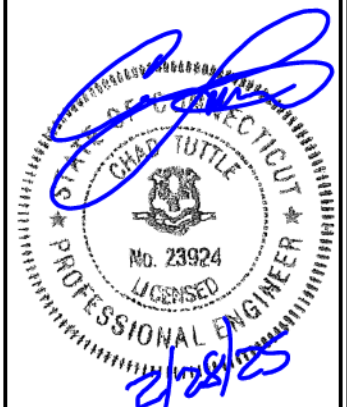
PROJECT NO: 173228.001.01.0003

CHECKED BY: LA

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	02/26/25	NGR	CONSTRUCTION

MTS ENGINEERING, P.L.L.C.
COA: PEC.0002304
Expires 4/11/25



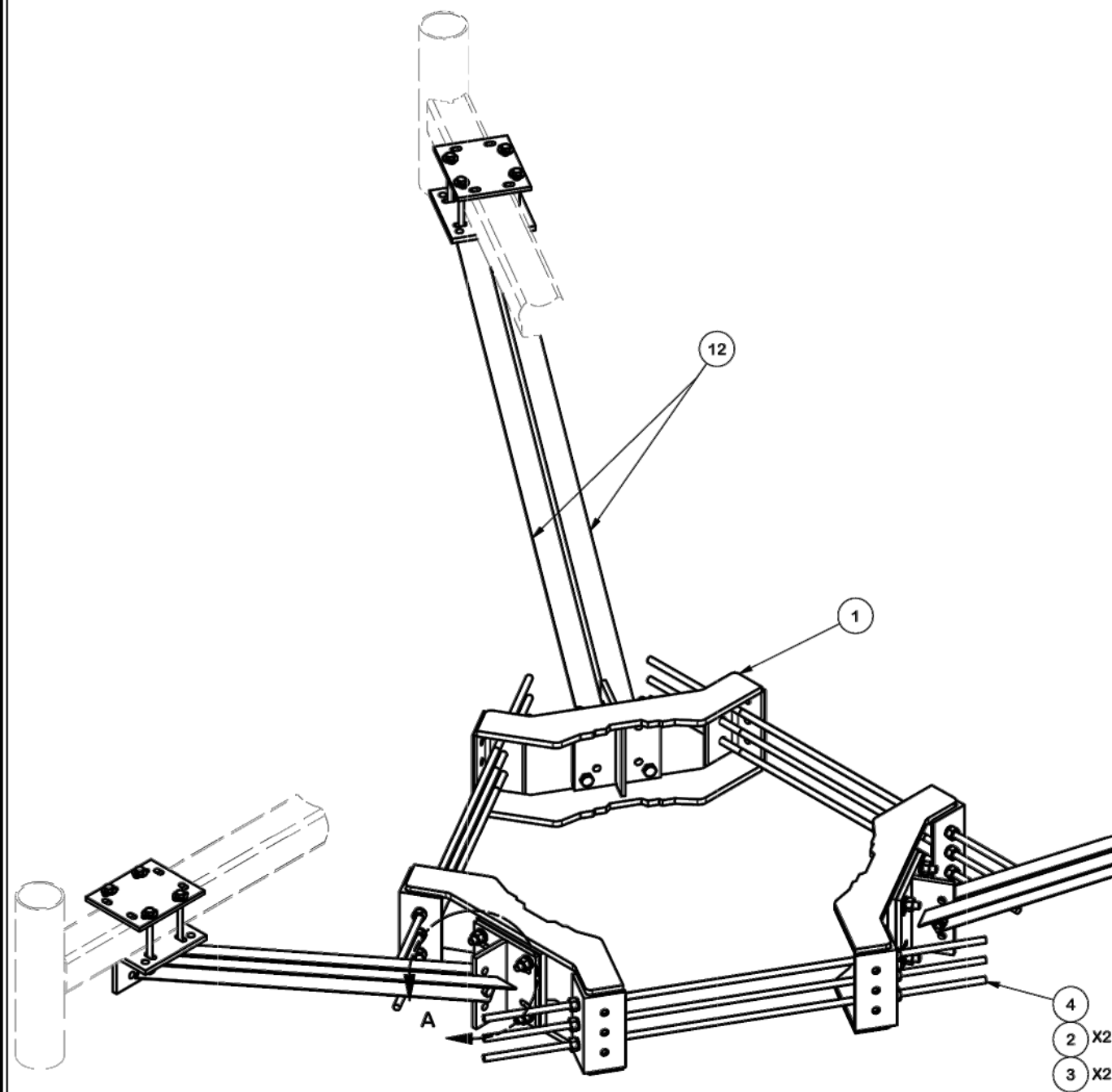
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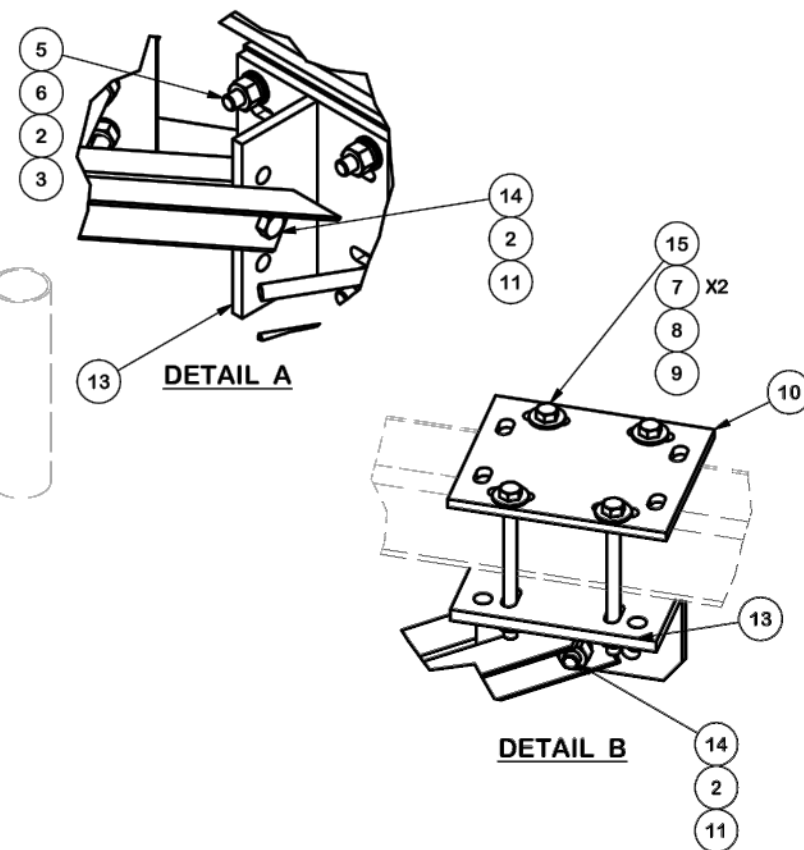
S1 0

1 MODIFIED PLATFORM
SCALE: N.T.S.

173228_001_01_0003_Mount MOD Drawing.dwg - User: SUMANTH - Feb 26, 2025 - 4:29pm



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	36	G58LW	5/8" HDG LOCKWASHER		0.03	0.94
3	30	A58NUT	5/8" HDG A325 HEX NUT		0.13	3.90
4	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)		0.55	4.94
4	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)		0.55	4.94
5	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	4.27
6	12	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.41
7	24	G12FW	1/2" HDG USS FLATWASHER		0.03	0.82
8	12	G12LW	1/2" HDG LOCKWASHER		0.01	0.17
9	12	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.86
10	3	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	18.06
11	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
12	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
13	6	X-253992	T-BRACKET FOR REINFORCEMENT KIT		13.55	81.27
14	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
15	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
TOTAL WT. #						464.91



TOLERANCE NOTES

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

PROPRIETARY NOTE:
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DESCRIPTION

PLATFORM REINFORCEMENT
ON A 12" TO 45" POLE
4' 6" ANGLE

CPD NO.	DRAWN BY	ENG. APPROVAL
4488	CEK 4/10/2014	
CLASS	DRAWING USAGE	CHECKED BY
81	01	CUSTOMER



A valmont COMPANY

Engineering
Support Team:
1-888-753-7446

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

PART NO.	PRK-1245	PAGE
DWG. NO.	PRK-1245	1 OF 2



100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

MONOE SOUTH

88 MAIN STREET
MONROE, CT 06468
FAIRFIELD

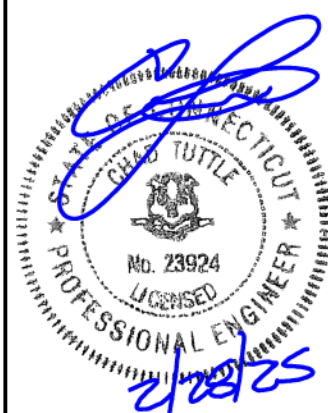
EXISTING PLATFORM
AT 175'-00"

PROJECT NO: 173228.001.01.0003

CHECKED BY: LA

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	02/26/25	NGR	CONSTRUCTION



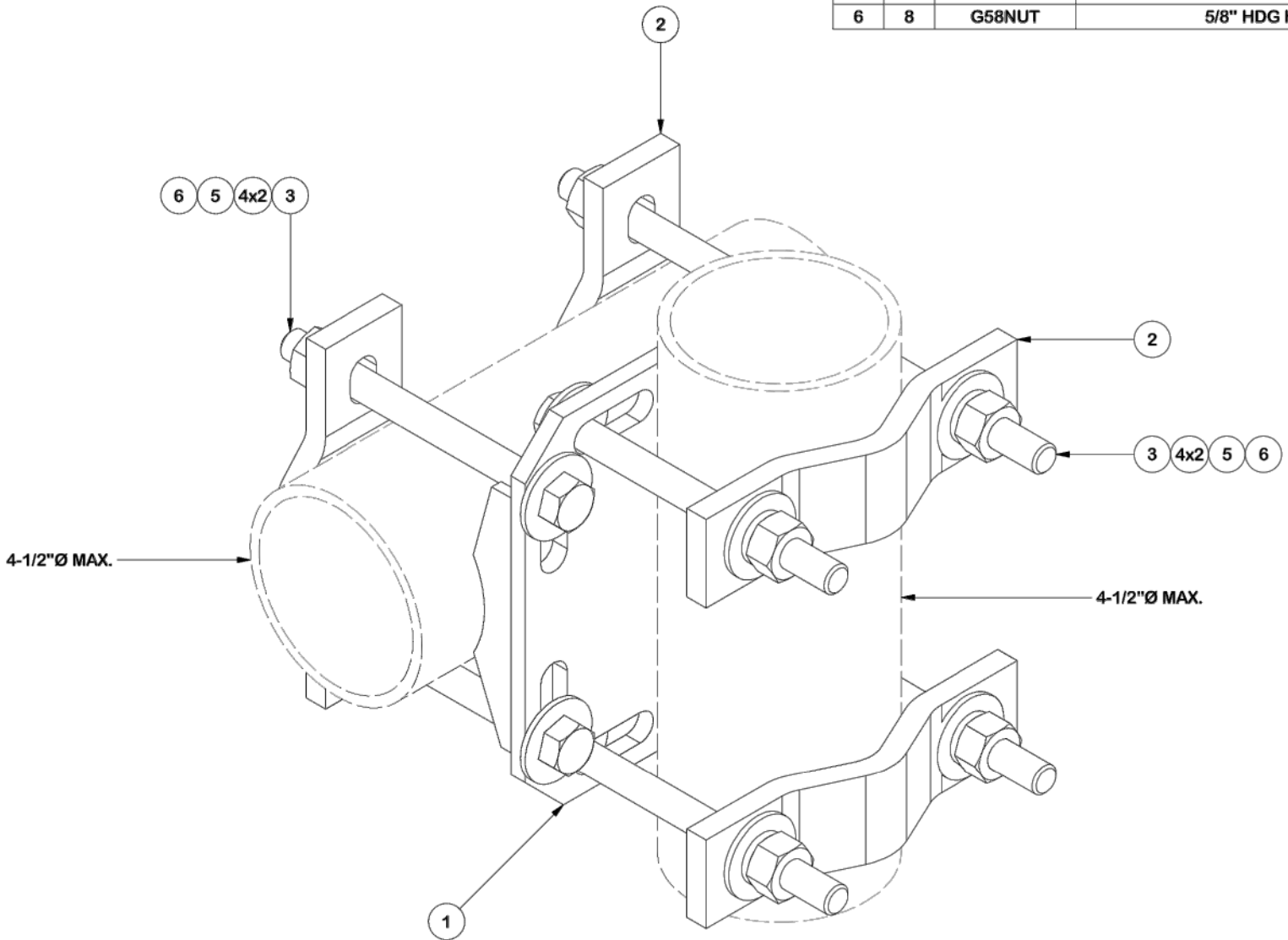
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S2

0

173228_001_01_0003_Mount MOD Drawing.dwg -- Sheet:S3 -- User: SUMANTH -- Feb 26, 2025 -- 4:29pm



FINISH:
HOT DIP GALVANIZED.

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SCX4-FR	4-1/2" FORTRESS CROSSOVER PLATE		8.15	8.15
2	4	DCP	1/2" THICK, 5-3/4" CTR TO CENTER CLAMP HALF	8 1/8 in	2.36	9.45
3	8	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	5.64
4	16	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.13
5	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
6	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
TOTAL WT. #						25.62



B+T GRP
MTS ENGINEERING, P.L.L.C.
1717 S. BOULDER, SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
towersupport@btgrp.com



AT&T

JACOBS

100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

MONOE SOUTH

88 MAIN STREET
MONROE, CT 06468
FAIRFIELD

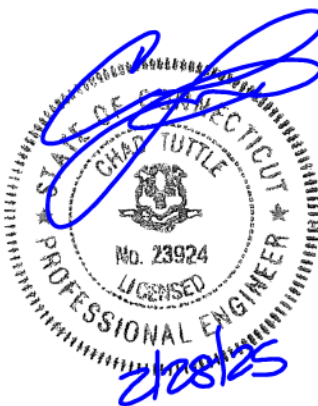
EXISTING PLATFORM
AT 175'-00"

PROJECT NO: 173228.001.01.0003

CHECKED BY: LA

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	02/26/25	NGR	CONSTRUCTION



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S3

REVISION:

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TOLERANCE NOTES

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DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
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ALL OTHER ASSEMBLY ($\pm 0.060"$)

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DESCRIPTION

HEAVY-DUTY UNIVERSAL CROSSOVER KIT

CPD NO.	DRAWN BY	ENG. APPROVAL
	CMFL 9/14/2021	
CLASS	SUB	DRAWING USAGE
87	02	CUSTOMER



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Engineering
Support Team:
1-888-753-7446

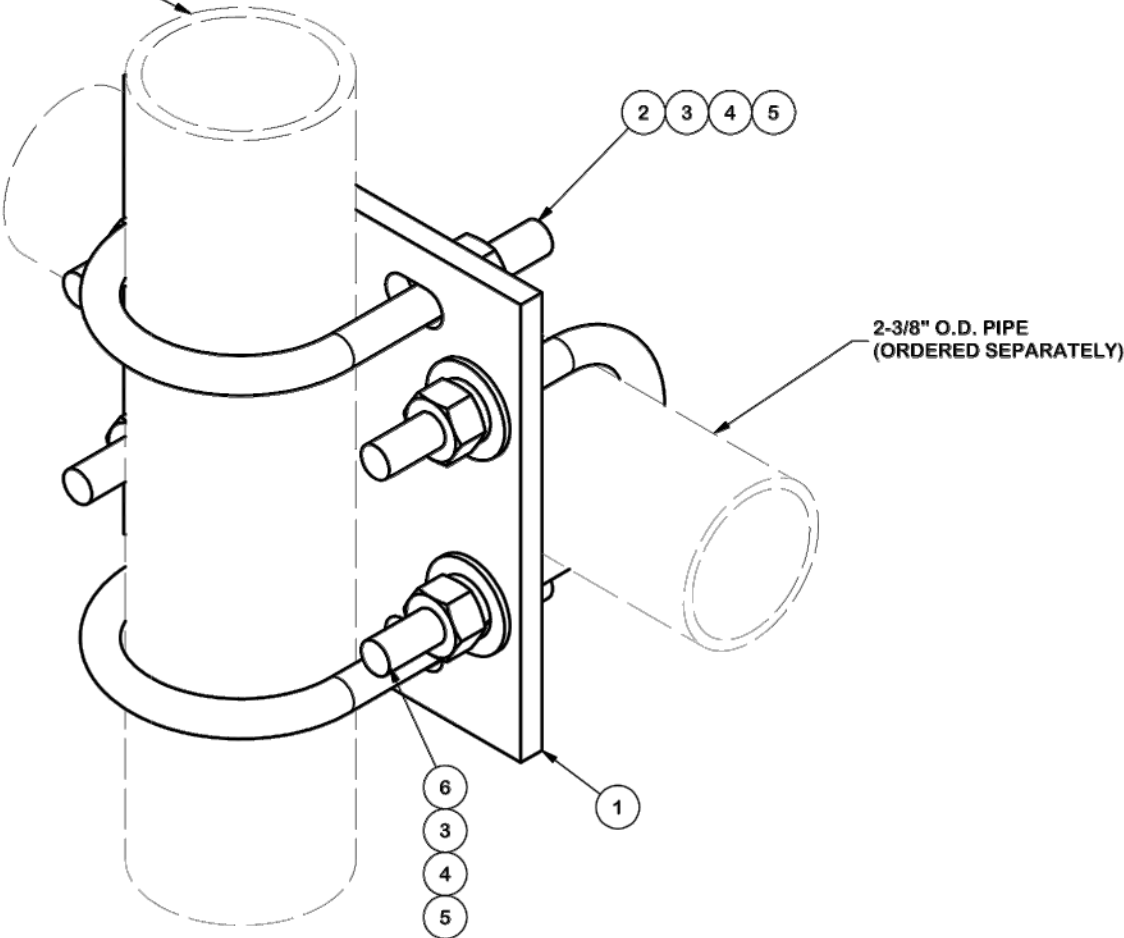
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

PART NO.	FCX45-U
DWG. NO.	FCX45-U

PAGE
1 OF 1

173228_001_01_0003_Mount MOD Drawing.dwg -- User: SUMANTH -- Feb 26, 2025 -- 4:29pm

2-7/8" O.D. ANTENNA PIPE
(ORDERED SEPARATELY)



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX2	CROSSOVER PLATE	7 in	4.80	4.80
2	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.66	1.31
3	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
4	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
6	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	1.25
TOTAL WT. #						8.39



JACOBS

100 SOUTH CHARLES STREET
TOWER TWO, SUITE 1000
BALTIMORE, MD 21201

MONOE SOUTH

88 MAIN STREET
MONROE, CT 06468
FAIRFIELD

EXISTING PLATFORM
AT 175'-00"

PROJECT NO: 173228.001.01.0003

CHECKED BY: LA

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	02/26/25	NGR	CONSTRUCTION



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SHEET NUMBER:

S4

REVISION:

0

TOLERANCE NOTES

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DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
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DESCRIPTION

CROSSOVER
PLATE
KIT

CPD NO.

DRAWN BY

CEK 6/30/2011

ENG. APPROVAL

CLASS

SUB

DRAWING USAGE

SHOP

CHECKED BY

BMC 7/1/2011



A valmont COMPANY

Engineering
Support Team:
1-888-753-7446

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

PART NO.

SCX2-K

DWG. NO.

SCX2-K

PAGE
1 OF 1

88 MAIN ST

Location	88 MAIN ST	Map/Lot	012/ 019/ 0Z/ /
Acct#	0120190Z	Owner	STEPNEY VOLUNTEER FIRE CO
Assessment	\$899,800	Appraisal	\$1,285,400
PID	16246	Building Count	1
Survey		Affordable	

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2024	\$1,085,400	\$200,000	
Assessment			
Valuation Year	Improvements	Land	Total
2024	\$759,800	\$140,000	

Owner of Record

Owner	STEPNEY VOLUNTEER FIRE CO	Sale Price	\$0
Co-Owner	DEBORAH HEIM, TREASURER	Certificate	1
Address	88 MAIN ST	Book & Page	0/0
	MONROE, CT 06468-1637	Sale Date	11/11/2024
		Instrument	

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	S
STEPNEY VOLUNTEER FIRE CO	\$0	1	0/0		1'

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Building Attributes	
Field	Description
Style:	Vacant Land
Model	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Fireplace(s)	
Cndtn	
Woodstove	
Basement Gar.	
Num Park	
Fireplaces	
Attic	
Basement	

Building Photo



(https://images.vgsi.com/photos/MonroeCTPhotos/\00\01\0

Building Layout

(ParcelSketch.ashx?pid=16246&bid=16246)

Building Sub-Areas (sq ft)
No Data for Building Sub-Areas

Accessory Apt	
Fndtn Cndtn	
Basement	

Extra Features

Extra Features
No Data for Extra Features

Parcel Information

Use Code 431
Description TEL REL TW
Deeded Acres 0.23

Land

Land Use	Land Line Valuation
Use Code 431	Size (Acres) 0.23
Description TEL REL TW	Appraised Value \$200,000
Zone I1	
Neighborhood	
Alt Land Approved No	
Category	

Outbuildings

Outbuildings					
Code	Description	Sub Code	Sub Description	Size	Value
RS1	Frame Utility Shed			360.00 S.F.	\$3,600
FN1	FENCE CHAIN			2520.00 L.F.	\$31,800
CELL	Cell Tower Unit			4.00 UNIT	\$1,050,000

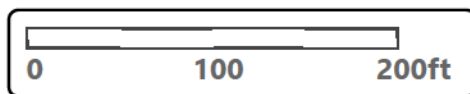
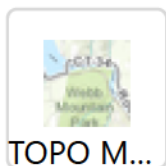
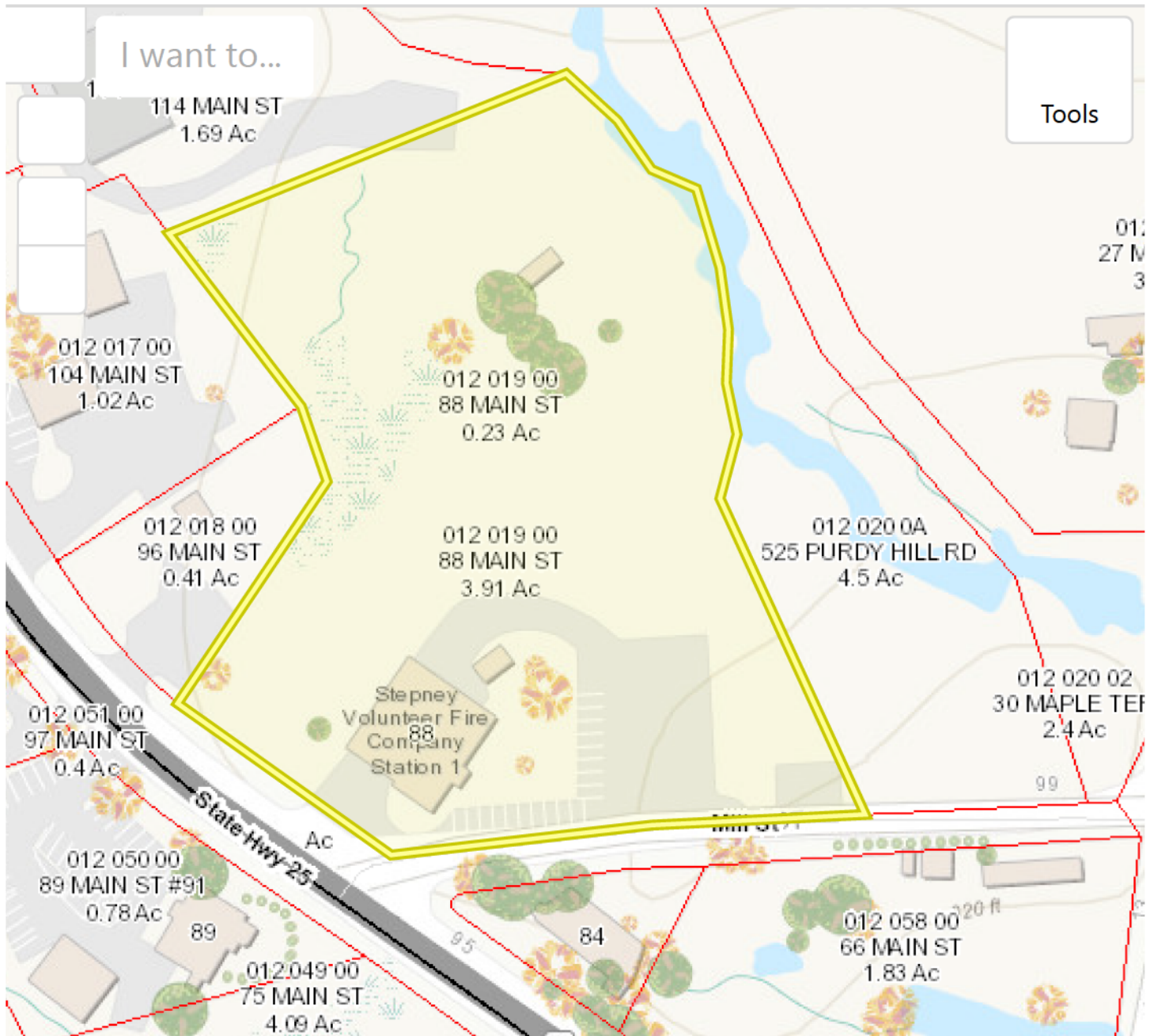
Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2023	\$1,088,900	\$218,500	
2022	\$1,088,900	\$218,500	
2021	\$1,088,900	\$218,500	

Assessment			
Valuation Year	Improvements	Land	Total
2023	\$762,200	\$153,000	
2022	\$762,200	\$153,000	
2021	\$762,200	\$153,000	

Search...

Sign in



KNOW ALL MEN BY THESE PRESENTS, THAT THE TOWN PLANNING AND ZONING COMMISSION OF MONROE, CONNECTICUT, by its own vote on January 11, 2001, granted a Special Exception Permit to --

VoiceStream Wireless, Inc. for property at -

88 Main Street (DI-1 zone) - for construction of new wireless communication facility and associated site improvements as provided in Article XXV of the Zoning Regulations.

FURTHER, the approval is given subject to the following specific conditions:

1. The following plans presented at the hearing concluded November 16, 2000, including revisions and additions herein specified by the Commission, shall be the approved plans of record and basis of approval:

"Site Plan (site address) Stepney Vol. Fire Dept., 88 Main Street, Monroe, CT, SITE #CT 11-215A," by ARCNET Architects, Inc. and Diversified Technology Consultants, Last Revised 10-24-00; Sheet Nos. S-1 (Record Exhibit A), and Z-1 (dated 6-19-00).
2. The final installation tower height be erected at the height proposed in the formal application/presentation (195') above finished grade to accommodate co-location and applicant needs.
3. Adequate area and location shall be reserved on the tower to accommodate the needs of municipal emergency services.
4. The exterior of the westerly and southerly facing sides of the fence enclosure shall be screened with dense evergreen ornamentals approximating the height of the enclosure of a type and nature to be approved by the Commission.
5. Provide copies of relevant final approvals or authorizations of state or federal authorities to the Planning and Zoning Department as a matter of information.
6. Before initiation of the work, final revised plans, based upon the plans of record, shall be filed in the Planning and Zoning Department.
7. The plans shall be revised to incorporate and address all comments in the reviewing reports submitted as part of the application and not previously incorporated into the plans.
8. Final plans shall bear an endorsement block stating:

Re: Special Exception Permit
VoiceStream Wireless, Inc.
88 Main Street - Monroe, CT

Page 2

These plans are the final construction plans and have been reviewed by the Director of Public Works and Town Planner.

Town Planner

Director of Public Works

Said block must appear in the lower right corner of each plan page near the title block.

9. No signs of any nature, other than normal temporary construction signs, are approved by this application. The installation of signs shall be approved only through the normal permit procedure of the Commission.
10. Submittal of all bonds and insurances as required by local and state laws and by the Commission at such times as may be required during the term of construction of the overall project until such time as the improvements or work covered by the applicable bond or insurances is deemed to be acceptably complete by the Commission.
11. A pre-construction conference is to be held with the developer and/or general contractor, engineer and architect, and Town staff, including Town Planner, Director of Public Works, Sanitarian, Building Inspector, Fire Marshal, and police representative prior to any work on the premises.
12. As-built construction plans shall be provided promptly in accordance with Chapter 44 of the Code of the Town of Monroe.
13. Provision of copies of plans, details and/or specifications, as may be required by Town and State agencies from time to time.
14. Should this action be the subject of appeal to the courts, no time limit specified herein shall begin to run until such litigation is fully concluded (date of final court action).
15. The effective date of the special exception permit shall be the date of recording in the Monroe Land Records. It shall be the responsibility of the applicant to record the special exception permit document (prepared by the Planning and Zoning Department) in the Monroe Land Records. Failure to record said document within ninety (90) days of the date of approval shall render the approval null and void.

Re: Special Exception Permit
VoiceStream Wireless, Inc.
88 Main Street - Monroe, CT

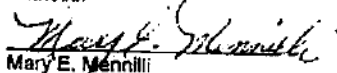
Page 3

16. Failure to meet any specified condition of this approval or maintain compliance with applicable local, state or federal ordinance, regulation or laws may result in the ordered suspension of construction authorizations until such time as such failure or noncompliance has been satisfactorily resolved.
17. Should any changes in site plan be contemplated, they shall be submitted to the Commission for review. Should any changes be considered as major or substantial changes, they shall be applied for under a special exception permit application to modify the approved site plan. Minor changes are considered by the Commission as those which do not change the substance, impact or general locations involved in the proposal and may be authorized by the Commission after appropriate review.
18. It is the responsibility of the owner/developer to notify the Planning and Zoning Department of any change in the status of ownership and/or contractor(s) and/or professional design or inspection consultant involved in the proposal. Additionally, it is the responsibility of the owner/developer to notify any new owner and/or contractor(s) and/or consultants of all construction requirements including all job meeting notes and inspection notes produced up to the date of any such change in project related personnel.
19. This permit and all conditions specified herein shall be binding in perpetuity upon the applicant and property owner and his (their) heirs, assigns and successors unless otherwise amended by a subsequent act of the Commission.
20. This permit and all conditions specified herein shall be binding in perpetuity upon this parcel and premises unless otherwise amended or invalidated under the terms of this approval or a subsequent act of the Commission.

Dated at Monroe, Connecticut, this 16th day of January, 2001.

TOWN PLANNING & ZONING COMMISSION

Witness:


Mary E. Mennilli


Daniel A. Tuba
Clerk of Commission

REC'D. FOR RECORD *Oct 4 2001*

AT 1:28 P.M. ATTEST *Thomas A. Di Giovanni*
TOWN CLERK



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

May 9, 2002

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

RE: **EM-AT&T-085-020422** - AT&T Wireless notice of intent to modify an existing telecommunications facility located at 88 Main Street, Monroe, Connecticut.

Dear Attorney Fisher:

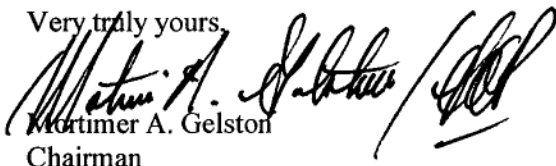
At a public meeting held on May 7, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice received April 22, 2002, and April 29, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Andrew J. Nunn, First Selectman, Town of Monroe
Daniel A. Tuba, Planning Administrator, Town of Monroe
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene, & MacRae

1st Selectman, P+Z Admin, Tower & Property owner
COPIES



Drop-Off Package Receipt

Thanks for choosing us as your package drop off location!

STORE INFORMATION:

Staples #0253
1145 North Colony Road
1145 North Colony Road
Wallingford, CT 06492
(203) 265-2555

Drop-Off Date: 6/14/2025 11:29:00 AM EST

Processed By: Ship Center PC

Drop-Off Packages

Tracking Number

Carrier & Service

4200646818479405530109355167201552	USPS Shipping Service	1st Selectman & Planning & Zoning Admin
4200646816379405530109355167201545	USPS Shipping Service	Property owner copy
4201942829989405530109355167201521	USPS Shipping Service	Tower owner copy

Total Drop-Off Packages: 3

Suspension of Service Guarantee

The UPS Service Guarantee (also referred to as the UPS Money Back Guarantee) is currently active for Next Day Air and International services. The UPS Service Guarantee remains suspended for all other UPS shipments from any origin to any destination.

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USPS Drop-Offs

For prepaid USPS shipment updates, inquiries, tracking, and claims, visit [USPS.com](https://www.usps.com) or call USPS at (1-800-275-8777)

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