



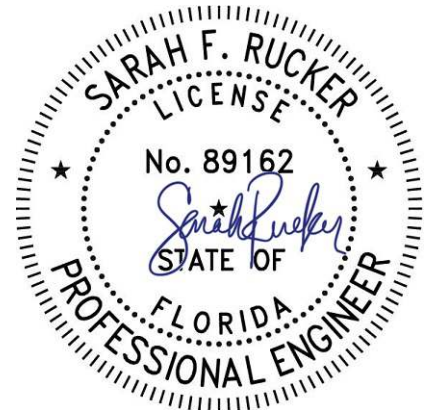
Structural Analysis Report

Structure : 195 ft Monopole
ATC Asset Name : FT WHITE WEST FL
ATC Asset Number : 282213
Engineering Number : 15133535_C3_03
Proposed Carrier : T-MOBILE
Carrier Site Name : 9JK2275A
Carrier Site Number : 9JK2275A
Site Location : 338 SW Lenox Glen
Fort White, FL 32038-0001
29.9536° N, 82.7531° W
County : Columbia
Date : March 24, 2025
Max Usage : 84%
Analysis Result : Pass

Created By:

Timothy Kassakatis
Structural Engineer II

A handwritten signature in black ink, appearing to read 'Tim Kassakatis'.



This item has been electronically signed and sealed by Sarah F. Rucker, PE on the date shown using a digital signature.

Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.

Sarah
Rucker

Digitally signed by
Sarah Rucker
Date: 2025.03.24
16:44:39 -04'00'

COA: 9053

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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 195 ft Monopole to reflect the change in loading by T-MOBILE.

Supporting Documents

Tower:	Nello Drawing #227349, dated February 21, 2014
Foundation:	RWH Engineering Foundation Design, dated October 31, 2014
Geotechnical:	EGSci Geotechnical Investigation, dated January 28, 2014

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	120 mph (3-second gust)
Basic Wind Speed w/ Ice:	No Ice Considered
Code(s):	ANSI/TIA-222-I / 2021 IBC / 8th ED (2023) Florida Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	$S_{05} = 0.10$, $S_{01} = 0.08$
Site Class:	Default

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact Engineering@americantower.com. Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

Structure Usages

Structural Component	Usage	Control	Result
Pole Shaft	74.5%	1.2D + 1.0W	Pass
Serviceability Usage	50.9%	1.0D + 1.0W	Pass
Base Plate @ 0.0 ft	58.5%	Rods	Pass
Foundation	79.9%	Shear	Pass
Foundation	84.5%	Axial	Pass
Foundation	76.6%	Moment	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	4,916.4	57.6	37.0

**Reactions shown reflect the results from the Load Case with maximum Moment excluding Overstrength Load Cases*

Foundation usages were calculated by comparing the maximum reactions from this analysis to the reactions from the original design drawings.

T-MOBILE Final Loading

Elev (ft)	Qty	Equipment	Lines
170.0	1	Andrew Microwaves VHLP4	(1) 0.19" (4.8mm) Fiber (2) 2.00" (50.8mm) Hybrid (1) 3/8" Coax
	1	Platform with Handrails	
	2	Ceragon FibeAir IP-20D-HP	
	3	Commscope FFVV-65C-R2N23	
	3	Ericsson AIR 6419 B41	
	3	Ericsson Radio 4460 B25+B66	
	3	Ericsson Radio 4480 B71+B85	

Install proposed lines outside the pole shaft. Stacking lines is not allowed.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines
195.0	1	Low Profile Platform	(3) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6 (3) 2" conduit
	2	Andrew SBNH-1D8585B	
	2	CCI HPA-33R-BUU-H6	
	3	Commscope NNHH-65B-R4	
	3	Ericsson RRUS 4449 B5, B12	
	3	Ericsson Radio 8843 - B2 + B66A	
	3	Raycap DC6-48-60-18-8C	
	4	Ericsson RRUS 32 (50.8 lbs)	
185.0	1	Low Profile Platform	-
182.0	1	Raycap RCMDC-3315-PF-48 (32 lbs)	(1) 1 1/4" Hybriflex Cable (1) 1 5/8" Hybriflex
	1	Raycap RCMDC-6627-PF-48	
	3	Ericsson 8843 Rev 2	
	3	Ericsson AIR 6449 B77D/ C-Band	
	3	Ericsson Radio 4449 - B13&B5	
	6	Commscope NHH-65C-R2B	

(If table breaks across pages, please see previous page for data in merged cells)



Standard Conditions

All engineering services performed by ATC Tower Services, LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts, and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of ATC Tower Services, LLC

It is the responsibility of the client to ensure that the information provided to ATC Tower Services, LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and ATC Tower Services, LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services, LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

ANALYSIS PARAMETERS

Design Wind:	120 mph	Ice Wind:	30 mph w/ 0.0" ice	Service Wind:	60 mph
Risk Category:	II	Exposure:	C	S _{DI} :	0.080
Topo Factor:	Method 1	Topo Feature:	Flat	S _{DS} :	0.100
Structure Height:	195.0 ft	Base Elevation:	0.00 ft	Structure Type:	Taper
Base Diameter:	64.24 in	Base Rotation:	0.00°	Taper:	0.2380 (in/ft)

POLE SECTION PROPERTIES

Section	Length (ft)	Flat Diameter (in)		Thick (in)	Joint Type	Joint Length (in)	Pole Shape	Yield Strength (ksi)
		Top	Bottom					
1	52.750	51.67	64.24	0.438		0.00	18 Sides	65
2	53.000	41.57	54.21	0.375	Slip Joint	90.00	18 Sides	65
3	53.000	30.99	43.62	0.312	Slip Joint	72.00	18 Sides	65
4	20.000	27.79	32.56	0.250	Slip Joint	54.00	18 Sides	65
5	38.250	20.00	29.12	0.188	Slip Joint	48.00	18 Sides	65

DISCRETE APPURTENANCE

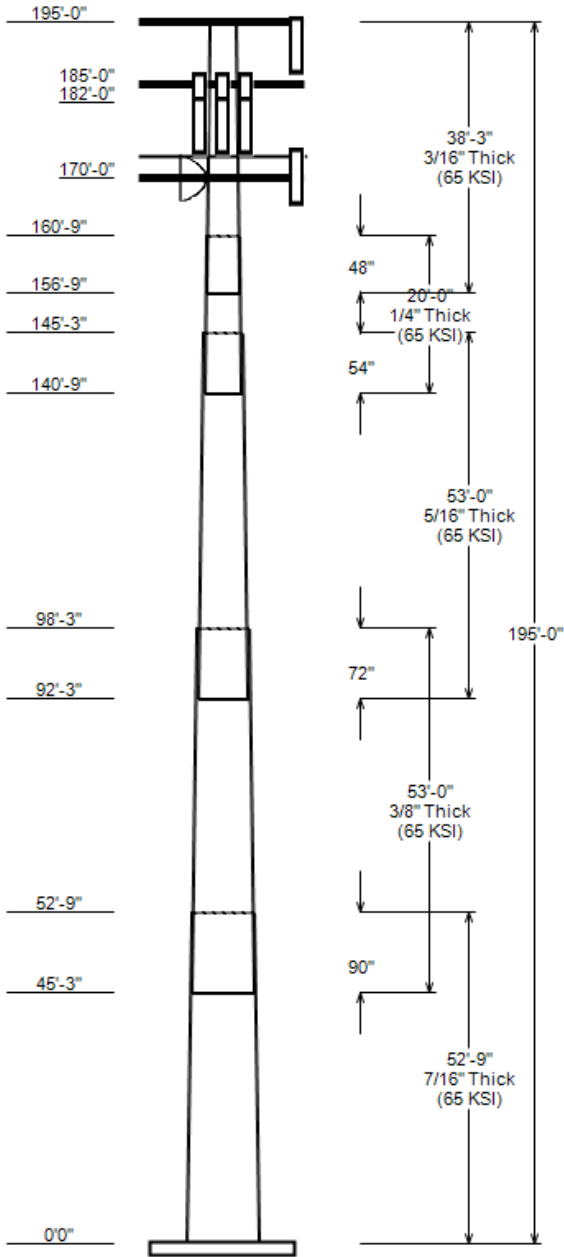
Elev (ft)	Description
195.0	(3) Ericsson RRUS 4449 B5, B12
195.0	(1) Flat Low Profile Platform
195.0	(3) Commscope NNHH-65B-R4
195.0	(3) Raycap DC6-48-60-18-8C
195.0	(4) Ericsson RRUS 32 (50.8 lbs)
195.0	(3) Ericsson Radio 8843 - B2 + B66A
195.0	(2) Andrew SBNH-1D8585B
195.0	(2) CCI HPA-33R-BUU-H6
185.0	(1) Flat Low Profile Platform
182.0	(1) Raycap RCMDC-3315-PF-48 (32 lbs)
182.0	(3) Ericsson AIR 6449 B77D/ C-Band
182.0	(1) Raycap RCMDC-6627-PF-48
182.0	(3) Ericsson 8843 Rev 2
182.0	(3) Ericsson Radio 4449 - B13&B5
182.0	(6) Commscope NHH-65C-R2B
170.0	(1) Generic Platform with Handrails
170.0	(2) Ceragon FibeAir IP-20D-HP
170.0	(3) Commscope FFV-65C-R2N23
170.0	(3) Ericsson AIR 6419 B41
170.0	(1) Andrew Microwaves VHLP4
170.0	(3) Ericsson Radio 4480 B71+B85
170.0	(3) Ericsson Radio 4460 B25+B66

LINEAR APPURTENANCE

Elev To (ft)	Description
195.0	(3) 2" conduit
195.0	(6) 0.78" (19.7mm) 8 AWG 6
195.0	(3) 0.39" (10mm) Fiber Trunk
182.0	(1) 1 5/8" Hybriflex
182.0	(1) 1 1/4" Hybriflex Cable
170.0	(1) 0.19" (4.8mm) Fiber
170.0	(1) 3/8" Coax
170.0	(2) 2.00" (50.8mm) Hybrid

DISH SERVICEABILITY

Load Case	Elevation (ft)	Deflection (in)	Rotation (°)
1.0D + 1.0W	170.0	26.5529	1.6711



GLOBAL BASE REACTIONS

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	4916.38	57.57	37.00
0.9D + 1.0W	4851.88	43.16	36.98
1.2D + 1.0Di + 1.0Wi	389.92	56.10	3.20
1.2D + 1.0Ev + 1.0Eh	233.19	56.61	1.44
0.9D - 1.0Ev + 1.0Eh	229.68	40.84	1.44
1.0D + 1.0W	1092.26	48.01	8.27

ANALYSIS PARAMETERS

Location:	Columbia County,FL	Height:	195 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	64.24 in
Manufacturer:	Undetermined	Top Diameter:	20.00 in
K _d (non-service):	0.95	Taper:	0.2380 in/ft
K _e :	1.00	Rotation:	0.000°

ICE & WIND PARAMETERS

Risk Category:	II	Design Wind Speed:	120 mph
Exposure Category:	C	Design Wind Speed w/ Ice:	30 mph
Design Ice Thickness:	0.00 in		
Topo Factor Procedure:	Method 1		
Crest Height(H):	0 ft	Service Wind Speed:	60 mph
Crest Length(L):	0 ft	HMSL:	61.00 ft
Feature:	Flat	Distance from Apex (x):	0 ft
		Upwind/Downwind:	

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	Default	Period Based on Rayleigh Method (sec):	2.88
T _L (sec):	8	P:	1
S _{ds} :	0.100	S _{d1} :	0.080
		C _s :	0.030
		C _s Max:	0.030
		C _s Min:	0.030

LOAD CASES

1.2D + 1.0W	120 mph Wind with No Ice
0.9D + 1.0W	120 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	30 mph Wind with 0" Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice
1.2D + 1.0Ev + 1.5Eh	Seismic Overstrength
0.9D - 1.0Ev + 1.5Eh	Seismic Overstrength (Reduced DL)

SHAFT SECTION PROPERTIES																			
Section	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						Taper (in/ft)
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	
1-18	52.75	0.4375	65		0.00	14,336	64.24	0.000	88.60	45,574.0	24.13	146.84	51.67	52.75	71.14	23,587.	19.06	118.10	0.2384
2-18	53.00	0.3750	65	Slip	90.00	10,198	54.20	45.250	64.07	23,455.7	23.72	144.55	41.57	98.25	49.03	10,511.	17.78	110.85	0.2384
3-18	53.00	0.3125	65	Slip	72.00	6,617	43.62	92.250	42.96	10,181.1	22.85	139.60	30.99	145.25	30.42	3,616.8	15.72	99.16	0.2384
4-18	20.00	0.2500	65	Slip	54.00	1,616	32.56	140.750	25.64	3,381.3	21.20	130.24	27.79	160.75	21.85	2,094.3	17.84	111.16	0.2384
5-18	38.25	0.1875	65	Slip	48.00	1,888	29.12	156.750	17.22	1,821.0	25.62	155.31	20.00	195.00	11.79	584.7	17.04	106.67	0.2384
Total Shaft Weight						34,655													

DISCRETE APPURTENANCE PROPERTIES										
Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice			Ice		
					Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor
195.00	Ericsson RRUS 32 (50.8 lbs)	4	0.80	0.400	50.80	2.692	0.67	50.80	2.692	0.67
195.00	Raycap DC6-48-60-18-8C	3	0.80	-0.800	16.00	2.030	1.00	16.00	2.030	1.00
195.00	Ericsson RRUS 4449 B5, B12	3	0.80	-0.600	71.00	1.969	0.50	71.00	1.969	0.50
195.00	Ericsson Radio 8843 - B2 + B66	3	0.80	-0.600	71.90	1.650	0.50	71.90	1.650	0.50
195.00	CCI HPA-33R-BUU-H6	2	0.80	-1.400	79.40	14.286	0.72	79.40	14.286	0.72
195.00	Commscope NNHH-65B-R4	3	0.80	-1.600	83.80	12.271	0.64	83.80	12.271	0.64
195.00	Andrew SBNH-1D8585B	2	0.80	-1.600	46.20	8.187	0.69	46.20	8.187	0.69
195.00	Flat Low Profile Platform	1	1.00	0.000	1500.00	26.100	1.00	1500.00	26.100	1.00
185.00	Flat Low Profile Platform	1	1.00	0.000	1500.00	26.100	1.00	1500.00	26.100	1.00
182.00	Commscope NHH-65C-R2B	6	0.80	-0.100	51.60	11.389	0.70	51.60	11.389	0.70
182.00	Raycap RCMDC-6627-PF-48	1	0.75	0.000	32.00	4.056	1.00	32.00	4.056	1.00
182.00	Ericsson AIR 6449 B77D/ C-Band	3	0.75	0.000	81.60	4.028	0.70	81.60	4.028	0.70
182.00	Ericsson 8843 Rev 2	3	0.75	0.000	75.00	1.650	0.50	75.00	1.650	0.50
182.00	Raycap RCMDC-3315-PF-48 (32 lb	1	0.80	1.900	32.00	2.512	0.67	32.00	2.512	0.67
182.00	Ericsson Radio 4449 - B13&B5	3	0.75	0.000	70.00	1.650	0.50	70.00	1.650	0.50
170.00	Ericsson Radio 4480 B71+B85	3	0.75	0.000	93.00	2.798	0.67	93.00	2.798	0.67
170.00	Ericsson Radio 4460 B25+B66	3	0.75	0.000	109.00	2.564	0.67	109.00	2.564	0.67
170.00	Ceragon FibeAir IP-20D-HP	2	0.75	0.000	26.50	1.187	0.50	26.50	1.187	0.50
170.00	Generic Platform with Handrail	1	1.00	0.000	2500.00	50.000	1.00	2500.00	50.000	1.00
170.00	Ericsson AIR 6419 B41	3	0.75	0.000	68.50	5.600	0.60	68.50	5.600	0.60
170.00	Andrew Microwaves VHLP4	1	0.75	0.000	101.40	17.750	1.00	101.40	17.750	1.00
170.00	Commscope FFFV-65C-R2N23	3	0.75	0.000	103.60	19.396	0.63	103.60	19.396	0.63
Totals	Row Count: 22	55			9,012.60			9,012.60		

LINEAR APPURTENANCE PROPERTIES												
Load Case Azimuth (deg): 0.00												
Elev From (ft)	Elev To (ft)	Qty	Description	Diameter (in)	Weight (lb/ft)	Flat	Max/ Row	Distance Between Rows(in)	Distance Between Cols(in)	Azimuth (deg)	Distance From Face (in)	Exposed To Wind Carrier
0.00	195.00	6	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N AT&T MOBILITY
0.00	195.00	3	2" conduit	2.38	3.65	N	0	0	0	0	0	N AT&T MOBILITY
0.00	195.00	3	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N AT&T MOBILITY
0.00	182.00	1	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N VERIZON WIRELESS
0.00	182.00	1	1 1/4" Hybriflex Cabl	1.54	1	N	0	0	0	0	0	N VERIZON WIRELESS
0.00	170.00	2	2.00" (50.8mm) Hybrid	2	3.09	N	2	1.5	1.5	90	1.5	Y T-MOBILE
0.00	170.00	1	0.19" (4.8mm) Fiber	0.19	0.02	N	1	0.6	0.6	90	0.6	Y T-MOBILE
0.00	170.00	1	3/8" Coax	0.44	0.08	N	1	0.72	0.72	90	0.72	Y T-MOBILE

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

SEGMENT PROPERTIES												
Seg Top Elev (ft)	Description	(Max Length: 5 ft)	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)
0.00			0.4375	64.244	88.600	45,574.00	24.13	146.84	73	1397.2	0.0	0.0
5.00			0.4375	63.052	86.945	43,066.90	23.65	144.12	73.6	1345.3	0.0	1,493.4
10.00			0.4375	61.860	85.289	40,653.50	23.17	141.39	74.2	1294.4	0.0	1,465.2
15.00			0.4375	60.668	83.634	38,332.00	22.69	138.67	74.7	1244.5	0.0	1,437.0
20.00			0.4375	59.475	81.979	36,100.60	22.21	135.94	75.3	1195.5	0.0	1,408.9
25.00			0.4375	58.283	80.323	33,957.50	21.73	133.22	75.8	1147.6	0.0	1,380.7
30.00			0.4375	57.091	78.668	31,901.00	21.25	130.49	76.4	1100.6	0.0	1,352.5
35.00			0.4375	55.899	77.012	29,929.20	20.77	127.77	77	1054.6	0.0	1,324.4
40.00			0.4375	54.707	75.357	28,040.40	20.29	125.04	77.5	1009.5	0.0	1,296.2
45.00			0.4375	53.515	73.702	26,232.70	19.80	122.32	78.1	965.5	0.0	1,268.0
45.25	Bot - Section 2		0.4375	53.455	73.619	26,144.50	19.78	122.18	78.1	963.3	0.0	62.7
50.00			0.4375	52.322	72.046	24,504.50	19.32	119.59	78.7	922.4	0.0	2,201.9
52.75	Top - Section 1		0.3750	52.417	61.940	21,194.90	22.88	139.78	74.5	796.4	0.0	1,253.2
55.00			0.3750	51.880	61.302	20,546.20	22.63	138.35	74.8	780.0	0.0	471.8
60.00			0.3750	50.688	59.883	19,152.20	22.07	135.17	75.4	744.2	0.0	1,030.9
65.00			0.3750	49.496	58.464	17,822.80	21.51	131.99	76.1	709.2	0.0	1,006.8
70.00			0.3750	48.304	57.045	16,556.40	20.95	128.81	76.8	675.1	0.0	982.6
75.00			0.3750	47.112	55.626	15,351.40	20.39	125.63	77.4	641.8	0.0	958.5
80.00			0.3750	45.919	54.207	14,206.40	19.83	122.45	78.1	609.4	0.0	934.3
85.00			0.3750	44.727	52.788	13,119.70	19.27	119.27	78.7	577.7	0.0	910.2
90.00			0.3750	43.535	51.370	12,090.00	18.71	116.09	79.4	547.0	0.0	886.1
92.25	Bot - Section 3		0.3750	42.999	50.731	11,644.70	18.45	114.66	79.7	533.4	0.0	390.9
95.00			0.3750	42.343	49.951	11,115.60	18.15	112.91	80.1	517.0	0.0	870.0
98.25	Top - Section 2		0.3125	42.193	41.539	9,205.20	22.04	135.02	75.5	429.7	0.0	1,010.9
100.00			0.3125	41.776	41.125	8,932.80	21.81	133.68	75.7	421.2	0.0	246.1
105.00			0.3125	40.584	39.943	8,184.20	21.14	129.87	76.5	397.2	0.0	689.6
110.00			0.3125	39.392	38.760	7,478.70	20.46	126.05	77.3	373.9	0.0	669.5
115.00			0.3125	38.199	37.578	6,814.90	19.79	122.24	78.1	351.4	0.0	649.4
120.00			0.3125	37.007	36.395	6,191.60	19.12	118.42	78.9	329.5	0.0	629.3
125.00			0.3125	35.815	35.213	5,607.60	18.45	114.61	79.7	308.4	0.0	609.2
130.00			0.3125	34.623	34.030	5,061.40	17.77	110.79	80.5	287.9	0.0	589.0
135.00			0.3125	33.431	32.848	4,552.00	17.10	106.98	81.3	268.2	0.0	568.9
140.00			0.3125	32.239	31.666	4,077.90	16.43	103.16	82.1	249.1	0.0	548.8
140.75	Bot - Section 4		0.3125	32.060	31.488	4,009.70	16.33	102.59	82.2	246.3	0.0	80.6
145.00			0.3125	31.046	30.483	3,637.90	15.75	99.35	82.6	230.8	0.0	813.1
145.25	Top - Section 3		0.2500	31.487	24.786	3,055.50	20.44	125.95	77.4	191.1	0.0	47.0
150.00			0.2500	30.354	23.887	2,735.10	19.65	121.42	78.3	177.5	0.0	393.4
155.00			0.2500	29.162	22.941	2,422.80	18.81	116.65	79.3	163.6	0.0	398.4
156.75	Bot - Section 5		0.2500	28.745	22.610	2,319.50	18.51	114.98	79.6	158.9	0.0	135.6
160.00			0.2500	27.970	21.995	2,135.30	17.96	111.88	80.3	150.4	0.0	434.5
160.75	Top - Section 4		0.1875	28.166	16.650	1,646.70	24.72	150.22	72.3	115.2	0.0	98.6
165.00			0.1875	27.153	16.047	1,474.20	23.77	144.82	73.4	106.9	0.0	236.4
170.00			0.1875	25.961	15.338	1,287.20	22.65	138.46	74.8	97.7	0.0	267.0
175.00			0.1875	24.769	14.628	1,116.70	21.53	132.10	76.1	88.8	0.0	254.9
180.00			0.1875	23.576	13.919	962.00	20.41	125.74	77.4	80.4	0.0	242.8
182.00			0.1875	23.100	13.635	904.30	19.96	123.20	77.9	77.1	0.0	93.8
185.00			0.1875	22.384	13.209	822.30	19.29	119.38	78.7	72.4	0.0	137.0
190.00			0.1875	21.192	12.500	696.80	18.17	113.02	80	64.8	0.0	218.7
195.00			0.1875	20.000	11.790	584.70	17.04	106.67	81.4	57.6	0.0	206.6
Total:												34,655.3

CALCULATED FORCES													
Load Case: 1.2D + 1.0W			120 mph Wind with No Ice										27 Iterations
Gust Response Factor:		1.10											
Dead load Factor:		1.20											
Wind Load Factor:		1.00											
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-57.57	-37.00	0.00	-4,916.4	0.00	4,916.38	5,822.66	1,554.93	8,961.06	7,651.95	0	0	0.653

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

CALCULATED FORCES

5.00	-55.54	-36.51	0.00	-4,731.4	0.00	4,731.40	5,758.09	1,525.88	8,629.37	7,424.75	0.08	-0.15	0.647
10.00	-53.55	-36.02	0.00	-4,548.9	0.00	4,548.87	5,691.84	1,496.83	8,303.93	7,198.61	0.32	-0.3	0.642
15.00	-51.59	-35.53	0.00	-4,368.8	0.00	4,368.78	5,623.90	1,467.78	7,984.75	6,973.66	0.72	-0.46	0.636
20.00	-49.67	-35.01	0.00	-4,191.2	0.00	4,191.15	5,554.28	1,438.72	7,671.82	6,750.02	1.29	-0.62	0.630
25.00	-47.78	-34.47	0.00	-4,016.1	0.00	4,016.10	5,482.97	1,409.67	7,365.15	6,527.82	2.03	-0.78	0.625
30.00	-45.93	-33.92	0.00	-3,843.7	0.00	3,843.74	5,409.99	1,380.62	7,064.73	6,307.19	2.93	-0.95	0.619
35.00	-44.12	-33.34	0.00	-3,674.2	0.00	3,674.16	5,335.31	1,351.57	6,770.57	6,088.24	4.01	-1.11	0.612
40.00	-42.34	-32.76	0.00	-3,507.4	0.00	3,507.44	5,258.95	1,322.51	6,482.66	5,871.10	5.27	-1.28	0.606
45.00	-40.64	-32.43	0.00	-3,343.6	0.00	3,343.64	5,180.91	1,293.46	6,201.01	5,655.90	6.7	-1.46	0.600
45.25	-40.51	-32.15	0.00	-3,335.5	0.00	3,335.53	5,176.97	1,292.01	6,187.09	5,645.19	6.78	-1.47	0.599
50.00	-37.68	-31.65	0.00	-3,182.8	0.00	3,182.83	5,101.19	1,264.41	5,925.61	5,442.76	8.33	-1.63	0.593
52.75	-36.06	-31.32	0.00	-3,095.8	0.00	3,095.80	4,152.32	1,087.06	5,109.65	4,449.15	9.3	-1.73	0.705
55.00	-35.37	-30.89	0.00	-3,025.3	0.00	3,025.34	4,125.88	1,075.85	5,004.86	4,374.93	10.14	-1.82	0.701
60.00	-33.91	-30.29	0.00	-2,870.9	0.00	2,870.88	4,065.91	1,050.95	4,775.88	4,210.83	12.15	-2.02	0.691
65.00	-32.48	-29.68	0.00	-2,719.4	0.00	2,719.44	4,004.26	1,026.05	4,552.26	4,048.00	14.38	-2.23	0.681
70.00	-31.08	-29.08	0.00	-2,571.0	0.00	2,571.02	3,940.93	1,001.14	4,334.00	3,886.55	16.82	-2.44	0.670
75.00	-29.71	-28.47	0.00	-2,425.6	0.00	2,425.63	3,875.91	976.24	4,121.10	3,726.61	19.5	-2.66	0.659
80.00	-28.38	-27.87	0.00	-2,283.3	0.00	2,283.27	3,809.21	951.34	3,913.57	3,568.31	22.39	-2.87	0.648
85.00	-27.07	-27.27	0.00	-2,143.9	0.00	2,143.93	3,740.83	926.44	3,711.39	3,411.78	25.52	-3.1	0.636
90.00	-25.82	-26.81	0.00	-2,007.6	0.00	2,007.59	3,670.76	901.54	3,514.58	3,257.13	28.88	-3.32	0.624
92.25	-25.26	-26.52	0.00	-1,947.3	0.00	1,947.27	3,638.68	890.33	3,427.77	3,188.19	30.47	-3.42	0.619
95.00	-24.10	-26.13	0.00	-1,874.4	0.00	1,874.35	3,599.00	876.63	3,323.13	3,104.49	32.48	-3.55	0.611
98.25	-22.76	-25.78	0.00	-1,789.4	0.00	1,789.43	2,821.55	729.01	2,757.63	2,432.35	34.95	-3.71	0.745
100.00	-22.37	-25.41	0.00	-1,744.3	0.00	1,744.31	2,803.69	721.74	2,702.96	2,392.69	36.32	-3.79	0.738
105.00	-21.33	-24.84	0.00	-1,617.3	0.00	1,617.26	2,751.52	700.99	2,549.78	2,280.15	40.43	-4.06	0.718
110.00	-20.32	-24.27	0.00	-1,493.1	0.00	1,493.08	2,697.67	680.24	2,401.07	2,168.83	44.82	-4.33	0.697
115.00	-19.33	-23.71	0.00	-1,371.7	0.00	1,371.74	2,642.13	659.49	2,256.83	2,058.87	49.5	-4.6	0.675
120.00	-18.38	-23.15	0.00	-1,253.2	0.00	1,253.21	2,584.90	638.74	2,117.05	1,950.38	54.46	-4.87	0.651
125.00	-17.45	-22.60	0.00	-1,137.5	0.00	1,137.46	2,526.00	617.99	1,981.74	1,843.49	59.7	-5.15	0.625
130.00	-16.55	-22.06	0.00	-1,024.4	0.00	1,024.44	2,465.41	597.23	1,850.90	1,738.32	65.24	-5.42	0.597
135.00	-15.69	-21.53	0.00	-914.1	0.00	914.13	2,403.13	576.48	1,724.53	1,635.01	71.05	-5.7	0.567
140.00	-14.87	-21.19	0.00	-806.5	0.00	806.48	2,339.18	555.73	1,602.63	1,533.67	77.15	-5.96	0.534
140.75	-14.73	-20.96	0.00	-790.6	0.00	790.58	2,329.44	552.62	1,584.73	1,518.65	78.09	-6.01	0.528
145.00	-13.62	-20.64	0.00	-701.5	0.00	701.50	2,264.75	534.98	1,485.19	1,428.89	83.53	-6.23	0.498
145.25	-13.54	-20.42	0.00	-696.3	0.00	696.34	1,725.54	434.99	1,227.27	1,108.88	83.86	-6.24	0.638
150.00	-12.90	-19.94	0.00	-599.4	0.00	599.36	1,683.17	419.22	1,139.90	1,042.12	90.18	-6.49	0.585
155.00	-12.26	-19.58	0.00	-499.7	0.00	499.68	1,636.94	402.61	1,051.42	973.03	97.12	-6.77	0.523
156.75	-12.03	-19.35	0.00	-465.4	0.00	465.41	1,620.36	396.80	1,021.29	949.15	99.61	-6.87	0.500
160.00	-11.41	-19.11	0.00	-402.5	0.00	402.52	1,589.02	386.01	966.51	905.26	104.34	-7.04	0.454
160.75	-11.26	-18.90	0.00	-388.2	0.00	388.18	1,083.73	292.21	738.42	624.60	105.45	-7.08	0.636
165.00	-10.84	-18.48	0.00	-307.9	0.00	307.88	1,060.67	281.63	685.91	589.02	111.83	-7.28	0.537
170.00	-6.64	-11.72	0.00	-215.5	0.00	215.48	1,031.98	269.18	626.61	547.58	119.58	-7.54	0.402
175.00	-6.25	-11.27	0.00	-156.9	0.00	156.89	1,001.60	256.73	569.98	506.70	127.57	-7.74	0.318
180.00	-5.88	-10.95	0.00	-100.5	0.00	100.52	969.55	244.27	516.04	466.51	135.75	-7.91	0.224
182.00	-4.90	-7.73	0.00	-78.6	0.00	78.61	956.25	239.29	495.22	450.66	139.06	-7.96	0.181
185.00	-3.13	-5.74	0.00	-55.4	0.00	55.43	935.80	231.82	464.78	427.14	144.07	-8.02	0.134
190.00	-2.83	-5.34	0.00	-26.7	0.00	26.71	900.38	219.37	416.21	388.71	152.49	-8.09	0.072
195.00	0.00	-4.89	0.00	0.0	0.00	0.00	863.27	206.92	370.31	351.35	160.96	-8.12	0.001

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

CALCULATED FORCES

Load Case: 0.9D + 1.0W

120 mph Wind with No Ice (Reduced DL)

27 Iterations

Gust Response Factor: 1.10
Dead Load Factor: 0.90
Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-43.16	-36.98	0.00	-4,851.9	0.00	4,851.88	5,822.66	1,554.93	8,961.06	7,651.95	0	0	0.642
5.00	-41.62	-36.45	0.00	-4,667.0	0.00	4,666.99	5,758.09	1,525.88	8,629.37	7,424.75	0.08	-0.15	0.636
10.00	-40.10	-35.93	0.00	-4,484.8	0.00	4,484.75	5,691.84	1,496.83	8,303.93	7,198.61	0.32	-0.3	0.631
15.00	-38.62	-35.40	0.00	-4,305.1	0.00	4,305.13	5,623.90	1,467.78	7,984.75	6,973.66	0.71	-0.45	0.625
20.00	-37.15	-34.85	0.00	-4,128.1	0.00	4,128.14	5,554.28	1,438.72	7,671.82	6,750.02	1.27	-0.61	0.619
25.00	-35.72	-34.28	0.00	-3,953.9	0.00	3,953.88	5,482.97	1,409.67	7,365.15	6,527.82	2	-0.77	0.613
30.00	-34.31	-33.70	0.00	-3,782.5	0.00	3,782.47	5,409.99	1,380.62	7,064.73	6,307.19	2.89	-0.93	0.607
35.00	-32.93	-33.10	0.00	-3,614.0	0.00	3,613.99	5,335.31	1,351.57	6,770.57	6,088.24	3.95	-1.1	0.600
40.00	-31.58	-32.49	0.00	-3,448.5	0.00	3,448.50	5,258.95	1,322.51	6,482.66	5,871.10	5.19	-1.26	0.594
45.00	-30.29	-32.15	0.00	-3,286.0	0.00	3,286.04	5,180.91	1,293.46	6,201.01	5,655.90	6.61	-1.43	0.587
45.25	-30.19	-31.86	0.00	-3,278.0	0.00	3,278.00	5,176.97	1,292.01	6,187.09	5,645.19	6.68	-1.44	0.587
50.00	-28.05	-31.35	0.00	-3,126.7	0.00	3,126.69	5,101.19	1,264.41	5,925.61	5,442.76	8.2	-1.61	0.581
52.75	-26.83	-31.02	0.00	-3,040.5	0.00	3,040.47	4,152.32	1,087.06	5,109.65	4,449.15	9.16	-1.71	0.691
55.00	-26.29	-30.57	0.00	-2,970.7	0.00	2,970.68	4,125.88	1,075.85	5,004.86	4,374.93	9.98	-1.79	0.686
60.00	-25.18	-29.95	0.00	-2,817.8	0.00	2,817.82	4,065.91	1,050.95	4,775.88	4,210.83	11.97	-1.99	0.676
65.00	-24.09	-29.32	0.00	-2,668.1	0.00	2,668.08	4,004.26	1,026.05	4,552.26	4,048.00	14.16	-2.19	0.666
70.00	-23.02	-28.70	0.00	-2,521.5	0.00	2,521.46	3,940.93	1,001.14	4,334.00	3,886.55	16.57	-2.4	0.655
75.00	-21.98	-28.08	0.00	-2,378.0	0.00	2,377.95	3,875.91	976.24	4,121.10	3,726.61	19.19	-2.61	0.645
80.00	-20.96	-27.46	0.00	-2,237.6	0.00	2,237.56	3,809.21	951.34	3,913.57	3,568.31	22.04	-2.82	0.633
85.00	-19.97	-26.85	0.00	-2,100.2	0.00	2,100.25	3,740.83	926.44	3,711.39	3,411.78	25.11	-3.04	0.622
90.00	-19.02	-26.39	0.00	-1,966.0	0.00	1,966.01	3,670.76	901.54	3,514.58	3,257.13	28.42	-3.26	0.610
92.25	-18.59	-26.09	0.00	-1,906.6	0.00	1,906.63	3,638.68	890.33	3,427.77	3,188.19	29.98	-3.36	0.604
95.00	-17.71	-25.70	0.00	-1,834.9	0.00	1,834.89	3,599.00	876.63	3,323.13	3,104.49	31.95	-3.49	0.597
98.25	-16.71	-25.36	0.00	-1,751.4	0.00	1,751.35	2,821.55	729.01	2,757.63	2,432.35	34.38	-3.64	0.727
100.00	-16.40	-24.98	0.00	-1,707.0	0.00	1,706.97	2,803.69	721.74	2,702.96	2,392.69	35.73	-3.72	0.720
105.00	-15.60	-24.39	0.00	-1,582.1	0.00	1,582.08	2,751.52	700.99	2,549.78	2,280.15	39.76	-3.98	0.701
110.00	-14.83	-23.82	0.00	-1,460.1	0.00	1,460.11	2,697.67	680.24	2,401.07	2,168.83	44.08	-4.25	0.680
115.00	-14.08	-23.25	0.00	-1,341.0	0.00	1,341.03	2,642.13	659.49	2,256.83	2,058.87	48.66	-4.51	0.658
120.00	-13.35	-22.68	0.00	-1,224.8	0.00	1,224.81	2,584.90	638.74	2,117.05	1,950.38	53.53	-4.78	0.634
125.00	-12.65	-22.13	0.00	-1,111.4	0.00	1,111.39	2,526.00	617.99	1,981.74	1,843.49	58.68	-5.05	0.609
130.00	-11.96	-21.59	0.00	-1,000.7	0.00	1,000.73	2,465.41	597.23	1,850.90	1,738.32	64.1	-5.32	0.582
135.00	-11.30	-21.06	0.00	-892.8	0.00	892.78	2,403.13	576.48	1,724.53	1,635.01	69.81	-5.58	0.552
140.00	-10.68	-20.73	0.00	-787.5	0.00	787.50	2,339.18	555.73	1,602.63	1,533.67	75.79	-5.85	0.519
140.75	-10.57	-20.49	0.00	-772.0	0.00	771.95	2,329.44	552.62	1,584.73	1,518.65	76.71	-5.89	0.514
145.00	-9.74	-20.19	0.00	-684.9	0.00	684.88	2,264.75	534.98	1,485.19	1,428.89	82.04	-6.11	0.485
145.25	-9.68	-19.96	0.00	-679.8	0.00	679.83	1,725.54	434.99	1,227.27	1,108.88	82.36	-6.12	0.621
150.00	-9.19	-19.48	0.00	-585.0	0.00	585.02	1,683.17	419.22	1,139.90	1,042.12	88.56	-6.36	0.569
155.00	-8.70	-19.13	0.00	-487.6	0.00	487.63	1,636.94	402.61	1,051.42	973.03	95.36	-6.64	0.509
156.75	-8.53	-18.90	0.00	-454.2	0.00	454.15	1,620.36	396.80	1,021.29	949.15	97.81	-6.73	0.486
160.00	-8.06	-18.67	0.00	-392.7	0.00	392.73	1,589.02	386.01	966.51	905.26	102.44	-6.9	0.441
160.75	-7.95	-18.45	0.00	-378.7	0.00	378.73	1,083.73	292.21	738.42	624.60	103.52	-6.94	0.618
165.00	-7.63	-18.03	0.00	-300.3	0.00	300.31	1,060.67	281.63	685.91	589.02	109.78	-7.14	0.521
170.00	-4.65	-11.43	0.00	-210.1	0.00	210.14	1,031.98	269.18	626.61	547.58	117.37	-7.38	0.390
175.00	-4.37	-11.00	0.00	-153.0	0.00	152.96	1,001.60	256.73	569.98	506.70	125.19	-7.58	0.308
180.00	-4.10	-10.69	0.00	-98.0	0.00	97.97	969.55	244.27	516.04	466.51	133.2	-7.74	0.216
182.00	-3.45	-7.51	0.00	-76.6	0.00	76.59	956.25	239.29	495.22	450.66	136.45	-7.79	0.175
185.00	-2.18	-5.60	0.00	-54.0	0.00	54.05	935.80	231.82	464.78	427.14	141.35	-7.86	0.129
190.00	-1.96	-5.21	0.00	-26.0	0.00	26.05	900.38	219.37	416.21	388.71	149.6	-7.93	0.070
195.00	0.00	-4.89	0.00	0.0	0.00	0.00	863.27	206.92	370.31	351.35	157.89	-7.95	0.001

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

CALCULATED FORCES

Load Case: 1.2D + 1.0Di + 1.0Wi						30 mph Wind with 0" Radial Ice						24 Iterations		
Gust Response Factor:		1.10	Ice Dead Load Factor			1.00		Ice Importance Factor						1.00
Dead load Factor:		1.20												
Wind Load Factor:		1.00												
Seg	Pu	Vu	Tu	Mu	Mu	Resultant	Phi	Phi	Phi	Phi	Total	Rotation		
Elev	FY (-)	FX (-)	MY	MZ	MX	Moment	Pn	Vn	Tn	Mn	Deflect	(deg)	Ratio	
(ft)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)			
0.00	-56.10	-3.20	0.00	-389.9	0.00	389.92	5,822.66	1,554.93	8,961.06	7,651.95	0	0	0.061	
5.00	-54.16	-3.15	0.00	-373.9	0.00	373.90	5,758.09	1,525.88	8,629.37	7,424.75	0.01	-0.01	0.060	
10.00	-52.27	-3.10	0.00	-358.2	0.00	358.15	5,691.84	1,496.83	8,303.93	7,198.61	0.03	-0.02	0.059	
15.00	-50.40	-3.04	0.00	-342.7	0.00	342.68	5,623.90	1,467.78	7,984.75	6,973.66	0.06	-0.04	0.058	
20.00	-48.57	-2.99	0.00	-327.5	0.00	327.47	5,554.28	1,438.72	7,671.82	6,750.02	0.1	-0.05	0.057	
25.00	-46.77	-2.93	0.00	-312.5	0.00	312.54	5,482.97	1,409.67	7,365.15	6,527.82	0.16	-0.06	0.056	
30.00	-45.01	-2.87	0.00	-297.9	0.00	297.91	5,409.99	1,380.62	7,064.73	6,307.19	0.23	-0.07	0.056	
35.00	-43.28	-2.81	0.00	-283.6	0.00	283.58	5,335.31	1,351.57	6,770.57	6,088.24	0.32	-0.09	0.055	
40.00	-41.59	-2.74	0.00	-269.6	0.00	269.55	5,258.95	1,322.51	6,482.66	5,871.10	0.41	-0.1	0.054	
45.00	-39.92	-2.71	0.00	-255.8	0.00	255.84	5,180.91	1,293.46	6,201.01	5,655.90	0.53	-0.11	0.053	
45.25	-39.84	-2.68	0.00	-255.2	0.00	255.16	5,176.97	1,292.01	6,187.09	5,645.19	0.53	-0.11	0.053	
50.00	-37.07	-2.63	0.00	-242.4	0.00	242.44	5,101.19	1,264.41	5,925.61	5,442.76	0.65	-0.13	0.052	
52.75	-35.49	-2.59	0.00	-235.2	0.00	235.22	4,152.32	1,087.06	5,109.65	4,449.15	0.73	-0.13	0.061	
55.00	-34.86	-2.55	0.00	-229.4	0.00	229.39	4,125.88	1,075.85	5,004.86	4,374.93	0.79	-0.14	0.061	
60.00	-33.48	-2.48	0.00	-216.7	0.00	216.67	4,065.91	1,050.95	4,775.88	4,210.83	0.95	-0.16	0.060	
65.00	-32.13	-2.42	0.00	-204.3	0.00	204.27	4,004.26	1,026.05	4,552.26	4,048.00	1.12	-0.17	0.058	
70.00	-30.81	-2.35	0.00	-192.2	0.00	192.18	3,940.93	1,001.14	4,334.00	3,886.55	1.31	-0.19	0.057	
75.00	-29.52	-2.29	0.00	-180.4	0.00	180.42	3,875.91	976.24	4,121.10	3,726.61	1.52	-0.2	0.056	
80.00	-28.26	-2.22	0.00	-169.0	0.00	168.98	3,809.21	951.34	3,913.57	3,568.31	1.74	-0.22	0.055	
85.00	-27.03	-2.16	0.00	-157.9	0.00	157.86	3,740.83	926.44	3,711.39	3,411.78	1.98	-0.24	0.054	
90.00	-25.83	-2.11	0.00	-147.0	0.00	147.05	3,670.76	901.54	3,514.58	3,257.13	2.23	-0.25	0.052	
92.25	-25.29	-2.08	0.00	-142.3	0.00	142.30	3,638.68	890.33	3,427.77	3,188.19	2.35	-0.26	0.052	
95.00	-24.17	-2.04	0.00	-136.6	0.00	136.57	3,599.00	876.63	3,323.13	3,104.49	2.51	-0.27	0.051	
98.25	-22.87	-2.01	0.00	-129.9	0.00	129.93	2,821.55	729.01	2,757.63	2,432.35	2.69	-0.28	0.062	
100.00	-22.52	-1.97	0.00	-126.4	0.00	126.42	2,803.69	721.74	2,702.96	2,392.69	2.8	-0.29	0.061	
105.00	-21.56	-1.91	0.00	-116.6	0.00	116.57	2,751.52	700.99	2,549.78	2,280.15	3.11	-0.31	0.059	
110.00	-20.61	-1.85	0.00	-107.0	0.00	107.03	2,697.67	680.24	2,401.07	2,168.83	3.44	-0.33	0.057	
115.00	-19.70	-1.79	0.00	-97.8	0.00	97.79	2,642.13	659.49	2,256.83	2,058.87	3.79	-0.35	0.055	
120.00	-18.80	-1.73	0.00	-88.8	0.00	88.84	2,584.90	638.74	2,117.05	1,950.38	4.17	-0.36	0.053	
125.00	-17.93	-1.68	0.00	-80.2	0.00	80.18	2,526.00	617.99	1,981.74	1,843.49	4.56	-0.38	0.051	
130.00	-17.08	-1.62	0.00	-71.8	0.00	71.81	2,465.41	597.23	1,850.90	1,738.32	4.97	-0.4	0.048	
135.00	-16.26	-1.56	0.00	-63.7	0.00	63.71	2,403.13	576.48	1,724.53	1,635.01	5.4	-0.42	0.046	
140.00	-15.46	-1.53	0.00	-55.9	0.00	55.89	2,339.18	555.73	1,602.63	1,533.67	5.86	-0.44	0.043	
140.75	-15.35	-1.51	0.00	-54.8	0.00	54.75	2,329.44	552.62	1,584.73	1,518.65	5.93	-0.44	0.043	
145.00	-14.25	-1.48	0.00	-48.4	0.00	48.35	2,264.75	534.98	1,485.19	1,428.89	6.33	-0.46	0.040	
145.25	-14.19	-1.45	0.00	-48.0	0.00	47.98	1,725.54	434.99	1,227.27	1,108.88	6.35	-0.46	0.052	
150.00	-13.58	-1.40	0.00	-41.1	0.00	41.08	1,683.17	419.22	1,139.90	1,042.12	6.82	-0.48	0.048	
155.00	-12.97	-1.37	0.00	-34.1	0.00	34.07	1,636.94	402.61	1,051.42	973.03	7.33	-0.5	0.043	
156.75	-12.75	-1.34	0.00	-31.7	0.00	31.68	1,620.36	396.80	1,021.29	949.15	7.52	-0.5	0.041	
160.00	-12.14	-1.32	0.00	-27.3	0.00	27.32	1,589.02	386.01	966.51	905.26	7.86	-0.52	0.038	
160.75	-12.00	-1.30	0.00	-26.3	0.00	26.33	1,083.73	292.21	738.42	624.60	7.94	-0.52	0.053	
165.00	-11.60	-1.25	0.00	-20.8	0.00	20.82	1,060.67	281.63	685.91	589.02	8.41	-0.53	0.046	
170.00	-7.25	-0.81	0.00	-14.6	0.00	14.56	1,031.98	269.18	626.61	547.58	8.98	-0.55	0.034	
175.00	-6.85	-0.77	0.00	-10.5	0.00	10.51	1,001.60	256.73	569.98	506.70	9.56	-0.56	0.028	
180.00	-6.45	-0.73	0.00	-6.7	0.00	6.68	969.55	244.27	516.04	466.51	10.16	-0.57	0.021	
182.00	-5.37	-0.52	0.00	-5.2	0.00	5.21	956.25	239.29	495.22	450.66	10.4	-0.58	0.017	
185.00	-3.44	-0.38	0.00	-3.6	0.00	3.64	935.80	231.82	464.78	427.14	10.76	-0.58	0.012	
190.00	-3.09	-0.34	0.00	-1.7	0.00	1.72	900.38	219.37	416.21	388.71	11.37	-0.59	0.008	
195.00	0.00	-0.31	0.00	0.0	0.00	0.00	863.27	206.92	370.31	351.35	11.99	-0.59	0.000	

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

CALCULATED FORCES

Load Case: 1.0D + 1.0W

60 mph Wind with No Ice

25 Iterations

Gust Response Factor: 1.10
Dead Load Factor: 1.00
Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-48.01	-8.27	0.00	-1,092.3	0.00	1,092.26	5,822.66	1,554.93	8,961.06	7,651.95	0	0	0.151
5.00	-46.40	-8.16	0.00	-1,050.9	0.00	1,050.90	5,758.09	1,525.88	8,629.37	7,424.75	0.02	-0.03	0.150
10.00	-44.81	-8.04	0.00	-1,010.1	0.00	1,010.12	5,691.84	1,496.83	8,303.93	7,198.61	0.07	-0.07	0.148
15.00	-43.25	-7.93	0.00	-969.9	0.00	969.91	5,623.90	1,467.78	7,984.75	6,973.66	0.16	-0.1	0.147
20.00	-41.72	-7.81	0.00	-930.3	0.00	930.28	5,554.28	1,438.72	7,671.82	6,750.02	0.29	-0.14	0.145
25.00	-40.22	-7.68	0.00	-891.2	0.00	891.24	5,482.97	1,409.67	7,365.15	6,527.82	0.45	-0.17	0.144
30.00	-38.75	-7.55	0.00	-852.8	0.00	852.83	5,409.99	1,380.62	7,064.73	6,307.19	0.65	-0.21	0.142
35.00	-37.30	-7.42	0.00	-815.1	0.00	815.06	5,335.31	1,351.57	6,770.57	6,088.24	0.89	-0.25	0.141
40.00	-35.89	-7.29	0.00	-778.0	0.00	777.95	5,258.95	1,322.51	6,482.66	5,871.10	1.17	-0.28	0.139
45.00	-34.50	-7.21	0.00	-741.5	0.00	741.51	5,180.91	1,293.46	6,201.01	5,655.90	1.49	-0.32	0.138
45.25	-34.43	-7.15	0.00	-739.7	0.00	739.70	5,176.97	1,292.01	6,187.09	5,645.19	1.51	-0.33	0.138
50.00	-32.12	-7.04	0.00	-705.7	0.00	705.74	5,101.19	1,264.41	5,925.61	5,442.76	1.85	-0.36	0.136
52.75	-30.80	-6.96	0.00	-686.4	0.00	686.39	4,152.32	1,087.06	5,109.65	4,449.15	2.06	-0.38	0.162
55.00	-30.27	-6.87	0.00	-670.7	0.00	670.73	4,125.88	1,075.85	5,004.86	4,374.93	2.25	-0.4	0.161
60.00	-29.12	-6.73	0.00	-636.4	0.00	636.40	4,065.91	1,050.95	4,775.88	4,210.83	2.7	-0.45	0.158
65.00	-27.99	-6.59	0.00	-602.8	0.00	602.76	4,004.26	1,026.05	4,552.26	4,048.00	3.19	-0.49	0.156
70.00	-26.89	-6.45	0.00	-569.8	0.00	569.81	3,940.93	1,001.14	4,334.00	3,886.55	3.73	-0.54	0.153
75.00	-25.81	-6.32	0.00	-537.6	0.00	537.55	3,875.91	976.24	4,121.10	3,726.61	4.33	-0.59	0.151
80.00	-24.76	-6.18	0.00	-506.0	0.00	505.96	3,809.21	951.34	3,913.57	3,568.31	4.97	-0.64	0.148
85.00	-23.73	-6.04	0.00	-475.1	0.00	475.06	3,740.83	926.44	3,711.39	3,411.78	5.66	-0.69	0.146
90.00	-22.72	-5.94	0.00	-444.8	0.00	444.84	3,670.76	901.54	3,514.58	3,257.13	6.41	-0.74	0.143
92.25	-22.28	-5.88	0.00	-431.5	0.00	431.47	3,638.68	890.33	3,427.77	3,188.19	6.76	-0.76	0.141
95.00	-21.34	-5.79	0.00	-415.3	0.00	415.31	3,599.00	876.63	3,323.13	3,104.49	7.21	-0.79	0.140
98.25	-20.25	-5.71	0.00	-396.5	0.00	396.49	2,821.55	729.01	2,757.63	2,432.35	7.76	-0.82	0.170
100.00	-19.96	-5.63	0.00	-386.5	0.00	386.49	2,803.69	721.74	2,702.96	2,392.69	8.06	-0.84	0.169
105.00	-19.15	-5.50	0.00	-358.3	0.00	358.33	2,751.52	700.99	2,549.78	2,280.15	8.97	-0.9	0.164
110.00	-18.36	-5.38	0.00	-330.8	0.00	330.82	2,697.67	680.24	2,401.07	2,168.83	9.95	-0.96	0.159
115.00	-17.60	-5.25	0.00	-303.9	0.00	303.94	2,642.13	659.49	2,256.83	2,058.87	10.99	-1.02	0.154
120.00	-16.85	-5.13	0.00	-277.7	0.00	277.70	2,584.90	638.74	2,117.05	1,950.38	12.09	-1.08	0.149
125.00	-16.12	-5.00	0.00	-252.1	0.00	252.07	2,526.00	617.99	1,981.74	1,843.49	13.25	-1.14	0.143
130.00	-15.41	-4.88	0.00	-227.0	0.00	227.04	2,465.41	597.23	1,850.90	1,738.32	14.48	-1.2	0.137
135.00	-14.72	-4.77	0.00	-202.6	0.00	202.62	2,403.13	576.48	1,724.53	1,635.01	15.77	-1.26	0.130
140.00	-14.06	-4.69	0.00	-178.8	0.00	178.78	2,339.18	555.73	1,602.63	1,533.67	17.12	-1.32	0.123
140.75	-13.96	-4.64	0.00	-175.3	0.00	175.26	2,329.44	552.62	1,584.73	1,518.65	17.33	-1.33	0.121
145.00	-13.05	-4.57	0.00	-155.5	0.00	155.54	2,264.75	534.98	1,485.19	1,428.89	18.54	-1.38	0.115
145.25	-12.99	-4.52	0.00	-154.4	0.00	154.39	1,725.54	434.99	1,227.27	1,108.88	18.61	-1.38	0.147
150.00	-12.49	-4.42	0.00	-132.9	0.00	132.90	1,683.17	419.22	1,139.90	1,042.12	20.02	-1.44	0.135
155.00	-11.97	-4.34	0.00	-110.8	0.00	110.82	1,636.94	402.61	1,051.42	973.03	21.56	-1.5	0.121
156.75	-11.79	-4.29	0.00	-103.2	0.00	103.22	1,620.36	396.80	1,021.29	949.15	22.11	-1.52	0.116
160.00	-11.28	-4.24	0.00	-89.3	0.00	89.28	1,589.02	386.01	966.51	905.26	23.16	-1.56	0.106
160.75	-11.17	-4.19	0.00	-86.1	0.00	86.10	1,083.73	292.21	738.42	624.60	23.41	-1.57	0.148
165.00	-10.83	-4.10	0.00	-68.3	0.00	68.30	1,060.67	281.63	685.91	589.02	24.83	-1.62	0.126
170.00	-6.71	-2.60	0.00	-47.8	0.00	47.81	1,031.98	269.18	626.61	547.58	26.55	-1.67	0.094
175.00	-6.37	-2.50	0.00	-34.8	0.00	34.81	1,001.60	256.73	569.98	506.70	28.33	-1.72	0.075
180.00	-6.04	-2.43	0.00	-22.3	0.00	22.30	969.55	244.27	516.04	466.51	30.15	-1.75	0.054
182.00	-4.88	-1.71	0.00	-17.4	0.00	17.44	956.25	239.29	495.22	450.66	30.88	-1.76	0.044
185.00	-3.22	-1.27	0.00	-12.3	0.00	12.30	935.80	231.82	464.78	427.14	32	-1.78	0.032
190.00	-2.93	-1.19	0.00	-5.9	0.00	5.93	900.38	219.37	416.21	388.71	33.87	-1.79	0.019
195.00	0.00	-1.09	0.00	0.0	0.00	0.00	863.27	206.92	370.31	351.35	35.75	-1.8	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

Design Spectral Response Acceleration at Short Period (S_{ds}):	0.100
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.080
Long-Period Transition Period (T_L - Seconds):	8
Importance Factor (I_e):	1.000
Response Modification Coefficient (R):	1.500
Seismic Response Coefficient (C_s):	0.030
Upper Limit C_s :	0.030
Lower Limit C_s :	0.030
Period based on Rayleigh Method (sec):	2.880
Redundancy Factor (ρ):	1.000
Seismic Force Distribution Exponent (k):	2.000
Total Unfactored Dead Load:	48.010 k
Seismic Base Shear (E):	1.440 k

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh	Seismic	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
Segment							
48		192.5	280	10,375	0.017	25	342
47		187.5	292	10,268	0.017	25	356
46		183.5	181	6,096	0.010	15	221
45		181	128	4,184	0.007	10	156
44		177.5	328	10,325	0.017	25	400
43		172.5	340	10,110	0.017	24	415
42		167.5	383	10,752	0.018	26	468
41		162.875	335	8,893	0.015	21	409
40		160.375	116	2,984	0.005	7	142
39		158.375	510	12,794	0.021	31	622
38		155.875	176	4,284	0.007	10	215
37		152.5	515	11,968	0.020	29	628
36		147.625	504	10,979	0.018	26	615
35		145.125	53	1,113	0.002	3	64
34		142.875	912	18,614	0.031	45	1,112
33		140.375	98	1,932	0.003	5	120
32		137.5	665	12,574	0.021	30	811
31		132.5	685	12,029	0.020	29	836
30		127.5	705	11,466	0.019	27	860
29		122.5	725	10,886	0.018	26	885
28		117.5	746	10,293	0.017	25	910
27		112.5	766	9,690	0.016	23	934
26		107.5	786	9,081	0.015	22	959
25		102.5	806	8,467	0.014	20	983
24		99.125	287	2,818	0.005	7	350
23		96.625	1,086	10,144	0.017	24	1,326
22		93.625	934	8,187	0.014	20	1,139
21		91.125	443	3,680	0.006	9	541
20		87.5	1,002	7,674	0.013	18	1,223
19		82.5	1,026	6,986	0.012	17	1,252
18		77.5	1,051	6,310	0.010	15	1,282
17		72.5	1,075	5,649	0.009	14	1,311
16		67.5	1,099	5,007	0.008	12	1,341
15		62.5	1,123	4,387	0.007	11	1,370
14		57.5	1,147	3,793	0.006	9	1,400
13		53.875	524	1,521	0.002	4	639
12		51.375	1,317	3,476	0.006	8	1,607
11		47.625	2,312	5,245	0.009	13	2,821
10		45.125	68	139	0.000	0	84
9		42.5	1,384	2,500	0.004	6	1,689
8		37.5	1,412	1,986	0.003	5	1,723
7		32.5	1,441	1,522	0.002	4	1,758

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
6	27.5	1,469	1,111	0.002	3	1,792
5	22.5	1,497	758	0.001	2	1,826
4	17.5	1,525	467	0.001	1	1,861
3	12.5	1,553	243	0.000	1	1,895
2	7.5	1,581	89	0.000	0	1,929
1	2.5	1,610	10	0.000	0	1,964
Ericsson Radio 8843 - B2 + B66A	195	216	8,202	0.014	20	263
Ericsson RRUS 4449 B5, B12	195	213	8,099	0.014	19	260
Raycap DC6-48-60-18-8C	195	48	1,825	0.003	4	59
Ericsson RRUS 32 (50.8 lbs)	195	203	7,727	0.013	19	248
Andrew SBNH-1D8585B	195	92	3,514	0.006	8	113
Commscope NNHH-65B-R4	195	251	9,559	0.016	23	307
CCI HPA-33R-BUU-H6	195	159	6,038	0.010	14	194
Flat Low Profile Platform	195	1,500	57,038	0.095	137	1,830
Flat Low Profile Platform	185	1,500	51,338	0.085	123	1,830
Ericsson 8843 Rev 2	182	225	7,453	0.012	18	274
Ericsson Radio 4449 - B13&B5	182	210	6,956	0.012	17	256
Raycap RCMDC-3315-PF-48 (32 lbs)	182	32	1,060	0.002	3	39
Ericsson AIR 6449 B77D/ C-Band	182	245	8,109	0.014	19	299
Raycap RCMDC-6627-PF-48	182	32	1,060	0.002	3	39
Commscope NHH-65C-R2B	182	310	10,255	0.017	25	378
Ceragon FibeAir IP-20D-HP	170	53	1,532	0.002	4	65
Ericsson Radio 4460 B25+B66	170	327	9,450	0.016	23	399
Ericsson Radio 4480 B71+B85	170	279	8,063	0.013	19	340
Ericsson AIR 6419 B41	170	206	5,939	0.010	14	251
Andrew Microwaves VHLP4	170	101	2,930	0.005	7	124
Commscope FFVV-65C-R2N23	170	311	8,982	0.015	22	379
Generic Platform with Handrails	170	2,500	72,250	0.120	173	3,050
Totals:		48,015	601,236	1.000	1,440	58,578

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
48	192.5	280	10,375	0.017	25	246
47	187.5	292	10,268	0.017	25	257
46	183.5	181	6,096	0.010	15	159
45	181	128	4,184	0.007	10	112
44	177.5	328	10,325	0.017	25	288
43	172.5	340	10,110	0.017	24	299
42	167.5	383	10,752	0.018	26	337
41	162.875	335	8,893	0.015	21	295
40	160.375	116	2,984	0.005	7	102
39	158.375	510	12,794	0.021	31	449
38	155.875	176	4,284	0.007	10	155
37	152.5	515	11,968	0.020	29	453
36	147.625	504	10,979	0.018	26	443
35	145.125	53	1,113	0.002	3	46
34	142.875	912	18,614	0.031	45	802
33	140.375	98	1,932	0.003	5	86
32	137.5	665	12,574	0.021	30	585
31	132.5	685	12,029	0.020	29	603
30	127.5	705	11,466	0.019	27	621
29	122.5	725	10,886	0.018	26	638
28	117.5	746	10,293	0.017	25	656
27	112.5	766	9,690	0.016	23	674
26	107.5	786	9,081	0.015	22	691
25	102.5	806	8,467	0.014	20	709
24	99.125	287	2,818	0.005	7	252
23	96.625	1,086	10,144	0.017	24	956
22	93.625	934	8,187	0.014	20	822

SEISMIC FORCES						
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)					
Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
21	91.125	443	3,680	0.006	9	390
20	87.5	1,002	7,674	0.013	18	882
19	82.5	1,026	6,986	0.012	17	903
18	77.5	1,051	6,310	0.010	15	925
17	72.5	1,075	5,649	0.009	14	946
16	67.5	1,099	5,007	0.008	12	967
15	62.5	1,123	4,387	0.007	11	988
14	57.5	1,147	3,793	0.006	9	1,010
13	53.875	524	1,521	0.002	4	461
12	51.375	1,317	3,476	0.006	8	1,159
11	47.625	2,312	5,245	0.009	13	2,035
10	45.125	68	139	0.000	0	60
9	42.5	1,384	2,500	0.004	6	1,218
8	37.5	1,412	1,986	0.003	5	1,243
7	32.5	1,441	1,522	0.002	4	1,268
6	27.5	1,469	1,111	0.002	3	1,293
5	22.5	1,497	758	0.001	2	1,317
4	17.5	1,525	467	0.001	1	1,342
3	12.5	1,553	243	0.000	1	1,367
2	7.5	1,581	89	0.000	0	1,392
1	2.5	1,610	10	0.000	0	1,416
Ericsson Radio 8843 - B2 + B66A	195	216	8,202	0.014	20	190
Ericsson RRUS 4449 B5, B12	195	213	8,099	0.014	19	187
Raycap DC6-48-60-18-8C	195	48	1,825	0.003	4	42
Ericsson RRUS 32 (50.8 lbs)	195	203	7,727	0.013	19	179
Andrew SBNH-1D8585B	195	92	3,514	0.006	8	81
Commscope NNHH-65B-R4	195	251	9,559	0.016	23	221
CCI HPA-33R-BUU-H6	195	159	6,038	0.010	14	140
Flat Low Profile Platform	195	1,500	57,038	0.095	137	1,320
Flat Low Profile Platform	185	1,500	51,338	0.085	123	1,320
Ericsson 8843 Rev 2	182	225	7,453	0.012	18	198
Ericsson Radio 4449 - B13&B5	182	210	6,956	0.012	17	185
Raycap RCMDC-3315-PF-48 (32 lbs)	182	32	1,060	0.002	3	28
Ericsson AIR 6449 B77D/ C-Band	182	245	8,109	0.014	19	215
Raycap RCMDC-6627-PF-48	182	32	1,060	0.002	3	28
Commscope NHH-65C-R2B	182	310	10,255	0.017	25	272
Ceragon FibeAir IP-20D-HP	170	53	1,532	0.002	4	47
Ericsson Radio 4460 B25+B66	170	327	9,450	0.016	23	288
Ericsson Radio 4480 B71+B85	170	279	8,063	0.013	19	246
Ericsson AIR 6419 B41	170	206	5,939	0.010	14	181
Andrew Microwaves VHLP4	170	101	2,930	0.005	7	89
Commscope FFVV-65C-R2N23	170	311	8,982	0.015	22	274
Generic Platform with Handrails	170	2,500	72,250	0.120	173	2,200
Totals:		48,015	601,236	1.000	1,440	42,253

SEISMIC FORCES						
1.2D + 1.0Ev + 1.5Eh	Seismic Overstrength					
Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
48	192.5	280	10,375	0.017	37	342
47	187.5	292	10,268	0.017	37	356
46	183.5	181	6,096	0.010	22	221
45	181	128	4,184	0.007	15	156
44	177.5	328	10,325	0.017	37	400
43	172.5	340	10,110	0.017	36	415
42	167.5	383	10,752	0.018	39	468
41	162.875	335	8,893	0.015	32	409
40	160.375	116	2,984	0.005	11	142
39	158.375	510	12,794	0.021	46	622
38	155.875	176	4,284	0.007	15	215
37	152.5	515	11,968	0.020	43	628

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

SEISMIC FORCES

1.2D + 1.0Ev + 1.5Eh

Seismic Overstrength

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
36	147.625	504	10,979	0.018	39	615
35	145.125	53	1,113	0.002	4	64
34	142.875	912	18,614	0.031	67	1,112
33	140.375	98	1,932	0.003	7	120
32	137.5	665	12,574	0.021	45	811
31	132.5	685	12,029	0.020	43	836
30	127.5	705	11,466	0.019	41	860
29	122.5	725	10,886	0.018	39	885
28	117.5	746	10,293	0.017	37	910
27	112.5	766	9,690	0.016	35	934
26	107.5	786	9,081	0.015	33	959
25	102.5	806	8,467	0.014	30	983
24	99.125	287	2,818	0.005	10	350
23	96.625	1,086	10,144	0.017	36	1,326
22	93.625	934	8,187	0.014	29	1,139
21	91.125	443	3,680	0.006	13	541
20	87.5	1,002	7,674	0.013	28	1,223
19	82.5	1,026	6,986	0.012	25	1,252
18	77.5	1,051	6,310	0.010	23	1,282
17	72.5	1,075	5,649	0.009	20	1,311
16	67.5	1,099	5,007	0.008	18	1,341
15	62.5	1,123	4,387	0.007	16	1,370
14	57.5	1,147	3,793	0.006	14	1,400
13	53.875	524	1,521	0.002	5	639
12	51.375	1,317	3,476	0.006	12	1,607
11	47.625	2,312	5,245	0.009	19	2,821
10	45.125	68	139	0.000	1	84
9	42.5	1,384	2,500	0.004	9	1,689
8	37.5	1,412	1,986	0.003	7	1,723
7	32.5	1,441	1,522	0.002	5	1,758
6	27.5	1,469	1,111	0.002	4	1,792
5	22.5	1,497	758	0.001	3	1,826
4	17.5	1,525	467	0.001	2	1,861
3	12.5	1,553	243	0.000	1	1,895
2	7.5	1,581	89	0.000	0	1,929
1	2.5	1,610	10	0.000	0	1,964
Ericsson Radio 8843 - B2 + B66A	195	216	8,202	0.014	29	263
Ericsson RRUS 4449 B5, B12	195	213	8,099	0.014	29	260
Raycap DC6-48-60-18-8C	195	48	1,825	0.003	7	59
Ericsson RRUS 32 (50.8 lbs)	195	203	7,727	0.013	28	248
Andrew SBNH-1D8585B	195	92	3,514	0.006	13	113
Commscope NNHH-65B-R4	195	251	9,559	0.016	34	307
CCI HPA-33R-BUU-H6	195	159	6,038	0.010	22	194
Flat Low Profile Platform	195	1,500	57,038	0.095	205	1,830
Flat Low Profile Platform	185	1,500	51,338	0.085	184	1,830
Ericsson 8843 Rev 2	182	225	7,453	0.012	27	274
Ericsson Radio 4449 - B13&B5	182	210	6,956	0.012	25	256
Raycap RCMDC-3315-PF-48 (32 lbs)	182	32	1,060	0.002	4	39
Ericsson AIR 6449 B77D/ C-Band	182	245	8,109	0.014	29	299
Raycap RCMDC-6627-PF-48	182	32	1,060	0.002	4	39
Commscope NHH-65C-R2B	182	310	10,255	0.017	37	378
Ceragon FibeAir IP-20D-HP	170	53	1,532	0.002	6	65
Ericsson Radio 4460 B25+B66	170	327	9,450	0.016	34	399
Ericsson Radio 4480 B71+B85	170	279	8,063	0.013	29	340
Ericsson AIR 6419 B41	170	206	5,939	0.010	21	251
Andrew Microwaves VHLP4	170	101	2,930	0.005	11	124
Commscope FFVV-65C-R2N23	170	311	8,982	0.015	32	379
Generic Platform with Handrails	170	2,500	72,250	0.120	260	3,050
Totals:		48,015	601,236	1.000	2,161	58,578

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

SEISMIC FORCES

0.9D - 1.0Ev + 1.5Eh

Seismic Overstrength (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
48	192.5	280	10,375	0.017	37	246
47	187.5	292	10,268	0.017	37	257
46	183.5	181	6,096	0.010	22	159
45	181	128	4,184	0.007	15	112
44	177.5	328	10,325	0.017	37	288
43	172.5	340	10,110	0.017	36	299
42	167.5	383	10,752	0.018	39	337
41	162.875	335	8,893	0.015	32	295
40	160.375	116	2,984	0.005	11	102
39	158.375	510	12,794	0.021	46	449
38	155.875	176	4,284	0.007	15	155
37	152.5	515	11,968	0.020	43	453
36	147.625	504	10,979	0.018	39	443
35	145.125	53	1,113	0.002	4	46
34	142.875	912	18,614	0.031	67	802
33	140.375	98	1,932	0.003	7	86
32	137.5	665	12,574	0.021	45	585
31	132.5	685	12,029	0.020	43	603
30	127.5	705	11,466	0.019	41	621
29	122.5	725	10,886	0.018	39	638
28	117.5	746	10,293	0.017	37	656
27	112.5	766	9,690	0.016	35	674
26	107.5	786	9,081	0.015	33	691
25	102.5	806	8,467	0.014	30	709
24	99.125	287	2,818	0.005	10	252
23	96.625	1,086	10,144	0.017	36	956
22	93.625	934	8,187	0.014	29	822
21	91.125	443	3,680	0.006	13	390
20	87.5	1,002	7,674	0.013	28	882
19	82.5	1,026	6,986	0.012	25	903
18	77.5	1,051	6,310	0.010	23	925
17	72.5	1,075	5,649	0.009	20	946
16	67.5	1,099	5,007	0.008	18	967
15	62.5	1,123	4,387	0.007	16	988
14	57.5	1,147	3,793	0.006	14	1,010
13	53.875	524	1,521	0.002	5	461
12	51.375	1,317	3,476	0.006	12	1,159
11	47.625	2,312	5,245	0.009	19	2,035
10	45.125	68	139	0.000	1	60
9	42.5	1,384	2,500	0.004	9	1,218
8	37.5	1,412	1,986	0.003	7	1,243
7	32.5	1,441	1,522	0.002	5	1,268
6	27.5	1,469	1,111	0.002	4	1,293
5	22.5	1,497	758	0.001	3	1,317
4	17.5	1,525	467	0.001	2	1,342
3	12.5	1,553	243	0.000	1	1,367
2	7.5	1,581	89	0.000	0	1,392
1	2.5	1,610	10	0.000	0	1,416
Ericsson Radio 8843 - B2 + B66A	195	216	8,202	0.014	29	190
Ericsson RRUS 4449 B5, B12	195	213	8,099	0.014	29	187
Raycap DC6-48-60-18-8C	195	48	1,825	0.003	7	42
Ericsson RRUS 32 (50.8 lbs)	195	203	7,727	0.013	28	179
Andrew SBNH-1D8585B	195	92	3,514	0.006	13	81
Commscope NNHH-65B-R4	195	251	9,559	0.016	34	221
CCI HPA-33R-BUU-H6	195	159	6,038	0.010	22	140
Flat Low Profile Platform	195	1,500	57,038	0.095	205	1,320
Flat Low Profile Platform	185	1,500	51,338	0.085	184	1,320
Ericsson 8843 Rev 2	182	225	7,453	0.012	27	198
Ericsson Radio 4449 - B13&B5	182	210	6,956	0.012	25	185
Raycap RCMDC-3315-PF-48 (32 lbs)	182	32	1,060	0.002	4	28
Ericsson AIR 6449 B77D/ C-Band	182	245	8,109	0.014	29	215

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

SEISMIC FORCES

0.9D - 1.0Ev + 1.5Eh

Seismic Overstrength (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
Raycap RCMDC-6627-PF-48	182	32	1,060	0.002	4	28
Commscope NHH-65C-R2B	182	310	10,255	0.017	37	272
Ceragon FibeAir IP-20D-HP	170	53	1,532	0.002	6	47
Ericsson Radio 4460 B25+B66	170	327	9,450	0.016	34	288
Ericsson Radio 4480 B71+B85	170	279	8,063	0.013	29	246
Ericsson AIR 6419 B41	170	206	5,939	0.010	21	181
Andrew Microwaves VHLP4	170	101	2,930	0.005	11	89
Commscope FFVV-65C-R2N23	170	311	8,982	0.015	32	274
Generic Platform with Handrails	170	2,500	72,250	0.120	260	2,200
Totals:		48,015	601,236	1.000	2,161	42,253

1.2D + 1.0Ev + 1.0Eh

Seismic

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-56.61	-1.44	0.00	-233.19	0.00	233.19	5,822.66	1,554.93	8,961	7,651.95	0.00	0.00	0.04
5.00	-54.68	-1.45	0.00	-225.98	0.00	225.98	5,758.09	1,525.88	8,629	7,424.75	0.00	-0.01	0.04
10.00	-52.79	-1.46	0.00	-218.73	0.00	218.73	5,691.84	1,496.83	8,304	7,198.61	0.02	-0.01	0.04
15.00	-50.93	-1.46	0.00	-211.45	0.00	211.45	5,623.90	1,467.78	7,985	6,973.66	0.03	-0.02	0.04
20.00	-49.10	-1.46	0.00	-204.14	0.00	204.14	5,554.28	1,438.72	7,672	6,750.02	0.06	-0.03	0.04
25.00	-47.31	-1.47	0.00	-196.82	0.00	196.82	5,482.97	1,409.67	7,365	6,527.82	0.10	-0.04	0.04
30.00	-45.55	-1.47	0.00	-189.48	0.00	189.48	5,409.99	1,380.62	7,065	6,307.19	0.14	-0.05	0.04
35.00	-43.83	-1.47	0.00	-182.14	0.00	182.14	5,335.31	1,351.57	6,771	6,088.24	0.19	-0.05	0.04
40.00	-42.14	-1.47	0.00	-174.79	0.00	174.79	5,258.95	1,322.51	6,483	5,871.10	0.25	-0.06	0.04
45.00	-42.06	-1.47	0.00	-167.45	0.00	167.45	5,180.91	1,293.46	6,201	5,655.90	0.32	-0.07	0.04
45.25	-39.24	-1.46	0.00	-167.08	0.00	167.08	5,176.97	1,292.01	6,187	5,645.19	0.33	-0.07	0.04
50.00	-37.63	-1.45	0.00	-160.16	0.00	160.16	5,101.19	1,264.41	5,926	5,442.76	0.40	-0.08	0.04
52.75	-36.99	-1.45	0.00	-156.17	0.00	156.17	4,152.32	1,087.06	5,110	4,449.15	0.45	-0.09	0.04
55.00	-35.59	-1.44	0.00	-152.90	0.00	152.90	4,125.88	1,075.85	5,005	4,374.93	0.49	-0.09	0.04
60.00	-34.22	-1.44	0.00	-145.68	0.00	145.68	4,065.91	1,050.95	4,776	4,210.83	0.59	-0.10	0.04
65.00	-32.88	-1.43	0.00	-138.50	0.00	138.50	4,004.26	1,026.05	4,552	4,048.00	0.70	-0.11	0.04
70.00	-31.57	-1.42	0.00	-131.36	0.00	131.36	3,940.93	1,001.14	4,334	3,886.55	0.82	-0.12	0.04
75.00	-30.28	-1.41	0.00	-124.26	0.00	124.26	3,875.91	976.24	4,121	3,726.61	0.96	-0.13	0.04
80.00	-29.03	-1.39	0.00	-117.23	0.00	117.23	3,809.21	951.34	3,914	3,568.31	1.10	-0.14	0.04
85.00	-27.81	-1.38	0.00	-110.27	0.00	110.27	3,740.83	926.44	3,711	3,411.78	1.26	-0.15	0.04
90.00	-27.27	-1.37	0.00	-103.39	0.00	103.39	3,670.76	901.54	3,515	3,257.13	1.42	-0.17	0.04
92.25	-26.13	-1.35	0.00	-100.30	0.00	100.30	3,638.68	890.33	3,428	3,188.19	1.50	-0.17	0.04
95.00	-24.80	-1.32	0.00	-96.59	0.00	96.59	3,599.00	876.63	3,323	3,104.49	1.60	-0.18	0.04
98.25	-24.45	-1.32	0.00	-92.29	0.00	92.29	2,821.55	729.01	2,758	2,432.35	1.73	-0.19	0.05
100.00	-23.47	-1.30	0.00	-89.98	0.00	89.98	2,803.69	721.74	2,703	2,392.69	1.80	-0.19	0.05
105.00	-22.51	-1.28	0.00	-83.48	0.00	83.48	2,751.52	700.99	2,550	2,280.15	2.00	-0.20	0.05
110.00	-21.58	-1.26	0.00	-77.08	0.00	77.08	2,697.67	680.24	2,401	2,168.83	2.23	-0.22	0.04
115.00	-20.67	-1.24	0.00	-70.78	0.00	70.78	2,642.13	659.49	2,257	2,058.87	2.46	-0.23	0.04
120.00	-19.78	-1.21	0.00	-64.61	0.00	64.61	2,584.90	638.74	2,117	1,950.38	2.71	-0.25	0.04
125.00	-18.92	-1.18	0.00	-58.55	0.00	58.55	2,526.00	617.99	1,982	1,843.49	2.98	-0.26	0.04
130.00	-18.08	-1.16	0.00	-52.63	0.00	52.63	2,465.41	597.23	1,851	1,738.32	3.26	-0.27	0.04
135.00	-17.27	-1.13	0.00	-46.85	0.00	46.85	2,403.13	576.48	1,725	1,635.01	3.55	-0.29	0.04
140.00	-17.15	-1.12	0.00	-41.22	0.00	41.22	2,339.18	555.73	1,603	1,533.67	3.86	-0.30	0.03
140.75	-16.04	-1.07	0.00	-40.38	0.00	40.38	2,329.44	552.62	1,585	1,518.65	3.91	-0.30	0.03
145.00	-15.98	-1.07	0.00	-35.81	0.00	35.81	2,264.75	534.98	1,485	1,428.89	4.19	-0.32	0.03
145.25	-15.36	-1.05	0.00	-35.54	0.00	35.54	1,725.54	434.99	1,227	1,108.88	4.20	-0.32	0.04
150.00	-14.73	-1.02	0.00	-30.58	0.00	30.58	1,683.17	419.22	1,140	1,042.12	4.52	-0.33	0.04
155.00	-14.52	-1.01	0.00	-25.50	0.00	25.50	1,636.94	402.61	1,051	973.03	4.88	-0.34	0.04
156.75	-13.90	-0.98	0.00	-23.73	0.00	23.73	1,620.36	396.80	1,021	949.15	5.00	-0.35	0.03
160.00	-13.75	-0.97	0.00	-20.56	0.00	20.56	1,589.02	386.01	967	905.26	5.24	-0.36	0.03
160.75	-13.35	-0.95	0.00	-19.84	0.00	19.84	1,083.73	292.21	738	624.60	5.30	-0.36	0.04
165.00	-12.88	-0.92	0.00	-15.82	0.00	15.82	1,060.67	281.63	686	589.02	5.63	-0.37	0.04
170.00	-7.86	-0.60	0.00	-11.22	0.00	11.22	1,031.98	269.18	627	547.58	6.02	-0.38	0.03
175.00	-7.46	-0.58	0.00	-8.20	0.00	8.20	1,001.60	256.73	570	506.70	6.43	-0.39	0.02

ASSET: 282213, FT WHITE WEST FL
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-I
PROJECT: 15133535_C3_03

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
180.00	-7.30	-0.57	0.00	-5.32	0.00	5.32	969.55	244.27	516	466.51	6.84	-0.40	0.02
182.00	-5.80	-0.46	0.00	-4.19	0.00	4.19	956.25	239.29	495	450.66	7.01	-0.40	0.02
185.00	-3.61	-0.30	0.00	-2.81	0.00	2.81	935.80	231.82	465	427.14	7.27	-0.41	0.01
190.00	-3.27	-0.27	0.00	-1.34	0.00	1.34	900.38	219.37	416	388.71	7.70	-0.41	0.01
195.00	0.00	-0.24	0.00	0.00	0.00	0.00	863.27	206.92	370	351.35	8.13	-0.41	0.00

0.9D - 1.0Ev + 1.0Eh Seismic (Reduced DL)

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-40.84	-1.44	0.00	-229.68	0.00	229.68	5,822.66	1,554.93	8,961	7,651.95	0.00	0.00	0.04
5.00	-39.44	-1.45	0.00	-222.47	0.00	222.47	5,758.09	1,525.88	8,629	7,424.75	0.00	-0.01	0.04
10.00	-38.08	-1.45	0.00	-215.23	0.00	215.23	5,691.84	1,496.83	8,304	7,198.61	0.02	-0.01	0.04
15.00	-36.74	-1.45	0.00	-207.98	0.00	207.98	5,623.90	1,467.78	7,985	6,973.66	0.03	-0.02	0.04
20.00	-35.42	-1.46	0.00	-200.71	0.00	200.71	5,554.28	1,438.72	7,672	6,750.02	0.06	-0.03	0.04
25.00	-34.13	-1.46	0.00	-193.43	0.00	193.43	5,482.97	1,409.67	7,365	6,527.82	0.10	-0.04	0.04
30.00	-32.86	-1.46	0.00	-186.14	0.00	186.14	5,409.99	1,380.62	7,065	6,307.19	0.14	-0.04	0.04
35.00	-31.61	-1.46	0.00	-178.85	0.00	178.85	5,335.31	1,351.57	6,771	6,088.24	0.19	-0.05	0.04
40.00	-30.40	-1.45	0.00	-171.57	0.00	171.57	5,258.95	1,322.51	6,483	5,871.10	0.25	-0.06	0.04
45.00	-30.34	-1.46	0.00	-164.30	0.00	164.30	5,180.91	1,293.46	6,201	5,655.90	0.32	-0.07	0.04
45.25	-28.30	-1.44	0.00	-163.93	0.00	163.93	5,176.97	1,292.01	6,187	5,645.19	0.32	-0.07	0.04
50.00	-27.14	-1.44	0.00	-157.08	0.00	157.08	5,101.19	1,264.41	5,926	5,442.76	0.40	-0.08	0.03
52.75	-26.68	-1.43	0.00	-153.13	0.00	153.13	4,152.32	1,087.06	5,110	4,449.15	0.44	-0.08	0.04
55.00	-25.67	-1.43	0.00	-149.90	0.00	149.90	4,125.88	1,075.85	5,005	4,374.93	0.48	-0.09	0.04
60.00	-24.68	-1.42	0.00	-142.77	0.00	142.77	4,065.91	1,050.95	4,776	4,210.83	0.58	-0.10	0.04
65.00	-23.71	-1.41	0.00	-135.68	0.00	135.68	4,004.26	1,026.05	4,552	4,048.00	0.69	-0.11	0.04
70.00	-22.77	-1.40	0.00	-128.63	0.00	128.63	3,940.93	1,001.14	4,334	3,886.55	0.81	-0.12	0.04
75.00	-21.84	-1.39	0.00	-121.64	0.00	121.64	3,875.91	976.24	4,121	3,726.61	0.94	-0.13	0.04
80.00	-20.94	-1.37	0.00	-114.71	0.00	114.71	3,809.21	951.34	3,914	3,568.31	1.08	-0.14	0.04
85.00	-20.06	-1.35	0.00	-107.86	0.00	107.86	3,740.83	926.44	3,711	3,411.78	1.23	-0.15	0.04
90.00	-19.67	-1.35	0.00	-101.09	0.00	101.09	3,670.76	901.54	3,515	3,257.13	1.40	-0.16	0.04
92.25	-18.85	-1.33	0.00	-98.06	0.00	98.06	3,638.68	890.33	3,428	3,188.19	1.48	-0.17	0.04
95.00	-17.89	-1.30	0.00	-94.41	0.00	94.41	3,599.00	876.63	3,323	3,104.49	1.58	-0.17	0.04
98.25	-17.64	-1.30	0.00	-90.18	0.00	90.18	2,821.55	729.01	2,758	2,432.35	1.70	-0.18	0.04
100.00	-16.93	-1.28	0.00	-87.91	0.00	87.91	2,803.69	721.74	2,703	2,392.69	1.76	-0.19	0.04
105.00	-16.24	-1.26	0.00	-81.53	0.00	81.53	2,751.52	700.99	2,550	2,280.15	1.97	-0.20	0.04
110.00	-15.56	-1.23	0.00	-75.25	0.00	75.25	2,697.67	680.24	2,401	2,168.83	2.18	-0.21	0.04
115.00	-14.91	-1.21	0.00	-69.09	0.00	69.09	2,642.13	659.49	2,257	2,058.87	2.42	-0.23	0.04
120.00	-14.27	-1.19	0.00	-63.03	0.00	63.03	2,584.90	638.74	2,117	1,950.38	2.66	-0.24	0.04
125.00	-13.65	-1.16	0.00	-57.11	0.00	57.11	2,526.00	617.99	1,982	1,843.49	2.92	-0.26	0.04
130.00	-13.04	-1.13	0.00	-51.32	0.00	51.32	2,465.41	597.23	1,851	1,738.32	3.20	-0.27	0.04
135.00	-12.46	-1.10	0.00	-45.67	0.00	45.67	2,403.13	576.48	1,725	1,635.01	3.48	-0.28	0.03
140.00	-12.37	-1.10	0.00	-40.17	0.00	40.17	2,339.18	555.73	1,603	1,533.67	3.79	-0.30	0.03
140.75	-11.57	-1.05	0.00	-39.35	0.00	39.35	2,329.44	552.62	1,585	1,518.65	3.83	-0.30	0.03
145.00	-11.52	-1.05	0.00	-34.89	0.00	34.89	2,264.75	534.98	1,485	1,428.89	4.10	-0.31	0.03
145.25	-11.08	-1.02	0.00	-34.63	0.00	34.63	1,725.54	434.99	1,227	1,108.88	4.12	-0.31	0.04
150.00	-10.63	-0.99	0.00	-29.78	0.00	29.78	1,683.17	419.22	1,140	1,042.12	4.44	-0.32	0.04
155.00	-10.47	-0.98	0.00	-24.82	0.00	24.82	1,636.94	402.61	1,051	973.03	4.78	-0.34	0.03
156.75	-10.02	-0.95	0.00	-23.11	0.00	23.11	1,620.36	396.80	1,021	949.15	4.90	-0.34	0.03
160.00	-9.92	-0.94	0.00	-20.02	0.00	20.02	1,589.02	386.01	967	905.26	5.14	-0.35	0.03
160.75	-9.63	-0.92	0.00	-19.31	0.00	19.31	1,083.73	292.21	738	624.60	5.19	-0.35	0.04
165.00	-9.29	-0.89	0.00	-15.40	0.00	15.40	1,060.67	281.63	686	589.02	5.51	-0.36	0.04
170.00	-5.67	-0.59	0.00	-10.92	0.00	10.92	1,031.98	269.18	627	547.58	5.90	-0.37	0.03
175.00	-5.38	-0.56	0.00	-7.99	0.00	7.99	1,001.60	256.73	570	506.70	6.30	-0.38	0.02
180.00	-5.27	-0.55	0.00	-5.18	0.00	5.18	969.55	244.27	516	466.51	6.70	-0.39	0.02
182.00	-4.18	-0.45	0.00	-4.08	0.00	4.08	956.25	239.29	495	450.66	6.87	-0.40	0.01
185.00	-2.61	-0.29	0.00	-2.74	0.00	2.74	935.80	231.82	465	427.14	7.12	-0.40	0.01
190.00	-2.36	-0.26	0.00	-1.30	0.00	1.30	900.38	219.37	416	388.71	7.54	-0.40	0.01
195.00	0.00	-0.24	0.00	0.00	0.00	0.00	863.27	206.92	370	351.35	7.96	-0.40	0.00

ANALYSIS SUMMARY

Load Case	Base Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	37.00	0.00	57.57	0.00	0.00	4916.38	98.25	0.74
0.9D + 1.0W	36.98	0.00	43.16	0.00	0.00	4851.88	98.25	0.73
1.2D + 1.0Di + 1.0Wi	3.20	0.00	56.10	0.00	0.00	389.92	98.25	0.06
1.2D + 1.0Ev + 1.0Eh	1.44	0.00	56.61	0.00	0.00	233.19	98.25	0.05
0.9D - 1.0Ev + 1.0Eh	1.44	0.00	40.84	0.00	0.00	229.68	98.25	0.04
1.0D + 1.0W	8.27	0.00	48.01	0.00	0.00	1092.26	98.25	0.17

ANALYSIS SUMMARY - OVERSTRENGTH LOAD CASES

Load Case	Base Reactions					
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0Ev + 1.5Eh	2.16	0.00	56.61	0.00	0.00	349.78
0.9D - 1.0Ev + 1.5Eh	2.16	0.00	40.84	0.00	0.00	344.51

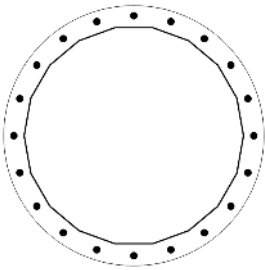
BASE PLATE ANALYSIS @ 0 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
4916.38	57.57	37

PLATE PARAMETERS (ID# 33729)

Width:	77	in
Shape:	Round	
Thickness:	3	in
Grade:	A572-50	
Yield Strength:	50	ksi
Tensile Strength:	65	ksi
Rod Detail Type:	d	
Clear Distance	3.875	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	0	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#34611]	Radial	20	2.25	71	A615-75	75	100	-	-

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	64.2441"ø x 0.4375" (18 Sides)	87.2542	-	-	44410.15	-
Bolt Group	Original (20) 2.25"ø	3.9761	3.2477	0.8393	37975.30	4.5

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	64.2441"ø x 0.4375" (18 Sides)	4916.4	57.57	37.00	1.000
Bolt Group	Original (20) 2.25"ø	4916.4	-	37.00	1.000

BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES					PLATE PROPERTIES		
Flat-to-Flat Diameter:	64.37	in	Flat Width:	11.350	in	Neutral Axis:	0°
Point-to-Point Diameter:	65.36	in	Flat Radians:	0.349	rad	Bend Line Limits:	1.048 to 2.094 rad
Orientation Offset:	-	°					
Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment M _u (k-in)	Moment Capacity ΦM _n (k-in)	Flexure Result M _u /ΦM _n	
Flats	37.289	0.00	83.901	461.3	3775.5	12.2%	✓
Corners	35.520	0.00	79.920	264.2	3596.4	7.3%	✓
Circumferential	48.345	0.00	108.776	767.1	4894.9	15.7%	✓

PLASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Interaction Result
Original	20	2.25	129.4	2.9	243.6	53.1% ✓