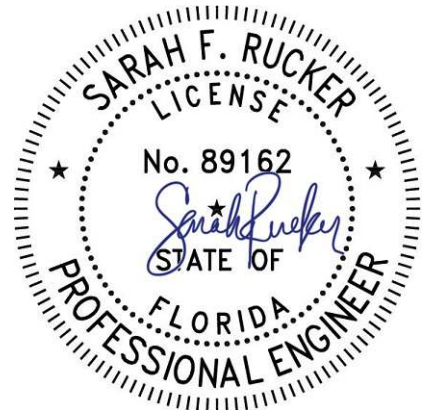




Structural Analysis Report

Structure : 330 ft Guyed Tower
ATC Asset Name : Five Points
ATC Asset Number : 2543
Engineering Number : 14910189_C3_03
Proposed Carrier : T-MOBILE
Carrier Site Name : Five Points I10
Carrier Site Number : 9JK0230A
Site Location : Hwy 441 & I-10
Lake City, FL 32055-4662
30.2382° N, 82.6368° W
County : Columbia
Date : October 31, 2024
Max Usage : 70%
Analysis Result : Pass



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: 2024.11.07
09:13:42 -05'00'

COA: 9053

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Standard Conditions	Attached
Calculations	Attached

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 330 ft Guyed tower to reflect the change in loading by T-MOBILE.

Supporting Documents

Tower:	FWT Job #15446, dated November 5, 1997
Foundation:	FWT Job #15446, dated November 5, 1997
Geotechnical:	FTE Project #97-2996, dated September 10, 1997

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:	119 mph (3-second gust)
Basic Wind Speed w/ Ice:	No Ice Considered
Code(s):	ANSI/TIA-222-H / 2021 IBC / 8th ED (2023) Florida Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.09$, $S_i = 0.05$
Site Class:	D - Stiff Soil - 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	Location	Result
Leg	55.7%	Member X	Section 8	Pass
Diagonal	70.1%	Member	Section 14	Pass
Horizontal	53.0%	Member	Section 1	Pass
Bolt	22.4%	-	Section 18	Pass
Torque Arm	35.3%	Compression	Elevation 168 ft	Pass
Cable	51.0%	Tension	Elevation 168 ft	Pass
Serviceability Usage	13.1%	Rotation	Elevation 288 ft	Pass
Foundation	43.0%	Shear	Anchor 1	Pass
Foundation	43.1%	Uplift	Anchor 1	Pass
Foundation	47.9%	Axial	Base	Pass
Foundation	20.0%	Shear	Base	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Guyed – Pivot Base	-	222.4	-	1.9
Guyed Anchor - A1	-	-	94.8	100.4

**Reactions shown are maximum overall and not limited by Load Case*

Foundation usages were calculated by comparing the maximum reactions from this analysis to the reactions from the original design drawings, factored by 1.35 per ANSI/TIA-222-H, Section 15.6.2

T-MOBILE Final Loading

Elev (ft)	Qty	Equipment	Lines
300.3	3	Ericsson Radio 4460 B25+B66	-
300.0	-	-	(2) 1.99" (50.7mm) Hybrid
295.0	3	Commscope FFVV-65C-R3-V1	-
	3	Ericsson AIR 6419 B41	
	3	Ericsson Radio 4480 B71+B85	
	3	Sector Frame	

Install proposed lines in the place of the existing T-MOBILE lines.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
304.0	1	Side Arm	-	HARRIS CORPORATION
300.0	1	Side Arm	-	HARRIS CORPORATION
291.0	-	-	(1) 1 5/8" Coax	M/A COM PRIVATE RADIO SYSTEMS INC
290.0	1	Combilent CP00732	(1) 1/2" Coax (1) 7/8" Coax	STATE OF FLORIDA
	1	Stand-Off		
	1	Sinclair SE414-SWBPALDF(DXX)		
283.0	1	RFS PAD6-65AC	(1) EW65	STATE OF FLORIDA
282.4	1	8' Dish w/ Radome	-	M/A COM PRIVATE RADIO SYSTEMS INC
282.0	-	-	(1) EW52	M/A COM PRIVATE RADIO SYSTEMS INC
279.0	-	-	(2) 1/2" Coax	M/A COM PRIVATE RADIO SYSTEMS INC
276.0	2	Sinclair SE414-SWBPALDF(DXX)	(2) 1 5/8" Coax	STATE OF FLORIDA
275.0	1	Side Arm	-	STATE OF FLORIDA
258.0	2	JMA Wireless MX06FRO860-02	(10) 1 5/8" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
	2	Raycap RCMDC-6627-PF-48		
	3	Commscope TD-850B-LTE78-43		
	3	Ericsson 8843 Rev 2		
	3	Ericsson AIR 6449 B77		
	3	Ericsson Radio 4449 - B13&B5		
	3	Light Sector Frame		
	4	JMA Wireless MX06FIT865-02		

Elev (ft)	Qty	Equipment	Lines	Carrier
243.0	-	-	(1) EW52	M/A COM PRIVATE RADIO SYSTEMS INC
242.9	1	6' Dish w/ Radome	-	M/A COM PRIVATE RADIO SYSTEMS INC
240.0	1	RFS PAD6-65AC	(1) EW65	STATE OF FLORIDA
198.0	1	Andrew Microwaves PAR6-59 w/ Radome	(1) EW52	VERIZON WIRELESS
187.0	1	6' Dish w/ Radome	(1) EW52	M/A COM PRIVATE RADIO SYSTEMS INC
186.0	1	RFS PAD6-65AC	(1) EW65	STATE OF FLORIDA
155.0	-	-	(1) EW52	M/A COM PRIVATE RADIO SYSTEMS INC
154.8	1	6' Dish w/ Radome	-	M/A COM PRIVATE RADIO SYSTEMS INC
154.0	1	RFS PAD6-65AC	(1) EW65	STATE OF FLORIDA
146.3	1	Andrew VHLPX4-6W	-	VERIZON WIRELESS
146.0	-	-	(1) EW52	VERIZON WIRELESS
99.0	-	-	(1) 7/8" Coax	M/A COM PRIVATE RADIO SYSTEMS INC
98.9	1	12' Omni	-	M/A COM PRIVATE RADIO SYSTEMS INC
92.0	1	Side Arm	-	M/A COM PRIVATE RADIO SYSTEMS INC

(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.

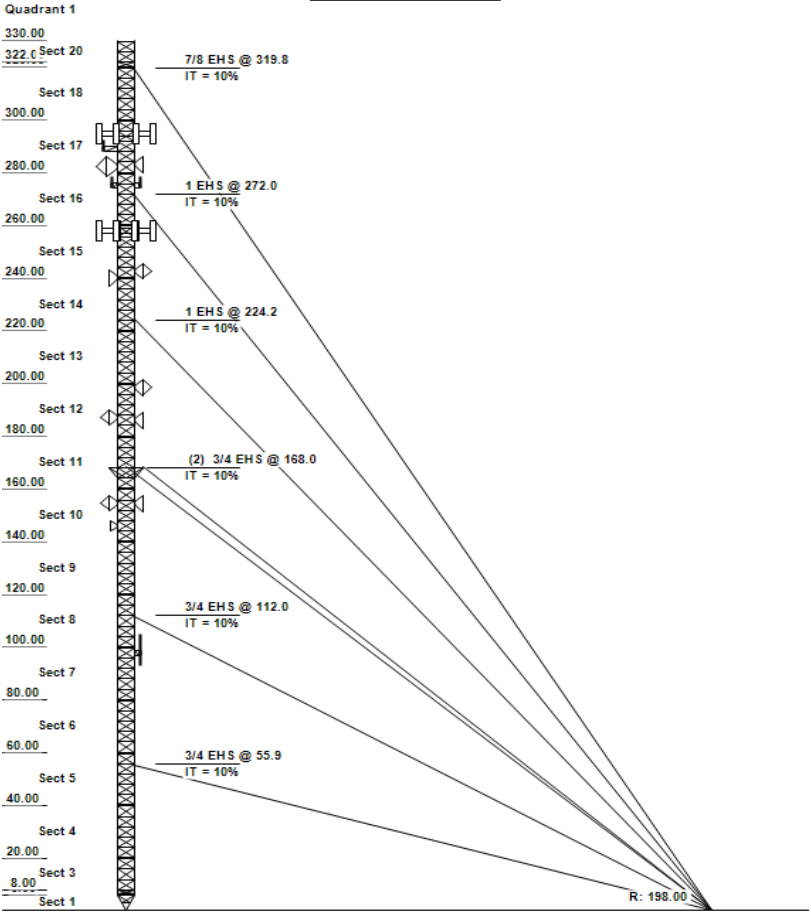
ASSET: Five Points, 2543
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189

ANALYSIS PARAMETERS			
Design Wind:	119 mph	Ice Wind:	30 mph w/ 0.00" ice
Risk Category:	II	Exposure:	C
Topo Factor:	Method 1	Topo Feature:	
Structure Height:	330 ft	Base Elevation:	0 ft
Base Width:	4.00 ft	Top Width:	4.00 ft
Service Wind:	60 mph	S ₁ :	0.087
		S ₂ :	0.051
Topo Category:	1	Shape:	Triangle
Base Type:	Pivot		

TOWER SECTION PROPERTIES			
Section	Leg Members	Diagonal Members	Horizontal Members
1	SOL 50 ksi 2 3/4" SOLID	PL 50 ksi PL 4 x 0.75"	SAE 36 ksi 2X2X0.1875
2 - 9	SOL 50 ksi 2 1/2" SOLID	SOL 36 ksi 3/4" SOLID	SAE 36 ksi 2X2X0.1875
10 - 12	SOL 50 ksi 2 3/4" SOLID	PL 36 ksi PL 2 x 0.5"	SAE 36 ksi 2.5X2.5X0.25
13 - 20	SOL 50 ksi 2 1/4" SOLID	SOL 36 ksi 3/4" SOLID	SAE 36 ksi 2X2X0.1875

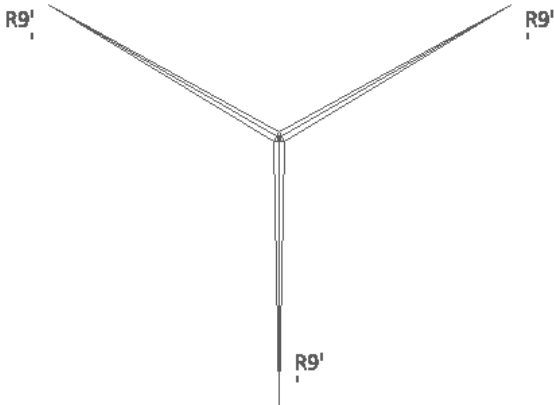
Tower Elevation View



BASE REACTIONS

Axial (k): 222.44
Shear (k): 1.86

Tower Plan View



DISCRETE APPURTENANCE		LINEAR APPURTENANCE	
Elev (ft)	Description	Elev (ft)	Description
304.0	(1) Generic Flat Side Arm		
300.3	(3) Ericsson Radio 4460 B25+B66		
300.0	(1) Generic Flat Side Arm		
295.0	(3) Commscope FFVV-65C-R3-V1		
295.0	(3) Ericsson Radio 4480 B71+B85		
295.0	(3) Ericsson AIR 6419 B41		
295.0	(3) Generic Round Sector Frame		
290.0	(1) Generic Flat Stand-Off		
290.0	(1) Sinclair SE414-SWBALDF(DXX)		
290.0	(1) Combilent CP00732		
283.0	(1) RFS PAD6-65AC		
282.4	(1) Generic 8' Dish w/ Radome		
276.0	(2) Sinclair SE414-SWBALDF(DXX)		
275.0	(1) Generic Flat Side Arm		
258.0	(3) Commscope TD-850B-LTE78-43		
258.0	(3) Ericsson AIR 6449 B77		
258.0	(2) JMA Wireless MX06FRO860-02		
258.0	(3) Generic Flat Light Sector Frame		
258.0	(3) Ericsson Radio 4449 - B13&B5		
258.0	(4) JMA Wireless MX06FIT865-02		
258.0	(3) Ericsson 8843 Rev 2		
258.0	(2) Raycap RCMD6-6627-PF-48		
242.9	(1) Generic 6' Dish w/ Radome		
240.0	(1) RFS PAD6-65AC		
198.0	(1) Andrew Microwaves PAR6-59 w/ Rado		
187.0	(1) Generic 6' Dish w/ Radome		
186.0	(1) RFS PAD6-65AC		
168.0	(1) Generic Torque Arm		
154.8	(1) Generic 6' Dish w/ Radome		
154.0	(1) RFS PAD6-65AC		
146.3	(1) Andrew VHLPX4-6W		
98.9	(1) Generic 12' Omni		
92.0	(1) Generic Round Side Arm		

GUY ANCHOR REACTIONS

Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (k)	Shear (k)
198.0	0.00	0	94.76	100.34
198.0	0.00	120	94.85	100.41
198.0	0.00	240	94.85	100.41

ANALYSIS PARAMETERS			
Location:	Columbia County, FL	Height:	330 ft
Type and Shape:	Guyed, Triangle	Base Elevation:	0.00 ft
Manufacturer:	FWT	Bottom Face Width:	4.00 ft
Kd	0.85	Top Face Width:	4.00 ft
Ke:	0.99		

ICE & WIND PARAMETERS			
Exposure Category:	C	Design Wind Speed Without Ice:	119 mph
Risk Category:	II	Design Wind Speed with Ice:	30 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	1	Design Ice Thickness:	0.00 in
Crest Height:	ft	HMSL:	148 ft

SEISMIC PARAMETERS					
Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):		0.76	
T _L (sec):	8	P:	1.3	C _s :	0.031
S _{ds} :	0.093	S _{d1} :	0.082	C _{s, Max} :	0.036
S _s :	0.087	S ₁ :	0.051	C _{s, Min} :	0.030
F _a :	1.600	F _v :	2.400		

LOAD CASES	
1.2D + 1.0W Normal	1.2D + 1.0W Normal - 119 mph Wind with No Ice
1.2D + 1.0W 60°	1.2D + 1.0W 60° - 119 mph Wind with No Ice
1.2D + 1.0W 90°	1.2D + 1.0W 90° - 119 mph Wind with No Ice
1.2D + 1.0W 120°	1.2D + 1.0W 120° - 119 mph Wind with No Ice
1.2D + 1.0W 180°	1.2D + 1.0W 180° - 119 mph Wind with No Ice
1.2D + 1.0W 210°	1.2D + 1.0W 210° - 119 mph Wind with No Ice
1.2D + 1.0W 240°	1.2D + 1.0W 240° - 119 mph Wind with No Ice
1.2D + 1.0W 300°	1.2D + 1.0W 300° - 119 mph Wind with No Ice
1.2D + 1.0W 330°	1.2D + 1.0W 330° - 119 mph Wind with No Ice
1.2D + 1.0Di + 1.0Wi Normal	1.2D + 1.0Di + 1.0Wi Normal - 30 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 60°	1.2D + 1.0Di + 1.0Wi 60° - 30 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 90°	1.2D + 1.0Di + 1.0Wi 90° - 30 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 120°	1.2D + 1.0Di + 1.0Wi 120° - 30 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 180°	1.2D + 1.0Di + 1.0Wi 180° - 30 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 210°	1.2D + 1.0Di + 1.0Wi 210° - 30 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 240°	1.2D + 1.0Di + 1.0Wi 240° - 30 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 300°	1.2D + 1.0Di + 1.0Wi 300° - 30 mph Wind with 0" Radial Ice
1.2D + 1.0Di + 1.0Wi 330°	1.2D + 1.0Di + 1.0Wi 330° - 30 mph Wind with 0" Radial Ice
1.2D + 1.0Ev + 1.0Eh Normal	1.2D + 1.0Ev + 1.0Eh Normal - Seismic
1.2D + 1.0Ev + 1.0Eh 60°	1.2D + 1.0Ev + 1.0Eh 60° - Seismic
1.2D + 1.0Ev + 1.0Eh 90°	1.2D + 1.0Ev + 1.0Eh 90° - Seismic
1.2D + 1.0Ev + 1.0Eh 120°	1.2D + 1.0Ev + 1.0Eh 120° - Seismic
1.2D + 1.0Ev + 1.0Eh 180°	1.2D + 1.0Ev + 1.0Eh 180° - Seismic
1.2D + 1.0Ev + 1.0Eh 210°	1.2D + 1.0Ev + 1.0Eh 210° - Seismic
1.2D + 1.0Ev + 1.0Eh 240°	1.2D + 1.0Ev + 1.0Eh 240° - Seismic
1.2D + 1.0Ev + 1.0Eh 300°	1.2D + 1.0Ev + 1.0Eh 300° - Seismic
1.2D + 1.0Ev + 1.0Eh 330°	1.2D + 1.0Ev + 1.0Eh 330° - Seismic

LOAD CASES	
1.0D + 1.0W Service Normal	1.0D + 1.0W Service Normal - 60 mph Wind with No Ice
1.0D + 1.0W Service 60°	1.0D + 1.0W Service 60° - 60 mph Wind with No Ice
1.0D + 1.0W Service 90°	1.0D + 1.0W Service 90° - 60 mph Wind with No Ice
1.0D + 1.0W Service 120°	1.0D + 1.0W Service 120° - 60 mph Wind with No Ice
1.0D + 1.0W Service 180°	1.0D + 1.0W Service 180° - 60 mph Wind with No Ice
1.0D + 1.0W Service 210°	1.0D + 1.0W Service 210° - 60 mph Wind with No Ice
1.0D + 1.0W Service 240°	1.0D + 1.0W Service 240° - 60 mph Wind with No Ice
1.0D + 1.0W Service 300°	1.0D + 1.0W Service 300° - 60 mph Wind with No Ice
1.0D + 1.0W Service 330°	1.0D + 1.0W Service 330° - 60 mph Wind with No Ice

ASSET: 2543, Five Points

CODE: ANSI/TIA-222-H

CUSTOMER: T-MOBILE

PROJECT: 14910189_C3_03

TOWER LOADING - DISCRETE APPURTENANCE

Discrete Appurtenance Properties for LC: 1.2D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
304.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	49.02	263	225
300.3	Ericsson Radio 4460 B25+B66	3	109	2.6	1.6	15.7	12.1	0.80	0.50	0.0	0.00	48.90	128	392
300.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	48.88	262	225
295.0	Ericsson Radio 4480 B71+B85	3	93	2.8	1.8	15.4	7.5	0.80	0.67	0.0	0.00	48.71	186	335
295.0	Ericsson AIR 6419 B41	3	69	5.6	2.8	20.0	6.3	0.80	0.60	0.0	0.00	48.71	334	247
295.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	48.71	1006	2520
295.0	Commscope FFFV-65C-R3-V1	3	125	21.1	8.0	25.2	9.3	0.80	0.63	0.0	0.00	48.71	1322	449
290.0	Combilent CP00732	1	8	0.3	0.8	4.0	4.0	1.00	1.00	0.0	0.00	48.54	13	10
290.0	Generic Flat Stand-Off	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	48.54	260	225
290.0	Sinclair SE414-SWBPALDF(DXX)	1	20	7.0	4.4	25.0	8.5	1.00	1.00	0.0	0.00	48.54	290	23
283.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	48.29	2325	222
282.4	Generic 8' Dish w/ Radome	1	304	43.4	8.0	96.0	0.0	1.00	1.00	0.0	0.00	48.27	1780	365
276.0	Sinclair SE414-SWBPALDF(DXX)	2	20	7.0	4.4	25.0	8.5	1.00	0.71	0.0	0.00	48.03	407	47
275.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	48.00	257	225
258.0	Ericsson 8843 Rev 2	3	75	1.6	1.3	13.2	11.1	0.80	0.50	0.0	0.00	47.36	80	270
258.0	Ericsson Radio 4449 - B13&B5	3	70	1.6	1.3	13.2	9.3	0.80	0.50	0.0	0.00	47.36	80	252
258.0	Commscope TD-850B-LTE78-43	3	53	2.0	1.3	15.3	6.4	0.80	0.50	0.0	0.00	47.36	95	191
258.0	Ericsson AIR 6449 B77	3	82	4.0	2.5	15.9	8.1	0.80	0.65	0.0	0.00	47.36	253	294
258.0	Raycap RCMDC-6627-PF-48	2	32	4.1	2.5	16.5	12.6	0.80	0.79	0.0	0.00	47.36	206	77
258.0	JMA Wireless MX06FIT865-02	4	50	11.4	8.0	11.9	10.7	0.80	0.76	0.0	0.00	47.36	1113	240
258.0	JMA Wireless MX06FRO860-02	2	51	14.0	8.0	15.4	10.7	0.80	0.79	0.0	0.00	47.36	713	122
258.0	Generic Flat Light Sector Fram	3	800	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	47.36	1086	2880
242.9	Generic 6' Dish w/ Radome	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.00	46.76	970	300
240.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	46.64	2246	222
198.0	Andrew Microwaves PAR6-59 w/ R	1	164	27.4	6.4	76.3	0.0	1.00	1.00	0.0	0.00	44.79	1044	197
187.0	Generic 6' Dish w/ Radome	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.00	44.25	918	300
186.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	44.20	2128	222
168.0	Generic Torque Arm	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	43.27	552	600
154.8	Generic 6' Dish w/ Radome	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.00	42.53	882	300
154.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	42.48	2045	222
146.3	Andrew VHLPX4-6W	1	101	17.8	4.2	50.8	29.5	1.00	1.00	0.0	0.00	42.03	634	121
98.9	Generic 12' Omni	1	40	3.6	12.0	3.0	3.0	1.00	1.00	0.0	0.00	38.70	118	48
92.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	38.12	168	225
Totals		59	10,493	761.3									24,163	12,592

Discrete Appurtenance Properties for LC: 1.2D + 1.0Di + 1.0Wi

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
304.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	3.12	17	225
300.3	Ericsson Radio 4460 B25+B66	3	109	2.6	1.6	15.7	12.1	0.80	0.50	0.0	0.00	3.11	8	392
300.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	3.11	17	225
295.0	Ericsson Radio 4480 B71+B85	3	93	2.8	1.8	15.4	7.5	0.80	0.67	0.0	0.00	3.10	12	335
295.0	Ericsson AIR 6419 B41	3	68	5.6	2.8	20.0	6.3	0.80	0.60	0.0	0.00	3.10	21	247
295.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	3.10	64	2520
295.0	Commscope FFFV-65C-R3-V1	3	125	21.1	8.0	25.2	9.3	0.80	0.63	0.0	0.00	3.10	84	449
290.0	Combilent CP00732	1	8	0.3	0.8	4.0	4.0	1.00	1.00	0.0	0.00	3.08	1	10
290.0	Generic Flat Stand-Off	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	3.08	17	225
290.0	Sinclair SE414-SWBPALDF(DXX)	1	20	7.0	4.4	25.0	8.5	1.00	1.00	0.0	0.00	3.08	18	23
283.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	3.07	148	222
282.4	Generic 8' Dish w/ Radome	1	304	43.4	8.0	96.0	0.0	1.00	1.00	0.0	0.00	3.07	113	365
276.0	Sinclair SE414-SWBPALDF(DXX)	2	20	7.0	4.4	25.0	8.5	1.00	0.71	0.0	0.00	3.05	26	47
275.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	3.05	16	225
258.0	Ericsson 8843 Rev 2	3	75	1.6	1.3	13.2	11.1	0.80	0.50	0.0	0.00	3.01	5	270
258.0	Ericsson Radio 4449 - B13&B5	3	70	1.6	1.3	13.2	9.3	0.80	0.50	0.0	0.00	3.01	5	252
258.0	Commscope TD-850B-LTE78-43	3	53	2.0	1.3	15.3	6.4	0.80	0.50	0.0	0.00	3.01	6	191
258.0	Ericsson AIR 6449 B77	3	82	4.0	2.5	15.9	8.1	0.80	0.65	0.0	0.00	3.01	16	294
258.0	Raycap RCMDC-6627-PF-48	2	32	4.1	2.5	16.5	12.6	0.80	0.79	0.0	0.00	3.01	13	77
258.0	JMA Wireless MX06FIT865-02	4	50	11.4	8.0	11.9	10.7	0.80	0.76	0.0	0.00	3.01	71	240
258.0	JMA Wireless MX06FRO860-02	2	51	14.0	8.0	15.4	10.7	0.80	0.79	0.0	0.00	3.01	45	122
258.0	Generic Flat Light Sector Fram	3	800	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	3.01	69	2880
242.9	Generic 6' Dish w/ Radome	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.00	2.97	62	300
240.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	2.96	143	222
198.0	Andrew Microwaves PAR6-59 w/ R	1	164	27.4	6.4	76.3	0.0	1.00	1.00	0.0	0.00	2.85	66	197
187.0	Generic 6' Dish w/ Radome	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.00	2.81	58	300
186.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	2.81	135	222
168.0	Generic Torque Arm	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	2.75	35	600
154.8	Generic 6' Dish w/ Radome	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.00	2.70	56	300
154.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	2.70	130	222
146.3	Andrew VHLPX4-6W	1	101	17.8	4.2	50.8	29.5	1.00	1.00	0.0	0.00	2.67	40	121
98.9	Generic 12' Omni	1	40	3.6	12.0	3.0	3.0	1.00	1.00	0.0	0.00	2.46	8	48
92.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	2.42	11	225
Totals		59	10,493	761.3									1536	12,592

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

Discrete Appurtenance Properties for LC: 1.0D + 1.0W Service

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
304.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	12.46	67	188
300.3	Ericsson Radio 4460 B25+B66	3	109	2.6	1.6	15.7	12.1	0.80	0.50	0.0	0.00	12.43	33	327
300.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	12.43	67	188
295.0	Ericsson Radio 4480 B71+B85	3	93	2.8	1.8	15.4	7.5	0.80	0.67	0.0	0.00	12.38	47	279
295.0	Ericsson AIR 6419 B41	3	69	5.6	2.8	20.0	6.3	0.80	0.60	0.0	0.00	12.38	85	206
295.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	12.38	256	2100
295.0	Commscope FFFV-65C-R3-V1	3	125	21.1	8.0	25.2	9.3	0.80	0.63	0.0	0.00	12.38	336	374
290.0	Combilent CP00732	1	8	0.3	0.8	4.0	4.0	1.00	1.00	0.0	0.00	12.34	3	8
290.0	Generic Flat Stand-Off	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	12.34	66	188
290.0	Sinclair SE414-SWBPALDF(DXX)	1	20	7.0	4.4	25.0	8.5	1.00	1.00	0.0	0.00	12.34	74	20
283.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	12.28	591	185
282.4	Generic 8' Dish w/ Radome	1	304	43.4	8.0	96.0	0.0	1.00	1.00	0.0	0.00	12.27	453	304
276.0	Sinclair SE414-SWBPALDF(DXX)	2	20	7.0	4.4	25.0	8.5	1.00	0.71	0.0	0.00	12.21	103	39
275.0	Generic Flat Side Arm	1	188	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	12.20	65	188
258.0	Ericsson 8843 Rev 2	3	75	1.6	1.3	13.2	11.1	0.80	0.50	0.0	0.00	12.04	20	225
258.0	Ericsson Radio 4449 - B13&B5	3	70	1.6	1.3	13.2	9.3	0.80	0.50	0.0	0.00	12.04	20	210
258.0	Commscope TD-850B-LTE78-43	3	53	2.0	1.3	15.3	6.4	0.80	0.50	0.0	0.00	12.04	24	159
258.0	Ericsson AIR 6449 B77	3	82	4.0	2.5	15.9	8.1	0.80	0.65	0.0	0.00	12.04	64	245
258.0	Raycap RCMD-6627-PF-48	2	32	4.1	2.5	16.5	12.6	0.80	0.79	0.0	0.00	12.04	52	64
258.0	JMA Wireless MX06FIT865-02	4	50	11.4	8.0	11.9	10.7	0.80	0.76	0.0	0.00	12.04	283	200
258.0	JMA Wireless MX06FRO860-02	2	51	14.0	8.0	15.4	10.7	0.80	0.79	0.0	0.00	12.04	181	102
258.0	Generic Flat Light Sector Fram	3	800	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	12.04	276	2400
242.9	Generic 6' Dish w/ Radome	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.00	11.89	247	250
240.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	11.86	571	185
198.0	Andrew Microwaves PAR6-59 w/ R	1	164	27.4	6.4	76.3	0.0	1.00	1.00	0.0	0.00	11.39	265	164
187.0	Generic 6' Dish w/ Radome	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.00	11.25	233	250
186.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	11.24	541	185
168.0	Generic Torque Arm	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	11.00	140	500
154.8	Generic 6' Dish w/ Radome	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.00	10.81	224	250
154.0	RFS PAD6-65AC	1	185	56.6	6.6	79.0	0.0	1.00	1.00	0.0	0.00	10.80	520	185
146.3	Andrew VHLPX4-6W	1	101	17.8	4.2	50.8	29.5	1.00	1.00	0.0	0.00	10.68	161	101
98.9	Generic 12' Omni	1	40	3.6	12.0	3.0	3.0	1.00	1.00	0.0	0.00	9.84	30	40
92.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	9.69	43	188
Totals		59	10,493	761.3									6,143	10,493

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

TOWER LOADING - LINEAR APPURTENANCE

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	% In Wind	Spread On Faces	Bundling	Cluster Dia (in)	Out of Zone	Spacing (in)	Orient. Factor	K _a Override
0.0	330.0	Climbing Ladder	1	2.00	6.90	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	300.0	1.99" (50.7mm) Hybrid	2	1.99	1.90	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	291.0	1 5/8" Coax	1	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	290.0	1/2" Coax	1	0.63	0.15	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	290.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	283.0	EW65	1	2.01	0.57	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	282.0	EW52	1	2.25	0.59	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	279.0	1/2" Coax	2	0.63	0.15	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	276.0	1 5/8" Coax	2	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	258.0	1 5/8" Coax	10	1.98	0.82	50	3	Block	0.00	N	1.00	1.00	0.00
0.0	258.0	1 5/8" Hybriflex	2	1.98	1.30	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	243.0	EW52	1	2.25	0.59	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	240.0	EW65	1	2.01	0.57	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	198.0	EW52	1	2.25	0.59	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	187.0	EW52	1	2.25	0.59	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	186.0	EW65	1	2.01	0.57	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	155.0	EW52	1	2.25	0.59	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	154.0	EW65	1	2.01	0.57	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	146.0	EW52	1	2.25	0.59	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	99.0	7/8" Coax	1	1.09	0.33	100	2	Individual	0.00	N	1.00	1.00	0.00

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

SECTION FORCES																			
1.2D + 1.0W Normal						Gust Response Factor (Gh):		0.85											
119 mph Wind with No Ice						Wind Importance Factor (Iw):		1.00											
Section #	Elev (ft)	Q _z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
20	326	49.75	1.271	4.345	0.00	0.168	2.71	1.00	1.00	0.0	3.77	10.21	0.00	647	0	432	41	473	
19	321	49.59	1.271	1.272	0.00	0.304	2.29	1.00	1.00	0.0	2.05	4.68	0.00	231	0	197	10	208	
18	310	49.22	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1673	0	1166	100	1266	
17	290	48.54	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1764	0	1115	419	1534	
16	270	47.81	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1861	0	1132	893	2025	
15	250	47.04	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2085	0	1081	1857	2938	
14	230	46.23	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	2157	0	1095	2110	3205	
13	210	45.35	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2137	0	1042	2070	3112	
12	190	44.40	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3165	0	1711	2182	3893	
11	170	43.38	13.738	9.167	0.00	0.271	2.38	1.00	1.00	0.0	19.15	45.51	0.00	3185	0	1678	2268	3946	
10	150	42.25	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3210	0	1628	2372	4000	
9	130	40.99	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2449	0	975	2416	3390	
8	110	39.58	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2469	0	969	2332	3301	
7	90	37.94	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	902	2276	3178	
6	70	35.98	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	856	2161	3016	
5	50	33.52	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2477	0	821	2013	2834	
4	30	30.11	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	716	1808	2523	
3	14	26.05	1.896	7.021	0.00	0.177	2.68	1.00	1.00	0.0	5.95	15.92	0.00	1454	0	352	939	1291	
2	7	26.05	1.264	1.353	0.00	0.311	2.27	1.00	1.00	0.0	2.09	4.75	0.00	312	0	105	156	262	
1	3	26.05	3.625	2.947	0.00	0.491	1.91	1.00	1.00	0.0	5.63	10.76	0.00	1058	0	238	398	622	
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0		47,016	**

1.2D + 1.0W 60°			Gust Response Factor (Gh): 0.85															
119 mph Wind with No Ice			Wind Importance Factor (Iw): 1.00															
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	49.75	1.271	4.345	0.00	0.168	2.71	0.80	1.00	0.0	3.52	9.53	0.00	647	0	403	41	443
19	321	49.59	1.271	1.272	0.00	0.304	2.29	0.80	1.00	0.0	1.79	4.10	0.00	231	0	173	10	183
18	310	49.22	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1673	0	1073	100	1173
17	290	48.54	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1764	0	1031	419	1449
16	270	47.81	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1861	0	1042	893	1935
15	250	47.04	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2085	0	999	1857	2856
14	230	46.23	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	2157	0	1007	2110	3118
13	210	45.35	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2137	0	963	2070	3033
12	190	44.40	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3165	0	1466	2182	3648
11	170	43.38	13.738	9.167	0.00	0.271	2.38	0.80	1.00	0.0	16.40	38.98	0.00	3185	0	1437	2268	3705
10	150	42.25	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3210	0	1395	2372	3767
9	130	40.99	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2449	0	905	2416	3320
8	110	39.58	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2469	0	895	2332	3228
7	90	37.94	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	837	2276	3113
6	70	35.98	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	794	2161	2955
5	50	33.52	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2477	0	758	2013	2771
4	30	30.11	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	664	1808	2472
3	14	26.05	1.896	7.021	0.00	0.177	2.68	0.80	1.00	0.0	5.57	14.90	0.00	1454	0	330	939	1269
2	7	26.05	1.264	1.353	0.00	0.311	2.27	0.80	1.00	0.0	1.84	4.18	0.00	312	0	92	156	249
1	3	26.05	3.625	2.947	0.00	0.491	1.91	0.80	1.00	0.0	4.91	9.38	0.00	1058	0	208	398	605
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0		45,292

1.2D + 1.0W 90°			Gust Response Factor (Gh): 0.85															
119 mph Wind with No Ice			Wind Importance Factor (Iw): 1.00															
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	49.75	1.271	4.345	0.00	0.168	2.71	0.85	1.00	0.0	3.58	9.70	0.00	647	0	410	41	451
19	321	49.59	1.271	1.272	0.00	0.304	2.29	0.85	1.00	0.0	1.86	4.25	0.00	231	0	179	10	189
18	310	49.22	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1673	0	1096	100	1196
17	290	48.54	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1764	0	1052	419	1471
16	270	47.81	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1861	0	1065	893	1957
15	250	47.04	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2085	0	1020	1857	2877
14	230	46.23	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	2157	0	1029	2110	3139
13	210	45.35	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2137	0	983	2070	3053
12	190	44.40	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3165	0	1527	2182	3709
11	170	43.38	13.738	9.167	0.00	0.271	2.38	0.85	1.00	0.0	17.09	40.61	0.00	3185	0	1497	2268	3766
10	150	42.25	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3210	0	1453	2372	3825
9	130	40.99	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2449	0	922	2416	3338
8	110	39.58	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2469	0	914	2332	3246
7	90	37.94	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	853	2276	3129
6	70	35.98	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	809	2161	2970
5	50	33.52	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2477	0	774	2013	2787
4	30	30.11	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	677	1808	2485
3	14	26.05	1.896	7.021	0.00	0.177	2.68	0.85	1.00	0.0	5.66	15.16	0.00	1454	0	336	939	1274
2	7	26.05	1.264	1.353	0.00	0.311	2.27	0.85	1.00	0.0	1.91	4.32	0.00	312	0	96	156	252
1	3	26.05	3.625	2.947	0.00	0.491	1.91	0.85	1.00	0.0	5.09	9.72	0.00	1058	0	215	398	613
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0	45,727	

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

SECTION FORCES																			
1.2D + 1.0W 120°						Gust Response Factor (Gh):		0.85											
119 mph Wind with No Ice						Wind Importance Factor (Iw):		1.00											
Section #	Elev (ft)	Q _z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
20	326	49.75	1.271	4.345	0.00	0.168	2.71	1.00	1.00	0.0	3.77	10.21	0.00	647	0	432	41	473	
19	321	49.59	1.271	1.272	0.00	0.304	2.29	1.00	1.00	0.0	2.05	4.68	0.00	231	0	197	10	208	
18	310	49.22	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1673	0	1166	100	1266	
17	290	48.54	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1764	0	1115	419	1534	
16	270	47.81	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1861	0	1132	893	2025	
15	250	47.04	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2085	0	1081	1857	2938	
14	230	46.23	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	2157	0	1095	2110	3205	
13	210	45.35	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2137	0	1042	2070	3112	
12	190	44.40	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3165	0	1711	2182	3893	
11	170	43.38	13.738	9.167	0.00	0.271	2.38	1.00	1.00	0.0	19.15	45.51	0.00	3185	0	1678	2268	3946	
10	150	42.25	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3210	0	1628	2372	4000	
9	130	40.99	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2449	0	975	2416	3390	
8	110	39.58	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2469	0	969	2332	3301	
7	90	37.94	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	902	2276	3178	
6	70	35.98	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	856	2161	3016	
5	50	33.52	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2477	0	821	2013	2834	
4	30	30.11	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	716	1808	2523	
3	14	26.05	1.896	7.021	0.00	0.177	2.68	1.00	1.00	0.0	5.95	15.92	0.00	1454	0	352	939	1291	
2	7	26.05	1.264	1.353	0.00	0.311	2.27	1.00	1.00	0.0	2.09	4.75	0.00	312	0	105	156	262	
1	3	26.05	3.625	2.947	0.00	0.491	1.91	1.00	1.00	0.0	5.63	10.76	0.00	1058	0	238	398	622	
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0		47,016	**

1.2D + 1.0W 180°			Gust Response Factor (Gh): 0.85															
119 mph Wind with No Ice			Wind Importance Factor (Iw): 1.00															
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	49.75	1.271	4.345	0.00	0.168	2.71	0.80	1.00	0.0	3.52	9.53	0.00	647	0	403	41	443
19	321	49.59	1.271	1.272	0.00	0.304	2.29	0.80	1.00	0.0	1.79	4.10	0.00	231	0	173	10	183
18	310	49.22	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1673	0	1073	100	1173
17	290	48.54	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1764	0	1031	419	1449
16	270	47.81	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1861	0	1042	893	1935
15	250	47.04	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2085	0	999	1857	2856
14	230	46.23	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	2157	0	1007	2110	3118
13	210	45.35	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2137	0	963	2070	3033
12	190	44.40	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3165	0	1466	2182	3648
11	170	43.38	13.738	9.167	0.00	0.271	2.38	0.80	1.00	0.0	16.40	38.98	0.00	3185	0	1437	2268	3705
10	150	42.25	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3210	0	1395	2372	3767
9	130	40.99	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2449	0	905	2416	3320
8	110	39.58	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2469	0	895	2332	3228
7	90	37.94	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	837	2276	3113
6	70	35.98	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	794	2161	2955
5	50	33.52	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2477	0	758	2013	2771
4	30	30.11	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	664	1808	2472
3	14	26.05	1.896	7.021	0.00	0.177	2.68	0.80	1.00	0.0	5.57	14.90	0.00	1454	0	330	939	1269
2	7	26.05	1.264	1.353	0.00	0.311	2.27	0.80	1.00	0.0	1.84	4.18	0.00	312	0	92	156	249
1	3	26.05	3.625	2.947	0.00	0.491	1.91	0.80	1.00	0.0	4.91	9.38	0.00	1058	0	208	398	605
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0	45,292	

1.2D + 1.0W 210°			Gust Response Factor (Gh): 0.85															
119 mph Wind with No Ice			Wind Importance Factor (Iw): 1.00															
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	49.75	1.271	4.345	0.00	0.168	2.71	0.85	1.00	0.0	3.58	9.70	0.00	647	0	410	41	451
19	321	49.59	1.271	1.272	0.00	0.304	2.29	0.85	1.00	0.0	1.86	4.25	0.00	231	0	179	10	189
18	310	49.22	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1673	0	1096	100	1196
17	290	48.54	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1764	0	1052	419	1471
16	270	47.81	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1861	0	1065	893	1957
15	250	47.04	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2085	0	1020	1857	2877
14	230	46.23	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	2157	0	1029	2110	3139
13	210	45.35	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2137	0	983	2070	3053
12	190	44.40	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3165	0	1527	2182	3709
11	170	43.38	13.738	9.167	0.00	0.271	2.38	0.85	1.00	0.0	17.09	40.61	0.00	3185	0	1497	2268	3766
10	150	42.25	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3210	0	1453	2372	3825
9	130	40.99	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2449	0	922	2416	3338
8	110	39.58	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2469	0	914	2332	3246
7	90	37.94	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	853	2276	3129
6	70	35.98	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	809	2161	2970
5	50	33.52	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2477	0	774	2013	2787
4	30	30.11	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	677	1808	2485
3	14	26.05	1.896	7.021	0.00	0.177	2.68	0.85	1.00	0.0	5.66	15.16	0.00	1454	0	336	939	1274
2	7	26.05	1.264	1.353	0.00	0.311	2.27	0.85	1.00	0.0	1.91	4.32	0.00	312	0	96	156	252
1	3	26.05	3.625	2.947	0.00	0.491	1.91	0.85	1.00	0.0	5.09	9.72	0.00	1058	0	215	398	613
** = Section Force Exceeds Solidity Ratio Criteria													Totals	39,704	0	45,727		

SECTION FORCES																			
1.2D + 1.0W 240°						Gust Response Factor (Gh):		0.85											
119 mph Wind with No Ice						Wind Importance Factor (Iw):		1.00											
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
20	326	49.75	1.271	4.345	0.00	0.168	2.71	1.00	1.00	0.0	3.77	10.21	0.00	647	0	432	41	473	
19	321	49.59	1.271	1.272	0.00	0.304	2.29	1.00	1.00	0.0	2.05	4.68	0.00	231	0	197	10	208	
18	310	49.22	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1673	0	1166	100	1266	
17	290	48.54	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1764	0	1115	419	1534	
16	270	47.81	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1861	0	1132	893	2025	
15	250	47.04	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2085	0	1081	1857	2938	
14	230	46.23	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	2157	0	1095	2110	3205	
13	210	45.35	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2137	0	1042	2070	3112	
12	190	44.40	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3165	0	1711	2182	3893	
11	170	43.38	13.738	9.167	0.00	0.271	2.38	1.00	1.00	0.0	19.15	45.51	0.00	3185	0	1678	2268	3946	
10	150	42.25	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3210	0	1628	2372	4000	
9	130	40.99	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2449	0	975	2416	3390	
8	110	39.58	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2469	0	969	2332	3301	
7	90	37.94	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	902	2276	3178	
6	70	35.98	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	856	2161	3016	
5	50	33.52	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2477	0	821	2013	2834	
4	30	30.11	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	716	1808	2523	
3	14	26.05	1.896	7.021	0.00	0.177	2.68	1.00	1.00	0.0	5.95	15.92	0.00	1454	0	352	939	1291	
2	7	26.05	1.264	1.353	0.00	0.311	2.27	1.00	1.00	0.0	2.09	4.75	0.00	312	0	105	156	262	
1	3	26.05	3.625	2.947	0.00	0.491	1.91	1.00	1.00	0.0	5.63	10.76	0.00	1058	0	238	398	622	
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0		47,016	**

1.2D + 1.0W 300°			Gust Response Factor (Gh): 0.85															
119 mph Wind with No Ice			Wind Importance Factor (Iw): 1.00															
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _i	D _i	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	49.75	1.271	4.345	0.00	0.168	2.71	0.80	1.00	0.0	3.52	9.53	0.00	647	0	403	41	443
19	321	49.59	1.271	1.272	0.00	0.304	2.29	0.80	1.00	0.0	1.79	4.10	0.00	231	0	173	10	183
18	310	49.22	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1673	0	1073	100	1173
17	290	48.54	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1764	0	1031	419	1449
16	270	47.81	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1861	0	1042	893	1935
15	250	47.04	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2085	0	999	1857	2856
14	230	46.23	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	2157	0	1007	2110	3118
13	210	45.35	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2137	0	963	2070	3033
12	190	44.40	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3165	0	1466	2182	3648
11	170	43.38	13.738	9.167	0.00	0.271	2.38	0.80	1.00	0.0	16.40	38.98	0.00	3185	0	1437	2268	3705
10	150	42.25	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3210	0	1395	2372	3767
9	130	40.99	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2449	0	905	2416	3320
8	110	39.58	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2469	0	895	2332	3228
7	90	37.94	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	837	2276	3113
6	70	35.98	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	794	2161	2955
5	50	33.52	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2477	0	758	2013	2771
4	30	30.11	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	664	1808	2472
3	14	26.05	1.896	7.021	0.00	0.177	2.68	0.80	1.00	0.0	5.57	14.90	0.00	1454	0	330	939	1269
2	7	26.05	1.264	1.353	0.00	0.311	2.27	0.80	1.00	0.0	1.84	4.18	0.00	312	0	92	156	249
1	3	26.05	3.625	2.947	0.00	0.491	1.91	0.80	1.00	0.0	4.91	9.38	0.00	1058	0	208	398	605
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0	45,292	

1.2D + 1.0W 330°			Gust Response Factor (Gh): 0.85															
119 mph Wind with No Ice			Wind Importance Factor (Iw): 1.00															
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	49.75	1.271	4.345	0.00	0.168	2.71	0.85	1.00	0.0	3.58	9.70	0.00	647	0	410	41	451
19	321	49.59	1.271	1.272	0.00	0.304	2.29	0.85	1.00	0.0	1.86	4.25	0.00	231	0	179	10	189
18	310	49.22	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1673	0	1096	100	1196
17	290	48.54	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1764	0	1052	419	1471
16	270	47.81	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1861	0	1065	893	1957
15	250	47.04	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2085	0	1020	1857	2877
14	230	46.23	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	2157	0	1029	2110	3139
13	210	45.35	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2137	0	983	2070	3053
12	190	44.40	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3165	0	1527	2182	3709
11	170	43.38	13.738	9.167	0.00	0.271	2.38	0.85	1.00	0.0	17.09	40.61	0.00	3185	0	1497	2268	3766
10	150	42.25	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3210	0	1453	2372	3825
9	130	40.99	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2449	0	922	2416	3338
8	110	39.58	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2469	0	914	2332	3246
7	90	37.94	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	853	2276	3129
6	70	35.98	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	809	2161	2970
5	50	33.52	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2477	0	774	2013	2787
4	30	30.11	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	677	1808	2485
3	14	26.05	1.896	7.021	0.00	0.177	2.68	0.85	1.00	0.0	5.66	15.16	0.00	1454	0	336	939	1274
2	7	26.05	1.264	1.353	0.00	0.311	2.27	0.85	1.00	0.0	1.91	4.32	0.00	312	0	96	156	252
1	3	26.05	3.625	2.947	0.00	0.491	1.91	0.85	1.00	0.0	5.09	9.72	0.00	1058	0	215	398	613
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0	45,727	

SECTION FORCES																			
1.2D + 1.0Di + 1.0Wi Normal						Gust Response Factor (Gh):			0.85										
30 mph Wind with 0" Radial Ice						Wind Importance Factor (Iw):			1.00										
														Ice Dead Load Factor:			1.00		
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
20	326	3.16	1.271	4.345	0.00	0.168	2.71	1.00	1.00	0.0	3.77	10.21	0.00	647	0	27	4	31	
19	321	3.15	1.271	1.272	0.00	0.304	2.29	1.00	1.00	0.0	2.05	4.68	0.00	231	0	13	1	13	
18	310	3.13	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1673	0	74	9	83	
17	290	3.08	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1764	0	71	37	107	
16	270	3.04	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1861	0	72	78	150	
15	250	2.99	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2085	0	69	144	213	
14	230	2.94	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	2157	0	70	164	234	
13	210	2.88	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2137	0	66	162	228	
12	190	2.82	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3165	0	109	158	267	
11	170	2.76	13.738	9.167	0.00	0.271	2.38	1.00	1.00	0.0	19.15	45.51	0.00	3185	0	107	165	271	
10	150	2.68	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3210	0	103	173	277	
9	130	2.61	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2449	0	62	192	254	
8	110	2.52	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2469	0	62	185	246	
7	90	2.41	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	57	181	239	
6	70	2.29	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	54	172	227	
5	50	2.13	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2477	0	52	160	212	
4	30	1.91	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	45	144	190	
3	14	1.66	1.896	7.021	0.00	0.177	2.68	1.00	1.00	0.0	5.95	15.92	0.00	1454	0	22	75	98	
2	7	1.66	1.264	1.353	0.00	0.311	2.27	1.00	1.00	0.0	2.09	4.75	0.00	312	0	7	11	18	
1	3	1.66	3.625	2.947	0.00	0.491	1.91	1.00	1.00	0.0	5.63	10.76	0.00	1058	0	15	25	40	
** = Section Force Exceeds Solidity Ratio Criteria													Totals	39,704	0			3,396	**

1.2D + 1.0Di + 1.0Wi 60°					Gust Response Factor (Gh):					0.85														
30 mph Wind with 0" Radial Ice					Wind Importance Factor (Iw):					1.00					Ice Dead Load Factor:					1.00				
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _i	D _i	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)						
20	326	3.16	1.271	4.345	0.00	0.168	2.71	0.80	1.00	0.0	3.52	9.53	0.00	647	0	26	4	29						
19	321	3.15	1.271	1.272	0.00	0.304	2.29	0.80	1.00	0.0	1.79	4.10	0.00	231	0	11	1	12						
18	310	3.13	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1673	0	68	9	77						
17	290	3.08	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1764	0	66	37	102						
16	270	3.04	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1861	0	66	78	144						
15	250	2.99	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2085	0	63	144	208						
14	230	2.94	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	2157	0	64	164	228						
13	210	2.88	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2137	0	61	162	223						
12	190	2.82	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3165	0	93	158	251						
11	170	2.76	13.738	9.167	0.00	0.271	2.38	0.80	1.00	0.0	16.40	38.98	0.00	3185	0	91	165	256						
10	150	2.68	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3210	0	89	173	262						
9	130	2.61	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2449	0	57	192	250						
8	110	2.52	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2469	0	57	185	242						
7	90	2.41	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	53	181	235						
6	70	2.29	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	50	172	223						
5	50	2.13	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2477	0	48	160	208						
4	30	1.91	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	42	144	186						
3	14	1.66	1.896	7.021	0.00	0.177	2.68	0.80	1.00	0.0	5.57	14.90	0.00	1454	0	21	75	96						
2	7	1.66	1.264	1.353	0.00	0.311	2.27	0.80	1.00	0.0	1.84	4.18	0.00	312	0	6	11	17						
1	3	1.66	3.625	2.947	0.00	0.491	1.91	0.80	1.00	0.0	4.91	9.38	0.00	1058	0	13	25	38						
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0	3,286							

1.2D + 1.0Di + 1.0Wi 90°						Gust Response Factor (Gh): 0.85												
30 mph Wind with 0" Radial Ice						Wind Importance Factor (Iw): 1.00						Ice Dead Load Factor: 1.00						
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	3.16	1.271	4.345	0.00	0.168	2.71	0.85	1.00	0.0	3.58	9.70	0.00	647	0	26	4	30
19	321	3.15	1.271	1.272	0.00	0.304	2.29	0.85	1.00	0.0	1.86	4.25	0.00	231	0	11	1	12
18	310	3.13	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1673	0	70	9	78
17	290	3.08	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1764	0	67	37	103
16	270	3.04	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1861	0	68	78	145
15	250	2.99	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2085	0	65	144	209
14	230	2.94	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	2157	0	65	164	230
13	210	2.88	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2137	0	62	162	224
12	190	2.82	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3165	0	97	158	255
11	170	2.76	13.738	9.167	0.00	0.271	2.38	0.85	1.00	0.0	17.09	40.61	0.00	3185	0	95	165	260
10	150	2.68	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3210	0	92	173	265
9	130	2.61	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2449	0	59	192	251
8	110	2.52	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2469	0	58	185	243
7	90	2.41	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	54	181	236
6	70	2.29	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	51	172	224
5	50	2.13	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2477	0	49	160	209
4	30	1.91	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	43	144	187
3	14	1.66	1.896	7.021	0.00	0.177	2.68	0.85	1.00	0.0	5.66	15.16	0.00	1454	0	21	75	97
2	7	1.66	1.264	1.353	0.00	0.311	2.27	0.85	1.00	0.0	1.91	4.32	0.00	312	0	6	11	17
1	3	1.66	3.625	2.947	0.00	0.491	1.91	0.85	1.00	0.0	5.09	9.72	0.00	1058	0	14	25	39
** = Section Force Exceeds Solidity Ratio Criteria													Totals	39,704	0	3,314		

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

SECTION FORCES																				
1.2D + 1.0Di + 1.0Wi 120°						Gust Response Factor (Gh):		0.85												
30 mph Wind with 0" Radial Ice						Wind Importance Factor (Iw):		1.00												
						Ice Dead Load Factor:													1.00	
Section #	Elev (ft)	Q _z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)		
20	326	3.16	1.271	4.345	0.00	0.168	2.71	1.00	1.00	0.0	3.77	10.21	0.00	647	0	27	4	31		
19	321	3.15	1.271	1.272	0.00	0.304	2.29	1.00	1.00	0.0	2.05	4.68	0.00	231	0	13	1	13		
18	310	3.13	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1673	0	74	9	83		
17	290	3.08	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1764	0	71	37	107		
16	270	3.04	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1861	0	72	78	150		
15	250	2.99	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2085	0	69	144	213		
14	230	2.94	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	2157	0	70	164	234		
13	210	2.88	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2137	0	66	162	228		
12	190	2.82	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3165	0	109	158	267		
11	170	2.76	13.738	9.167	0.00	0.271	2.38	1.00	1.00	0.0	19.15	45.51	0.00	3185	0	107	165	271		
10	150	2.68	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3210	0	103	173	277		
9	130	2.61	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2449	0	62	192	254		
8	110	2.52	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2469	0	62	185	246		
7	90	2.41	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	57	181	239		
6	70	2.29	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	54	172	227		
5	50	2.13	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2477	0	52	160	212		
4	30	1.91	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	45	144	190		
3	14	1.66	1.896	7.021	0.00	0.177	2.68	1.00	1.00	0.0	5.95	15.92	0.00	1454	0	22	75	98		
2	7	1.66	1.264	1.353	0.00	0.311	2.27	1.00	1.00	0.0	2.09	4.75	0.00	312	0	7	11	18		
1	3	1.66	3.625	2.947	0.00	0.491	1.91	1.00	1.00	0.0	5.63	10.76	0.00	1058	0	15	25	40		
** = Section Force Exceeds Solidity Ratio Criteria													Totals	39,704	0			3,396	**	

1.2D + 1.0Di + 1.0Wi 180°			Gust Response Factor (Gh):			0.85													
30 mph Wind with 0" Radial Ice			Wind Importance Factor (Iw):			1.00			Ice Dead Load Factor:				1.00						
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
20	326	3.16	1.271	4.345	0.00	0.168	2.71	0.80	1.00	0.0	3.52	9.53	0.00	647	0	26	4	29	
19	321	3.15	1.271	1.272	0.00	0.304	2.29	0.80	1.00	0.0	1.79	4.10	0.00	231	0	11	1	12	
18	310	3.13	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1673	0	68	9	77	
17	290	3.08	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1764	0	66	37	102	
16	270	3.04	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1861	0	66	78	144	
15	250	2.99	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2085	0	63	144	208	
14	230	2.94	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	2157	0	64	164	228	
13	210	2.88	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2137	0	61	162	223	
12	190	2.82	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3165	0	93	158	251	
11	170	2.76	13.738	9.167	0.00	0.271	2.38	0.80	1.00	0.0	16.40	38.98	0.00	3185	0	91	165	256	
10	150	2.68	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3210	0	89	173	262	
9	130	2.61	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2449	0	57	192	250	
8	110	2.52	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2469	0	57	185	242	
7	90	2.41	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	53	181	235	
6	70	2.29	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	50	172	223	
5	50	2.13	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2477	0	48	160	208	
4	30	1.91	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	42	144	186	
3	14	1.66	1.896	7.021	0.00	0.177	2.68	0.80	1.00	0.0	5.57	14.90	0.00	1454	0	21	75	96	
2	7	1.66	1.264	1.353	0.00	0.311	2.27	0.80	1.00	0.0	1.84	4.18	0.00	312	0	6	11	17	
1	3	1.66	3.625	2.947	0.00	0.491	1.91	0.80	1.00	0.0	4.91	9.38	0.00	1058	0	13	25	38	
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0		3,286	

1.2D + 1.0Di + 1.0Wi 210°			Gust Response Factor (Gh): 0.85																
30 mph Wind with 0" Radial Ice			Wind Importance Factor (Iw): 1.00										Ice Dead Load Factor: 1.00						
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)	
20	326	3.16	1.271	4.345	0.00	0.168	2.71	0.85	1.00	0.0	3.58	9.70	0.00	647	0	26	4	30	
19	321	3.15	1.271	1.272	0.00	0.304	2.29	0.85	1.00	0.0	1.86	4.25	0.00	231	0	11	1	12	
18	310	3.13	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1673	0	70	9	78	
17	290	3.08	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1764	0	67	37	103	
16	270	3.04	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1861	0	68	78	145	
15	250	2.99	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2085	0	65	144	209	
14	230	2.94	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	2157	0	65	164	230	
13	210	2.88	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2137	0	62	162	224	
12	190	2.82	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3165	0	97	158	255	
11	170	2.76	13.738	9.167	0.00	0.271	2.38	0.85	1.00	0.0	17.09	40.61	0.00	3185	0	95	165	260	
10	150	2.68	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3210	0	92	173	265	
9	130	2.61	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2449	0	59	192	251	
8	110	2.52	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2469	0	58	185	243	
7	90	2.41	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	54	181	236	
6	70	2.29	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	51	172	224	
5	50	2.13	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2477	0	49	160	209	
4	30	1.91	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	43	144	187	
3	14	1.66	1.896	7.021	0.00	0.177	2.68	0.85	1.00	0.0	5.66	15.16	0.00	1454	0	21	75	97	
2	7	1.66	1.264	1.353	0.00	0.311	2.27	0.85	1.00	0.0	1.91	4.32	0.00	312	0	6	11	17	
1	3	1.66	3.625	2.947	0.00	0.491	1.91	0.85	1.00	0.0	5.09	9.72	0.00	1058	0	14	25	39	
** = Section Force Exceeds Solidity Ratio Criteria												Totals	39,704	0	3,314				

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

SECTION FORCES																		
1.2D + 1.0Di + 1.0Wi 240°						Gust Response Factor (Gh):		0.85										
30 mph Wind with 0" Radial Ice						Wind Importance Factor (Iw):		1.00		Ice Dead Load Factor:				1.00				
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	3.16	1.271	4.345	0.00	0.168	2.71	1.00	1.00	0.0	3.77	10.21	0.00	647	0	27	4	31
19	321	3.15	1.271	1.272	0.00	0.304	2.29	1.00	1.00	0.0	2.05	4.68	0.00	231	0	13	1	13
18	310	3.13	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1673	0	74	9	83
17	290	3.08	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1764	0	71	37	107
16	270	3.04	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1861	0	72	78	150
15	250	2.99	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2085	0	69	144	213
14	230	2.94	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	2157	0	70	164	234
13	210	2.88	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	2137	0	66	162	228
12	190	2.82	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3165	0	109	158	267
11	170	2.76	13.738	9.167	0.00	0.271	2.38	1.00	1.00	0.0	19.15	45.51	0.00	3185	0	107	165	271
10	150	2.68	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	3210	0	103	173	277
9	130	2.61	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2449	0	62	192	254
8	110	2.52	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2469	0	62	185	246
7	90	2.41	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	57	181	239
6	70	2.29	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	54	172	227
5	50	2.13	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2477	0	52	160	212
4	30	1.91	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2457	0	45	144	190
3	14	1.66	1.896	7.021	0.00	0.177	2.68	1.00	1.00	0.0	5.95	15.92	0.00	1454	0	22	75	98
2	7	1.66	1.264	1.353	0.00	0.311	2.27	1.00	1.00	0.0	2.09	4.75	0.00	312	0	7	11	18
1	3	1.66	3.625	2.947	0.00	0.491	1.91	1.00	1.00	0.0	5.63	10.76	0.00	1058	0	15	25	40
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0		3,396
1.2D + 1.0Di + 1.0Wi 300°						Gust Response Factor (Gh):		0.85										
30 mph Wind with 0" Radial Ice						Wind Importance Factor (Iw):		1.00		Ice Dead Load Factor:				1.00				
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	3.16	1.271	4.345	0.00	0.168	2.71	0.80	1.00	0.0	3.52	9.53	0.00	647	0	26	4	29
19	321	3.15	1.271	1.272	0.00	0.304	2.29	0.80	1.00	0.0	1.79	4.10	0.00	231	0	11	1	12
18	310	3.13	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1673	0	68	9	77
17	290	3.08	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1764	0	66	37	102
16	270	3.04	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1861	0	66	78	144
15	250	2.99	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2085	0	63	144	208
14	230	2.94	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	2157	0	64	164	228
13	210	2.88	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	2137	0	61	162	223
12	190	2.82	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3165	0	93	158	251
11	170	2.76	13.738	9.167	0.00	0.271	2.38	0.80	1.00	0.0	16.40	38.98	0.00	3185	0	91	165	256
10	150	2.68	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	3210	0	89	173	262
9	130	2.61	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2449	0	57	192	250
8	110	2.52	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2469	0	57	185	242
7	90	2.41	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	53	181	235
6	70	2.29	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	50	172	223
5	50	2.13	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2477	0	48	160	208
4	30	1.91	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2457	0	42	144	186
3	14	1.66	1.896	7.021	0.00	0.177	2.68	0.80	1.00	0.0	5.57	14.90	0.00	1454	0	21	75	96
2	7	1.66	1.264	1.353	0.00	0.311	2.27	0.80	1.00	0.0	1.84	4.18	0.00	312	0	6	11	17
1	3	1.66	3.625	2.947	0.00	0.491	1.91	0.80	1.00	0.0	4.91	9.38	0.00	1058	0	13	25	38
** = Section Force Exceeds Solidity Ratio Criteria														Totals	39,704	0		3,286
1.2D + 1.0Di + 1.0Wi 330°						Gust Response Factor (Gh):		0.85										
30 mph Wind with 0" Radial Ice						Wind Importance Factor (Iw):		1.00		Ice Dead Load Factor:				1.00				
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	3.16	1.271	4.345	0.00	0.168	2.71	0.85	1.00	0.0	3.58	9.70	0.00	647	0	26	4	30
19	321	3.15	1.271	1.272	0.00	0.304	2.29	0.85	1.00	0.0	1.86	4.25	0.00	231	0	11	1	12
18	310	3.13	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1673	0	70	9	78
17	290	3.08	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1764	0	67	37	103
16	270	3.04	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1861	0	68	78	145
15	250	2.99	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2085	0	65	144	209
14	230	2.94	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	2157	0	65	164	230
13	210	2.88	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	2137	0	62	162	224
12	190	2.82	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3165	0	97	158	255
11	170	2.76	13.738	9.167	0.00	0.271	2.38	0.85	1.00	0.0	17.09	40.61	0.00	3185	0	95	165	260
10	150	2.68	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	3210	0	92	173	265
9	130	2.61	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2449	0	59	192	251
8	110	2.52	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2469	0	58	185	243
7	90	2.41	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	54	181	236
6	70	2.29	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2457	0	51	172	224
5	50	2.13	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2477	0	49	160	209
4	30	1.91	3.792	11.695	0.00	0.184	2.65											

SECTION FORCES																		
1.0D + 1.0W Service Normal					Gust Response Factor (Gh): 0.85													
60 mph Wind with No Ice					Wind Importance Factor (Iw): 1.00													
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	12.65	1.271	4.345	0.00	0.168	2.71	1.00	1.00	0.0	3.77	10.21	0.00	539	0	110	10	120
19	321	12.61	1.271	1.272	0.00	0.304	2.29	1.00	1.00	0.0	2.05	4.68	0.00	193	0	50	3	53
18	310	12.51	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1394	0	296	26	322
17	290	12.34	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1470	0	283	106	390
16	270	12.15	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1551	0	288	227	515
15	250	11.96	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1738	0	275	472	747
14	230	11.75	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1797	0	278	536	815
13	210	11.53	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1781	0	265	526	791
12	190	11.29	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	2638	0	435	555	990
11	170	11.03	13.738	9.167	0.00	0.271	2.38	1.00	1.00	0.0	19.15	45.51	0.00	2654	0	427	577	1003
10	150	10.74	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	2675	0	414	603	1017
9	130	10.42	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2041	0	248	614	862
8	110	10.06	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2058	0	246	593	839
7	90	9.64	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2047	0	229	579	808
6	70	9.15	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2048	0	217	549	767
5	50	8.52	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2064	0	209	512	720
4	30	7.65	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2048	0	182	460	641
3	14	6.62	1.896	7.021	0.00	0.177	2.68	1.00	1.00	0.0	5.95	15.92	0.00	1211	0	90	239	328
2	7	6.62	1.264	1.353	0.00	0.311	2.27	1.00	1.00	0.0	2.09	4.75	0.00	260	0	27	40	67
1	3	6.62	3.625	2.947	0.00	0.491	1.91	1.00	1.00	0.0	5.63	10.76	0.00	881	0	61	101	158
** = Section Force Exceeds Solidity Ratio Criteria														Totals	33,087	0		11,952

1.0D + 1.0W Service 60°					Gust Response Factor (Gh): 0.85													
60 mph Wind with No Ice					Wind Importance Factor (Iw): 1.00													
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	12.65	1.271	4.345	0.00	0.168	2.71	0.80	1.00	0.0	3.52	9.53	0.00	539	0	102	10	113
19	321	12.61	1.271	1.272	0.00	0.304	2.29	0.80	1.00	0.0	1.79	4.10	0.00	193	0	44	3	47
18	310	12.51	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1394	0	273	26	298
17	290	12.34	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1470	0	262	106	368
16	270	12.15	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1551	0	265	227	492
15	250	11.96	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1738	0	254	472	726
14	230	11.75	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1797	0	256	536	793
13	210	11.53	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1781	0	245	526	771
12	190	11.29	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	2638	0	373	555	927
11	170	11.03	13.738	9.167	0.00	0.271	2.38	0.80	1.00	0.0	16.40	38.98	0.00	2654	0	365	577	942
10	150	10.74	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	2675	0	355	603	958
9	130	10.42	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2041	0	230	614	844
8	110	10.06	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2058	0	228	593	820
7	90	9.64	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2047	0	213	579	791
6	70	9.15	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2048	0	202	549	751
5	50	8.52	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2064	0	193	512	704
4	30	7.65	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2048	0	169	460	628
3	14	6.62	1.896	7.021	0.00	0.177	2.68	0.80	1.00	0.0	5.57	14.90	0.00	1211	0	84	239	322
2	7	6.62	1.264	1.353	0.00	0.311	2.27	0.80	1.00	0.0	1.84	4.18	0.00	260	0	24	40	63
1	3	6.62	3.625	2.947	0.00	0.491	1.91	0.80	1.00	0.0	4.91	9.38	0.00	881	0	53	101	154
** = Section Force Exceeds Solidity Ratio Criteria														Totals	33,087	0		11,514

1.0D + 1.0W Service 90°					Gust Response Factor (Gh): 0.85													
60 mph Wind with No Ice					Wind Importance Factor (Iw): 1.00													
Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	12.65	1.271	4.345	0.00	0.168	2.71	0.85	1.00	0.0	3.58	9.70	0.00	539	0	104	10	115
19	321	12.61	1.271	1.272	0.00	0.304	2.29	0.85	1.00	0.0	1.86	4.25	0.00	193	0	46	3	48
18	310	12.51	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1394	0	279	26	304
17	290	12.34	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1470	0	267	106	374
16	270	12.15	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1551	0	271	227	498
15	250	11.96	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1738	0	259	472	731
14	230	11.75	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1797	0	262	536	798
13	210	11.53	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1781	0	250	526	776
12	190	11.29	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	2638	0	388	555	943
11	170	11.03	13.738	9.167	0.00	0.271	2.38	0.85	1.00	0.0	17.09	40.61	0.00	2654	0	381	577	957
10	150	10.74	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	2675	0	369	603	972
9	130	10.42	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2041	0	234	614	849
8	110	10.06	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2058	0	232	593	825
7	90	9.64	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2047	0	217	579	796
6	70	9.15	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2048	0	206	549	755
5	50	8.52	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2064	0	197	512	708
4	30	7.65	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2048	0	172	460	632
3	14	6.62	1.896	7.021	0.00	0.177	2.68	0.85	1.00	0.0	5.66	15.16	0.00	1211	0	85	239	324
2	7	6.62	1.264	1.353	0.00	0.311	2.27	0.85	1.00	0.0	1.91	4.32	0.00	260	0	24	40	64
1	3	6.62	3.625	2.947	0.00	0.491	1.91	0.85	1.00	0.0	5.09	9.72	0.00	881	0	55	101	156
** = Section Force Exceeds Solidity Ratio Criteria														Totals	33,087	0	11,625	

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

SECTION FORCES

1.0D + 1.0W Service 120°
60 mph Wind with No Ice
Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	12.65	1.271	4.345	0.00	0.168	2.71	1.00	1.00	0.0	3.77	10.21	0.00	539	0	110	10	120
19	321	12.61	1.271	1.272	0.00	0.304	2.29	1.00	1.00	0.0	2.05	4.68	0.00	193	0	50	3	53
18	310	12.51	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1394	0	296	26	322
17	290	12.34	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1470	0	283	106	390
16	270	12.15	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1551	0	288	227	515
15	250	11.96	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1738	0	275	472	747
14	230	11.75	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1797	0	278	536	815
13	210	11.53	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1781	0	265	526	791
12	190	11.29	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	2638	0	435	555	990
11	170	11.03	13.738	9.167	0.00	0.271	2.38	1.00	1.00	0.0	19.15	45.51	0.00	2654	0	427	577	1003
10	150	10.74	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	2675	0	414	603	1017
9	130	10.42	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2041	0	248	614	862
8	110	10.06	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2058	0	246	593	839
7	90	9.64	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2047	0	229	579	808
6	70	9.15	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2048	0	217	549	767
5	50	8.52	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2064	0	209	512	720
4	30	7.65	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2048	0	182	460	641
3	14	6.62	1.896	7.021	0.00	0.177	2.68	1.00	1.00	0.0	5.95	15.92	0.00	1211	0	90	239	328
2	7	6.62	1.264	1.353	0.00	0.311	2.27	1.00	1.00	0.0	2.09	4.75	0.00	260	0	27	40	67
1	3	6.62	3.625	2.947	0.00	0.491	1.91	1.00	1.00	0.0	5.63	10.76	0.00	881	0	61	101	158
Totals															33,087	0		11,952

** = Section Force Exceeds Solidity Ratio Criteria

1.0D + 1.0W Service 180°
60 mph Wind with No Ice
Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	12.65	1.271	4.345	0.00	0.168	2.71	0.80	1.00	0.0	3.52	9.53	0.00	539	0	102	10	113
19	321	12.61	1.271	1.272	0.00	0.304	2.29	0.80	1.00	0.0	1.79	4.10	0.00	193	0	44	3	47
18	310	12.51	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1394	0	273	26	298
17	290	12.34	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1470	0	262	106	368
16	270	12.15	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1551	0	265	227	492
15	250	11.96	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1738	0	254	472	726
14	230	11.75	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1797	0	256	536	793
13	210	11.53	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1781	0	245	526	771
12	190	11.29	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	2638	0	373	555	927
11	170	11.03	13.738	9.167	0.00	0.271	2.38	0.80	1.00	0.0	16.40	38.98	0.00	2654	0	365	577	942
10	150	10.74	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	2675	0	355	603	958
9	130	10.42	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2041	0	230	614	844
8	110	10.06	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2058	0	228	593	820
7	90	9.64	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2047	0	213	579	791
6	70	9.15	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2048	0	202	549	751
5	50	8.52	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2064	0	193	512	704
4	30	7.65	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2048	0	169	460	628
3	14	6.62	1.896	7.021	0.00	0.177	2.68	0.80	1.00	0.0	5.57	14.90	0.00	1211	0	84	239	322
2	7	6.62	1.264	1.353	0.00	0.311	2.27	0.80	1.00	0.0	1.84	4.18	0.00	260	0	24	40	63
1	3	6.62	3.625	2.947	0.00	0.491	1.91	0.80	1.00	0.0	4.91	9.38	0.00	881	0	53	101	154
Totals															33,087	0		11,514

** = Section Force Exceeds Solidity Ratio Criteria

1.0D + 1.0W Service 210°
60 mph Wind with No Ice
Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	12.65	1.271	4.345	0.00	0.168	2.71	0.85	1.00	0.0	3.58	9.70	0.00	539	0	104	10	115
19	321	12.61	1.271	1.272	0.00	0.304	2.29	0.85	1.00	0.0	1.86	4.25	0.00	193	0	46	3	48
18	310	12.51	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1394	0	279	26	304
17	290	12.34	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1470	0	267	106	374
16	270	12.15	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1551	0	271	227	498
15	250	11.96	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1738	0	259	472	731
14	230	11.75	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1797	0	262	536	798
13	210	11.53	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1781	0	250	526	776
12	190	11.29	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	2638	0	388	555	943
11	170	11.03	13.738	9.167	0.00	0.271	2.38	0.85	1.00	0.0	17.09	40.61	0.00	2654	0	381	577	957
10	150	10.74	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	2675	0	369	603	972
9	130	10.42	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2041	0	234	614	849
8	110	10.06	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2058	0	232	593	825
7	90	9.64	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2047	0	217	579	796
6	70	9.15	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2048	0	206	549	755
5	50	8.52	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2064	0	197	512	708
4	30	7.65	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2048	0	172	460	632
3	14	6.62	1.896	7.021	0.00	0.177	2.68	0.85	1.00	0.0	5.66	15.16	0.00	1211	0	85	239	324
2	7	6.62	1.264	1.353	0.00	0.311	2.27	0.85	1.00	0.0	1.91	4.32	0.00	260	0	24	40	64
1	3	6.62	3.625	2.947	0.00	0.491	1.91	0.85	1.00	0.0	5.09	9.72	0.00	881	0	55	101	156
Totals															33,087	0		11,625

** = Section Force Exceeds Solidity Ratio Criteria

ASSET: 2543, Five Points

CODE: ANSI/TIA-222-H

CUSTOMER: T-MOBILE

PROJECT: 14910189_C3_03

SECTION FORCES

1.0D + 1.0W Service 240°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	12.65	1.271	4.345	0.00	0.168	2.71	1.00	1.00	0.0	3.77	10.21	0.00	539	0	110	10	120
19	321	12.61	1.271	1.272	0.00	0.304	2.29	1.00	1.00	0.0	2.05	4.68	0.00	193	0	50	3	53
18	310	12.51	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1394	0	296	26	322
17	290	12.34	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1470	0	283	106	390
16	270	12.15	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1551	0	288	227	515
15	250	11.96	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1738	0	275	472	747
14	230	11.75	4.177	10.874	0.00	0.180	2.67	1.00	1.00	0.0	10.46	27.87	0.00	1797	0	278	536	815
13	210	11.53	3.812	10.874	0.00	0.175	2.68	1.00	1.00	0.0	10.08	27.03	0.00	1781	0	265	526	791
12	190	11.29	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	2638	0	435	555	990
11	170	11.03	13.738	9.167	0.00	0.271	2.38	1.00	1.00	0.0	19.15	45.51	0.00	2654	0	427	577	1003
10	150	10.74	13.643	9.167	0.00	0.270	2.38	1.00	1.00	0.0	19.05	45.34	0.00	2675	0	414	603	1017
9	130	10.42	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2041	0	248	614	862
8	110	10.06	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2058	0	246	593	839
7	90	9.64	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2047	0	229	579	808
6	70	9.15	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2048	0	217	549	767
5	50	8.52	4.160	11.695	0.00	0.188	2.64	1.00	1.00	0.0	10.93	28.80	0.00	2064	0	209	512	720
4	30	7.65	3.792	11.695	0.00	0.184	2.65	1.00	1.00	0.0	10.55	27.97	0.00	2048	0	182	460	641
3	14	6.62	1.896	7.021	0.00	0.177	2.68	1.00	1.00	0.0	5.95	15.92	0.00	1211	0	90	239	328
2	7	6.62	1.264	1.353	0.00	0.311	2.27	1.00	1.00	0.0	2.09	4.75	0.00	260	0	27	40	67
1	3	6.62	3.625	2.947	0.00	0.491	1.91	1.00	1.00	0.0	5.63	10.76	0.00	881	0	61	101	158
Totals															33,087	0		11,952

** = Section Force Exceeds Solidity Ratio Criteria

1.0D + 1.0W Service 300°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	12.65	1.271	4.345	0.00	0.168	2.71	0.80	1.00	0.0	3.52	9.53	0.00	539	0	102	10	113
19	321	12.61	1.271	1.272	0.00	0.304	2.29	0.80	1.00	0.0	1.79	4.10	0.00	193	0	44	3	47
18	310	12.51	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1394	0	273	26	298
17	290	12.34	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1470	0	262	106	368
16	270	12.15	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1551	0	265	227	492
15	250	11.96	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1738	0	254	472	726
14	230	11.75	4.177	10.874	0.00	0.180	2.67	0.80	1.00	0.0	9.62	25.64	0.00	1797	0	256	536	793
13	210	11.53	3.812	10.874	0.00	0.175	2.68	0.80	1.00	0.0	9.32	24.99	0.00	1781	0	245	526	771
12	190	11.29	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	2638	0	373	555	927
11	170	11.03	13.738	9.167	0.00	0.271	2.38	0.80	1.00	0.0	16.40	38.98	0.00	2654	0	365	577	942
10	150	10.74	13.643	9.167	0.00	0.270	2.38	0.80	1.00	0.0	16.32	38.85	0.00	2675	0	355	603	958
9	130	10.42	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2041	0	230	614	844
8	110	10.06	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2058	0	228	593	820
7	90	9.64	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2047	0	213	579	791
6	70	9.15	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2048	0	202	549	751
5	50	8.52	4.160	11.695	0.00	0.188	2.64	0.80	1.00	0.0	10.10	26.61	0.00	2064	0	193	512	704
4	30	7.65	3.792	11.695	0.00	0.184	2.65	0.80	1.00	0.0	9.80	25.96	0.00	2048	0	169	460	628
3	14	6.62	1.896	7.021	0.00	0.177	2.68	0.80	1.00	0.0	5.57	14.90	0.00	1211	0	84	239	322
2	7	6.62	1.264	1.353	0.00	0.311	2.27	0.80	1.00	0.0	1.84	4.18	0.00	260	0	24	40	63
1	3	6.62	3.625	2.947	0.00	0.491	1.91	0.80	1.00	0.0	4.91	9.38	0.00	881	0	53	101	154
Totals															33,087	0		11,514

** = Section Force Exceeds Solidity Ratio Criteria

1.0D + 1.0W Service 330°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
20	326	12.65	1.271	4.345	0.00	0.168	2.71	0.85	1.00	0.0	3.58	9.70	0.00	539	0	104	10	115
19	321	12.61	1.271	1.272	0.00	0.304	2.29	0.85	1.00	0.0	1.86	4.25	0.00	193	0	46	3	48
18	310	12.51	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1394	0	279	26	304
17	290	12.34	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1470	0	267	106	374
16	270	12.15	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1551	0	271	227	498
15	250	11.96	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1738	0	259	472	731
14	230	11.75	4.177	10.874	0.00	0.180	2.67	0.85	1.00	0.0	9.83	26.20	0.00	1797	0	262	536	798
13	210	11.53	3.812	10.874	0.00	0.175	2.68	0.85	1.00	0.0	9.51	25.50	0.00	1781	0	250	526	776
12	190	11.29	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	2638	0	388	555	943
11	170	11.03	13.738	9.167	0.00	0.271	2.38	0.85	1.00	0.0	17.09	40.61	0.00	2654	0	381	577	957
10	150	10.74	13.643	9.167	0.00	0.270	2.38	0.85	1.00	0.0	17.01	40.47	0.00	2675	0	369	603	972
9	130	10.42	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2041	0	234	614	849
8	110	10.06	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2058	0	232	593	825
7	90	9.64	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2047	0	217	579	796
6	70	9.15	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2048	0	206	549	755
5	50	8.52	4.160	11.695	0.00	0.188	2.64	0.85	1.00	0.0	10.31	27.16	0.00	2064	0	197	512	708
4	30	7.65	3.792	11.695	0.00	0.184	2.65	0.85	1.00	0.0	9.99	26.46	0.00	2048	0	172	460	632
3	14	6.62	1.896	7.021	0.00	0.177	2.68	0.85	1.00	0.0	5.66	15.16	0.00	1211	0	85	239	324
2	7	6.62	1.264	1.353	0.00	0.311	2.27	0.85	1.00	0.0	1.91	4.32	0.00	260	0	24	40	64
1	3	6.62	3.625	2.947	0.00	0.491	1.91	0.85	1.00	0.0	5.09	9.72	0.00	881	0	55	101	156
Totals															33,087	0		11,625

** = Section Force Exceeds Solidity Ratio Criteria

EQUIVALENT LATERAL FORCE METHOD	
Spectral Response Acceleration for Short Period (S _s):	0.09
Spectral Response Acceleration at 1.0 Second Period (S ₁):	0.05
Long-Period Transition Period (T _L - Seconds):	8
Importance Factor (I _e):	1.00
Site Coefficient F _a :	1.60
Site Coefficient F _v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S _{ds}):	0.09
Design Spectral Response Acceleration at 1.0 Second Period (S _{d1}):	0.08
Seismic Response Coefficient (C _s):	0.03
Upper Limit C _s :	0.04
Lower Limit C _s :	0.03
Period based on Rayleigh Method (sec):	0.76
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.13
Total Unfactored Dead Load:	43.58 k
Seismic Base Shear (E):	1.75 k

SEISMIC FORCES						
1.2D + 1.0Ev + 1.0Eh						
Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W ₂ (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
20	326.00	539	375,920	0.024	42	657
19	321.00	193	132,231	0.008	15	235
18	310.00	1,394	918,586	0.058	102	1,699
17	290.00	1,470	898,279	0.057	100	1,791
16	270.00	1,551	874,222	0.056	97	1,890
15	250.00	1,738	897,582	0.057	100	2,117
14	230.00	1,797	844,842	0.054	94	2,190
13	210.00	1,781	755,135	0.048	84	2,170
12	190.00	2,638	998,801	0.064	111	3,214
11	170.00	2,654	886,313	0.056	99	3,234
10	150.00	2,675	775,184	0.049	86	3,259
9	130.00	2,041	503,089	0.032	56	2,487
8	110.00	2,058	419,848	0.027	47	2,507
7	90.00	2,047	332,877	0.021	37	2,495
6	70.00	2,048	250,532	0.016	28	2,495
5	50.00	2,064	172,604	0.011	19	2,515
4	30.00	2,048	96,055	0.006	11	2,495
3	14.00	1,211	23,990	0.002	3	1,476
2	7.00	260	2,350	0.000	0	317
1	3.00	881	3,055	0.000	0	1,074
Generic Flat Side Arm	304.00	188	120,847	0.008	13	228
Ericsson Radio 4460 B25+B66	300.30	327	207,857	0.013	23	398
Generic Flat Side Arm	300.00	188	119,049	0.008	13	228
Ericsson Radio 4480 B71+B85	295.00	279	173,809	0.011	19	340
Ericsson AIR 6419 B41	295.00	206	128,020	0.008	14	250
Generic Round Sector Frame	295.00	2,100	1,308,238	0.083	146	2,559
Commscope FFVV-65C-R3-V1	295.00	374	232,866	0.015	26	455
Combilent CP00732	290.00	8	4,888	0.000	1	10
Generic Flat Stand-Off	290.00	188	114,569	0.007	13	228
Sinclair SE414-SWBPALDF(DXX)	290.00	20	11,915	0.001	1	24
RFS PAD6-65AC	283.00	185	109,960	0.007	12	225
Generic 8' Dish w/ Radome	282.40	304	180,257	0.012	20	370
Sinclair SE414-SWBPALDF(DXX)	276.00	39	22,533	0.001	3	48
Generic Flat Side Arm	275.00	188	107,888	0.007	12	228
Ericsson 8843 Rev 2	258.00	225	120,447	0.008	13	274
Ericsson Radio 4449 - B13&B5	258.00	210	112,418	0.007	13	256
Commscope TD-850B-LTE78-43	258.00	159	85,116	0.005	9	194
Ericsson AIR 6449 B77	258.00	245	131,047	0.008	15	298
Raycap RCMDC-6627-PF-48	258.00	64	34,261	0.002	4	78
JMA Wireless MX06FIT865-02	258.00	200	107,064	0.007	12	244
JMA Wireless MX06FRO860-02	258.00	102	54,603	0.004	6	124
Generic Flat Light Sector Frame	258.00	2,400	1,284,772	0.082	143	2,925

ASSET:	2543, Five Points			CODE:	ANSI/TIA-222-H	
CUSTOMER:	T-MOBILE			PROJECT:	14910189_C3_03	
Generic 6' Dish w/ Radome	242.90	250	125,003	0.008	14	305
RFS PAD6-65AC	240.00	185	91,253	0.006	10	225
Andrew Microwaves PAR6-59 w/ Radome	198.00	164	65,072	0.004	7	200
Generic 6' Dish w/ Radome	187.00	250	92,983	0.006	10	305
RFS PAD6-65AC	186.00	185	68,391	0.004	8	225
Generic Torque Arm	168.00	500	164,735	0.010	18	609
Generic 6' Dish w/ Radome	154.80	250	75,084	0.005	8	305
RFS PAD6-65AC	154.00	185	55,237	0.004	6	225
Andrew VHLPX4-6W	146.30	101	28,456	0.002	3	123
Generic 12' Omni	98.90	40	7,236	0.000	1	49
Generic Round Side Arm	92.00	188	31,255	0.002	3	228
Totals	43,580	15,738,624	1.000	1,752	53,105	

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

FORCE/STRESS SUMMARY

Section 1 – 0.0' to 6.00'

	Pu (kip)	Load Case	Len (ft)	Bracing %			F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls	
Member Compression				X	Y	Z	KL/R								
L SOL - 2 3/4" SOLID	-81.98	1.2D + 1.0W 120°	3.215	100	100	100	56.11	50.00	212.32	0.00	0.00	0	0	39	Member X
D PL - PL 4 x 0.75"	-5.02	1.2D + 1.0W 120°	4.282	50	50	50	106.80	50.00	75.28	0.00	0.00	0	0	7	Member Y
								Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls	
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)										
H SAE - 2X2X0.1875	12.27	1.2D + 1.0W N	36.0	58	23.17	0.00	0.00	0.00	0	0	53	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 2 – 6.0' to 8.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	Φ _{R_{nv}} (kip)				Φ _{R_n} (kip)					
L SOL - 2 1/2" SOLID	-76.91	1.2D + 1.0W 120°	1.75	100	100	100	33.60	50.00	203.44	0.00	0.00	0	0	38	Member X
D SOL - 3/4" SOLID	-0.01	1.2D + 1.0W 60°	4.366	50	50	50	125.74	36.00	6.23	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
	Φ _t P _n (kip)														
H SAE - 2X2X0.1875	6.50	1.2D + 1.0W 120°	36.0	58	23.17	0.00	0.00	0.00	0	0	28	Member			
D SOL - 3/4" SOLID	1.42	1.2D + 1.0W 90°	36.0	58	14.31	0.00	0.00	0.00	0	0	10	Member			
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									

Section 3 – 8.0' to 20.00'

	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
Member Compression				X	Y	Z									
L SOL - 2 1/2" SOLID	-76.45	1.2D + 1.0W 90°	3.917	100	100	100	75.20	50.00	146.12	0.00	0.00	0	0	52	Member X
D SOL - 3/4" SOLID	-3.16	1.2D + 1.0W N	5.598	50	50	50	161.23	36.00	3.84	0.00	0.00	0	0	0	Member X
	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)		Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %			
Member Tension															
H SAE - 2X2X0.1875	3.51	1.2D + 1.0W N	36.0	58	23.17		0.00	0.00	0.00	0	0	15			Member
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts		Bolt Type								

Section 4 – 20.0' to 40.00'

	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
Member Compression				X	Y	Z									
L SOL - 2 1/2" SOLID	-76.92	1.2D + 1.0W 90°	3.9	100	100	100	74.88	50.00	146.64	0.00	0.00	0	0	52	Member X
D SOL - 3/4" SOLID	-2.27	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)		Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %			
Member Tension															
H SAE - 2X2X0.1875	3.44	1.2D + 1.0W N	36.0	58	23.17		0.00	0.00	0.00	0	0	15			Member
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts		Bolt Type								

Section 5 – 40.0' to 60.00'

	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
				X	Y	Z				Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)				
Member Compression															
L SOL - 2 1/2" SOLID	-79.93	1.2D + 1.0W 240°	3.9	100	100	100	74.88	50.00	146.64	0.00	0.00	0	0	55	Member X
H SAE - 2X2X0.1875	-1.42	1.2D + 1.0W 210°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	7	Member Z

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Section 5 – 40.0' to 60.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			KL/R	F _y	Φ _c P _n	Shear	Bear	# Bolt	# Hole	Use %	Controls
	(kip)			X	Y	Z		(ksi)	(kip)	Φ _{nv} (kip)	Φ _{Rn} (kip)				
D SOL - 3/4" SOLID	-1.12	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension	Pu	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{nv} (kip)	Bear Φ _{Rn} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
	(kip)														
H SAE - 2X2X0.1875	3.20	1.2D + 1.0W N	36.0	58	23.17	0.00	0.00	0.00	0	0	14	Member			
D SOL - 3/4" SOLID	4.22	1.2D + 1.0W 210°	36.0	58	14.31	0.00	0.00	0.00	0	0	29	Member			
Max Splice Forces	Pu (kip)	Load Case	Φ _{Rnt} (kip)	Use %	Num Bolts	Bolt Type									

Section 6 – 60.0' to 80.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	Φ _{R_{nv}}			Φ _{R_n}												
	L SOL - 2 1/2" SOLID	-71.34	1.2D + 1.0W 210°	3.9	100	100	100	74.88	50.00	146.64	0.00	0.00	0	0	49	Member X
	H SAE - 2X2X0.1875	-1.22	1.2D + 1.0W 210°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	6	Member Z
	D SOL - 3/4" SOLID	-3.64	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear	Bear	Blk Shear	# Bolt	# Hole	Use %	Controls				
	Φ _{R_{nv}}					Φ _{R_n}	Φ _t P _n (kip)									
	H SAE - 2X2X0.1875	3.14	1.2D + 1.0W N	36.0	58	23.17	0.00	0.00	0.00	0	0	14	Member			
D SOL - 3/4" SOLID	3.18	1.2D + 1.0W 210°	36.0	58	14.31	0.00	0.00	0.00	0	0	22	Member				
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type										

Section 7 – 80.0' to 100.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z	74.88		50.00	146.64	0.00	0.00	0	0	47	
L SOL - 2 1/2" SOLID	-69.61	1.2D + 1.0W 210°	3.9	100	100	100	74.88	50.00	146.64	0.00	0.00	0	0	47	Member X
D SOL - 3/4" SOLID	-2.08	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
	0.00					0.00	0.00	0	0	14					
H SAE - 2X2X0.1875	3.17	1.2D + 1.0W N	36.0	58	23.17	0.00	0.00	0.00	0	0	14	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 8 – 100.0' to 120.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	Φ _{R_{nv}} (kip)			Φ _{R_n} (kip)											
L SOL - 2 1/2" SOLID	-81.74	1.2D + 1.0W 240°	3.9	100	100	100	74.88	50.00	146.64	0.00	0.00	0	0	56	Member X
H SAE - 2X2X0.1875	-3.52	1.2D + 1.0W 210°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	17	Member Z
D SOL - 3/4" SOLID	-2.13	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
H SAE - 2X2X0.1875	3.02	1.2D + 1.0W N	36.0	58	23.17	0.00	0.00	0.00	0	0	13	Member			
D SOL - 3/4" SOLID	5.14	1.2D + 1.0W 210°	36.0	58	14.31	0.00	0.00	0.00	0	0	36	Member			
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									

Section 9 – 120.0' to 140.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	(kip)			X	Y	Z				Φ _{nv} (kip)	Φ _{Rn} (kip)				

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Section 9 – 120.0' to 140.00'

Member Compression															
	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls	
L SOL - 2 1/2" SOLID	-65.56	1.2D + 1.0W 330°	3.9	100	100	100	74.88	50.00	146.64	0.00	0.00	0	0	45	Member X
H SAE - 2X2X0.1875	-1.34	1.2D + 1.0W 210°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	7	Member Z
D SOL - 3/4" SOLID	-3.51	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension															
	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
H SAE - 2X2X0.1875	2.82	1.2D + 1.0W N	36.0	58	23.17	0.00	0.00	0.00	0	0	12	Member			
D SOL - 3/4" SOLID	3.62	1.2D + 1.0W 210°	36.0	58	14.31	0.00	0.00	0.00	0	0	25	Member			
Max Splice Forces															
	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

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Section 10 – 140.0' to 160.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦR _{nv} (kip)				ΦR _n (kip)					
L SOL - 2 3/4" SOLID	-69.11	1.2D + 1.0W N	3.9	100	100	100	68.07	50.00	190.47	0.00	0.00	0	0	36	Member X
H SAE - 2.5X2.5X0.25	-2.71	1.2D + 1.0W 60°	4	100	100	100	63.54	36.00	37.40	0.00	0.00	0	0	7	Member Z
D PL - PL 2 x 0.5"	-3.06	1.2D + 1.0W N	5.587	50	50	50	209.06	36.00	6.55	0.00	0.00	0	0	0	Member Y
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
H SAE - 2.5X2.5X0.25	5.35	1.2D + 1.0W 90°	36.0	58	38.56	0.00	0.00	0.00	0	0	14	Member			
D PL - PL 2 x 0.5"	6.99	1.2D + 1.0W 240°	36.0	58	32.40	0.00	0.00	0.00	0	0	22	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 11 – 160.0' to 180.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L SOL - 2 3/4" SOLID	-87.35	1.2D + 1.0W 240°	3.9	100	100	100	68.07	50.00	190.47	0.00	0.00	0	0	46	Member X
H SAE - 2.5X2.5X0.25	-7.68	1.2D + 1.0W 120°	4	100	100	100	63.54	36.00	37.40	0.00	0.00	0	0	21	Member Z
D PL - PL 2 x 0.5"	-3.34	1.2D + 1.0W N	5.587	50	50	50	209.06	36.00	6.55	0.00	0.00	0	0	0	Member Y
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
H SAE - 2.5X2.5X0.25	4.11	1.2D + 1.0W 330°	36.0	58	38.56	0.00	0.00	0.00	0	0	11	Member			
D PL - PL 2 x 0.5"	10.82	1.2D + 1.0W 120°	36.0	58	32.40	0.00	0.00	0.00	0	0	33	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 12 – 180.0' to 200.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L SOL - 2 3/4" SOLID	-53.05	1.2D + 1.0W 120°	3.9	100	100	100	68.07	50.00	190.47	0.00	0.00	0	0	28	Member X
H SAE - 2.5X2.5X0.25	-3.38	1.2D + 1.0W 300°	4	100	100	100	63.54	36.00	37.40	0.00	0.00	0	0	9	Member Z
D PL - PL 2 x 0.5"	-5.46	1.2D + 1.0W N	5.587	50	50	50	209.06	36.00	6.55	0.00	0.00	0	0	0	Member Y
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
H SAE - 2.5X2.5X0.25	3.96	1.2D + 1.0W 120°	36.0	58	38.56	0.00	0.00	0.00	0	0	10	Member			
D PL - PL 2 x 0.5"	9.31	1.2D + 1.0W 120°	36.0	58	32.40	0.00	0.00	0.00	0	0	29	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 13 – 200.0' to 220.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L SOL - 2 1/4" SOLID	-48.03	1.2D + 1.0W 120°	3.9	100	100	100	83.20	50.00	107.86	0.00	0.00	0	0	45	Member X
H SAE - 2X2X0.1875	-3.63	1.2D + 1.0W 90°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	18	Member Z
D SOL - 3/4" SOLID	-1.18	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
H SAE - 2X2X0.1875	2.68	1.2D + 1.0W N	36.0	58	23.17	0.00	0.00	0.00	0	0	12	Member			
D SOL - 3/4" SOLID	5.59	1.2D + 1.0W 90°	36.0	58	14.31	0.00	0.00	0.00	0	0	39	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

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Section 14 – 220.0' to 240.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦR _{nv} (kip)				ΦR _n (kip)					
L SOL - 2 1/4" SOLID	-52.28	1.2D + 1.0W N	3.9	100	100	100	83.20	50.00	107.86	0.00	0.00	0	0	48	Member X
H SAE - 2X2X0.1875	-7.12	1.2D + 1.0W 120°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	34	Member Z
D SOL - 3/4" SOLID	-0.10	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φ _t P _n (kip)														
H SAE - 2X2X0.1875	2.14	1.2D + 1.0W 120°	36.0	58	23.17	0.00	0.00	0.00		0	0	9	Member		
D SOL - 3/4" SOLID	10.04	1.2D + 1.0W 120°	36.0	58	14.31	0.00	0.00	0.00		0	0	70	Member		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 15 – 240.0' to 260.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦR _{nv} (kip)				ΦR _n (kip)					
L SOL - 2 1/4" SOLID	-53.27	1.2D + 1.0W 90°	3.9	100	100	100	83.20	50.00	107.86	0.00	0.00	0	0	49	Member X
H SAE - 2X2X0.1875	-0.29	1.2D + 1.0W 210°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	1	Member Z
D SOL - 3/4" SOLID	-3.01	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
	Φ _t P _n (kip)														
L SOL - 2 1/4" SOLID	6.43	1.2D + 1.0W 240°	50.0	65	178.92	0.00	0.00		0	0	4	Member			
H SAE - 2X2X0.1875	2.63	1.2D + 1.0W N	36.0	58	23.17	0.00	0.00	0.00	0	0	11	Member			
D SOL - 3/4" SOLID	1.40	1.2D + 1.0W 330°	36.0	58	14.31	0.00	0.00	0.00	0	0	10	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 16 – 260.0' to 280.00'

	Pu (kip)	Load Case	Len (ft)	Bracing %			F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls	
Member Compression				X	Y	Z	KL/R								
L SOL - 2 1/4" SOLID	-50.54	1.2D + 1.0W 90°	3.9	100	100	100	83.20	50.00	107.86	0.00	0.00	0	0	47	Member X
H SAE - 2X2X0.1875	-5.38	1.2D + 1.0W 210°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	26	Member Z
D SOL - 3/4" SOLID	-1.77	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
Member Tension															
L SOL - 2 1/4" SOLID	12.75	1.2D + 1.0W 120°	50.0	65	178.92	0.00	0.00		0	0	7	Member			
H SAE - 2X2X0.1875	2.40	1.2D + 1.0W 240°	36.0	58	23.17	0.00	0.00	0.00	0	0	10	Member			
D SOL - 3/4" SOLID	7.71	1.2D + 1.0W 300°	36.0	58	14.31	0.00	0.00	0.00	0	0	54	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	6.43	1.2D + 1.0W 240°	90.30	7	3	0.75" A325									

Section 17 – 280.0' to 300.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	ΦR _{nv} (kip)			ΦR _n (kip)						
L SOL - 2 1/4" SOLID	-42.69	1.2D + 1.0W 300°	3.9	100	100	100	83.20	50.00	107.86	0.00	0.00	0	0	40	Member X
H SAE - 2X2X0.1875	-2.88	1.2D + 1.0W 210°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	14	Member Z
D SOL - 3/4" SOLID	-2.56	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
	Φ _t P _n (kip)														
L SOL - 2 1/4" SOLID	22.52	1.2D + 1.0W N	50.0	65	178.92	0.00	0.00		0	0	13	Member			
H SAE - 2X2X0.1875	2.78	1.2D + 1.0W 90°	36.0	58	23.17	0.00	0.00	0.00	0	0	12	Member			

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D SOL - 3/4" SOLID	6.70	1.2D + 1.0W 60°	36.0	58	14.31	0.00	0.00	0.00	0	0	47	Member
Max Splice Forces	P _u (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type						
Bot Tension	12.75	1.2D + 1.0W 120°	90.30	14	3	0.75" A325						

Section 18 – 300.0' to 320.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	ΦRnv (kip)			ΦRn (kip)						
L SOL - 2 1/4" SOLID	-36.62	1.2D + 1.0W 300°	3.9	100	100	100	83.20	50.00	107.86	0.00	0.00	0	0	34	Member X
H SAE - 2X2X0.1875	-0.45	1.2D + 1.0W 60°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	2	Member Z
D SOL - 3/4" SOLID	-0.99	1.2D + 1.0W N	5.587	50	50	50	160.89	36.00	3.86	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear Φt Pn (kip)	# Bolt	# Hole	Use %	Controls			
L SOL - 2 1/4" SOLID	20.40	1.2D + 1.0W N	50.0	65	178.92	0.00	0.00		0	0	11	Member			
H SAE - 2X2X0.1875	1.39	1.2D + 1.0W N	36.0	58	23.17	0.00	0.00	0.00	0	0	6	Member			
D SOL - 3/4" SOLID	2.18	1.2D + 1.0W 330°	36.0	58	14.31	0.00	0.00	0.00	0	0	15	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	20.24	1.2D + 1.0W N	90.30	22	3	0.75" A325									

Section 19 – 320.0' to 322.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	ΦRnv (kip)			ΦRn (kip)						
L SOL - 2 1/4" SOLID	-1.51	1.2D + 1.0W 120°	0.25	100	100	100	5.33	50.00	178.55	0.00	0.00	0	0	1	Member X
H SAE - 2X2X0.1875	-0.16	1.2D + 1.0W 120°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	1	Member Z
D SOL - 3/4" SOLID	-0.17	1.2D + 1.0W N	4.366	50	50	50	125.74	36.00	6.23	0.00	0.00	0	0	0	Member X

Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear Φt Pn (kip)	#	#	Use	Controls
	Bolt		Hole	%								
L SOL - 2 1/4" SOLID	0.85	1.2D + 1.0W 60°	50.0	65	178.92	0.00	0.00		0	0	0	Member
H SAE - 2X2X0.1875	0.50	1.2D + 1.0W 120°	36.0	58	23.17	0.00	0.00	0.00	0	0	2	Member
D SOL - 3/4" SOLID	0.27	1.2D + 1.0W 90°	36.0	58	14.31	0.00	0.00	0.00	0	0	2	Member

Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	0.77	1.2D + 1.0W 60°	90.30	1	3	0.75" A325

Section 20 – 322.0' to 330.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	ΦRnv (kip)			ΦRn (kip)						
L SOL - 2 1/4" SOLID	-0.80	1.2D + 1.0W 120°	3.875	100	100	100	82.67	50.00	108.56	0.00	0.00	0	0	1	Member X
H SAE - 2X2X0.1875	-0.05	1.2D + 1.0W 60°	4	100	100	100	79.19	36.00	20.66	0.00	0.00	0	0	0	Member Z
D SOL - 3/4" SOLID	-0.21	1.2D + 1.0W N	5.569	50	50	50	160.39	36.00	3.88	0.00	0.00	0	0	0	Member X
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
	Φt Pn (kip)														
L SOL - 2 1/4" SOLID	0.39	1.2D + 1.0W 60°	50.0	65	178.92	0.00	0.00		0	0	0	Member			
H SAE - 2X2X0.1875	0.05	1.2D + 1.0W 120°	36.0	58	23.17	0.00	0.00	0.00	0	0	0	Member			
D SOL - 3/4" SOLID	0.18	1.2D + 1.0W 90°	36.0	58	14.31	0.00	0.00	0.00	0	0	1	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W Normal	55.85	3/4 EHS	A1	21	34.98	1.46	4
		3/4 EHS	A1b	21a	34.98	10.52	30
		3/4 EHS	A1a	21b	34.98	10.52	30
	111.95	3/4 EHS	A1	41	34.98	0.58	2
		3/4 EHS	A1b	41a	34.98	12.65	36
		3/4 EHS	A1a	41b	34.98	12.65	36
	168.05	3/4 EHS	A1	T3	34.98	0.4	1
		3/4 EHS	A1b	T3	34.98	13.68	39
		3/4 EHS	A1b	T3a	34.98	13.62	39
		3/4 EHS	A1a	T3a	34.98	13.66	39
		3/4 EHS	A1a	T3b	34.98	13.65	39
		3/4 EHS	A1	T3b	34.98	0.4	1
	224.15	1 EHS	A1	81	62.7	1.25	2
		1 EHS	A1b	81a	62.7	24.88	40
		1 EHS	A1a	81b	62.7	24.88	40
	271.95	1 EHS	A1	97	62.7	2.33	4
		1 EHS	A1b	97a	62.7	24.54	39
		1 EHS	A1a	97b	62.7	24.54	39
	319.75	7/8 EHS	A1	113	47.82	3.48	7
		7/8 EHS	A1b	113a	47.82	17.53	37
		7/8 EHS	A1a	113b	47.82	17.53	37
1.2D + 1.0W 60°	55.85	3/4 EHS	A1	21	34.98	4.08	12
		3/4 EHS	A1b	21a	34.98	4.05	12
		3/4 EHS	A1a	21b	34.98	12.72	36
	111.95	3/4 EHS	A1	41	34.98	3.76	11
		3/4 EHS	A1b	41a	34.98	3.7	11
		3/4 EHS	A1a	41b	34.98	15.72	45
	168.05	3/4 EHS	A1	T3	34.98	4.53	13
		3/4 EHS	A1b	T3	34.98	3.83	11
		3/4 EHS	A1b	T3a	34.98	4.33	12
		3/4 EHS	A1a	T3a	34.98	15.35	44
		3/4 EHS	A1a	T3b	34.98	17.85	51
		3/4 EHS	A1	T3b	34.98	3.74	11
	224.15	1 EHS	A1	81	62.7	6.7	11
		1 EHS	A1b	81a	62.7	6.7	11
		1 EHS	A1a	81b	62.7	30.55	49
	271.95	1 EHS	A1	97	62.7	7.64	12
		1 EHS	A1b	97a	62.7	7.7	12
		1 EHS	A1a	97b	62.7	30.44	49
	319.75	7/8 EHS	A1	113	47.82	7.85	16
		7/8 EHS	A1b	113a	47.82	7.94	17
		7/8 EHS	A1a	113b	47.82	20.69	43
1.2D + 1.0W 90°	55.85	3/4 EHS	A1	21	34.98	7.21	21
		3/4 EHS	A1b	21a	34.98	1.85	5
		3/4 EHS	A1a	21b	34.98	12.18	35
	111.95	3/4 EHS	A1	41	34.98	8.13	23
		3/4 EHS	A1b	41a	34.98	1.24	4
		3/4 EHS	A1a	41b	34.98	15.08	43
	168.05	3/4 EHS	A1	T3	34.98	10.03	29
		3/4 EHS	A1b	T3	34.98	1.45	4
		3/4 EHS	A1b	T3a	34.98	1.48	4
		3/4 EHS	A1a	T3a	34.98	14.87	43
		3/4 EHS	A1a	T3b	34.98	17.55	50
		3/4 EHS	A1	T3b	34.98	8.11	23
	224.15	1 EHS	A1	81	62.7	15.8	25
		1 EHS	A1b	81a	62.7	2.66	4
		1 EHS	A1a	81b	62.7	29.74	47
	271.95	1 EHS	A1	97	62.7	15.91	25
		1 EHS	A1b	97a	62.7	3.62	6

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W 120°	319.75	1 EHS	A1a	97b	62.7	29.51	47
		7/8 EHS	A1	113	47.82	12.9	27
		7/8 EHS	A1b	113a	47.82	4.59	10
		7/8 EHS	A1a	113b	47.82	20.1	42
	55.85	3/4 EHS	A1	21	34.98	10.53	30
		3/4 EHS	A1b	21a	34.98	1.46	4
		3/4 EHS	A1a	21b	34.98	10.51	30
		3/4 EHS	A1	41	34.98	12.7	36
	111.95	3/4 EHS	A1b	41a	34.98	0.58	2
		3/4 EHS	A1a	41b	34.98	12.61	36
1.2D + 1.0W 180°	168.05	3/4 EHS	A1	T3	34.98	14.67	42
		3/4 EHS	A1b	T3	34.98	0.39	1
		3/4 EHS	A1a	T3a	34.98	12.73	36
		3/4 EHS	A1b	T3a	34.98	0.41	1
	224.15	3/4 EHS	A1	T3b	34.98	12.7	36
		3/4 EHS	A1a	T3b	34.98	14.65	42
		1 EHS	A1	81	62.7	24.85	40
		1 EHS	A1b	81a	62.7	1.26	2
	271.95	1 EHS	A1a	81b	62.7	24.83	40
		1 EHS	A1	97	62.7	24.51	39
		1 EHS	A1b	97a	62.7	2.33	4
		1 EHS	A1a	97b	62.7	24.5	39
	319.75	7/8 EHS	A1	113	47.82	17.49	37
		7/8 EHS	A1b	113a	47.82	3.48	7
		7/8 EHS	A1a	113b	47.82	17.59	37
	55.85	3/4 EHS	A1	21	34.98	12.73	36
		3/4 EHS	A1b	21a	34.98	4.06	12
		3/4 EHS	A1a	21b	34.98	4.06	12
	111.95	3/4 EHS	A1	41	34.98	15.74	45
		3/4 EHS	A1b	41a	34.98	3.72	11
		3/4 EHS	A1a	41b	34.98	3.72	11
	168.05	3/4 EHS	A1	T3	34.98	16.58	47
		3/4 EHS	A1b	T3	34.98	4.01	11
		3/4 EHS	A1b	T3a	34.98	4.16	12
		3/4 EHS	A1a	T3a	34.98	4.14	12
1.2D + 1.0W 210°	224.15	3/4 EHS	A1	T3b	34.98	16.54	47
		3/4 EHS	A1a	T3b	34.98	4.02	11
		1 EHS	A1	81	62.7	30.5	49
		1 EHS	A1b	81a	62.7	6.71	11
	271.95	1 EHS	A1a	81b	62.7	6.71	11
		1 EHS	A1	97	62.7	30.48	49
		1 EHS	A1b	97a	62.7	7.66	12
		1 EHS	A1a	97b	62.7	7.66	12
	319.75	7/8 EHS	A1	113	47.82	20.63	43
		7/8 EHS	A1b	113a	47.82	7.89	17
		7/8 EHS	A1a	113b	47.82	7.9	17
	55.85	3/4 EHS	A1	21	34.98	12.17	35
		3/4 EHS	A1b	21a	34.98	7.19	21
		3/4 EHS	A1a	21b	34.98	1.86	5
	111.95	3/4 EHS	A1	41	34.98	15.11	43
		3/4 EHS	A1b	41a	34.98	8.07	23
		3/4 EHS	A1a	41b	34.98	1.25	4
	168.05	3/4 EHS	A1	T3	34.98	15.7	45
		3/4 EHS	A1b	T3	34.98	9.34	27
		3/4 EHS	A1a	T3a	34.98	1.56	4
		3/4 EHS	A1b	T3a	34.98	8.63	25
	224.15	3/4 EHS	A1	T3b	34.98	16.72	48
		3/4 EHS	A1a	T3b	34.98	1.38	4
		1 EHS	A1	81	62.7	29.82	48

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DETAILED CABLE FORCES								
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)	
1.2D + 1.0W 240°	271.95	1 EHS	A1b	81a	62.7	15.83	25	
		1 EHS	A1a	81b	62.7	2.66	4	
		1 EHS	A1	97	62.7	29.42	47	
		1 EHS	A1b	97a	62.7	15.96	25	
	319.75	1 EHS	A1a	97b	62.7	3.62	6	
		7/8 EHS	A1	113	47.82	20.08	42	
		7/8 EHS	A1b	113a	47.82	12.99	27	
		7/8 EHS	A1a	113b	47.82	4.58	10	
	55.85	3/4 EHS	A1	21	34.98	10.53	30	
		3/4 EHS	A1b	21a	34.98	10.51	30	
		3/4 EHS	A1a	21b	34.98	1.46	4	
		111.95	3/4 EHS	A1	41	34.98	12.7	36
	3/4 EHS		A1b	41a	34.98	12.61	36	
	3/4 EHS		A1a	41b	34.98	0.58	2	
	168.05		3/4 EHS	A1b	T3	34.98	14.64	42
		3/4 EHS	A1	T3	34.98	12.72	36	
		3/4 EHS	A1b	T3a	34.98	12.75	36	
		3/4 EHS	A1a	T3a	34.98	0.41	1	
		3/4 EHS	A1a	T3b	34.98	0.39	1	
		3/4 EHS	A1	T3b	34.98	14.66	42	
		224.15	1 EHS	A1	81	62.7	24.85	40
			1 EHS	A1b	81a	62.7	24.83	40
	271.95		1 EHS	A1a	81b	62.7	1.26	2
			1 EHS	A1	97	62.7	24.51	39
1 EHS		A1b	97a	62.7	24.5	39		
1 EHS		A1a	97b	62.7	2.33	4		
319.75	7/8 EHS	A1	113	47.82	17.49	37		
	7/8 EHS	A1b	113a	47.82	17.59	37		
	7/8 EHS	A1a	113b	47.82	3.48	7		
	1.2D + 1.0W 300°	55.85	3/4 EHS	A1	21	34.98	4.08	12
3/4 EHS			A1b	21a	34.98	12.72	36	
3/4 EHS			A1a	21b	34.98	4.06	12	
111.95			3/4 EHS	A1	41	34.98	3.76	11
		3/4 EHS	A1b	41a	34.98	15.72	45	
		3/4 EHS	A1a	41b	34.98	3.7	11	
		168.05	3/4 EHS	A1	T3	34.98	3.74	11
3/4 EHS			A1b	T3	34.98	17.87	51	
3/4 EHS			A1b	T3a	34.98	15.34	44	
3/4 EHS			A1a	T3a	34.98	4.33	12	
		3/4 EHS	A1a	T3b	34.98	3.83	11	
		3/4 EHS	A1	T3b	34.98	4.53	13	
		224.15	1 EHS	A1	81	62.7	6.7	11
			1 EHS	A1b	81a	62.7	30.53	49
271.95			1 EHS	A1a	81b	62.7	6.71	11
			1 EHS	A1	97	62.7	7.64	12
		1 EHS	A1b	97a	62.7	30.44	49	
		1 EHS	A1a	97b	62.7	7.7	12	
319.75		7/8 EHS	A1	113	47.82	7.85	16	
		7/8 EHS	A1b	113a	47.82	20.69	43	
		7/8 EHS	A1a	113b	47.82	7.93	17	
		1.2D + 1.0W 330°	55.85	3/4 EHS	A1	21	34.98	1.86
3/4 EHS				A1b	21a	34.98	12.16	35
3/4 EHS				A1a	21b	34.98	7.19	21
111.95	3/4 EHS		A1	41	34.98	1.25	4	
	3/4 EHS		A1b	41a	34.98	15.09	43	
	3/4 EHS		A1a	41b	34.98	8.06	23	
168.05	3/4 EHS		A1	T3	34.98	1.38	4	
	3/4 EHS		A1b	T3	34.98	16.71	48	
	3/4 EHS		A1b	T3a	34.98	15.69	45	

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DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
		3/4 EHS	A1a	T3a	34.98	9.34	27
		3/4 EHS	A1a	T3b	34.98	8.62	25
		3/4 EHS	A1	T3b	34.98	1.56	4
	224.15	1 EHS	A1	81	62.7	2.65	4
		1 EHS	A1b	81a	62.7	29.82	48
		1 EHS	A1a	81b	62.7	15.83	25
		1 EHS	A1	97	62.7	3.62	6
	271.95	1 EHS	A1b	97a	62.7	29.45	47
		1 EHS	A1a	97b	62.7	15.97	25
		7/8 EHS	A1	113	47.82	4.57	10
		7/8 EHS	A1b	113a	47.82	20.09	42
	319.75	7/8 EHS	A1a	113b	47.82	13	27
1.2D + 1.0Di + 1.0Wi Normal	55.85	3/4 EHS	A1	21	34.98	6.54	19
		3/4 EHS	A1b	21a	34.98	7.19	21
		3/4 EHS	A1a	21b	34.98	7.19	21
	111.95	3/4 EHS	A1	41	34.98	5.8	17
		3/4 EHS	A1b	41a	34.98	6.67	19
		3/4 EHS	A1a	41b	34.98	6.67	19
		3/4 EHS	A1b	T3	34.98	6.16	18
	168.05	3/4 EHS	A1	T3	34.98	5.26	15
		3/4 EHS	A1b	T3a	34.98	6.14	18
		3/4 EHS	A1a	T3a	34.98	6.14	18
		3/4 EHS	A1	T3b	34.98	5.26	15
		3/4 EHS	A1a	T3b	34.98	6.16	18
		1 EHS	A1	81	62.7	8.85	14
		1 EHS	A1b	81a	62.7	10.42	17
		1 EHS	A1a	81b	62.7	10.42	17
	271.95	1 EHS	A1	97	62.7	8.64	14
1.2D + 1.0Di + 1.0Wi 60°		1 EHS	A1b	97a	62.7	10.1	16
		1 EHS	A1a	97b	62.7	10.1	16
		7/8 EHS	A1	113	47.82	6.71	14
	319.75	7/8 EHS	A1b	113a	47.82	7.57	16
		7/8 EHS	A1a	113b	47.82	7.58	16
		3/4 EHS	A1	21	34.98	6.75	19
		3/4 EHS	A1b	21a	34.98	6.75	19
	111.95	3/4 EHS	A1a	21b	34.98	7.39	21
		3/4 EHS	A1	41	34.98	6.09	17
		3/4 EHS	A1b	41a	34.98	6.08	17
		3/4 EHS	A1a	41b	34.98	6.93	20
	168.05	3/4 EHS	A1b	T3	34.98	5.5	16
		3/4 EHS	A1	T3	34.98	5.6	16
		3/4 EHS	A1b	T3a	34.98	5.59	16
		3/4 EHS	A1a	T3a	34.98	6.37	18
		3/4 EHS	A1a	T3b	34.98	6.47	18
		3/4 EHS	A1	T3b	34.98	5.49	16
1.2D + 1.0Di + 1.0Wi 90°	224.15	1 EHS	A1	81	62.7	9.35	15
		1 EHS	A1b	81a	62.7	9.36	15
		1 EHS	A1a	81b	62.7	10.92	17
	271.95	1 EHS	A1	97	62.7	9.1	15
		1 EHS	A1b	97a	62.7	9.11	15
		1 EHS	A1a	97b	62.7	10.57	17
		7/8 EHS	A1	113	47.82	6.98	15
	319.75	7/8 EHS	A1b	113a	47.82	6.99	15
		7/8 EHS	A1a	113b	47.82	7.84	16
		3/4 EHS	A1	21	34.98	6.97	20
		3/4 EHS	A1b	21a	34.98	6.59	19
	111.95	3/4 EHS	A1a	21b	34.98	7.34	21
		3/4 EHS	A1	41	34.98	6.38	18
		3/4 EHS	A1b	41a	34.98	5.87	17

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
	168.05	3/4 EHS	A1a	41b	34.98	6.87	20
		3/4 EHS	A1	T3	34.98	5.92	17
		3/4 EHS	A1b	T3	34.98	5.28	15
		3/4 EHS	A1b	T3a	34.98	5.39	15
		3/4 EHS	A1a	T3a	34.98	6.29	18
		3/4 EHS	A1a	T3b	34.98	6.41	18
	224.15	3/4 EHS	A1	T3b	34.98	5.78	17
		1 EHS	A1	81	62.7	9.88	16
		1 EHS	A1b	81a	62.7	8.98	14
	271.95	1 EHS	A1a	81b	62.7	10.79	17
		1 EHS	A1	97	62.7	9.6	15
		1 EHS	A1b	97a	62.7	8.76	14
	319.75	1 EHS	A1a	97b	62.7	10.46	17
		7/8 EHS	A1	113	47.82	7.27	15
		7/8 EHS	A1b	113a	47.82	6.78	14
	55.85	7/8 EHS	A1a	113b	47.82	7.78	16
		3/4 EHS	A1	21	34.98	7.19	21
		3/4 EHS	A1b	21a	34.98	6.53	19
	111.95	3/4 EHS	A1a	21b	34.98	7.19	21
		3/4 EHS	A1	41	34.98	6.68	19
		3/4 EHS	A1b	41a	34.98	5.79	17
	168.05	3/4 EHS	A1a	41b	34.98	6.67	19
		3/4 EHS	A1	T3	34.98	6.21	18
		3/4 EHS	A1b	T3	34.98	5.21	15
	224.15	3/4 EHS	A1b	T3a	34.98	5.3	15
		3/4 EHS	A1a	T3a	34.98	6.11	17
		3/4 EHS	A1a	T3b	34.98	6.19	18
1.2D + 1.0Di + 1.0Wi 120°	224.15	3/4 EHS	A1	T3b	34.98	6.1	17
		1 EHS	A1	81	62.7	10.42	17
		1 EHS	A1b	81a	62.7	8.85	14
	271.95	1 EHS	A1a	81b	62.7	10.42	17
		1 EHS	A1	97	62.7	10.1	16
		1 EHS	A1b	97a	62.7	8.64	14
	319.75	1 EHS	A1a	97b	62.7	10.11	16
		7/8 EHS	A1	113	47.82	7.57	16
		7/8 EHS	A1b	113a	47.82	6.71	14
	55.85	7/8 EHS	A1a	113b	47.82	7.58	16
		3/4 EHS	A1	21	34.98	7.4	21
		3/4 EHS	A1b	21a	34.98	6.75	19
	111.95	3/4 EHS	A1a	21b	34.98	6.75	19
		3/4 EHS	A1	41	34.98	6.94	20
		3/4 EHS	A1b	41a	34.98	6.08	17
	168.05	3/4 EHS	A1a	41b	34.98	6.08	17
		3/4 EHS	A1	T3	34.98	6.42	18
		3/4 EHS	A1b	T3	34.98	5.54	16
	224.15	3/4 EHS	A1b	T3a	34.98	5.55	16
		3/4 EHS	A1a	T3a	34.98	5.55	16
		3/4 EHS	A1a	T3b	34.98	5.54	16
	271.95	3/4 EHS	A1	T3b	34.98	6.41	18
		1 EHS	A1	81	62.7	10.9	17
		1 EHS	A1b	81a	62.7	9.36	15
1.2D + 1.0Di + 1.0Wi 180°	224.15	1 EHS	A1a	81b	62.7	9.36	15
		1 EHS	A1	97	62.7	10.54	17
		1 EHS	A1b	97a	62.7	9.12	15
	271.95	1 EHS	A1a	97b	62.7	9.12	15
		7/8 EHS	A1	113	47.82	7.81	16
		7/8 EHS	A1b	113a	47.82	7	15
	319.75	7/8 EHS	A1a	113b	47.82	7	15
		3/4 EHS	A1	21	34.98	7.34	21
		3/4 EHS	A1	21	34.98	7.34	21
	55.85	3/4 EHS	A1	21	34.98	7.34	21
		3/4 EHS	A1	21	34.98	7.34	21
		3/4 EHS	A1	21	34.98	7.34	21
	111.95	3/4 EHS	A1	41	34.98	6.94	20
		3/4 EHS	A1b	41a	34.98	6.08	17
		3/4 EHS	A1a	41b	34.98	6.08	17
	168.05	3/4 EHS	A1	T3	34.98	6.42	18
		3/4 EHS	A1b	T3	34.98	5.54	16
		3/4 EHS	A1b	T3a	34.98	5.55	16
	224.15	3/4 EHS	A1a	T3a	34.98	5.55	16
		3/4 EHS	A1a	T3b	34.98	5.54	16
		3/4 EHS	A1	T3b	34.98	6.41	18
	271.95	1 EHS	A1	81	62.7	10.9	17
		1 EHS	A1b	81a	62.7	9.36	15
		1 EHS	A1a	81b	62.7	9.36	15
	319.75	1 EHS	A1	97	62.7	10.54	17
		1 EHS	A1b	97a	62.7	9.12	15
		1 EHS	A1a	97b	62.7	9.12	15
	55.85	7/8 EHS	A1	113	47.82	7.81	16
		7/8 EHS	A1b	113a	47.82	7	15
		7/8 EHS	A1a	113b	47.82	7	15
1.2D + 1.0Di + 1.0Wi 210°	55.85	3/4 EHS	A1	21	34.98	7.34	21
		3/4 EHS	A1	21	34.98	7.34	21

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

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PROJECT: 14910189_C3_03

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Di + 1.0Wi 240°	111.95	3/4 EHS	A1b	21a	34.98	6.97	20
		3/4 EHS	A1a	21b	34.98	6.59	19
		3/4 EHS	A1	41	34.98	6.87	20
	168.05	3/4 EHS	A1b	41a	34.98	6.37	18
		3/4 EHS	A1a	41b	34.98	5.87	17
		3/4 EHS	A1b	T3	34.98	5.86	17
	224.15	3/4 EHS	A1	T3	34.98	6.32	18
		3/4 EHS	A1a	T3a	34.98	5.36	15
		3/4 EHS	A1b	T3a	34.98	5.83	17
	271.95	3/4 EHS	A1a	T3b	34.98	5.31	15
		3/4 EHS	A1	T3b	34.98	6.38	18
		1 EHS	A1	81	62.7	10.78	17
	319.75	1 EHS	A1b	81a	62.7	9.88	16
		1 EHS	A1a	81b	62.7	9	14
		1 EHS	A1	97	62.7	10.43	17
		1 EHS	A1b	97a	62.7	9.61	15
		1 EHS	A1a	97b	62.7	8.78	14
		7/8 EHS	A1	113	47.82	7.75	16
	55.85	7/8 EHS	A1b	113a	47.82	7.29	15
		7/8 EHS	A1a	113b	47.82	6.8	14
		3/4 EHS	A1	21	34.98	7.19	21
	111.95	3/4 EHS	A1b	21a	34.98	7.19	21
		3/4 EHS	A1a	21b	34.98	6.53	19
		3/4 EHS	A1	41	34.98	6.68	19
	168.05	3/4 EHS	A1b	41a	34.98	6.67	19
		3/4 EHS	A1a	41b	34.98	5.79	17
		3/4 EHS	A1	T3	34.98	6.1	17
	224.15	3/4 EHS	A1b	T3	34.98	6.19	18
		3/4 EHS	A1b	T3a	34.98	6.11	17
		3/4 EHS	A1a	T3a	34.98	5.3	15
	271.95	3/4 EHS	A1a	T3b	34.98	5.21	15
		3/4 EHS	A1	T3b	34.98	6.21	18
		1 EHS	A1	81	62.7	10.42	17
	319.75	1 EHS	A1b	81a	62.7	10.42	17
		1 EHS	A1a	81b	62.7	8.85	14
		1 EHS	A1	97	62.7	10.1	16
		1 EHS	A1b	97a	62.7	10.11	16
		1 EHS	A1a	97b	62.7	8.64	14
		7/8 EHS	A1	113	47.82	7.57	16
1.2D + 1.0Di + 1.0Wi 300°	55.85	7/8 EHS	A1b	113a	47.82	7.58	16
		7/8 EHS	A1a	113b	47.82	6.71	14
		3/4 EHS	A1	21	34.98	6.75	19
	111.95	3/4 EHS	A1b	21a	34.98	7.39	21
		3/4 EHS	A1a	21b	34.98	6.75	19
		3/4 EHS	A1	41	34.98	6.09	17
	168.05	3/4 EHS	A1b	41a	34.98	6.93	20
		3/4 EHS	A1a	41b	34.98	6.08	17
		3/4 EHS	A1	T3	34.98	5.49	16
	224.15	3/4 EHS	A1b	T3	34.98	6.47	18
		3/4 EHS	A1b	T3a	34.98	6.37	18
		3/4 EHS	A1a	T3a	34.98	5.59	16
	271.95	3/4 EHS	A1a	T3b	34.98	5.5	16
		3/4 EHS	A1	T3b	34.98	5.6	16
		1 EHS	A1	81	62.7	9.35	15
		1 EHS	A1b	81a	62.7	10.92	17
		1 EHS	A1a	81b	62.7	9.36	15
		1 EHS	A1	97	62.7	9.1	15
		1 EHS	A1b	97a	62.7	10.57	17
		1 EHS	A1a	97b	62.7	9.11	15

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

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DETAILED CABLE FORCES

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Di + 1.0Wi 330°	319.75	7/8 EHS	A1	113	47.82	6.98	15
		7/8 EHS	A1b	113a	47.82	7.84	16
		7/8 EHS	A1a	113b	47.82	6.99	15
	55.85	3/4 EHS	A1	21	34.98	6.6	19
		3/4 EHS	A1b	21a	34.98	7.34	21
		3/4 EHS	A1a	21b	34.98	6.97	20
	111.95	3/4 EHS	A1	41	34.98	5.88	17
		3/4 EHS	A1b	41a	34.98	6.86	20
		3/4 EHS	A1a	41b	34.98	6.37	18
	168.05	3/4 EHS	A1	T3	34.98	5.31	15
		3/4 EHS	A1b	T3	34.98	6.38	18
		3/4 EHS	A1b	T3a	34.98	6.32	18
		3/4 EHS	A1a	T3a	34.98	5.86	17
		3/4 EHS	A1a	T3b	34.98	5.83	17
		3/4 EHS	A1	T3b	34.98	5.37	15
1.2D + 1.0Ev + 1.0Eh Normal	224.15	1 EHS	A1	81	62.7	8.99	14
		1 EHS	A1b	81a	62.7	10.78	17
		1 EHS	A1a	81b	62.7	9.88	16
	271.95	1 EHS	A1	97	62.7	8.77	14
		1 EHS	A1b	97a	62.7	10.43	17
		1 EHS	A1a	97b	62.7	9.61	15
	319.75	7/8 EHS	A1	113	47.82	6.79	14
		7/8 EHS	A1b	113a	47.82	7.76	16
		7/8 EHS	A1a	113b	47.82	7.29	15
	55.85	3/4 EHS	A1	21	34.98	5.64	16
		3/4 EHS	A1b	21a	34.98	5.7	16
		3/4 EHS	A1a	21b	34.98	5.7	16
	111.95	3/4 EHS	A1	41	34.98	5.28	15
		3/4 EHS	A1b	41a	34.98	5.41	15
		3/4 EHS	A1a	41b	34.98	5.41	15
1.2D + 1.0Ev + 1.0Eh 60°	168.05	3/4 EHS	A1	T3	34.98	4.96	14
		3/4 EHS	A1b	T3	34.98	5.19	15
		3/4 EHS	A1b	T3a	34.98	5.2	15
		3/4 EHS	A1a	T3a	34.98	5.2	15
		3/4 EHS	A1a	T3b	34.98	5.19	15
		3/4 EHS	A1	T3b	34.98	4.96	14
	224.15	1 EHS	A1	81	62.7	8.52	14
		1 EHS	A1b	81a	62.7	9.16	15
		1 EHS	A1a	81b	62.7	9.16	15
	271.95	1 EHS	A1	97	62.7	8.37	13
		1 EHS	A1b	97a	62.7	9.13	15
		1 EHS	A1a	97b	62.7	9.13	15
	319.75	7/8 EHS	A1	113	47.82	6.46	14
		7/8 EHS	A1b	113a	47.82	6.99	15
		7/8 EHS	A1a	113b	47.82	6.99	15
1.2D + 1.0Ev + 1.0Eh 60°	55.85	3/4 EHS	A1	21	34.98	5.66	16
		3/4 EHS	A1b	21a	34.98	5.66	16
		3/4 EHS	A1a	21b	34.98	5.73	16
	111.95	3/4 EHS	A1	41	34.98	5.32	15
		3/4 EHS	A1b	41a	34.98	5.32	15
		3/4 EHS	A1a	41b	34.98	5.46	16
	168.05	3/4 EHS	A1	T3	34.98	5.03	14
		3/4 EHS	A1b	T3	34.98	5.03	14
		3/4 EHS	A1b	T3a	34.98	5.04	14
		3/4 EHS	A1a	T3a	34.98	5.27	15
		3/4 EHS	A1a	T3b	34.98	5.27	15
		3/4 EHS	A1	T3b	34.98	5.04	14
	224.15	1 EHS	A1	81	62.7	8.73	14
		1 EHS	A1b	81a	62.7	8.73	14

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

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PROJECT: 14910189_C3_03

DETAILED CABLE FORCES								
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)	
	271.95	1 EHS	A1a	81b	62.7	9.38	15	
		1 EHS	A1	97	62.7	8.62	14	
		1 EHS	A1b	97a	62.7	8.62	14	
	319.75	1 EHS	A1a	97b	62.7	9.39	15	
		7/8 EHS	A1	113	47.82	6.64	14	
		7/8 EHS	A1b	113a	47.82	6.64	14	
		7/8 EHS	A1a	113b	47.82	7.17	15	
		55.85	3/4 EHS	A1	21	34.98	5.68	16
			3/4 EHS	A1b	21a	34.98	5.65	16
	3/4 EHS		A1a	21b	34.98	5.72	16	
	111.95	3/4 EHS	A1	41	34.98	5.37	15	
		3/4 EHS	A1b	41a	34.98	5.29	15	
3/4 EHS		A1a	41b	34.98	5.45	16		
	168.05	3/4 EHS	A1	T3	34.98	5.11	15	
		3/4 EHS	A1b	T3	34.98	4.98	14	
		3/4 EHS	A1b	T3a	34.98	4.98	14	
		3/4 EHS	A1a	T3a	34.98	5.25	15	
		3/4 EHS	A1a	T3b	34.98	5.25	15	
		3/4 EHS	A1	T3b	34.98	5.12	15	
	224.15	1 EHS	A1	81	62.7	8.95	14	
		1 EHS	A1b	81a	62.7	8.58	14	
		1 EHS	A1a	81b	62.7	9.32	15	
	271.95	1 EHS	A1	97	62.7	8.88	14	
		1 EHS	A1b	97a	62.7	8.43	13	
		1 EHS	A1a	97b	62.7	9.32	15	
319.75	7/8 EHS	A1	113	47.82	6.82	14		
	7/8 EHS	A1b	113a	47.82	6.51	14		
	7/8 EHS	A1a	113b	47.82	7.12	15		
1.2D + 1.0Ev + 1.0Eh 120°	55.85	3/4 EHS	A1	21	34.98	5.7	16	
		3/4 EHS	A1b	21a	34.98	5.64	16	
		3/4 EHS	A1a	21b	34.98	5.7	16	
	111.95	3/4 EHS	A1	41	34.98	5.41	15	
		3/4 EHS	A1b	41a	34.98	5.28	15	
		3/4 EHS	A1a	41b	34.98	5.41	15	
	168.05	3/4 EHS	A1	T3	34.98	5.19	15	
		3/4 EHS	A1b	T3	34.98	4.96	14	
		3/4 EHS	A1a	T3a	34.98	5.19	15	
		3/4 EHS	A1b	T3a	34.98	4.96	14	
		3/4 EHS	A1	T3b	34.98	5.2	15	
		3/4 EHS	A1a	T3b	34.98	5.2	15	
	224.15	1 EHS	A1	81	62.7	9.16	15	
		1 EHS	A1b	81a	62.7	8.52	14	
		1 EHS	A1a	81b	62.7	9.16	15	
	271.95	1 EHS	A1	97	62.7	9.13	15	
		1 EHS	A1b	97a	62.7	8.37	13	
		1 EHS	A1a	97b	62.7	9.13	15	
	319.75	7/8 EHS	A1	113	47.82	6.99	15	
		7/8 EHS	A1b	113a	47.82	6.46	14	
		7/8 EHS	A1a	113b	47.82	6.99	15	
	1.2D + 1.0Ev + 1.0Eh 180°	55.85	3/4 EHS	A1	21	34.98	5.73	16
			3/4 EHS	A1b	21a	34.98	5.66	16
			3/4 EHS	A1a	21b	34.98	5.66	16
		111.95	3/4 EHS	A1	41	34.98	5.46	16
			3/4 EHS	A1b	41a	34.98	5.32	15
			3/4 EHS	A1a	41b	34.98	5.32	15
		168.05	3/4 EHS	A1	T3	34.98	5.27	15
3/4 EHS			A1b	T3	34.98	5.04	14	
3/4 EHS			A1b	T3a	34.98	5.03	14	
		3/4 EHS	A1a	T3a	34.98	5.03	14	

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Ev + 1.0Eh 210°	224.15	3/4 EHS	A1	T3b	34.98	5.27	15
		3/4 EHS	A1a	T3b	34.98	5.04	14
		1 EHS	A1	81	62.7	9.38	15
		1 EHS	A1b	81a	62.7	8.73	14
	271.95	1 EHS	A1a	81b	62.7	8.73	14
		1 EHS	A1	97	62.7	9.39	15
		1 EHS	A1b	97a	62.7	8.62	14
		1 EHS	A1a	97b	62.7	8.62	14
	319.75	7/8 EHS	A1	113	47.82	7.17	15
		7/8 EHS	A1b	113a	47.82	6.64	14
		7/8 EHS	A1a	113b	47.82	6.64	14
	55.85	3/4 EHS	A1	21	34.98	5.72	16
		3/4 EHS	A1b	21a	34.98	5.68	16
		3/4 EHS	A1a	21b	34.98	5.65	16
	111.95	3/4 EHS	A1	41	34.98	5.45	16
		3/4 EHS	A1b	41a	34.98	5.37	15
		3/4 EHS	A1a	41b	34.98	5.29	15
	168.05	3/4 EHS	A1	T3	34.98	5.25	15
		3/4 EHS	A1b	T3	34.98	5.12	15
		3/4 EHS	A1a	T3a	34.98	4.98	14
		3/4 EHS	A1b	T3a	34.98	5.11	15
	224.15	3/4 EHS	A1	T3b	34.98	5.25	15
		3/4 EHS	A1a	T3b	34.98	4.98	14
		1 EHS	A1	81	62.7	9.32	15
		1 EHS	A1b	81a	62.7	8.95	14
	271.95	1 EHS	A1a	81b	62.7	8.58	14
		1 EHS	A1	97	62.7	9.32	15
		1 EHS	A1b	97a	62.7	8.88	14
		1 EHS	A1a	97b	62.7	8.43	13
1.2D + 1.0Ev + 1.0Eh 240°	319.75	7/8 EHS	A1	113	47.82	7.12	15
		7/8 EHS	A1b	113a	47.82	6.82	14
		7/8 EHS	A1a	113b	47.82	6.51	14
	55.85	3/4 EHS	A1	21	34.98	5.7	16
		3/4 EHS	A1b	21a	34.98	5.7	16
		3/4 EHS	A1a	21b	34.98	5.64	16
	111.95	3/4 EHS	A1	41	34.98	5.41	15
		3/4 EHS	A1b	41a	34.98	5.41	15
		3/4 EHS	A1a	41b	34.98	5.28	15
	168.05	3/4 EHS	A1b	T3	34.98	5.2	15
		3/4 EHS	A1	T3	34.98	5.2	15
		3/4 EHS	A1b	T3a	34.98	5.19	15
		3/4 EHS	A1a	T3a	34.98	4.96	14
	224.15	3/4 EHS	A1a	T3b	34.98	4.96	14
		3/4 EHS	A1	T3b	34.98	5.19	15
		1 EHS	A1	81	62.7	9.16	15
		1 EHS	A1b	81a	62.7	9.16	15
	271.95	1 EHS	A1a	81b	62.7	8.52	14
		1 EHS	A1	97	62.7	9.13	15
		1 EHS	A1b	97a	62.7	9.13	15
		1 EHS	A1a	97b	62.7	8.37	13
	319.75	7/8 EHS	A1	113	47.82	6.99	15
		7/8 EHS	A1b	113a	47.82	6.99	15
		7/8 EHS	A1a	113b	47.82	6.46	14
1.2D + 1.0Ev + 1.0Eh 300°	55.85	3/4 EHS	A1	21	34.98	5.66	16
		3/4 EHS	A1b	21a	34.98	5.73	16
		3/4 EHS	A1a	21b	34.98	5.66	16
	111.95	3/4 EHS	A1	41	34.98	5.32	15
		3/4 EHS	A1b	41a	34.98	5.46	16
		3/4 EHS	A1a	41b	34.98	5.32	15

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DETAILED CABLE FORCES								
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)	
	168.05	3/4 EHS	A1	T3	34.98	5.04	14	
		3/4 EHS	A1b	T3	34.98	5.27	15	
		3/4 EHS	A1b	T3a	34.98	5.27	15	
		3/4 EHS	A1a	T3a	34.98	5.04	14	
		3/4 EHS	A1a	T3b	34.98	5.03	14	
		3/4 EHS	A1	T3b	34.98	5.03	14	
	224.15	1 EHS	A1	81	62.7	8.73	14	
		1 EHS	A1b	81a	62.7	9.38	15	
		1 EHS	A1a	81b	62.7	8.73	14	
	271.95	1 EHS	A1	97	62.7	8.62	14	
		1 EHS	A1b	97a	62.7	9.39	15	
		1 EHS	A1a	97b	62.7	8.62	14	
	319.75	7/8 EHS	A1	113	47.82	6.64	14	
		7/8 EHS	A1b	113a	47.82	7.17	15	
		7/8 EHS	A1a	113b	47.82	6.64	14	
	1.2D + 1.0Ev + 1.0Eh 330°	55.85	3/4 EHS	A1	21	34.98	5.65	16
			3/4 EHS	A1b	21a	34.98	5.72	16
			3/4 EHS	A1a	21b	34.98	5.68	16
		111.95	3/4 EHS	A1	41	34.98	5.29	15
			3/4 EHS	A1b	41a	34.98	5.45	16
			3/4 EHS	A1a	41b	34.98	5.37	15
		168.05	3/4 EHS	A1	T3	34.98	4.98	14
3/4 EHS			A1b	T3	34.98	5.25	15	
3/4 EHS			A1b	T3a	34.98	5.25	15	
3/4 EHS			A1a	T3a	34.98	5.12	15	
3/4 EHS		A1a	T3b	34.98	5.11	15		
		3/4 EHS	A1	T3b	34.98	4.98	14	
		224.15	1 EHS	A1	81	62.7	8.58	14
			1 EHS	A1b	81a	62.7	9.32	15
1 EHS			A1a	81b	62.7	8.95	14	
271.95		1 EHS	A1	97	62.7	8.43	13	
		1 EHS	A1b	97a	62.7	9.32	15	
		1 EHS	A1a	97b	62.7	8.88	14	
319.75		7/8 EHS	A1	113	47.82	6.51	14	
		7/8 EHS	A1b	113a	47.82	7.12	15	
		7/8 EHS	A1a	113b	47.82	6.82	14	
1.0D + 1.0W Service Normal		55.85	3/4 EHS	A1	21	34.98	4.3	12
	3/4 EHS		A1b	21a	34.98	6.53	19	
	3/4 EHS		A1a	21b	34.98	6.53	19	
	111.95	3/4 EHS	A1	41	34.98	3.5	10	
		3/4 EHS	A1b	41a	34.98	6.56	19	
		3/4 EHS	A1a	41b	34.98	6.56	19	
	168.05	3/4 EHS	A1	T3	34.98	3.06	9	
		3/4 EHS	A1b	T3	34.98	6.44	18	
		3/4 EHS	A1b	T3a	34.98	6.4	18	
		3/4 EHS	A1a	T3a	34.98	6.4	18	
	3/4 EHS	A1a	T3b	34.98	6.44	18		
		3/4 EHS	A1	T3b	34.98	3.07	9	
		224.15	1 EHS	A1	81	62.7	5.28	8
			1 EHS	A1b	81a	62.7	11.19	18
	1 EHS		A1a	81b	62.7	11.19	18	
	271.95	1 EHS	A1	97	62.7	5.32	8	
		1 EHS	A1b	97a	62.7	11.03	18	
		1 EHS	A1a	97b	62.7	11.03	18	
	319.75	7/8 EHS	A1	113	47.82	4.86	10	
		7/8 EHS	A1b	113a	47.82	8.33	17	
		7/8 EHS	A1a	113b	47.82	8.33	17	
1.0D + 1.0W Service 60°	55.85	3/4 EHS	A1	21	34.98	5.02	14	
		3/4 EHS	A1b	21a	34.98	5.02	14	

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
	111.95	3/4 EHS	A1a	21b	34.98	7.19	21
		3/4 EHS	A1	41	34.98	4.48	13
		3/4 EHS	A1b	41a	34.98	4.47	13
	168.05	3/4 EHS	A1a	41b	34.98	7.5	21
		3/4 EHS	A1	T3	34.98	4.45	13
		3/4 EHS	A1b	T3	34.98	4.06	12
		3/4 EHS	A1b	T3a	34.98	4.39	13
		3/4 EHS	A1a	T3a	34.98	7.19	21
		3/4 EHS	A1a	T3b	34.98	7.68	22
		3/4 EHS	A1	T3b	34.98	4.01	11
	224.15	1 EHS	A1	81	62.7	7.27	12
		1 EHS	A1b	81a	62.7	7.27	12
		1 EHS	A1a	81b	62.7	13.24	21
	271.95	1 EHS	A1	97	62.7	7.36	12
		1 EHS	A1b	97a	62.7	7.37	12
		1 EHS	A1a	97b	62.7	13.08	21
	319.75	7/8 EHS	A1	113	47.82	6.18	13
		7/8 EHS	A1b	113a	47.82	6.2	13
		7/8 EHS	A1a	113b	47.82	9.53	20
1.0D + 1.0W Service 90°	55.85	3/4 EHS	A1	21	34.98	5.77	16
		3/4 EHS	A1b	21a	34.98	4.49	13
		3/4 EHS	A1a	21b	34.98	7.02	20
	111.95	3/4 EHS	A1	41	34.98	5.5	16
		3/4 EHS	A1b	41a	34.98	3.76	11
		3/4 EHS	A1a	41b	34.98	7.26	21
	168.05	3/4 EHS	A1	T3	34.98	5.6	16
		3/4 EHS	A1b	T3	34.98	3.18	9
		3/4 EHS	A1b	T3a	34.98	3.61	10
		3/4 EHS	A1a	T3a	34.98	6.88	20
		3/4 EHS	A1a	T3b	34.98	7.46	21
		3/4 EHS	A1	T3b	34.98	5.04	14
	224.15	1 EHS	A1	81	62.7	9.18	15
		1 EHS	A1b	81a	62.7	5.84	9
		1 EHS	A1a	81b	62.7	12.68	20
	271.95	1 EHS	A1	97	62.7	9.17	15
		1 EHS	A1b	97a	62.7	5.92	9
		1 EHS	A1a	97b	62.7	12.51	20
	319.75	7/8 EHS	A1	113	47.82	7.27	15
		7/8 EHS	A1b	113a	47.82	5.26	11
		7/8 EHS	A1a	113b	47.82	9.19	19
1.0D + 1.0W Service 120°	55.85	3/4 EHS	A1	21	34.98	6.54	19
		3/4 EHS	A1b	21a	34.98	4.29	12
		3/4 EHS	A1a	21b	34.98	6.53	19
	111.95	3/4 EHS	A1	41	34.98	6.58	19
		3/4 EHS	A1b	41a	34.98	3.49	10
		3/4 EHS	A1a	41b	34.98	6.56	19
	168.05	3/4 EHS	A1	T3	34.98	6.68	19
		3/4 EHS	A1b	T3	34.98	2.88	8
		3/4 EHS	A1a	T3a	34.98	6.21	18
		3/4 EHS	A1b	T3a	34.98	3.25	9
		3/4 EHS	A1	T3b	34.98	6.18	18
		3/4 EHS	A1a	T3b	34.98	6.64	19
	224.15	1 EHS	A1	81	62.7	11.2	18
		1 EHS	A1b	81a	62.7	5.26	8
		1 EHS	A1a	81b	62.7	11.2	18
	271.95	1 EHS	A1	97	62.7	11.04	18
		1 EHS	A1b	97a	62.7	5.29	8
		1 EHS	A1a	97b	62.7	11.05	18
	319.75	7/8 EHS	A1	113	47.82	8.33	17

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.0D + 1.0W Service 180°	55.85	7/8 EHS	A1b	113a	47.82	4.84	10
		7/8 EHS	A1a	113b	47.82	8.34	17
		3/4 EHS	A1	21	34.98	7.2	21
		3/4 EHS	A1b	21a	34.98	5.02	14
	111.95	3/4 EHS	A1a	21b	34.98	5.02	14
		3/4 EHS	A1	41	34.98	7.51	21
		3/4 EHS	A1b	41a	34.98	4.47	13
		3/4 EHS	A1a	41b	34.98	4.47	13
	168.05	3/4 EHS	A1	T3	34.98	7.44	21
		3/4 EHS	A1b	T3	34.98	4.19	12
		3/4 EHS	A1b	T3a	34.98	4.25	12
		3/4 EHS	A1a	T3a	34.98	4.25	12
	224.15	3/4 EHS	A1	T3b	34.98	7.43	21
		3/4 EHS	A1a	T3b	34.98	4.2	12
		1 EHS	A1	81	62.7	13.22	21
		1 EHS	A1b	81a	62.7	7.28	12
	271.95	1 EHS	A1a	81b	62.7	7.28	12
		1 EHS	A1	97	62.7	13.06	21
		1 EHS	A1b	97a	62.7	7.37	12
		1 EHS	A1a	97b	62.7	7.37	12
	319.75	7/8 EHS	A1	113	47.82	9.5	20
		7/8 EHS	A1b	113a	47.82	6.2	13
		7/8 EHS	A1a	113b	47.82	6.2	13
1.0D + 1.0W Service 210°	55.85	3/4 EHS	A1	21	34.98	7.03	20
		3/4 EHS	A1b	21a	34.98	5.76	16
		3/4 EHS	A1a	21b	34.98	4.49	13
	111.95	3/4 EHS	A1	41	34.98	7.27	21
		3/4 EHS	A1b	41a	34.98	5.49	16
		3/4 EHS	A1a	41b	34.98	3.76	11
	168.05	3/4 EHS	A1	T3	34.98	7.04	20
		3/4 EHS	A1b	T3	34.98	5.39	15
		3/4 EHS	A1a	T3a	34.98	3.5	10
	224.15	3/4 EHS	A1b	T3a	34.98	5.23	15
		3/4 EHS	A1	T3b	34.98	7.3	21
		3/4 EHS	A1a	T3b	34.98	3.28	9
		1 EHS	A1	81	62.7	12.67	20
	271.95	1 EHS	A1b	81a	62.7	9.19	15
		1 EHS	A1a	81b	62.7	5.84	9
		1 EHS	A1	97	62.7	12.5	20
		1 EHS	A1b	97a	62.7	9.18	15
	319.75	1 EHS	A1a	97b	62.7	5.92	9
		7/8 EHS	A1	113	47.82	9.18	19
		7/8 EHS	A1b	113a	47.82	7.28	15
		7/8 EHS	A1a	113b	47.82	5.26	11
1.0D + 1.0W Service 240°	55.85	3/4 EHS	A1	21	34.98	6.54	19
		3/4 EHS	A1b	21a	34.98	6.53	19
		3/4 EHS	A1a	21b	34.98	4.29	12
	111.95	3/4 EHS	A1	41	34.98	6.58	19
		3/4 EHS	A1b	41a	34.98	6.56	19
		3/4 EHS	A1a	41b	34.98	3.49	10
	168.05	3/4 EHS	A1b	T3	34.98	6.63	19
		3/4 EHS	A1	T3	34.98	6.18	18
		3/4 EHS	A1b	T3a	34.98	6.22	18
		3/4 EHS	A1a	T3a	34.98	3.24	9
	224.15	3/4 EHS	A1a	T3b	34.98	2.89	8
		3/4 EHS	A1	T3b	34.98	6.68	19
		1 EHS	A1	81	62.7	11.2	18
		1 EHS	A1b	81a	62.7	11.2	18
		1 EHS	A1a	81b	62.7	5.26	8

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.0D + 1.0W Service 300°	271.95	1 EHS	A1	97	62.7	11.04	18
		1 EHS	A1b	97a	62.7	11.05	18
		1 EHS	A1a	97b	62.7	5.29	8
	319.75	7/8 EHS	A1	113	47.82	8.33	17
		7/8 EHS	A1b	113a	47.82	8.34	17
		7/8 EHS	A1a	113b	47.82	4.84	10
	55.85	3/4 EHS	A1	21	34.98	5.02	14
		3/4 EHS	A1b	21a	34.98	7.19	21
		3/4 EHS	A1a	21b	34.98	5.02	14
	111.95	3/4 EHS	A1	41	34.98	4.48	13
		3/4 EHS	A1b	41a	34.98	7.5	21
		3/4 EHS	A1a	41b	34.98	4.47	13
	168.05	3/4 EHS	A1	T3	34.98	4	11
		3/4 EHS	A1b	T3	34.98	7.69	22
		3/4 EHS	A1b	T3a	34.98	7.19	21
	224.15	3/4 EHS	A1a	T3a	34.98	4.39	13
		3/4 EHS	A1a	T3b	34.98	4.06	12
		3/4 EHS	A1	T3b	34.98	4.45	13
	271.95	1 EHS	A1	81	62.7	7.27	12
		1 EHS	A1b	81a	62.7	13.24	21
		1 EHS	A1a	81b	62.7	7.27	12
	319.75	1 EHS	A1	97	62.7	7.36	12
		1 EHS	A1b	97a	62.7	13.08	21
		1 EHS	A1a	97b	62.7	7.37	12
1.0D + 1.0W Service 330°	55.85	7/8 EHS	A1	113	47.82	6.18	13
		7/8 EHS	A1b	113a	47.82	9.53	20
		7/8 EHS	A1a	113b	47.82	6.2	13
	111.95	3/4 EHS	A1	21	34.98	4.5	13
		3/4 EHS	A1b	21a	34.98	7.02	20
		3/4 EHS	A1a	21b	34.98	5.76	16
	168.05	3/4 EHS	A1	41	34.98	3.77	11
		3/4 EHS	A1b	41a	34.98	7.26	21
		3/4 EHS	A1a	41b	34.98	5.49	16
	224.15	3/4 EHS	A1	T3	34.98	3.28	9
		3/4 EHS	A1b	T3	34.98	7.3	21
		3/4 EHS	A1b	T3a	34.98	7.03	20
	271.95	3/4 EHS	A1a	T3a	34.98	5.39	15
		3/4 EHS	A1a	T3b	34.98	5.23	15
		3/4 EHS	A1	T3b	34.98	3.51	10
	319.75	1 EHS	A1	81	62.7	5.84	9
		1 EHS	A1b	81a	62.7	12.67	20
		1 EHS	A1a	81b	62.7	9.19	15
	7/8 EHS	1 EHS	A1	97	62.7	5.91	9
		1 EHS	A1b	97a	62.7	12.51	20
		1 EHS	A1a	97b	62.7	9.18	15
	7/8 EHS	7/8 EHS	A1	113	47.82	5.25	11
		7/8 EHS	A1b	113a	47.82	9.19	19
		7/8 EHS	A1a	113b	47.82	7.28	15

MAXIMUM CABLE FORCES SUMMARY							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Available Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W 60°	55.85	3/4 EHS	A1a	21b	34.98	12.72	36
1.2D + 1.0W 60°	111.95	3/4 EHS	A1a	41b	34.98	15.72	45
1.2D + 1.0W 60°	168.05	3/4 EHS	A1a	T3b	34.98	17.85	51
1.2D + 1.0W 60°	224.15	1 EHS	A1a	81b	62.70	30.55	49
1.2D + 1.0W 60°	271.95	1 EHS	A1a	97b	62.70	30.44	49
1.2D + 1.0W 60°	319.75	7/8 EHS	A1a	113b	47.82	20.69	43

MAXIMUM TORQUE ARM STRESS SUMMARY					
Load Case	Elevation (ft)	Member	Type	Compression (%)	Tension (%)
1.2D + 1.0W Normal	56.00	PL 3 x 0.375	Horiz	0	23.3
1.2D + 1.0W Normal	112.00	PL 3 x 0.375	Horiz	0	23.5
1.2D + 1.0W 300°	168.00	3.5X3.5X0.375	Lower Kicker	35.3	0
1.2D + 1.0W 90°	168.00	2.5X2.5X0.25	Horiz	27.7	0
1.2D + 1.0W 120°	224.00	PL 3 x 0.375	Horiz	0	29.1
1.2D + 1.0W 120°	272.00	PL 3 x 0.375	Horiz	0	25.8
1.2D + 1.0W 120°	319.80	PL 3 x 0.375	Horiz	0	14.5

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	91.95	0.0666	-0.0768	0.0242	0.0805
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	99.75	0.0696	-0.0782	0.0110	0.0789
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	148.05	0.0918	-0.0915	0.0215	0.094
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	155.85	0.0946	-0.0915	0.0235	0.0943
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	168.05	0.0983	-0.0919	0.0271	0.0958
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	184.15	0.1094	-0.1073	0.0361	0.1132
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	188.05	0.1121	-0.1102	0.0393	0.117
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	199.75	0.1194	-0.1190	0.0355	0.1241
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	240.00	0.1442	-0.1906	0.0777	0.2058
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	244.15	0.147	-0.1954	0.0260	0.197
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	259.75	0.1525	-0.2093	0.0194	0.2101
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	275.85	0.1509	-0.2245	0.0220	0.2255
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	284.15	0.1499	-0.2332	0.0323	0.2354
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	288.05	0.1482	-0.2333	0.0332	0.2357
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	295.85	0.1434	-0.2318	0.0464	0.2364
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	300.00	0.1397	-0.2306	0.0768	0.243
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	300.25	0.1394	-0.2305	0.0751	0.2424
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	304.15	0.1356	-0.2295	0.0621	0.2377
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	91.95	0.0715	-0.1651	0.0257	0.167
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	99.75	0.0747	-0.1665	0.0137	0.167
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	148.05	0.0992	-0.1796	0.0246	0.1813
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	155.85	0.1024	-0.1788	0.0270	0.1805
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	168.05	0.1065	-0.1788	0.0317	0.1816
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	184.15	0.1196	-0.2064	0.0410	0.2104
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	188.05	0.1225	-0.2119	0.0442	0.2164
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	199.75	0.1311	-0.2280	0.0462	0.2326
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	240.00	0.1634	-0.3582	0.0934	0.3702
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	244.15	0.167	-0.3668	0.0344	0.3684
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	259.75	0.1756	-0.3918	0.0124	0.392
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	275.85	0.1776	-0.4188	0.0046	0.4188
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	284.15	0.1786	-0.4348	0.0168	0.4351
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	288.05	0.1776	-0.4354	0.0172	0.4358
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	295.85	0.1742	-0.4336	0.0301	0.4346
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	300.00	0.1713	-0.4319	0.0596	0.4358
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	300.25	0.1711	-0.4318	0.0581	0.4355
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	304.15	0.1679	-0.4305	0.0456	0.4329
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	91.95	0.073	-0.1639	0.0244	0.1657
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	99.75	0.0762	-0.1653	0.0124	0.1658
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	148.05	0.0973	-0.1785	0.0184	0.1794
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	155.85	0.0995	-0.1776	0.0185	0.1786
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	168.05	0.1021	-0.1775	0.0244	0.1792
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	184.15	0.1129	-0.2046	0.0315	0.207
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	188.05	0.1153	-0.2099	0.0354	0.2129
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	199.75	0.1219	-0.2255	0.0356	0.2283
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	240.00	0.143	-0.3517	0.0713	0.3588
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	244.15	0.145	-0.3598	0.0116	0.36
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	259.75	0.147	-0.3829	0.0337	0.3834
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	275.85	0.1412	-0.4081	0.0334	0.4092
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	284.15	0.1378	-0.4243	0.0468	0.4267
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	288.05	0.1347	-0.4249	0.0484	0.4277
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	295.85	0.1271	-0.4232	0.0619	0.4277
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	300.00	0.1218	-0.4215	0.0935	0.4314
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	300.25	0.1214	-0.4214	0.0917	0.4311
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	304.15	0.1161	-0.4202	0.0785	0.4274
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	91.95	0.0668	-0.0734	0.0245	0.0773
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	99.75	0.0699	-0.0747	0.0114	0.0755
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	148.05	0.0915	-0.0874	0.0216	0.09
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	155.85	0.0947	-0.0874	0.0228	0.0903
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	168.05	0.0984	-0.0874	0.0266	0.0914

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	184.15	0.1086	-0.1016	0.0343	0.1072
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	188.05	0.1119	-0.1042	0.0385	0.1111
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	199.75	0.1192	-0.1119	0.0350	0.1172
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	240.00	0.1425	-0.1751	0.0759	0.1909
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	244.15	0.1464	-0.1789	0.0258	0.1805
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	259.75	0.1517	-0.1892	0.0183	0.1901
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	275.85	0.1498	-0.2010	0.0226	0.2021
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	284.15	0.1487	-0.2098	0.0334	0.2124
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	288.05	0.1469	-0.2100	0.0345	0.2128
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	295.85	0.142	-0.2086	0.0472	0.2138
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	300.00	0.1384	-0.2075	0.0772	0.2213
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	300.25	0.138	-0.2074	0.0755	0.2207
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	304.15	0.1342	-0.2065	0.0628	0.2158
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	91.95	0.066	0.0027	0.0256	0.0257
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	99.75	0.0692	0.0027	0.0130	0.0133
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	148.05	0.0928	0.0030	0.0247	0.0249
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	155.85	0.0963	0.0030	0.0263	0.0265
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	168.05	0.1006	0.0032	0.0295	0.0297
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	184.15	0.1119	0.0040	0.0374	0.0376
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	188.05	0.1151	0.0043	0.0418	0.042
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	199.75	0.1231	0.0050	0.0355	0.0359
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	240.00	0.15	0.0103	0.0826	0.0832
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	244.15	0.1537	0.0113	0.0332	0.035
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	259.75	0.1614	0.0136	0.0020	0.0137
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	275.85	0.162	0.0155	0.0046	0.0161
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	284.15	0.1622	0.0157	0.0182	0.0238
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	288.05	0.1611	0.0157	0.0178	0.0238
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	295.85	0.1576	0.0157	0.0314	0.0351
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	300.00	0.1546	0.0154	0.0609	0.0627
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	300.25	0.1544	0.0154	0.0594	0.0613
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	304.15	0.1512	0.0154	0.0468	0.0492
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	91.95	0.0732	0.1668	0.0244	0.1686
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	99.75	0.0763	0.1682	0.0125	0.1687
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	148.05	0.0974	0.1816	0.0184	0.1826
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	155.85	0.0996	0.1808	0.0185	0.1817
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	168.05	0.1022	0.1809	0.0245	0.1825
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	184.15	0.113	0.2088	0.0316	0.2111
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	188.05	0.1154	0.2143	0.0355	0.2172
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	199.75	0.1221	0.2306	0.0360	0.2334
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	240.00	0.1434	0.3622	0.0722	0.3694
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	244.15	0.1454	0.3710	0.0118	0.3712
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	259.75	0.1475	0.3963	0.0346	0.3967
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	275.85	0.1417	0.4236	0.0333	0.4246
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	284.15	0.1384	0.4398	0.0467	0.4422
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	288.05	0.1353	0.4405	0.0483	0.4431
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	295.85	0.1277	0.4386	0.0618	0.4429
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	300.00	0.1224	0.4369	0.0935	0.4465
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	300.25	0.122	0.4368	0.0917	0.4461
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	304.15	0.1167	0.4355	0.0785	0.4425
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	91.95	0.0734	0.2088	0.0243	0.2102
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	99.75	0.0765	0.2098	0.0130	0.2102
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	148.05	0.0988	0.2195	0.0213	0.2205
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	155.85	0.1014	0.2180	0.0233	0.2191
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	168.05	0.1046	0.2178	0.0290	0.2197
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	184.15	0.1171	0.2504	0.0374	0.2531
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	188.05	0.1199	0.2569	0.0411	0.2601
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	199.75	0.1278	0.2762	0.0455	0.2799
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	240.00	0.1569	0.4307	0.0876	0.4396
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	244.15	0.1599	0.4409	0.0267	0.4417

ASSET: 2543, Five Points

CODE: ANSI/TIA-222-H

CUSTOMER: T-MOBILE

PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	259.75	0.1661	0.4704	0.0285	0.4706
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	275.85	0.1651	0.5021	0.0227	0.5023
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	284.15	0.1646	0.5212	0.0335	0.5221
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	288.05	0.1628	0.5221	0.0351	0.5233
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	295.85	0.1578	0.5204	0.0475	0.5225
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	300.00	0.154	0.5187	0.0758	0.5241
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	300.25	0.1537	0.5186	0.0743	0.5238
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	304.15	0.1497	0.5173	0.0631	0.5211
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	91.95	0.0714	0.1622	0.0257	0.1642
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	99.75	0.0746	0.1635	0.0137	0.1641
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	148.05	0.0991	0.1764	0.0246	0.1781
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	155.85	0.1022	0.1756	0.0270	0.1773
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	168.05	0.1064	0.1754	0.0316	0.1782
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	184.15	0.1194	0.2022	0.0409	0.2063
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	188.05	0.1224	0.2075	0.0441	0.2121
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	199.75	0.1309	0.2229	0.0457	0.2275
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	240.00	0.163	0.3475	0.0924	0.3596
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	244.15	0.1666	0.3555	0.0343	0.3571
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	259.75	0.1752	0.3783	0.0115	0.3784
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	275.85	0.177	0.4030	0.0044	0.403
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	284.15	0.1781	0.4190	0.0167	0.4193
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	288.05	0.1771	0.4197	0.0171	0.4201
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	295.85	0.1737	0.4179	0.0300	0.419
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	300.00	0.1708	0.4163	0.0596	0.4204
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	300.25	0.1706	0.4162	0.0580	0.4201
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	304.15	0.1674	0.4149	0.0455	0.4174
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	91.95	0.0672	-0.0024	0.0241	0.0242
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	99.75	0.0701	-0.0024	0.0112	0.0114
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	148.05	0.0906	-0.0027	0.0179	0.0181
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	155.85	0.0929	-0.0028	0.0187	0.0189
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	168.05	0.0959	-0.0029	0.0225	0.0227
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	184.15	0.1052	-0.0037	0.0302	0.0305
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	188.05	0.1074	-0.0040	0.0331	0.0333
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	199.75	0.1134	-0.0047	0.0247	0.0251
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	240.00	0.1295	-0.0097	0.0603	0.0611
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	244.15	0.1314	-0.0107	0.0111	0.0154
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	259.75	0.1326	-0.0129	0.0268	0.0295
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	275.85	0.1257	-0.0147	0.0336	0.0366
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	284.15	0.1217	-0.0149	0.0467	0.0489
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	288.05	0.1186	-0.0149	0.0476	0.0499
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	295.85	0.1109	-0.0149	0.0618	0.0636
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	300.00	0.1057	-0.0146	0.0940	0.0951
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	300.25	0.1053	-0.0146	0.0922	0.0933
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	304.15	0.0999	-0.0146	0.0785	0.0798
1.2D + 1.0Ev + 1.0Eh 330° Seismic	91.95	0.0028	0.0000	0.0027	0.0027
1.2D + 1.0Ev + 1.0Eh 330° Seismic	99.75	0.0031	0.0000	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 330° Seismic	148.05	0.0064	0.0000	0.0045	0.0045
1.2D + 1.0Ev + 1.0Eh 330° Seismic	155.85	0.007	0.0000	0.0062	0.0062
1.2D + 1.0Ev + 1.0Eh 330° Seismic	168.05	0.0082	0.0000	0.0071	0.0071
1.2D + 1.0Ev + 1.0Eh 330° Seismic	184.15	0.0105	0.0000	0.0090	0.009
1.2D + 1.0Ev + 1.0Eh 330° Seismic	188.05	0.0111	0.0000	0.0092	0.0092
1.2D + 1.0Ev + 1.0Eh 330° Seismic	199.75	0.0129	0.0000	0.0099	0.0099
1.2D + 1.0Ev + 1.0Eh 330° Seismic	240.00	0.0207	0.0000	0.0183	0.0183
1.2D + 1.0Ev + 1.0Eh 330° Seismic	244.15	0.0217	0.0001	0.0119	0.0119
1.2D + 1.0Ev + 1.0Eh 330° Seismic	259.75	0.0247	0.0001	0.0082	0.0082
1.2D + 1.0Ev + 1.0Eh 330° Seismic	275.85	0.027	0.0000	0.0098	0.0098
1.2D + 1.0Ev + 1.0Eh 330° Seismic	284.15	0.0283	0.0001	0.0066	0.0066
1.2D + 1.0Ev + 1.0Eh 330° Seismic	288.05	0.0288	0.0001	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 330° Seismic	295.85	0.0295	0.0001	0.0049	0.0049

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh 330° Seismic	300.00	0.0298	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 330° Seismic	300.25	0.0298	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 330° Seismic	304.15	0.0299	0.0001	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 300° Seismic	91.95	0.0028	0.0000	0.0026	0.0026
1.2D + 1.0Ev + 1.0Eh 300° Seismic	99.75	0.003	0.0000	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 300° Seismic	148.05	0.0063	0.0000	0.0046	0.0046
1.2D + 1.0Ev + 1.0Eh 300° Seismic	155.85	0.0069	0.0000	0.0063	0.0063
1.2D + 1.0Ev + 1.0Eh 300° Seismic	168.05	0.0081	0.0000	0.0071	0.0071
1.2D + 1.0Ev + 1.0Eh 300° Seismic	184.15	0.0104	0.0000	0.0087	0.0087
1.2D + 1.0Ev + 1.0Eh 300° Seismic	188.05	0.011	0.0000	0.0092	0.0092
1.2D + 1.0Ev + 1.0Eh 300° Seismic	199.75	0.0128	0.0000	0.0095	0.0095
1.2D + 1.0Ev + 1.0Eh 300° Seismic	240.00	0.0205	0.0000	0.0177	0.0177
1.2D + 1.0Ev + 1.0Eh 300° Seismic	244.15	0.0215	0.0000	0.0118	0.0118
1.2D + 1.0Ev + 1.0Eh 300° Seismic	259.75	0.0245	0.0001	0.0081	0.0081
1.2D + 1.0Ev + 1.0Eh 300° Seismic	275.85	0.0268	0.0000	0.0100	0.01
1.2D + 1.0Ev + 1.0Eh 300° Seismic	284.15	0.0281	0.0001	0.0066	0.0066
1.2D + 1.0Ev + 1.0Eh 300° Seismic	288.05	0.0286	0.0001	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 300° Seismic	295.85	0.0293	0.0001	0.0049	0.0049
1.2D + 1.0Ev + 1.0Eh 300° Seismic	300.00	0.0295	0.0001	0.0012	0.0012
1.2D + 1.0Ev + 1.0Eh 300° Seismic	300.25	0.0296	0.0001	0.0013	0.0013
1.2D + 1.0Ev + 1.0Eh 300° Seismic	304.15	0.0297	0.0001	0.0022	0.0022
1.2D + 1.0Ev + 1.0Eh 240° Seismic	91.95	0.0029	0.0000	0.0028	0.0028
1.2D + 1.0Ev + 1.0Eh 240° Seismic	99.75	0.0031	0.0000	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 240° Seismic	148.05	0.0062	0.0000	0.0051	0.0051
1.2D + 1.0Ev + 1.0Eh 240° Seismic	155.85	0.0071	0.0000	0.0060	0.006
1.2D + 1.0Ev + 1.0Eh 240° Seismic	168.05	0.0083	0.0000	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 240° Seismic	184.15	0.0104	0.0000	0.0082	0.0082
1.2D + 1.0Ev + 1.0Eh 240° Seismic	188.05	0.0112	0.0000	0.0092	0.0092
1.2D + 1.0Ev + 1.0Eh 240° Seismic	199.75	0.013	0.0000	0.0101	0.0101
1.2D + 1.0Ev + 1.0Eh 240° Seismic	240.00	0.0208	0.0000	0.0180	0.018
1.2D + 1.0Ev + 1.0Eh 240° Seismic	244.15	0.0219	0.0000	0.0120	0.012
1.2D + 1.0Ev + 1.0Eh 240° Seismic	259.75	0.0249	0.0001	0.0083	0.0083
1.2D + 1.0Ev + 1.0Eh 240° Seismic	275.85	0.0272	0.0000	0.0094	0.0094
1.2D + 1.0Ev + 1.0Eh 240° Seismic	284.15	0.0285	0.0001	0.0066	0.0066
1.2D + 1.0Ev + 1.0Eh 240° Seismic	288.05	0.029	0.0001	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 240° Seismic	295.85	0.0297	0.0001	0.0049	0.0049
1.2D + 1.0Ev + 1.0Eh 240° Seismic	300.00	0.03	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 240° Seismic	300.25	0.03	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 240° Seismic	304.15	0.0302	0.0001	0.0024	0.0024
1.2D + 1.0Ev + 1.0Eh 210° Seismic	91.95	0.0028	0.0000	0.0027	0.0027
1.2D + 1.0Ev + 1.0Eh 210° Seismic	99.75	0.0031	0.0000	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 210° Seismic	148.05	0.0061	0.0000	0.0052	0.0052
1.2D + 1.0Ev + 1.0Eh 210° Seismic	155.85	0.007	0.0000	0.0062	0.0062
1.2D + 1.0Ev + 1.0Eh 210° Seismic	168.05	0.0082	0.0000	0.0071	0.0071
1.2D + 1.0Ev + 1.0Eh 210° Seismic	184.15	0.0102	0.0000	0.0078	0.0078
1.2D + 1.0Ev + 1.0Eh 210° Seismic	188.05	0.0111	0.0000	0.0092	0.0092
1.2D + 1.0Ev + 1.0Eh 210° Seismic	199.75	0.0129	0.0000	0.0099	0.0099
1.2D + 1.0Ev + 1.0Eh 210° Seismic	240.00	0.0206	0.0000	0.0186	0.0186
1.2D + 1.0Ev + 1.0Eh 210° Seismic	244.15	0.0217	0.0001	0.0119	0.0119
1.2D + 1.0Ev + 1.0Eh 210° Seismic	259.75	0.0247	0.0001	0.0082	0.0082
1.2D + 1.0Ev + 1.0Eh 210° Seismic	275.85	0.027	0.0000	0.0098	0.0098
1.2D + 1.0Ev + 1.0Eh 210° Seismic	284.15	0.0283	0.0001	0.0066	0.0066
1.2D + 1.0Ev + 1.0Eh 210° Seismic	288.05	0.0288	0.0001	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 210° Seismic	295.85	0.0295	0.0001	0.0049	0.0049
1.2D + 1.0Ev + 1.0Eh 210° Seismic	300.00	0.0298	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 210° Seismic	300.25	0.0298	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 210° Seismic	304.15	0.0299	0.0001	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 180° Seismic	91.95	0.0028	0.0000	0.0026	0.0026
1.2D + 1.0Ev + 1.0Eh 180° Seismic	99.75	0.003	0.0000	0.0023	0.0023

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh 180° Seismic	148.05	0.006	0.0000	0.0052	0.0052
1.2D + 1.0Ev + 1.0Eh 180° Seismic	155.85	0.0069	0.0000	0.0063	0.0063
1.2D + 1.0Ev + 1.0Eh 180° Seismic	168.05	0.0081	0.0000	0.0071	0.0071
1.2D + 1.0Ev + 1.0Eh 180° Seismic	184.15	0.0102	0.0000	0.0077	0.0077
1.2D + 1.0Ev + 1.0Eh 180° Seismic	188.05	0.011	0.0000	0.0092	0.0092
1.2D + 1.0Ev + 1.0Eh 180° Seismic	199.75	0.0128	0.0000	0.0095	0.0095
1.2D + 1.0Ev + 1.0Eh 180° Seismic	240.00	0.0205	0.0000	0.0188	0.0188
1.2D + 1.0Ev + 1.0Eh 180° Seismic	244.15	0.0215	0.0000	0.0118	0.0118
1.2D + 1.0Ev + 1.0Eh 180° Seismic	259.75	0.0245	0.0001	0.0081	0.0081
1.2D + 1.0Ev + 1.0Eh 180° Seismic	275.85	0.0268	0.0000	0.0100	0.01
1.2D + 1.0Ev + 1.0Eh 180° Seismic	284.15	0.0281	0.0001	0.0066	0.0066
1.2D + 1.0Ev + 1.0Eh 180° Seismic	288.05	0.0286	0.0001	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 180° Seismic	295.85	0.0293	0.0001	0.0049	0.0049
1.2D + 1.0Ev + 1.0Eh 180° Seismic	300.00	0.0295	0.0001	0.0012	0.0012
1.2D + 1.0Ev + 1.0Eh 180° Seismic	300.25	0.0296	0.0001	0.0013	0.0013
1.2D + 1.0Ev + 1.0Eh 180° Seismic	304.15	0.0297	0.0001	0.0022	0.0022
1.2D + 1.0Ev + 1.0Eh 120° Seismic	91.95	0.0029	0.0000	0.0028	0.0028
1.2D + 1.0Ev + 1.0Eh 120° Seismic	99.75	0.0031	0.0000	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 120° Seismic	148.05	0.0062	0.0000	0.0051	0.0051
1.2D + 1.0Ev + 1.0Eh 120° Seismic	155.85	0.0071	0.0000	0.0060	0.006
1.2D + 1.0Ev + 1.0Eh 120° Seismic	168.05	0.0083	0.0000	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 120° Seismic	184.15	0.0104	0.0000	0.0082	0.0082
1.2D + 1.0Ev + 1.0Eh 120° Seismic	188.05	0.0112	0.0000	0.0092	0.0092
1.2D + 1.0Ev + 1.0Eh 120° Seismic	199.75	0.013	0.0000	0.0101	0.0101
1.2D + 1.0Ev + 1.0Eh 120° Seismic	240.00	0.0208	0.0000	0.0180	0.018
1.2D + 1.0Ev + 1.0Eh 120° Seismic	244.15	0.0219	0.0000	0.0120	0.012
1.2D + 1.0Ev + 1.0Eh 120° Seismic	259.75	0.0249	0.0001	0.0083	0.0083
1.2D + 1.0Ev + 1.0Eh 120° Seismic	275.85	0.0272	0.0000	0.0094	0.0094
1.2D + 1.0Ev + 1.0Eh 120° Seismic	284.15	0.0285	0.0001	0.0066	0.0066
1.2D + 1.0Ev + 1.0Eh 120° Seismic	288.05	0.029	0.0001	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 120° Seismic	295.85	0.0297	0.0001	0.0049	0.0049
1.2D + 1.0Ev + 1.0Eh 120° Seismic	300.00	0.03	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 120° Seismic	300.25	0.03	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 120° Seismic	304.15	0.0302	0.0001	0.0024	0.0024
1.2D + 1.0Ev + 1.0Eh 90° Seismic	91.95	0.0028	0.0000	0.0027	0.0027
1.2D + 1.0Ev + 1.0Eh 90° Seismic	99.75	0.0031	0.0000	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 90° Seismic	148.05	0.0062	0.0000	0.0048	0.0048
1.2D + 1.0Ev + 1.0Eh 90° Seismic	155.85	0.007	0.0000	0.0062	0.0062
1.2D + 1.0Ev + 1.0Eh 90° Seismic	168.05	0.0082	0.0000	0.0071	0.0071
1.2D + 1.0Ev + 1.0Eh 90° Seismic	184.15	0.0104	0.0000	0.0085	0.0085
1.2D + 1.0Ev + 1.0Eh 90° Seismic	188.05	0.0111	0.0000	0.0092	0.0092
1.2D + 1.0Ev + 1.0Eh 90° Seismic	199.75	0.0129	0.0000	0.0099	0.0099
1.2D + 1.0Ev + 1.0Eh 90° Seismic	240.00	0.0207	0.0000	0.0176	0.0176
1.2D + 1.0Ev + 1.0Eh 90° Seismic	244.15	0.0217	0.0001	0.0119	0.0119
1.2D + 1.0Ev + 1.0Eh 90° Seismic	259.75	0.0247	0.0001	0.0082	0.0082
1.2D + 1.0Ev + 1.0Eh 90° Seismic	275.85	0.027	0.0000	0.0098	0.0098
1.2D + 1.0Ev + 1.0Eh 90° Seismic	284.15	0.0283	0.0001	0.0066	0.0066
1.2D + 1.0Ev + 1.0Eh 90° Seismic	288.05	0.0288	0.0001	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 90° Seismic	295.85	0.0295	0.0001	0.0049	0.0049
1.2D + 1.0Ev + 1.0Eh 90° Seismic	300.00	0.0298	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 90° Seismic	300.25	0.0298	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh 90° Seismic	304.15	0.0299	0.0001	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 60° Seismic	91.95	0.0028	0.0000	0.0026	0.0026
1.2D + 1.0Ev + 1.0Eh 60° Seismic	99.75	0.003	0.0000	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh 60° Seismic	148.05	0.0063	0.0000	0.0046	0.0046
1.2D + 1.0Ev + 1.0Eh 60° Seismic	155.85	0.0069	0.0000	0.0063	0.0063
1.2D + 1.0Ev + 1.0Eh 60° Seismic	168.05	0.0081	0.0000	0.0071	0.0071
1.2D + 1.0Ev + 1.0Eh 60° Seismic	184.15	0.0104	0.0000	0.0087	0.0087
1.2D + 1.0Ev + 1.0Eh 60° Seismic	188.05	0.011	0.0000	0.0092	0.0092

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh 60° Seismic	199.75	0.0128	0.0000	0.0095	0.0095
1.2D + 1.0Ev + 1.0Eh 60° Seismic	240.00	0.0205	0.0000	0.0177	0.0177
1.2D + 1.0Ev + 1.0Eh 60° Seismic	244.15	0.0215	0.0000	0.0118	0.0118
1.2D + 1.0Ev + 1.0Eh 60° Seismic	259.75	0.0245	0.0001	0.0081	0.0081
1.2D + 1.0Ev + 1.0Eh 60° Seismic	275.85	0.0268	0.0000	0.0100	0.01
1.2D + 1.0Ev + 1.0Eh 60° Seismic	284.15	0.0281	0.0001	0.0066	0.0066
1.2D + 1.0Ev + 1.0Eh 60° Seismic	288.05	0.0286	0.0001	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh 60° Seismic	295.85	0.0293	0.0001	0.0049	0.0049
1.2D + 1.0Ev + 1.0Eh 60° Seismic	300.00	0.0295	0.0001	0.0012	0.0012
1.2D + 1.0Ev + 1.0Eh 60° Seismic	300.25	0.0296	0.0001	0.0013	0.0013
1.2D + 1.0Ev + 1.0Eh 60° Seismic	304.15	0.0297	0.0001	0.0022	0.0022
1.2D + 1.0Ev + 1.0Eh Normal Seismic	91.95	0.0029	0.0000	0.0028	0.0028
1.2D + 1.0Ev + 1.0Eh Normal Seismic	99.75	0.0031	0.0000	0.0023	0.0023
1.2D + 1.0Ev + 1.0Eh Normal Seismic	148.05	0.0064	0.0000	0.0045	0.0045
1.2D + 1.0Ev + 1.0Eh Normal Seismic	155.85	0.0071	0.0000	0.0060	0.006
1.2D + 1.0Ev + 1.0Eh Normal Seismic	168.05	0.0083	0.0000	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh Normal Seismic	184.15	0.0106	0.0000	0.0091	0.0091
1.2D + 1.0Ev + 1.0Eh Normal Seismic	188.05	0.0112	0.0000	0.0092	0.0092
1.2D + 1.0Ev + 1.0Eh Normal Seismic	199.75	0.013	0.0000	0.0101	0.0101
1.2D + 1.0Ev + 1.0Eh Normal Seismic	240.00	0.0209	0.0000	0.0187	0.0187
1.2D + 1.0Ev + 1.0Eh Normal Seismic	244.15	0.0219	0.0000	0.0120	0.012
1.2D + 1.0Ev + 1.0Eh Normal Seismic	259.75	0.0249	0.0001	0.0083	0.0083
1.2D + 1.0Ev + 1.0Eh Normal Seismic	275.85	0.0272	0.0000	0.0094	0.0094
1.2D + 1.0Ev + 1.0Eh Normal Seismic	284.15	0.0285	0.0001	0.0066	0.0066
1.2D + 1.0Ev + 1.0Eh Normal Seismic	288.05	0.029	0.0001	0.0070	0.007
1.2D + 1.0Ev + 1.0Eh Normal Seismic	295.85	0.0297	0.0001	0.0049	0.0049
1.2D + 1.0Ev + 1.0Eh Normal Seismic	300.00	0.03	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh Normal Seismic	300.25	0.03	0.0001	0.0014	0.0014
1.2D + 1.0Ev + 1.0Eh Normal Seismic	304.15	0.0302	0.0001	0.0024	0.0024
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	91.95	0.0179	-0.0125	0.0060	0.0139
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	99.75	0.0187	-0.0131	0.0020	0.0132
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	148.05	0.0233	-0.0178	0.0045	0.0184
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	155.85	0.0243	-0.0179	0.0060	0.0189
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	168.05	0.0252	-0.0180	0.0068	0.0192
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	184.15	0.0275	-0.0215	0.0094	0.0235
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	188.05	0.0286	-0.0222	0.0100	0.0243
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	199.75	0.0304	-0.0240	0.0090	0.0256
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	240.00	0.0354	-0.0395	0.0179	0.0434
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	244.15	0.0365	-0.0405	0.0050	0.0408
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	259.75	0.0374	-0.0432	0.0060	0.0435
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	275.85	0.0362	-0.0464	0.0082	0.0471
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	284.15	0.0354	-0.0483	0.0102	0.0492
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	288.05	0.0348	-0.0482	0.0106	0.0493
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	295.85	0.033	-0.0476	0.0141	0.0496
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	300.00	0.0319	-0.0471	0.0224	0.0521
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	300.25	0.0318	-0.0471	0.0219	0.0519
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	304.15	0.0305	-0.0468	0.0182	0.0502
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	91.95	0.0186	-0.0309	0.0061	0.0315
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	99.75	0.0193	-0.0315	0.0025	0.0316
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	148.05	0.0246	-0.0367	0.0047	0.037
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	155.85	0.0252	-0.0367	0.0063	0.0371
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	168.05	0.0259	-0.0367	0.0069	0.0374
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	184.15	0.029	-0.0434	0.0098	0.0445
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	188.05	0.0297	-0.0446	0.0103	0.0458
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	199.75	0.0317	-0.0484	0.0110	0.0496
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	240.00	0.0385	-0.0789	0.0208	0.0816
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	244.15	0.0393	-0.0808	0.0061	0.0811
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	259.75	0.0405	-0.0865	0.0060	0.0865
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	275.85	0.0398	-0.0927	0.0067	0.0928

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	284.15	0.0393	-0.0964	0.0091	0.0968
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	288.05	0.0388	-0.0965	0.0094	0.0969
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	295.85	0.0372	-0.0958	0.0128	0.0967
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	300.00	0.0361	-0.0952	0.0206	0.0974
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	300.25	0.036	-0.0952	0.0203	0.0973
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	304.15	0.0348	-0.0949	0.0167	0.0963
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	91.95	0.0192	-0.0287	0.0064	0.0293
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	99.75	0.0201	-0.0294	0.0029	0.0295
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	148.05	0.0253	-0.0351	0.0047	0.0354
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	155.85	0.0259	-0.0350	0.0051	0.0354
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	168.05	0.0265	-0.0350	0.0066	0.0357
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	184.15	0.0294	-0.0413	0.0084	0.0422
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	188.05	0.0301	-0.0425	0.0098	0.0436
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	199.75	0.0319	-0.0460	0.0096	0.0469
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	240.00	0.038	-0.0741	0.0191	0.0765
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	244.15	0.0385	-0.0758	0.0041	0.0759
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	259.75	0.0393	-0.0805	0.0071	0.0807
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	275.85	0.0379	-0.0859	0.0096	0.0864
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	284.15	0.0371	-0.0896	0.0112	0.0903
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	288.05	0.0364	-0.0896	0.0119	0.0904
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	295.85	0.0345	-0.0888	0.0152	0.0901
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	300.00	0.0332	-0.0882	0.0234	0.0912
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	300.25	0.0331	-0.0882	0.0228	0.0911
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	304.15	0.0318	-0.0878	0.0195	0.09
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	91.95	0.0182	-0.0118	0.0063	0.0134
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	99.75	0.0191	-0.0124	0.0023	0.0126
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	148.05	0.0241	-0.0169	0.0046	0.0175
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	155.85	0.0246	-0.0170	0.0052	0.0178
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	168.05	0.0253	-0.0170	0.0062	0.0181
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	184.15	0.0279	-0.0202	0.0076	0.0216
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	188.05	0.0285	-0.0208	0.0095	0.0229
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	199.75	0.0303	-0.0224	0.0090	0.0241
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	240.00	0.0357	-0.0358	0.0179	0.04
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	244.15	0.0362	-0.0365	0.0044	0.0368
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	259.75	0.0369	-0.0384	0.0058	0.0388
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	275.85	0.0355	-0.0407	0.0092	0.0417
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	284.15	0.0347	-0.0426	0.0113	0.0441
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	288.05	0.0339	-0.0426	0.0114	0.0441
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	295.85	0.0321	-0.0420	0.0150	0.0446
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	300.00	0.0308	-0.0416	0.0229	0.0475
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	300.25	0.0307	-0.0416	0.0224	0.0472
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	304.15	0.0294	-0.0413	0.0189	0.0454
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	91.95	0.018	0.0004	0.0062	0.0062
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	99.75	0.0189	0.0004	0.0022	0.0022
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	148.05	0.0238	0.0005	0.0047	0.0047
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	155.85	0.0243	0.0005	0.0055	0.0055
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	168.05	0.0252	0.0006	0.0062	0.0062
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	184.15	0.0276	0.0008	0.0075	0.0076
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	188.05	0.0283	0.0008	0.0095	0.0096
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	199.75	0.0301	0.0010	0.0084	0.0085
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	240.00	0.0355	0.0022	0.0180	0.0181
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	244.15	0.036	0.0024	0.0049	0.0055
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	259.75	0.0368	0.0030	0.0048	0.0055
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	275.85	0.0356	0.0034	0.0077	0.0083
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	284.15	0.0348	0.0034	0.0108	0.0113
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	288.05	0.0341	0.0034	0.0107	0.0112
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	295.85	0.0324	0.0034	0.0142	0.0146
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	300.00	0.0312	0.0033	0.0218	0.022
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	300.25	0.0311	0.0033	0.0215	0.0217

ASSET: 2543, Five Points

CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H

PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	304.15	0.0298	0.0033	0.0180	0.0183
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	91.95	0.0193	0.0291	0.0064	0.0298
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	99.75	0.0201	0.0298	0.0029	0.03
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	148.05	0.0253	0.0356	0.0047	0.0359
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	155.85	0.0259	0.0356	0.0051	0.036
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	168.05	0.0266	0.0357	0.0066	0.0363
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	184.15	0.0294	0.0422	0.0084	0.043
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	188.05	0.0301	0.0434	0.0099	0.0445
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	199.75	0.032	0.0470	0.0097	0.048
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	240.00	0.038	0.0763	0.0194	0.0788
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	244.15	0.0386	0.0782	0.0041	0.0783
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	259.75	0.0394	0.0835	0.0073	0.0836
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	275.85	0.0381	0.0894	0.0095	0.0898
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	284.15	0.0373	0.0930	0.0112	0.0937
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	288.05	0.0365	0.0930	0.0118	0.0938
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	295.85	0.0347	0.0922	0.0152	0.0935
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	300.00	0.0334	0.0916	0.0233	0.0944
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	300.25	0.0333	0.0916	0.0228	0.0943
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	304.15	0.0319	0.0912	0.0194	0.0932
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	91.95	0.0194	0.0410	0.0061	0.0414
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	99.75	0.0201	0.0415	0.0027	0.0416
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	148.05	0.0253	0.0457	0.0046	0.0459
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	155.85	0.0259	0.0455	0.0059	0.0457
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	168.05	0.0265	0.0454	0.0069	0.046
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	184.15	0.0296	0.0534	0.0094	0.0542
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	188.05	0.0303	0.0549	0.0104	0.0559
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	199.75	0.0323	0.0595	0.0115	0.0606
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	240.00	0.0394	0.0965	0.0213	0.0988
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	244.15	0.0401	0.0988	0.0055	0.099
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	259.75	0.0413	0.1057	0.0064	0.1057
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	275.85	0.0404	0.1132	0.0082	0.1134
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	284.15	0.04	0.1177	0.0099	0.1181
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	288.05	0.0393	0.1179	0.0104	0.1183
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	295.85	0.0377	0.1173	0.0137	0.1181
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	300.00	0.0365	0.1168	0.0212	0.1187
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	300.25	0.0364	0.1168	0.0209	0.1186
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	304.15	0.0352	0.1164	0.0179	0.1178
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	91.95	0.0186	0.0304	0.0061	0.031
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	99.75	0.0193	0.0310	0.0024	0.0311
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	148.05	0.0245	0.0361	0.0047	0.0364
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	155.85	0.0252	0.0360	0.0063	0.0365
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	168.05	0.0259	0.0361	0.0069	0.0367
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	184.15	0.0289	0.0425	0.0098	0.0436
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	188.05	0.0296	0.0437	0.0103	0.0449
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	199.75	0.0316	0.0473	0.0109	0.0486
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	240.00	0.0384	0.0765	0.0205	0.0792
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	244.15	0.0391	0.0783	0.0061	0.0785
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	259.75	0.0404	0.0834	0.0058	0.0834
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	275.85	0.0397	0.0891	0.0066	0.0893
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	284.15	0.0392	0.0928	0.0091	0.0932
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	288.05	0.0387	0.0929	0.0093	0.0934
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	295.85	0.0371	0.0923	0.0127	0.0932
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	300.00	0.036	0.0917	0.0206	0.094
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	300.25	0.0359	0.0917	0.0202	0.0939
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	304.15	0.0348	0.0914	0.0167	0.0929
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	91.95	0.0179	-0.0004	0.0061	0.0061
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	99.75	0.0187	-0.0004	0.0021	0.0022
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	148.05	0.0233	-0.0005	0.0044	0.0044
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	155.85	0.0243	-0.0005	0.0055	0.0056

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	168.05	0.0251	-0.0006	0.0065	0.0065
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	184.15	0.0274	-0.0008	0.0092	0.0092
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	188.05	0.0285	-0.0008	0.0096	0.0096
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	199.75	0.0302	-0.0010	0.0080	0.0081
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	240.00	0.0346	-0.0022	0.0168	0.0169
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	244.15	0.0357	-0.0024	0.0044	0.005
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	259.75	0.0364	-0.0030	0.0064	0.007
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	275.85	0.0349	-0.0034	0.0091	0.0097
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	284.15	0.034	-0.0034	0.0105	0.0111
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	288.05	0.0333	-0.0034	0.0111	0.0116
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	295.85	0.0315	-0.0034	0.0147	0.0151
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	300.00	0.0303	-0.0033	0.0232	0.0235
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	300.25	0.0302	-0.0033	0.0227	0.0229
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	304.15	0.0289	-0.0033	0.0190	0.0193
1.2D + 1.0W 330° 119 mph Wind with No Ice	91.95	0.365	-0.3816	0.1934	0.4278
1.2D + 1.0W 330° 119 mph Wind with No Ice	99.75	0.3911	-0.3811	0.1503	0.4096
1.2D + 1.0W 330° 119 mph Wind with No Ice	148.05	0.5805	-0.4457	0.2270	0.5002
1.2D + 1.0W 330° 119 mph Wind with No Ice	155.85	0.6157	-0.4414	0.2293	0.4948
1.2D + 1.0W 330° 119 mph Wind with No Ice	168.05	0.6552	-0.4159	0.2820	0.5025
1.2D + 1.0W 330° 119 mph Wind with No Ice	184.15	0.7458	-0.5719	0.3076	0.6493
1.2D + 1.0W 330° 119 mph Wind with No Ice	188.05	0.7742	-0.5874	0.3043	0.6608
1.2D + 1.0W 330° 119 mph Wind with No Ice	199.75	0.8351	-0.6069	0.2884	0.6716
1.2D + 1.0W 330° 119 mph Wind with No Ice	240.00	1.0481	-1.0803	0.5173	1.1978
1.2D + 1.0W 330° 119 mph Wind with No Ice	244.15	1.0853	-1.1024	0.2582	1.1307
1.2D + 1.0W 330° 119 mph Wind with No Ice	259.75	1.1484	-1.1226	0.1250	1.1295
1.2D + 1.0W 330° 119 mph Wind with No Ice	275.85	1.1871	-1.2138	0.1693	1.2255
1.2D + 1.0W 330° 119 mph Wind with No Ice	284.15	1.2065	-1.2812	0.0454	1.2817
1.2D + 1.0W 330° 119 mph Wind with No Ice	288.05	1.2093	-1.2796	0.0378	1.2801
1.2D + 1.0W 330° 119 mph Wind with No Ice	295.85	1.2087	-1.2672	0.0275	1.2675
1.2D + 1.0W 330° 119 mph Wind with No Ice	300.00	1.204	-1.2579	0.1506	1.2668
1.2D + 1.0W 330° 119 mph Wind with No Ice	300.25	1.2033	-1.2572	0.1442	1.2655
1.2D + 1.0W 330° 119 mph Wind with No Ice	304.15	1.197	-1.2496	0.0877	1.2527
1.2D + 1.0W 300° 119 mph Wind with No Ice	91.95	0.3273	-0.6893	0.1416	0.7037
1.2D + 1.0W 300° 119 mph Wind with No Ice	99.75	0.346	-0.6963	0.0971	0.703
1.2D + 1.0W 300° 119 mph Wind with No Ice	148.05	0.4937	-0.8647	0.1564	0.8787
1.2D + 1.0W 300° 119 mph Wind with No Ice	155.85	0.5142	-0.8583	0.1651	0.8725
1.2D + 1.0W 300° 119 mph Wind with No Ice	168.05	0.5355	-0.8579	0.2029	0.8775
1.2D + 1.0W 300° 119 mph Wind with No Ice	184.15	0.6158	-1.0632	0.2404	1.09
1.2D + 1.0W 300° 119 mph Wind with No Ice	188.05	0.6318	-1.0858	0.2306	1.1092
1.2D + 1.0W 300° 119 mph Wind with No Ice	199.75	0.6779	-1.1254	0.2277	1.1482
1.2D + 1.0W 300° 119 mph Wind with No Ice	240.00	0.8744	-1.9248	0.5068	1.9904
1.2D + 1.0W 300° 119 mph Wind with No Ice	244.15	0.8948	-1.9557	0.2254	1.9677
1.2D + 1.0W 300° 119 mph Wind with No Ice	259.75	0.9529	-2.0032	0.1228	2.007
1.2D + 1.0W 300° 119 mph Wind with No Ice	275.85	0.9905	-2.1280	0.1653	2.1335
1.2D + 1.0W 300° 119 mph Wind with No Ice	284.15	1.018	-2.2660	0.0760	2.2668
1.2D + 1.0W 300° 119 mph Wind with No Ice	288.05	1.0216	-2.2705	0.0489	2.2708
1.2D + 1.0W 300° 119 mph Wind with No Ice	295.85	1.0229	-2.2546	0.0093	2.2546
1.2D + 1.0W 300° 119 mph Wind with No Ice	300.00	1.0194	-2.2411	0.1252	2.2446
1.2D + 1.0W 300° 119 mph Wind with No Ice	300.25	1.0188	-2.2401	0.1194	2.2433
1.2D + 1.0W 300° 119 mph Wind with No Ice	304.15	1.0139	-2.2290	0.0683	2.2301
1.2D + 1.0W 240° 119 mph Wind with No Ice	91.95	0.4374	-0.6313	0.2229	0.6695
1.2D + 1.0W 240° 119 mph Wind with No Ice	99.75	0.4674	-0.6410	0.1767	0.6649
1.2D + 1.0W 240° 119 mph Wind with No Ice	148.05	0.6841	-0.7298	0.2532	0.7725
1.2D + 1.0W 240° 119 mph Wind with No Ice	155.85	0.7184	-0.7244	0.2591	0.7647
1.2D + 1.0W 240° 119 mph Wind with No Ice	168.05	0.7618	-0.7219	0.3176	0.7887
1.2D + 1.0W 240° 119 mph Wind with No Ice	184.15	0.8761	-0.9532	0.3559	1.0174
1.2D + 1.0W 240° 119 mph Wind with No Ice	188.05	0.8997	-0.9700	0.3454	1.0292
1.2D + 1.0W 240° 119 mph Wind with No Ice	199.75	0.9696	-1.0082	0.3468	1.0662
1.2D + 1.0W 240° 119 mph Wind with No Ice	240.00	1.2334	-1.7382	0.5131	1.8123

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 240° 119 mph Wind with No Ice	244.15	1.2583	-1.7627	0.2865	1.7855
1.2D + 1.0W 240° 119 mph Wind with No Ice	259.75	1.33	-1.8060	0.1595	1.8131
1.2D + 1.0W 240° 119 mph Wind with No Ice	275.85	1.3747	-1.9229	0.1870	1.932
1.2D + 1.0W 240° 119 mph Wind with No Ice	284.15	1.3975	-2.0173	0.0509	2.0179
1.2D + 1.0W 240° 119 mph Wind with No Ice	288.05	1.4005	-2.0153	0.0417	2.0155
1.2D + 1.0W 240° 119 mph Wind with No Ice	295.85	1.4001	-1.9983	0.0235	1.9984
1.2D + 1.0W 240° 119 mph Wind with No Ice	300.00	1.3952	-1.9854	0.1559	1.9915
1.2D + 1.0W 240° 119 mph Wind with No Ice	300.25	1.3945	-1.9845	0.1497	1.9901
1.2D + 1.0W 240° 119 mph Wind with No Ice	304.15	1.3879	-1.9741	0.0913	1.9762
1.2D + 1.0W 210° 119 mph Wind with No Ice	91.95	0.3657	-0.3809	0.1939	0.4274
1.2D + 1.0W 210° 119 mph Wind with No Ice	99.75	0.3919	-0.3804	0.1508	0.4092
1.2D + 1.0W 210° 119 mph Wind with No Ice	148.05	0.586	-0.4455	0.2255	0.4993
1.2D + 1.0W 210° 119 mph Wind with No Ice	155.85	0.6165	-0.4416	0.2283	0.4937
1.2D + 1.0W 210° 119 mph Wind with No Ice	168.05	0.6555	-0.4129	0.2808	0.4994
1.2D + 1.0W 210° 119 mph Wind with No Ice	184.15	0.7538	-0.5744	0.3088	0.6522
1.2D + 1.0W 210° 119 mph Wind with No Ice	188.05	0.7743	-0.5837	0.3041	0.6571
1.2D + 1.0W 210° 119 mph Wind with No Ice	199.75	0.8349	-0.6011	0.2868	0.6657
1.2D + 1.0W 210° 119 mph Wind with No Ice	240.00	1.062	-1.0652	0.4531	1.1576
1.2D + 1.0W 210° 119 mph Wind with No Ice	244.15	1.0837	-1.0776	0.2574	1.1061
1.2D + 1.0W 210° 119 mph Wind with No Ice	259.75	1.1462	-1.0869	0.1204	1.0935
1.2D + 1.0W 210° 119 mph Wind with No Ice	275.85	1.1839	-1.1693	0.1569	1.1797
1.2D + 1.0W 210° 119 mph Wind with No Ice	284.15	1.207	-1.2850	0.0562	1.2862
1.2D + 1.0W 210° 119 mph Wind with No Ice	288.05	1.2092	-1.2872	0.0346	1.2876
1.2D + 1.0W 210° 119 mph Wind with No Ice	295.85	1.2083	-1.2754	0.0298	1.2758
1.2D + 1.0W 210° 119 mph Wind with No Ice	300.00	1.2034	-1.2660	0.1527	1.2752
1.2D + 1.0W 210° 119 mph Wind with No Ice	300.25	1.2027	-1.2654	0.1464	1.2738
1.2D + 1.0W 210° 119 mph Wind with No Ice	304.15	1.1962	-1.2577	0.0900	1.2609
1.2D + 1.0W 180° 119 mph Wind with No Ice	91.95	0.3044	0.0136	0.1403	0.1409
1.2D + 1.0W 180° 119 mph Wind with No Ice	99.75	0.3228	0.0135	0.0932	0.0941
1.2D + 1.0W 180° 119 mph Wind with No Ice	148.05	0.4601	0.0146	0.1556	0.1563
1.2D + 1.0W 180° 119 mph Wind with No Ice	155.85	0.4815	0.0150	0.1648	0.1654
1.2D + 1.0W 180° 119 mph Wind with No Ice	168.05	0.5076	0.0182	0.1945	0.195
1.2D + 1.0W 180° 119 mph Wind with No Ice	184.15	0.5717	0.0187	0.2119	0.2127
1.2D + 1.0W 180° 119 mph Wind with No Ice	188.05	0.588	0.0198	0.2277	0.2285
1.2D + 1.0W 180° 119 mph Wind with No Ice	199.75	0.6329	0.0223	0.2034	0.2046
1.2D + 1.0W 180° 119 mph Wind with No Ice	240.00	0.8121	0.0473	0.4047	0.4074
1.2D + 1.0W 180° 119 mph Wind with No Ice	244.15	0.8332	0.0504	0.2165	0.2221
1.2D + 1.0W 180° 119 mph Wind with No Ice	259.75	0.8891	0.0592	0.1055	0.121
1.2D + 1.0W 180° 119 mph Wind with No Ice	275.85	0.921	0.0657	0.0973	0.117
1.2D + 1.0W 180° 119 mph Wind with No Ice	284.15	0.9376	0.0663	0.0482	0.0819
1.2D + 1.0W 180° 119 mph Wind with No Ice	288.05	0.9413	0.0663	0.0464	0.0802
1.2D + 1.0W 180° 119 mph Wind with No Ice	295.85	0.9432	0.0664	0.0069	0.0667
1.2D + 1.0W 180° 119 mph Wind with No Ice	300.00	0.9401	0.0652	0.1193	0.1352
1.2D + 1.0W 180° 119 mph Wind with No Ice	300.25	0.9396	0.0652	0.1134	0.1301
1.2D + 1.0W 180° 119 mph Wind with No Ice	304.15	0.935	0.0648	0.0662	0.0927
1.2D + 1.0W 120° 119 mph Wind with No Ice	91.95	0.4377	0.6406	0.2229	0.6783
1.2D + 1.0W 120° 119 mph Wind with No Ice	99.75	0.4678	0.6504	0.1767	0.674
1.2D + 1.0W 120° 119 mph Wind with No Ice	148.05	0.6844	0.7405	0.2532	0.7826
1.2D + 1.0W 120° 119 mph Wind with No Ice	155.85	0.7188	0.7353	0.2590	0.7749
1.2D + 1.0W 120° 119 mph Wind with No Ice	168.05	0.7621	0.7337	0.3180	0.7996
1.2D + 1.0W 120° 119 mph Wind with No Ice	184.15	0.8767	0.9683	0.3562	1.0318
1.2D + 1.0W 120° 119 mph Wind with No Ice	188.05	0.9002	0.9858	0.3454	1.0442
1.2D + 1.0W 120° 119 mph Wind with No Ice	199.75	0.9702	1.0260	0.3482	1.0835
1.2D + 1.0W 120° 119 mph Wind with No Ice	240.00	1.2349	1.7795	0.5163	1.8529
1.2D + 1.0W 120° 119 mph Wind with No Ice	244.15	1.2598	1.8061	0.2861	1.8284
1.2D + 1.0W 120° 119 mph Wind with No Ice	259.75	1.3318	1.8565	0.1626	1.8636
1.2D + 1.0W 120° 119 mph Wind with No Ice	275.85	1.3768	1.9810	0.1881	1.9899
1.2D + 1.0W 120° 119 mph Wind with No Ice	284.15	1.3996	2.0751	0.0511	2.0758
1.2D + 1.0W 120° 119 mph Wind with No Ice	288.05	1.4026	2.0729	0.0419	2.0731

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 120° 119 mph Wind with No Ice	295.85	1.4023	2.0554	0.0235	2.0555
1.2D + 1.0W 120° 119 mph Wind with No Ice	300.00	1.3973	2.0421	0.1563	2.0481
1.2D + 1.0W 120° 119 mph Wind with No Ice	300.25	1.3966	2.0412	0.1500	2.0467
1.2D + 1.0W 120° 119 mph Wind with No Ice	304.15	1.3901	2.0305	0.0912	2.0326
1.2D + 1.0W 90° 119 mph Wind with No Ice	91.95	0.3879	0.7963	0.1980	0.8206
1.2D + 1.0W 90° 119 mph Wind with No Ice	99.75	0.4143	0.8137	0.1615	0.827
1.2D + 1.0W 90° 119 mph Wind with No Ice	148.05	0.6122	0.9309	0.2307	0.9591
1.2D + 1.0W 90° 119 mph Wind with No Ice	155.85	0.6431	0.9244	0.2390	0.9518
1.2D + 1.0W 90° 119 mph Wind with No Ice	168.05	0.6797	0.9339	0.3084	0.9797
1.2D + 1.0W 90° 119 mph Wind with No Ice	184.15	0.7916	1.2701	0.3315	1.3126
1.2D + 1.0W 90° 119 mph Wind with No Ice	188.05	0.8128	1.2966	0.3064	1.3321
1.2D + 1.0W 90° 119 mph Wind with No Ice	199.75	0.8752	1.3434	0.3157	1.38
1.2D + 1.0W 90° 119 mph Wind with No Ice	240.00	1.1258	2.2800	0.5369	2.3423
1.2D + 1.0W 90° 119 mph Wind with No Ice	244.15	1.1486	2.3122	0.2521	2.3249
1.2D + 1.0W 90° 119 mph Wind with No Ice	259.75	1.2128	2.3676	0.1411	2.3718
1.2D + 1.0W 90° 119 mph Wind with No Ice	275.85	1.2486	2.4373	0.1078	2.4397
1.2D + 1.0W 90° 119 mph Wind with No Ice	284.15	1.2667	2.4970	0.0456	2.4975
1.2D + 1.0W 90° 119 mph Wind with No Ice	288.05	1.2688	2.4947	0.0386	2.4949
1.2D + 1.0W 90° 119 mph Wind with No Ice	295.85	1.2673	2.4760	0.0345	2.4763
1.2D + 1.0W 90° 119 mph Wind with No Ice	300.00	1.2619	2.4618	0.1559	2.4668
1.2D + 1.0W 90° 119 mph Wind with No Ice	300.25	1.2612	2.4609	0.1502	2.4655
1.2D + 1.0W 90° 119 mph Wind with No Ice	304.15	1.2544	2.4495	0.0960	2.4513
1.2D + 1.0W 60° 119 mph Wind with No Ice	91.95	0.3271	0.6815	0.1416	0.6961
1.2D + 1.0W 60° 119 mph Wind with No Ice	99.75	0.3458	0.6884	0.0970	0.6952
1.2D + 1.0W 60° 119 mph Wind with No Ice	148.05	0.4933	0.8560	0.1558	0.8701
1.2D + 1.0W 60° 119 mph Wind with No Ice	155.85	0.5136	0.8496	0.1644	0.8638
1.2D + 1.0W 60° 119 mph Wind with No Ice	168.05	0.5348	0.8485	0.2018	0.8682
1.2D + 1.0W 60° 119 mph Wind with No Ice	184.15	0.6147	1.0515	0.2391	1.0784
1.2D + 1.0W 60° 119 mph Wind with No Ice	188.05	0.6306	1.0736	0.2292	1.097
1.2D + 1.0W 60° 119 mph Wind with No Ice	199.75	0.6764	1.1119	0.2254	1.1345
1.2D + 1.0W 60° 119 mph Wind with No Ice	240.00	0.8718	1.8421	0.5031	1.9095
1.2D + 1.0W 60° 119 mph Wind with No Ice	244.15	0.8921	1.8710	0.2254	1.8836
1.2D + 1.0W 60° 119 mph Wind with No Ice	259.75	0.9498	1.9121	0.1200	1.9158
1.2D + 1.0W 60° 119 mph Wind with No Ice	275.85	0.9871	2.0294	0.1639	2.0351
1.2D + 1.0W 60° 119 mph Wind with No Ice	284.15	1.0146	2.1681	0.0761	2.169
1.2D + 1.0W 60° 119 mph Wind with No Ice	288.05	1.0182	2.1731	0.0486	2.1734
1.2D + 1.0W 60° 119 mph Wind with No Ice	295.85	1.0196	2.1581	0.0095	2.1581
1.2D + 1.0W 60° 119 mph Wind with No Ice	300.00	1.016	2.1451	0.1245	2.1487
1.2D + 1.0W 60° 119 mph Wind with No Ice	300.25	1.0155	2.1442	0.1188	2.1475
1.2D + 1.0W 60° 119 mph Wind with No Ice	304.15	1.0106	2.1336	0.0683	2.1347
1.2D + 1.0W Normal 119 mph Wind with No Ice	91.95	0.4158	-0.0101	0.2209	0.2211
1.2D + 1.0W Normal 119 mph Wind with No Ice	99.75	0.4455	-0.0125	0.1721	0.1725
1.2D + 1.0W Normal 119 mph Wind with No Ice	148.05	0.6582	-0.0109	0.2529	0.2532
1.2D + 1.0W Normal 119 mph Wind with No Ice	155.85	0.6924	-0.0138	0.2435	0.2439
1.2D + 1.0W Normal 119 mph Wind with No Ice	168.05	0.7374	-0.0183	0.3030	0.3036
1.2D + 1.0W Normal 119 mph Wind with No Ice	184.15	0.8419	-0.0161	0.3212	0.3216
1.2D + 1.0W Normal 119 mph Wind with No Ice	188.05	0.8655	-0.0168	0.3463	0.3467
1.2D + 1.0W Normal 119 mph Wind with No Ice	199.75	0.9339	-0.0190	0.3191	0.3197
1.2D + 1.0W Normal 119 mph Wind with No Ice	240.00	1.1783	-0.0423	0.5573	0.5589
1.2D + 1.0W Normal 119 mph Wind with No Ice	244.15	1.2043	-0.0469	0.2836	0.2875
1.2D + 1.0W Normal 119 mph Wind with No Ice	259.75	1.2743	-0.0541	0.1425	0.1525
1.2D + 1.0W Normal 119 mph Wind with No Ice	275.85	1.3127	-0.0605	0.1113	0.1267
1.2D + 1.0W Normal 119 mph Wind with No Ice	284.15	1.3295	-0.0610	0.0460	0.0764
1.2D + 1.0W Normal 119 mph Wind with No Ice	288.05	1.3327	-0.0610	0.0359	0.0705
1.2D + 1.0W Normal 119 mph Wind with No Ice	295.85	1.3327	-0.0609	0.0231	0.0652
1.2D + 1.0W Normal 119 mph Wind with No Ice	300.00	1.328	-0.0597	0.1548	0.1653
1.2D + 1.0W Normal 119 mph Wind with No Ice	300.25	1.3274	-0.0597	0.1474	0.1583
1.2D + 1.0W Normal 119 mph Wind with No Ice	304.15	1.321	-0.0592	0.0908	0.1084

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0W Normal	0.00	0.00		1	0.00	222.43	-1.47
	198.00	0.00	0	A1	0.00	-5.68	4.60
	198.00	0.00	240	A1a	-69.46	-77.51	-43.25
	198.00	0.00	120	A1b	69.46	-77.51	-43.25
1.2D + 1.0W 60°	0.00	0.00		1	-1.60	204.65	-0.95
	198.00	0.00	0	A1	-2.49	-24.63	24.92
	198.00	0.00	240	A1a	-86.92	-94.85	-50.26
	198.00	0.00	120	A1b	20.28	-24.64	-14.55
1.2D + 1.0W 90°	0.00	0.00		1	-1.56	214.99	-0.25
	198.00	0.00	0	A1	-3.22	-51.28	53.46
	198.00	0.00	240	A1a	-84.91	-92.05	-47.46
	198.00	0.00	120	A1b	7.62	-10.53	-5.75
1.2D + 1.0W 120°	0.00	0.00		1	-1.28	222.44	0.73
	198.00	0.00	0	A1	-2.77	-77.50	81.83
	198.00	0.00	240	A1a	-72.15	-77.52	-38.57
	198.00	0.00	120	A1b	4.00	-5.68	-2.30
1.2D + 1.0W 180°	0.00	0.00		1	0.00	204.48	1.86
	198.00	0.00	0	A1	0.00	-94.76	100.34
	198.00	0.00	240	A1a	-22.74	-24.59	-10.27
	198.00	0.00	120	A1b	22.74	-24.59	-10.27
1.2D + 1.0W 210°	0.00	0.00		1	0.58	214.96	1.48
	198.00	0.00	0	A1	1.45	-92.02	97.26
	198.00	0.00	240	A1a	-8.79	-10.51	-3.71
	198.00	0.00	120	A1b	47.79	-51.29	-23.94
1.2D + 1.0W 240°	0.00	0.00		1	1.28	222.44	0.73
	198.00	0.00	0	A1	2.77	-77.50	81.83
	198.00	0.00	240	A1a	-4.00	-5.68	-2.30
	198.00	0.00	120	A1b	72.15	-77.51	-38.57
1.2D + 1.0W 300°	0.00	0.00		1	1.60	204.65	-0.95
	198.00	0.00	0	A1	2.49	-24.63	24.92
	198.00	0.00	240	A1a	-20.28	-24.64	-14.55
	198.00	0.00	120	A1b	86.92	-94.85	-50.26
1.2D + 1.0W 330°	0.00	0.00		1	0.99	214.98	-1.25
	198.00	0.00	0	A1	1.18	-10.51	9.47
	198.00	0.00	240	A1a	-44.63	-51.29	-29.41
	198.00	0.00	120	A1b	83.50	-92.04	-49.89
1.2D + 1.0Di + 1.0Wi Normal	0.00	0.00		1	0.00	156.81	-0.17
	198.00	0.00	0	A1	0.00	-28.71	32.91
	198.00	0.00	240	A1a	-32.91	-33.47	-19.18
	198.00	0.00	120	A1b	32.91	-33.47	-19.18
1.2D + 1.0Di + 1.0Wi 60°	0.00	0.00		1	-0.14	156.53	-0.08
	198.00	0.00	0	A1	-0.16	-30.24	34.56
	198.00	0.00	240	A1a	-34.38	-34.96	-19.85
	198.00	0.00	120	A1b	29.85	-30.25	-17.41
1.2D + 1.0Di + 1.0Wi 90°	0.00	0.00		1	-0.17	156.67	0.00
	198.00	0.00	0	A1	-0.20	-31.84	36.32
	198.00	0.00	240	A1a	-34.08	-34.60	-19.59
	198.00	0.00	120	A1b	28.83	-29.11	-16.73
1.2D + 1.0Di + 1.0Wi 120°	0.00	0.00		1	-0.15	156.81	0.08
	198.00	0.00	0	A1	-0.16	-33.47	38.11
	198.00	0.00	240	A1a	-33.08	-33.48	-18.92
	198.00	0.00	120	A1b	28.48	-28.69	-16.44
1.2D + 1.0Di + 1.0Wi 180°	0.00	0.00		1	0.00	156.53	0.16
	198.00	0.00	0	A1	0.00	-34.90	39.66
	198.00	0.00	240	A1a	-30.02	-30.27	-17.15
	198.00	0.00	120	A1b	30.02	-30.27	-17.15
1.2D + 1.0Di + 1.0Wi 210°	0.00	0.00		1	0.08	156.67	0.14
	198.00	0.00	0	A1	0.08	-34.54	39.27
	198.00	0.00	240	A1a	-28.94	-29.15	-16.62

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DETAILED REACTIONS							
Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Di + 1.0Wi 240°	198.00	0.00	120	A1b	31.55	-31.86	-17.99
	0.00	0.00		1	0.15	156.81	0.08
	198.00	0.00	0	A1	0.16	-33.47	38.11
	198.00	0.00	240	A1a	-28.48	-28.69	-16.44
	198.00	0.00	120	A1b	33.08	-33.48	-18.92
1.2D + 1.0Di + 1.0Wi 300°	0.00	0.00		1	0.14	156.53	-0.08
	198.00	0.00	0	A1	0.16	-30.24	34.56
	198.00	0.00	240	A1a	-29.85	-30.25	-17.41
	198.00	0.00	120	A1b	34.38	-34.96	-19.85
	0.00	0.00		1	0.08	156.67	-0.15
1.2D + 1.0Di + 1.0Wi 330°	198.00	0.00	0	A1	0.08	-29.14	33.37
	198.00	0.00	240	A1a	-31.36	-31.86	-18.33
	198.00	0.00	120	A1b	33.97	-34.55	-19.70
	0.00	0.00		1	0.00	147.02	0.01
	198.00	0.00	0	A1	0.00	-27.06	30.70
1.2D + 1.0Ev + 1.0Eh Normal	198.00	0.00	240	A1a	-28.04	-29.01	-16.19
	198.00	0.00	120	A1b	28.04	-29.01	-16.19
	0.00	0.00		1	0.00	147.01	0.00
	198.00	0.00	0	A1	0.00	-27.71	31.26
	198.00	0.00	240	A1a	-28.53	-29.66	-16.47
1.2D + 1.0Ev + 1.0Eh 60°	198.00	0.00	120	A1b	27.07	-27.71	-15.63
	0.00	0.00		1	0.01	147.02	0.00
	198.00	0.00	0	A1	0.00	-28.36	31.82
	198.00	0.00	240	A1a	-28.40	-29.49	-16.40
	198.00	0.00	120	A1b	26.71	-27.24	-15.42
1.2D + 1.0Ev + 1.0Eh 90°	0.00	0.00		1	0.01	147.02	0.00
	198.00	0.00	0	A1	0.00	-29.01	32.38
	198.00	0.00	240	A1a	-28.05	-29.01	-16.19
	198.00	0.00	120	A1b	26.58	-27.06	-15.35
	0.00	0.00		1	0.00	147.01	-0.01
1.2D + 1.0Ev + 1.0Eh 120°	198.00	0.00	0	A1	0.00	-29.66	32.95
	198.00	0.00	240	A1a	-27.07	-27.71	-15.63
	198.00	0.00	120	A1b	27.07	-27.71	-15.63
	0.00	0.00		1	0.00	147.02	0.00
	198.00	0.00	0	A1	0.00	-29.49	32.80
1.2D + 1.0Ev + 1.0Eh 180°	198.00	0.00	240	A1a	-26.71	-27.24	-15.42
	198.00	0.00	120	A1b	27.56	-28.36	-15.91
	0.00	0.00		1	-0.01	147.02	0.00
	198.00	0.00	0	A1	0.00	-29.01	32.38
	198.00	0.00	240	A1a	-26.58	-27.06	-15.35
1.2D + 1.0Ev + 1.0Eh 210°	198.00	0.00	120	A1b	28.05	-29.01	-16.19
	0.00	0.00		1	0.00	147.01	0.00
	198.00	0.00	0	A1	0.00	-27.71	31.26
	198.00	0.00	240	A1a	-27.07	-27.71	-15.63
	198.00	0.00	120	A1b	28.53	-29.66	-16.47
1.2D + 1.0Ev + 1.0Eh 240°	0.00	0.00		1	0.00	147.02	0.01
	198.00	0.00	0	A1	0.00	-27.24	30.85
	198.00	0.00	240	A1a	-27.55	-28.36	-15.91
	198.00	0.00	120	A1b	28.40	-29.49	-16.40
	0.00	0.00		1	0.00	140.78	-0.60
1.0D + 1.0W Service Normal	198.00	0.00	0	A1	0.00	-17.33	19.94
	198.00	0.00	240	A1a	-33.77	-35.43	-20.22
	198.00	0.00	120	A1b	33.77	-35.43	-20.22
	0.00	0.00		1	-0.49	141.27	-0.29
	198.00	0.00	0	A1	-0.63	-23.71	26.55
1.0D + 1.0W Service 60°	198.00	0.00	240	A1a	-39.54	-41.55	-22.84
	198.00	0.00	120	A1b	22.68	-23.72	-13.81
	0.00	0.00		1	-0.58	140.99	0.01
	198.00	0.00	0	A1	-0.78	-29.51	32.88

ASSET: 2543, Five Points
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H
PROJECT: 14910189_C3_03

DETAILED REACTIONS							
Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.0D + 1.0W Service 120°	198.00	0.00	240	A1a	-38.23	-39.87	-21.73
	198.00	0.00	120	A1b	18.73	-19.18	-11.16
	0.00	0.00		1	-0.51	140.80	0.30
	198.00	0.00	0	A1	-0.64	-35.47	39.40
	198.00	0.00	240	A1a	-34.43	-35.48	-19.16
1.0D + 1.0W Service 180°	198.00	0.00	120	A1b	17.22	-17.26	-9.94
	0.00	0.00		1	0.00	141.24	0.57
	198.00	0.00	0	A1	0.00	-41.50	45.63
	198.00	0.00	240	A1a	-23.31	-23.73	-12.74
	198.00	0.00	120	A1b	23.31	-23.73	-12.74
1.0D + 1.0W Service 210°	0.00	0.00		1	0.30	140.96	0.50
	198.00	0.00	0	A1	0.31	-39.85	43.97
	198.00	0.00	240	A1a	-19.03	-19.17	-10.63
	198.00	0.00	120	A1b	28.84	-29.51	-15.77
	0.00	0.00		1	0.51	140.80	0.30
1.0D + 1.0W Service 240°	198.00	0.00	0	A1	0.64	-35.47	39.40
	198.00	0.00	240	A1a	-17.22	-17.26	-9.94
	198.00	0.00	120	A1b	34.43	-35.48	-19.16
	0.00	0.00		1	0.49	141.27	-0.29
	198.00	0.00	0	A1	0.63	-23.71	26.55
1.0D + 1.0W Service 300°	198.00	0.00	240	A1a	-22.68	-23.72	-13.81
	198.00	0.00	120	A1b	39.54	-41.55	-22.84
	0.00	0.00		1	0.28	140.96	-0.51
	198.00	0.00	0	A1	0.31	-19.16	21.79
	198.00	0.00	240	A1a	-28.08	-29.51	-17.10
1.0D + 1.0W Service 330°	198.00	0.00	120	A1b	37.92	-39.86	-22.25

MAXIMUM GUY ANCHOR REACTIONS				
Radius (ft)	Drop (ft)	Azimuth (deg)	Uplift (kip)	Shear (kip)
198.00	0.00	0	94.76	100.34
198.00	0.00	120	94.85	100.41
198.00	0.00	240	94.85	100.41

MAXIMUM REACTIONS SUMMARY		
Base / Anchor Group	Vertical Load (Compression for Base; Uplift for Anchor)	Horizontal Shear
Guyed – Pivot Base	222.44 (kip)	1.86 (kip)
Guyed Anchor - A1	94.85 (kip)	100.41 (kip)