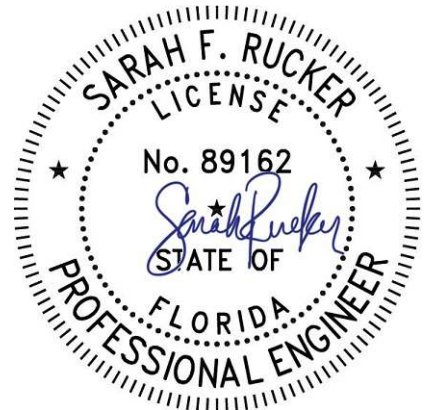




Structural Analysis Report

Structure : 250 ft Self Support Tower
ATC Asset Name : ELLISVILLE FL
ATC Asset Number : 2544
Engineering Number : 14859902_C3_01
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : Ellisville A
Carrier Site Number : 5000077929
Site Location : US Highway 41
Lake City, FL 32025-2245
30.0028° N, 82.5993° W
County : Columbia
Date : August 10, 2024
Max Usage : 55%
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: 2024.08.14
23:13:32 -04'00'

COA: 9053

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Tower Loading	5
Standard Conditions	Attached
Calculations	Attached

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 250 ft Self Support tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	Paul J. Ford Job #331-99-02, dated March 30, 1999
Foundation:	FWT Job #15831, dated September 2, 1998
Geotechnical:	FTE Project #98-3445, dated June 3, 1998

Analysis

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

Basic Wind Speed:	120 mph (3-second gust)
Basic Wind Speed w/ Ice:	No Ice Considered
Code(s):	ANSI/TIA-222-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:	$S_s = 0.08$, $S_i = 0.05$
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	55.3%	Member X	Section 13	Pass
Diagonal	44.9%	Block Shear	Section 12	Pass
Horizontal	13.9%	Block Shear	Section 1	Pass
Bolt	42.0%	-	Section 12	Pass
Serviceability Usage	22.9%	Rotation	Elevation 240 ft	Pass
Foundation	42.4%	Down	Base	Pass
Foundation	46.2%	Shear	Base	Pass
Foundation	35.9%	Uplift	Base	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Self Support Base (Global)	9,307.0	92.3	-	66.0
Self Support Base (Local)	-	313.6	234.6	45.2

**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

VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines
240.0	1	Raycap RCMD-6627-PF-48	-
	2	Aviat Networks ODU 600	
	3	Ericsson Radio 4449	
	3	Ericsson Radio 8843	
	6	Commscope NHH-65C-R2B	
235.4	2	Aviat Networks ODU 600	-
234.5	1	Commscope VHLPX3-11W/A	-
234.0	-	-	(2) 0.41" (10.3mm) LMR-400
232.0	2	Raycap RCMD-6627-PF-48	(3) 1.43"(36.4mm) Hybrid
	3	Ericsson AIR 6419 B77D	
	6	Commscope NHH-65C-R2B	
231.7	3	Ericsson Radio 4449	-
231.6	3	Ericsson Radio 8843	-

Install proposed lines in the place of the existing VERIZON WIRELESS lines.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
247.0	3	Sabre C10857001C sector frames	-	-
	3	Commscope FFVV-65B-R3-V1	(3) 1.99" (50.7mm) Hybrid	SPRINT NEXTEL
	3	Ericsson Air6449 B41		
	3	Ericsson Radio 4460 B25+B66		
	3	Ericsson Radio 4480 B71+B85A		
240.0	3	Sector Frame	-	VERIZON
211.4	1	Radio Waves HP3-11	-	NORTH FLORIDA BROADBAND AUTHORITY
210.8	1	Radio Waves HPD6-59	-	NORTH FLORIDA BROADBAND AUTHORITY
210.4	1	Radio Waves HP2-11	-	NORTH FLORIDA BROADBAND AUTHORITY
210.0	3	Radio/ODU	(3) 0.41" (10.3mm) LMR-400	NORTH FLORIDA BROADBAND AUTHORITY

(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.

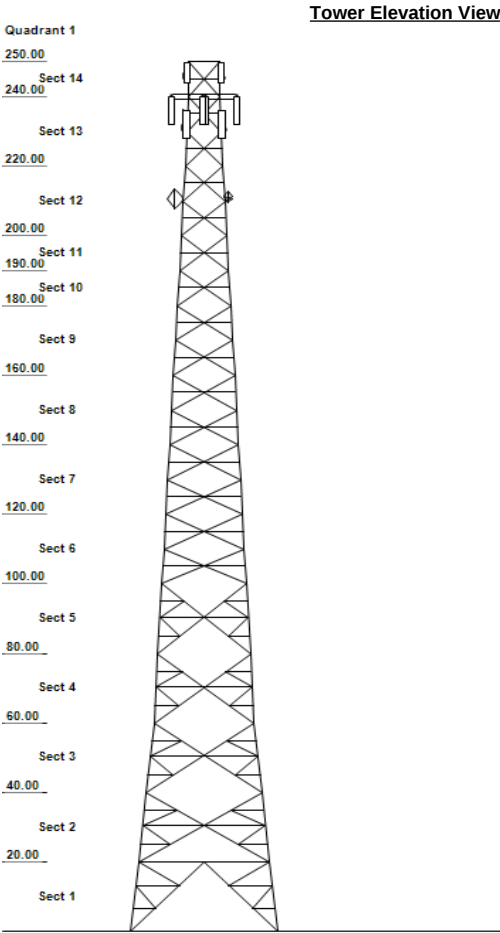
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services, LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

ASSET: ELLISVILLE FL, 2544
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902

ANALYSIS PARAMETERS			
Design Wind:	120 mph	Ice Wind:	30 mph w/ 0.00" ice
Risk Category:	II	Exposure:	C
Topo Factor:	Method 1	Topo Feature:	
Structure Height:	250 ft	Base Elevation:	0 ft
Base Width:	38.00 ft	Top Width:	8.00 ft
Service Wind:	60 mph	S _s :	0.082
		S _i :	0.049
		Topo Category:	1
		Shape:	Triangle

TOWER SECTION PROPERTIES			
Section	Leg Members	Diagonal Members	Horizontal Members
1	SOL 50 ksi 5" SOLID	DAE 36 ksi 4X4X0.25	DAE 36 ksi 3X3X0.1875
2 - 3	SOL 50 ksi 4 3/4" SOLID	DAE 36 ksi 3.5x3.5x0.25	
4	SOL 50 ksi 4 1/2" SOLID	DAE 36 ksi 3.5x3.5x0.25	
5	SOL 50 ksi 4 1/4" SOLID	DAE 36 ksi 3X3X0.25	
6	SOL 50 ksi 4" SOLID	DAE 36 ksi 3X3X0.25	
7	SOL 50 ksi 3 3/4" SOLID	DAE 36 ksi 3X3X0.1875	
8	SOL 50 ksi 3 1/2" SOLID	DAE 36 ksi 3X3X0.1875	
9	SOL 50 ksi 3 1/4" SOLID	DAE 36 ksi 2.5X2.5X0.1875	
10 - 11	SOL 50 ksi 2 3/4" SOLID	DAE 36 ksi 2.5X2.5X0.1875	
12	SOL 50 ksi 2 1/2" SOLID	DAE 36 ksi 2X2X0.1875	
13	SOL 50 ksi 2" SOLID	DAE 36 ksi 2X2X0.1875	
14	SOL 50 ksi 2" SOLID	DAE 36 ksi 2X2X0.1875	SAE 36 ksi 2X2X0.1875



SECONDARY BRACING MEMBERS			
Section	Sub Diagonal 1	Sub Diagonal 2	Sub Diagonal 3
1	D2X2X0.1875	D2.5X2.5X0.1875	-
2 - 3	D2X2X0.1875	D2X2X0.1875	-
4	S3X3X0.1875	S3X3X0.1875	-
5	S3X3X0.1875	S3X3X0.1875	-
6	-	-	-
7 - 8	-	-	-
9 - 11	-	-	-
12 - 14	-	-	-
Section	Sub Horizontal 1	Sub Horizontal 2	Sub Horizontal 3
1	D2X2X0.1875	D2.5X2.5X0.1875	-
2 - 3	D2X2X0.1875	D3X3X0.1875	D2X2X0.1875
4	S3X3X0.1875	D2.5X2.5X0.1875	S3X3X0.1875
5	S2.5X2.5X0.1875	D2.5X2.5X0.1875	S2.5X2.5X0.1875
6	S3.5x3.5x0.25	-	-
7 - 8	S3X3X0.1875	-	-
9 - 11	S2.5X2.5X0.1875	-	-
12 - 14	S2X2X0.1875	-	-

DISCRETE APPURTENANCE		LINEAR APPURTENANCE	
Elev (ft)	Description	Elev (ft)	Description
247.0	(3) Sabre C10857001C sector frames	250.0	(1) Climbing Ladder
247.0	(3) Commscope FFVV-65B-R3-V1	247.0	(3) 1.99" (50.7mm) Hybrid
247.0	(3) Ericsson Air6449 B41	247.0	(3) Wave Guide
247.0	(3) Ericsson Radio 4480 B71+B85A	234.0	(2) 0.41" (10.3mm) LMR-400
247.0	(3) Ericsson Radio 4460 B25+B66	232.0	(3) 1.43"(36.4mm) Hybrid
240.0	(3) Ericsson Radio 8843	210.0	(3) 0.41" (10.3mm) LMR-400
240.0	(3) Ericsson Radio 4449		
240.0	(1) Raycap RCMD-6627-PF-48		
240.0	(2) Aviat Networks ODU 600		
240.0	(6) Commscope NHH-65C-R2B		
240.0	(3) Round Sector Frame		
235.4	(2) Aviat Networks ODU 600		
234.5	(1) Commscope VHLPX3-11W/A		
232.0	(3) Ericsson AIR 6419 B77D		
232.0	(6) Commscope NHH-65C-R2B		
232.0	(2) Raycap RCMD-6627-PF-48		
231.7	(3) Ericsson Radio 4449		
231.6	(3) Ericsson Radio 8843		
211.4	(1) Radio Waves HP3-11		
210.8	(1) Radio Waves HPD6-59		
210.4	(1) Radio Waves HP2-11		
210.0	(3) Generic Radio/ODU		

GLOBAL BASE REACTIONS		
	DL+WL	DL+WL+IL
Moment (k-ft):	9,306.99	608.49
Axial (k):	92.32	92.32
Shear (k):	66.00	4.34

INDIVIDUAL BASE REACTIONS	
Comp (k):	313.58
Uplift (k):	234.60
Shear (k):	45.20

ANALYSIS PARAMETERS			
Location:	Columbia County, FL	Height:	250 ft
Type and Shape:	Self Support, Triangle	Base Elevation:	0.00 ft
Manufacturer:	FWT	Bottom Face Width:	38.00 ft
Kd	0.85	Top Face Width:	8.00 ft
Ke:	1.00	Anchor Bolt Detail Type:	c
ICE & WIND PARAMETERS			
Exposure Category:	C	Design Wind Speed Without Ice:	120 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:	0 ft	HMSL:	66 ft

SEISMIC PARAMETERS			
Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	0.81
T _L (sec):	8	P:	1.3
S _{ds} :	0.087	S _{d1} :	0.078
S _s :	0.082	S ₁ :	0.049
F _a :	1.600	F _v :	2.400
		C _s :	0.030
		C _{s, Max} :	0.032
		C _{s, Min} :	0.030

LOAD CASES	
1.2D + 1.0W Normal Pattern 1	1.2D + 1.0W Normal Pattern 1 - 120 mph Wind with No Ice
1.2D + 1.0W Normal Pattern 2	1.2D + 1.0W Normal Pattern 2 - 120 mph Wind with No Ice
1.2D + 1.0W Normal Pattern 3	1.2D + 1.0W Normal Pattern 3 - 120 mph Wind with No Ice
1.2D + 1.0W 60° Pattern 1	1.2D + 1.0W 60° Pattern 1 - 120 mph Wind with No Ice
1.2D + 1.0W 60° Pattern 2	1.2D + 1.0W 60° Pattern 2 - 120 mph Wind with No Ice
1.2D + 1.0W 60° Pattern 3	1.2D + 1.0W 60° Pattern 3 - 120 mph Wind with No Ice
1.2D + 1.0W 90° Pattern 1	1.2D + 1.0W 90° Pattern 1 - 120 mph Wind with No Ice
1.2D + 1.0W 90° Pattern 2	1.2D + 1.0W 90° Pattern 2 - 120 mph Wind with No Ice
1.2D + 1.0W 90° Pattern 3	1.2D + 1.0W 90° Pattern 3 - 120 mph Wind with No Ice
1.2D + 1.0W 120° Pattern 1	1.2D + 1.0W 120° Pattern 1 - 120 mph Wind with No Ice
1.2D + 1.0W 120° Pattern 2	1.2D + 1.0W 120° Pattern 2 - 120 mph Wind with No Ice
1.2D + 1.0W 120° Pattern 3	1.2D + 1.0W 120° Pattern 3 - 120 mph Wind with No Ice
1.2D + 1.0W 180° Pattern 1	1.2D + 1.0W 180° Pattern 1 - 120 mph Wind with No Ice
1.2D + 1.0W 180° Pattern 2	1.2D + 1.0W 180° Pattern 2 - 120 mph Wind with No Ice
1.2D + 1.0W 180° Pattern 3	1.2D + 1.0W 180° Pattern 3 - 120 mph Wind with No Ice
1.2D + 1.0W 210° Pattern 1	1.2D + 1.0W 210° Pattern 1 - 120 mph Wind with No Ice
1.2D + 1.0W 210° Pattern 2	1.2D + 1.0W 210° Pattern 2 - 120 mph Wind with No Ice
1.2D + 1.0W 210° Pattern 3	1.2D + 1.0W 210° Pattern 3 - 120 mph Wind with No Ice
1.2D + 1.0W 240° Pattern 1	1.2D + 1.0W 240° Pattern 1 - 120 mph Wind with No Ice
1.2D + 1.0W 240° Pattern 2	1.2D + 1.0W 240° Pattern 2 - 120 mph Wind with No Ice
1.2D + 1.0W 240° Pattern 3	1.2D + 1.0W 240° Pattern 3 - 120 mph Wind with No Ice
1.2D + 1.0W 300° Pattern 1	1.2D + 1.0W 300° Pattern 1 - 120 mph Wind with No Ice
1.2D + 1.0W 300° Pattern 2	1.2D + 1.0W 300° Pattern 2 - 120 mph Wind with No Ice
1.2D + 1.0W 300° Pattern 3	1.2D + 1.0W 300° Pattern 3 - 120 mph Wind with No Ice
1.2D + 1.0W 330° Pattern 1	1.2D + 1.0W 330° Pattern 1 - 120 mph Wind with No Ice
1.2D + 1.0W 330° Pattern 2	1.2D + 1.0W 330° Pattern 2 - 120 mph Wind with No Ice
1.2D + 1.0W 330° Pattern 3	1.2D + 1.0W 330° Pattern 3 - 120 mph Wind with No Ice

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

LOAD CASES

0.9D + 1.0W Normal	0.9D + 1.0W Normal - 120 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 60°	0.9D + 1.0W 60° - 120 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 90°	0.9D + 1.0W 90° - 120 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 120°	0.9D + 1.0W 120° - 120 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 180°	0.9D + 1.0W 180° - 120 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 210°	0.9D + 1.0W 210° - 120 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 240°	0.9D + 1.0W 240° - 120 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 300°	0.9D + 1.0W 300° - 120 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 330°	0.9D + 1.0W 330° - 120 mph Wind with No Ice (Reduced DL)
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
0.9D - 1.0Ev + 1.0Eh Normal	0.9D - 1.0Ev + 1.0Eh Normal - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 60°	0.9D - 1.0Ev + 1.0Eh 60° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 90°	0.9D - 1.0Ev + 1.0Eh 90° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 120°	0.9D - 1.0Ev + 1.0Eh 120° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 180°	0.9D - 1.0Ev + 1.0Eh 180° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 210°	0.9D - 1.0Ev + 1.0Eh 210° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 240°	0.9D - 1.0Ev + 1.0Eh 240° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 300°	0.9D - 1.0Ev + 1.0Eh 300° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 330°	0.9D - 1.0Ev + 1.0Eh 330° - Seismic (Reduced DL)
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: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

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)
247.0	Ericsson Radio 4460 B25+B66	3	109	2.6	1.6	15.7	12.1	0.80	0.67	0.0	0.00	47.86	168	392
247.0	Ericsson Radio 4480 B71+B85A	3	84	2.9	1.8	15.7	7.5	0.80	0.67	0.0	0.00	47.86	187	302
247.0	Ericsson Air6449 B41	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.00	47.86	349	374
247.0	Sabre C10857001C sector frames	3	462	13.6	0.0	0.0	0.0	0.75	0.75	0.0	0.00	47.86	935	1663
247.0	Commscope FFVV-65B-R3-V1	3	100	15.3	6.0	25.2	9.3	0.80	0.62	0.0	0.00	47.86	927	361
240.0	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	4.2	122.86	47.74	29	26
240.0	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	1,865.07	47.24	236	306
240.0	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	1,865.07	47.24	236	306
240.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.80	1.00	-5.7	744.07	47.33	131	38
240.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	-7.9	12,137.8	47.24	1536	372
240.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	47.57	983	1080
235.4	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	0.0	0.00	47.38	29	26
234.5	Commscope VHLPX3-11W/A	1	37	10.6	3.3	39.3	19.6	0.80	1.00	0.0	0.00	47.34	342	44
232.0	Raycap RCMDC-6627-PF-48	2	32	4.1	2.5	16.5	12.6	0.80	0.79	0.0	0.00	47.23	206	77
232.0	Ericsson AIR 6419 B77D	3	63	4.2	2.6	16.1	9.1	0.80	0.67	0.0	0.00	47.23	270	227
232.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.00	47.23	1536	372
231.7	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	47.22	236	306
231.6	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	47.21	236	306
211.4	Radio Waves HP3-11	1	50	8.9	3.0	36.0	0.0	1.00	1.00	0.0	0.00	46.32	351	60
210.8	Radio Waves HPD6-59	1	251	35.7	6.0	72.0	0.0	1.00	1.00	0.0	0.00	46.29	1403	301
210.4	Radio Waves HP2-11	1	27	4.0	2.0	24.0	0.0	1.00	1.00	0.0	0.00	46.27	156	32
210.0	Generic Radio/ODU	3	30	1.6	1.3	12.0	8.0	1.00	0.50	0.0	0.00	46.25	94	108
Totals		59	5,901	434.3									10,577	7,082

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)
247.0	Ericsson Radio 4460 B25+B66	3	109	2.6	1.6	15.7	12.1	0.80	0.67	0.0	0.00	47.86	168	392
247.0	Ericsson Radio 4480 B71+B85A	3	84	2.9	1.8	15.7	7.5	0.80	0.67	0.0	0.00	47.86	187	302
247.0	Ericsson Air6449 B41	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.00	47.86	349	374
247.0	Sabre C10857001C sector frames	3	462	13.6	0.0	0.0	0.0	0.75	0.75	0.0	0.00	47.86	935	1663
247.0	Commscope FFVV-65B-R3-V1	3	100	15.3	6.0	25.2	9.3	0.80	0.62	0.0	0.00	47.86	927	361
240.0	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	4.2	122.86	47.74	29	26
240.0	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	1,865.07	47.24	236	306
240.0	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	1,865.07	47.24	236	306
240.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.80	1.00	-5.7	744.07	47.33	131	38
240.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	-7.9	12,137.8	47.24	1536	372
240.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	47.57	983	1080
235.4	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	0.0	0.00	47.38	29	26
234.5	Commscope VHLPX3-11W/A	1	37	10.6	3.3	39.3	19.6	0.80	1.00	0.0	0.00	47.34	342	44
232.0	Raycap RCMDC-6627-PF-48	2	32	4.1	2.5	16.5	12.6	0.80	0.79	0.0	0.00	47.23	206	77
232.0	Ericsson AIR 6419 B77D	3	63	4.2	2.6	16.1	9.1	0.80	0.67	0.0	0.00	47.23	270	227
232.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.00	47.23	1536	372
231.7	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	47.22	236	306
231.6	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	47.21	236	306
211.4	Radio Waves HP3-11	1	50	8.9	3.0	36.0	0.0	1.00	1.00	0.0	0.00	46.32	351	60
210.8	Radio Waves HPD6-59	1	251	35.7	6.0	72.0	0.0	1.00	1.00	0.0	0.00	46.29	1403	301
210.4	Radio Waves HP2-11	1	27	4.0	2.0	24.0	0.0	1.00	1.00	0.0	0.00	46.27	156	32
210.0	Generic Radio/ODU	3	30	1.6	1.3	12.0	8.0	1.00	0.50	0.0	0.00	46.25	94	108
Totals		59	5,901	434.3									10,577	7,082

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)
247.0	Ericsson Radio 4460 B25+B66	3	109	2.6	1.6	15.7	12.1	0.80	0.67	0.0	0.00	47.86	168	392
247.0	Ericsson Radio 4480 B71+B85A	3	84	2.9	1.8	15.7	7.5	0.80	0.67	0.0	0.00	47.86	187	302
247.0	Ericsson Air6449 B41	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.00	47.86	349	374
247.0	Sabre C10857001C sector frames	3	462	13.6	0.0	0.0	0.0	0.75	0.75	0.0	0.00	47.86	935	1663
247.0	Commscope FFVV-65B-R3-V1	3	100	15.3	6.0	25.2	9.3	0.80	0.62	0.0	0.00	47.86	927	361
240.0	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	4.2	122.86	47.74	29	26
240.0	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	1,865.07	47.24	236	306
240.0	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	1,865.07	47.24	236	306
240.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.80	1.00	-5.7	744.07	47.33	131	38
240.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	-7.9	12,137.8	47.24	1536	372
240.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	47.57	983	1080
235.4	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	0.0	0.00	47.38	29	26
234.5	Commscope VHLPX3-11W/A	1	37	10.6	3.3	39.3	19.6	0.80	1.00	0.0	0.00	47.34	342	44
232.0	Raycap RCMDC-6627-PF-48	2	32	4.1	2.5	16.5	12.6	0.80	0.79	0.0	0.00	47.23	206	77
232.0	Ericsson AIR 6419 B77D	3	63	4.2	2.6	16.1	9.1	0.80	0.67	0.0	0.00	47.23	270	227
232.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.00	47.23	1536	372
231.7	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	47.22	236	306
231.6	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	47.21	236	306
211.4	Radio Waves HP3-11	1	50	8.9	3.0	36.0	0.0	1.00	1.00	0.0	0.00	46.32	351	60

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

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)
210.8	Radio Waves HPD6-59	1	251	35.7	6.0	72.0	0.0	1.00	1.00	0.0	0.00	46.29	1403	301
210.4	Radio Waves HP2-11	1	27	4.0	2.0	24.0	0.0	1.00	1.00	0.0	0.00	46.27	156	32
210.0	Generic Radio/ODU	3	30	1.6	1.3	12.0	8.0	1.00	0.50	0.0	0.00	46.25	94	108
Totals		59	5,901	434.3									10,577	7,082

Discrete Appurtenance Properties for LC: 0.9D + 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)
247.0	Ericsson Radio 4460 B25+B66	3	109	2.6	1.6	15.7	12.1	0.80	0.67	0.0	0.00	47.86	168	294
247.0	Ericsson Radio 4480 B71+B85A	3	84	2.9	1.8	15.7	7.5	0.80	0.67	0.0	0.00	47.86	187	227
247.0	Ericsson Air6449 B41	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.00	47.86	349	281
247.0	Sabre C10857001C sector frames	3	462	13.6	0.0	0.0	0.0	0.75	0.75	0.0	0.00	47.86	935	1247
247.0	Commscope FFFV-65B-R3-V1	3	100	15.3	6.0	25.2	9.3	0.80	0.62	0.0	0.00	47.86	927	271
240.0	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	4.2	122.86	47.74	29	20
240.0	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	1,865.07	47.24	236	230
240.0	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	1,865.07	47.24	236	230
240.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.80	1.00	-5.7	744.07	47.33	131	29
240.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	-7.9	12,137.8	47.24	1536	279
240.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	47.57	983	810
235.4	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	0.0	0.00	47.38	29	20
234.5	Commscope VHLPX3-11W/A	1	37	10.6	3.3	39.3	19.6	0.80	1.00	0.0	0.00	47.34	342	33
232.0	Raycap RCMDC-6627-PF-48	2	32	4.1	2.5	16.5	12.6	0.80	0.79	0.0	0.00	47.23	206	58
232.0	Ericsson AIR 6419 B77D	3	63	4.2	2.6	16.1	9.1	0.80	0.67	0.0	0.00	47.23	270	170
232.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.00	47.23	1536	279
231.7	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	47.22	236	230
231.6	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	47.21	236	230
211.4	Radio Waves HP3-11	1	50	8.9	3.0	36.0	0.0	1.00	1.00	0.0	0.00	46.32	351	45
210.8	Radio Waves HPD6-59	1	251	35.7	6.0	72.0	0.0	1.00	1.00	0.0	0.00	46.29	1403	226
210.4	Radio Waves HP2-11	1	27	4.0	2.0	24.0	0.0	1.00	1.00	0.0	0.00	46.27	156	24
210.0	Generic Radio/ODU	3	30	1.6	1.3	12.0	8.0	1.00	0.50	0.0	0.00	46.25	94	81
Totals		59	5,901	434.3									10,577	5,311

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)
247.0	Ericsson Radio 4460 B25+B66	3	109	2.6	1.6	15.7	12.1	0.80	0.67	0.0	0.00	2.99	10	392
247.0	Ericsson Radio 4480 B71+B85A	3	84	2.9	1.8	15.7	7.5	0.80	0.67	0.0	0.00	2.99	12	302
247.0	Ericsson Air6449 B41	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.00	2.99	22	374
247.0	Sabre C10857001C sector frames	3	462	13.6	0.0	0.0	0.0	0.75	0.75	0.0	0.00	2.99	58	1663
247.0	Commscope FFFV-65B-R3-V1	3	100	15.3	6.0	25.2	9.3	0.80	0.62	0.0	0.00	2.99	58	361
240.0	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	4.2	7.68	2.98	2	26
240.0	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	116.57	2.95	15	306
240.0	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	116.57	2.95	15	306
240.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.80	1.00	-5.7	46.50	2.96	8	38
240.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	-7.9	758.62	2.95	96	372
240.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	2.97	61	1080
235.4	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	0.0	0.00	2.96	2	26
234.5	Commscope VHLPX3-11W/A	1	37	10.6	3.3	39.3	19.6	0.80	1.00	0.0	0.00	2.96	21	44
232.0	Raycap RCMDC-6627-PF-48	2	32	4.1	2.5	16.5	12.6	0.80	0.79	0.0	0.00	2.95	13	77
232.0	Ericsson AIR 6419 B77D	3	63	4.2	2.6	16.1	9.1	0.80	0.67	0.0	0.00	2.95	17	227
232.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.00	2.95	96	372
231.7	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	2.95	15	306
231.6	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	2.95	15	306
211.4	Radio Waves HP3-11	1	50	8.9	3.0	36.0	0.0	1.00	1.00	0.0	0.00	2.89	22	60
210.8	Radio Waves HPD6-59	1	251	35.7	6.0	72.0	0.0	1.00	1.00	0.0	0.00	2.89	88	301
210.4	Radio Waves HP2-11	1	27	4.0	2.0	24.0	0.0	1.00	1.00	0.0	0.00	2.89	10	32
210.0	Generic Radio/ODU	3	30	1.6	1.3	12.0	8.0	1.00	0.50	0.0	0.00	2.89	6	108
Totals		59	5,901	434.3									661	7,082

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)
247.0	Ericsson Radio 4460 B25+B66	3	109	2.6	1.6	15.7	12.1	0.80	0.67	0.0	0.00	11.96	42	327
247.0	Ericsson Radio 4480 B71+B85A	3	84	2.9	1.8	15.7	7.5	0.80	0.67	0.0	0.00	11.96	47	252
247.0	Ericsson Air6449 B41	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.00	11.96	87	312
247.0	Sabre C10857001C sector frames	3	462	13.6	0.0	0.0	0.0	0.75	0.75	0.0	0.00	11.96	234	1386
247.0	Commscope FFFV-65B-R3-V1	3	100	15.3	6.0	25.2	9.3	0.80	0.62	0.0	0.00	11.96	232	301
240.0	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	4.2	30.71	11.94	7	22
240.0	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	466.27	11.81	59	255
240.0	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	-7.9	466.27	11.81	59	255
240.0	Raycap RCMDC-6627-PF-48	1	32	4.1	2.5	16.5	12.6	0.80	1.00	-5.7	186.02	11.83	33	32
240.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	-7.9	3,034.46	11.81	384	310
240.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	11.89	246	900
235.4	Aviat Networks ODU 600	2	11	0.9	0.9	10.4	4.9	0.80	0.50	0.0	0.00	11.84	7	22

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

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)
234.5	Commscope VHLPX3-11W/A	1	37	10.6	3.3	39.3	19.6	0.80	1.00	0.0	0.00	11.83	86	37
232.0	Raycap RCMD-6627-PF-48	2	32	4.1	2.5	16.5	12.6	0.80	0.79	0.0	0.00	11.81	51	64
232.0	Ericsson AIR 6419 B77D	3	63	4.2	2.6	16.1	9.1	0.80	0.67	0.0	0.00	11.81	68	189
232.0	Commscope NHH-65C-R2B	6	52	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.00	11.81	384	310
231.7	Ericsson Radio 4449	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	11.80	59	255
231.6	Ericsson Radio 8843	3	85	3.5	2.3	15.0	10.0	0.80	0.70	0.0	0.00	11.80	59	255
211.4	Radio Waves HP3-11	1	50	8.9	3.0	36.0	0.0	1.00	1.00	0.0	0.00	11.58	88	50
210.8	Radio Waves HPD6-59	1	251	35.7	6.0	72.0	0.0	1.00	1.00	0.0	0.00	11.57	351	251
210.4	Radio Waves HP2-11	1	27	4.0	2.0	24.0	0.0	1.00	1.00	0.0	0.00	11.57	39	27
210.0	Generic Radio/ODU	3	30	1.6	1.3	12.0	8.0	1.00	0.50	0.0	0.00	11.56	24	90
Totals		59	5,901	434.3									2,644	5,901

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

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	250.0	Climbing Ladder	1	2.00	6.90	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	247.0	1.99" (50.7mm) Hybrid	3	1.99	1.90	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	247.0	Wave Guide	3	2.00	4.00	100	1,2,3	Individual	0.00	N	1.00	1.00	0.00
0.0	234.0	0.41" (10.3mm) LMR-400	2	0.41	0.07	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	232.0	1.43"(36.4mm) Hybrid	3	1.43	0.79	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	210.0	0.41" (10.3mm) LMR-400	3	0.41	0.07	100	2	Individual	0.00	N	1.00	1.00	0.00

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

1.2D + 1.0W Normal Pattern 1

Gust Response Factor (Gh): 0.85

120 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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1256	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2595	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	3218	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1981	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	2029	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4815	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	5825	0	3821	1068	4890
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	6443	0	4055	1037	5092
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	8261	0	4411	1001	5412
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	7779	0	4026	959	4986
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	8547	0	4246	910	5156
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	10198	0	4140	848	4988
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	10737	0	4104	761	4865
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.32	155.58	0.00	11553	0	3514	659	4173
Totals														85,237	0			55,417

1.2D + 1.0W Normal Pattern 2

Gust Response Factor (Gh): 0.85

120 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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1256	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2595	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	3218	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1981	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	2029	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4815	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	5825	0	3821	1068	4890
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	6443	0	4055	1037	5092
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	8261	0	4411	1001	5412
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	7779	0	4026	959	4986
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	8547	0	4246	910	5156
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	10198	0	4140	848	4988
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	10737	0	4104	761	4865
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	11553	0	3520	659	4179
Totals														85,237	0			55,423

1.2D + 1.0W Normal Pattern 3

Gust Response Factor (Gh): 0.85

120 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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1256	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2595	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	3218	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1981	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	2029	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4815	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	5825	0	3821	1068	4890
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	6443	0	4055	1037	5092
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	8261	0	4411	1001	5412
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	7779	0	4026	959	4986
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	8547	0	4246	910	5156
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	10198	0	4140	848	4988
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	10737	0	4104	761	4865
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	11553	0	3520	659	4179
Totals														85,237	0			55,423

1.2D + 1.0W 60° Pattern 1

Gust Response Factor (Gh): 0.85

120 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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1256	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2595	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	3218	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1981	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	2029	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4815	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	5825	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	6443	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	8261	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	7779	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	8547	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	10198	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	10737	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	11553	0	2928	659	3587

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES																		
1.2D + 1.0W 60° Pattern 1						Gust Response Factor (Gh):				0.85								
120 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)
Totals														85,237	0	48,399		
1.2D + 1.0W 60° Pattern 2						Gust Response Factor (Gh):				0.85								
120 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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1256	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2595	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	3218	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1981	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	2029	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4815	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	5825	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	6443	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	8261	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	7779	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	8547	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	10198	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	10737	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	11553	0	2928	659	3587
Totals														85,237	0	48,399		
1.2D + 1.0W 60° Pattern 3						Gust Response Factor (Gh):				0.85								
120 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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1256	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2595	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	3218	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1981	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	2029	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4815	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	5825	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	6443	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	8261	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	7779	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	8547	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	10198	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	10737	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	11553	0	2928	659	3587
Totals														85,237	0	48,399		
1.2D + 1.0W 90° Pattern 1						Gust Response Factor (Gh):				0.85								
120 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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1256	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2595	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	3218	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1981	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	2029	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4815	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	5825	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	6443	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	8261	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	7779	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	8547	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	10198	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	10737	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	11553	0	3076	659	3735
Totals														85,237	0	50,155		
1.2D + 1.0W 90° Pattern 2						Gust Response Factor (Gh):				0.85								
120 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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1256	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2595	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	3218	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1981	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	2029	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4815	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	5825	0	3357	1068	4425

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

1.2D + 1.0W 90° Pattern 2
120 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 _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)
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	6443	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	8261	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	7779	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	8547	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	10198	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	10737	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	11553	0	3076	659	3735
Totals															85,237	0		50,155

1.2D + 1.0W 90° Pattern 3
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1256	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2595	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	3218	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1981	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	2029	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4815	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	5825	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	6443	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	8261	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	7779	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	8547	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	10198	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	10737	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	11553	0	3076	659	3735
Totals															85,237	0		50,155

1.2D + 1.0W 120° Pattern 1
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1256	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2595	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	3218	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1981	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	2029	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4815	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	5825	0	3821	1068	4890
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	6443	0	4055	1037	5092
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	8261	0	4411	1001	5412
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	7779	0	4026	959	4986
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	8547	0	4246	910	5156
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	10198	0	4140	848	4988
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	10737	0	4104	761	4865
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	11553	0	3520	659	4179
Totals															85,237	0		55,423

1.2D + 1.0W 120° Pattern 2
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1256	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2595	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	3218	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1981	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	2029	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4815	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	5825	0	3821	1068	4890
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	6443	0	4055	1037	5092
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	8261	0	4411	1001	5412
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	7779	0	4026	959	4986
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	8547	0	4246	910	5156
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	10198	0	4140	848	4988
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	10737	0	4104	761	4865
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	11553	0	3520	659	4179
Totals															85,237	0		55,423

1.2D + 1.0W 120° Pattern 3
120 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 _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)
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ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

1.2D + 1.0W 120° Pattern 3
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1256	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2595	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	3218	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1981	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	2029	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4815	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	5825	0	3821	1068	4890
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	6443	0	4055	1037	5092
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	8261	0	4411	1001	5412
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	7779	0	4026	959	4986
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	8547	0	4246	910	5156
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	10198	0	4140	848	4988
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	10737	0	4104	761	4865
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	11553	0	3520	659	4179
Totals														85,237	0			55,423

1.2D + 1.0W 180° Pattern 1
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1256	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2595	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	3218	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1981	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	2029	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4815	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	5825	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	6443	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	8261	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	7779	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	8547	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	10198	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	10737	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	11553	0	2928	659	3587
Totals														85,237	0			48,399

1.2D + 1.0W 180° Pattern 2
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1256	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2595	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	3218	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1981	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	2029	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4815	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	5825	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	6443	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	8261	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	7779	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	8547	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	10198	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	10737	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	11553	0	2928	659	3587
Totals														85,237	0			48,399

1.2D + 1.0W 180° Pattern 3
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1256	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2595	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	3218	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1981	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	2029	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4815	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	5825	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	6443	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	8261	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	7779	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	8547	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	10198	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	10737	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	11553	0	2928	659	3587

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

1.2D + 1.0W 180° Pattern 3
120 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 _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)
Totals														85,237	0			48,399

1.2D + 1.0W 210° Pattern 1
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1256	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2595	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	3218	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1981	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	2029	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4815	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	5825	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	6443	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	8261	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	7779	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	8547	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	10198	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	10737	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	11553	0	3076	659	3735
Totals														85,237	0			50,155

1.2D + 1.0W 210° Pattern 2
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1256	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2595	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	3218	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1981	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	2029	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4815	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	5825	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	6443	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	8261	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	7779	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	8547	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	10198	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	10737	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	11553	0	3076	659	3735
Totals														85,237	0			50,155

1.2D + 1.0W 210° Pattern 3
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1256	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2595	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	3218	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1981	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	2029	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4815	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	5825	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	6443	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	8261	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	7779	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	8547	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	10198	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	10737	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	11553	0	3076	659	3735
Totals														85,237	0			50,155

1.2D + 1.0W 240° Pattern 1
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1256	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2595	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	3218	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1981	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	2029	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4815	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	5825	0	3821	1068	4890

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

1.2D + 1.0W 240° Pattern 1														
120 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 _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)
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	6443
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	8261
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	7779
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	8547
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	10198
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	10737
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	11553
Totals														85,237
														0
														55,423

1.2D + 1.0W 240° Pattern 2														
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2595
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	3218
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1981
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	2029
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4815
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	5825
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	6443
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	8261
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	7779
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	8547
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	10198
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	10737
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	11553
Totals														85,237
														0
														55,423

1.2D + 1.0W 240° Pattern 3														
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2595
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	3218
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1981
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	2029
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4815
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	5825
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	6443
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	8261
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	7779
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	8547
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	10198
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	10737
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	11553
Totals														85,237
														0
														55,423

1.2D + 1.0W 300° Pattern 1															Gust Response Factor (Gh): 0.85				
120 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)	
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1256	0	893	321	1214	
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2595	0	1639	1016	2654	
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	3218	0	1886	1118	3004	
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1981	0	1175	565	1739	
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	2029	0	1218	558	1777	
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4815	0	2652	1097	3749	
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	5825	0	3202	1068	4270	
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	6443	0	3393	1037	4430	
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	8261	0	3680	1001	4681	
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	7779	0	3375	959	4335	
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	8547	0	3550	910	4460	
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	10198	0	3465	848	4313	
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	10737	0	3425	761	4187	
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	11553	0	2928	659	3587	
Totals														85,237	0	48,399			

SECTION FORCES																		
1.2D + 1.0W 300° Pattern 2						Gust Response Factor (Gh):		0.85										
120 mph Wind with No Ice						Wind Importance Factor (Iw):		1.00										
Section #	Elev (ft)	Q _Z (psf)	A _f (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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1256	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2595	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	3218	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1981	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	2029	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4815	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	5825	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	6443	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	8261	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	7779	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	8547	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	10198	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	10737	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	11553	0	2928	659	3587
Totals														85,237	0	48,399		

1.2D + 1.0W 300° Pattern 3										Gust Response Factor (Gh):		0.85						
120 mph Wind with No Ice										Wind Importance Factor (Iw):		1.00						
Section #	Elev (ft)	Q _Z (psf)	A _f (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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1256	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2595	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	3218	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1981	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	2029	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4815	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	5825	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	6443	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	8261	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	7779	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	8547	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	10198	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	10737	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	11553	0	2928	659	3587
Totals														85,237	0	48,399		

1.2D + 1.0W 330° Pattern 1										Gust Response Factor (Gh):		0.85						
120 mph Wind with No Ice										Wind Importance Factor (Iw):		1.00						
Section #	Elev (ft)	Q _Z (psf)	A _f (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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1256	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2595	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	3218	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1981	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	2029	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4815	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	5825	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	6443	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	8261	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	7779	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	8547	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	10198	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	10737	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	11553	0	3076	659	3735
Totals														85,237	0	50,155		

1.2D + 1.0W 330° Pattern 2						Gust Response Factor (Gh): 0.85												
120 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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1256	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2595	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	3218	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1981	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	2029	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4815	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	5825	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	6443	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	8261	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	7779	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	8547	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	10198	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	10737	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	11553	0	3076	659	3735

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

1.2D + 1.0W 330° Pattern 2
120 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 _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)
Totals														85,237	0			50,155

1.2D + 1.0W 330° Pattern 3
120 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 _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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1256	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2595	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	3218	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1981	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	2029	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4815	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	5825	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	6443	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	8261	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	7779	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	8547	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	10198	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	10737	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	11553	0	3076	659	3735
Totals														85,237	0			50,155

0.9D + 1.0W Normal

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	942	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	1946	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	2413	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1486	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	1522	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	3611	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	4368	0	3821	1068	4890
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	4832	0	4055	1037	5092
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	6196	0	4411	1001	5412
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	5834	0	4026	959	4986
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	6410	0	4246	910	5156
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	7649	0	4140	848	4988
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	8053	0	4104	761	4865
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	8665	0	3520	659	4179
Totals														63,928	0			55,423

0.9D + 1.0W 60°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	942	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	1946	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	2413	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1486	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	1522	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	3611	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	4368	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	4832	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	6196	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	5834	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	6410	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	7649	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	8053	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	8665	0	2928	659	3587
Totals														63,928	0			48,399

0.9D + 1.0W 90°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	942	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	1946	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	2413	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1486	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	1522	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	3611	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	4368	0	3357	1068	4425

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

0.9D + 1.0W 90°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	4832	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	6196	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	5834	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	6410	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	7649	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	8053	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	8665	0	3076	659	3735
Totals															63,928	0		50,155

0.9D + 1.0W 120°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	942	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	1946	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	2413	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1486	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	1522	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	3611	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	4368	0	3821	1068	4890
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	4832	0	4055	1037	5092
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	6196	0	4411	1001	5412
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	5834	0	4026	959	4986
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	6410	0	4246	910	5156
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	7649	0	4140	848	4988
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	8053	0	4104	761	4865
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	8665	0	3520	659	4179
Totals															63,928	0		55,423

0.9D + 1.0W 180°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	942	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	1946	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	2413	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1486	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	1522	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	3611	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	4368	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	4832	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	6196	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	5834	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	6410	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	7649	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	8053	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	8665	0	2928	659	3587
Totals															63,928	0		48,399

0.9D + 1.0W 210°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	942	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	1946	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	2413	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1486	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	1522	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	3611	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	4368	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	4832	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	6196	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	5834	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	6410	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	7649	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	8053	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	8665	0	3076	659	3735
Totals															63,928	0		50,155

0.9D + 1.0W 240°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
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ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

0.9D + 1.0W 240°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	942	0	1059	321	1380
13	230	47.15	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	1946	0	1932	1016	2947
12	210	46.25	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	2413	0	2214	1118	3332
11	195	45.54	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1486	0	1392	565	1956
10	185	45.03	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	1522	0	1447	558	2005
9	170	44.24	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	3611	0	3138	1097	4235
8	150	43.09	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.18	104.34	0.00	4368	0	3821	1068	4890
7	130	41.81	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.41	114.11	0.00	4832	0	4055	1037	5092
6	110	40.36	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.53	128.57	0.00	6196	0	4411	1001	5412
5	90	38.69	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.51	122.41	0.00	5834	0	4026	959	4986
4	70	36.70	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.28	136.10	0.00	6410	0	4246	910	5156
3	50	34.19	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	47.95	142.46	0.00	7649	0	4140	848	4988
2	30	30.70	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.54	157.25	0.00	8053	0	4104	761	4865
1	10	26.57	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	51.41	155.85	0.00	8665	0	3520	659	4179
Totals														63,928	0			55,423

0.9D + 1.0W 300°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	942	0	893	321	1214
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	1946	0	1639	1016	2654
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	2413	0	1886	1118	3004
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1486	0	1175	565	1739
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	1522	0	1218	558	1777
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	3611	0	2652	1097	3749
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.32	87.43	0.00	4368	0	3202	1068	4270
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	32.98	95.48	0.00	4832	0	3393	1037	4430
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.15	107.25	0.00	6196	0	3680	1001	4681
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	34.80	102.62	0.00	5834	0	3375	959	4335
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	38.70	113.80	0.00	6410	0	3550	910	4460
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.13	119.23	0.00	7649	0	3465	848	4313
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	43.85	131.24	0.00	8053	0	3425	761	4187
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	42.77	129.65	0.00	8665	0	2928	659	3587
Totals														63,928	0			48,399

0.9D + 1.0W 330°

Gust Response Factor (Gh): 0.85

120 mph Wind with No Ice (Reduced DL)

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)
14	245	47.78	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	942	0	935	321	1256
13	230	47.15	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	1946	0	1712	1016	2727
12	210	46.25	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	2413	0	1968	1118	3086
11	195	45.54	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1486	0	1229	565	1794
10	185	45.03	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	1522	0	1275	558	1834
9	170	44.24	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	3611	0	2774	1097	3871
8	150	43.09	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.78	91.66	0.00	4368	0	3357	1068	4425
7	130	41.81	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.59	100.13	0.00	4832	0	3559	1037	4595
6	110	40.36	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	38.99	112.58	0.00	6196	0	3863	1001	4864
5	90	38.69	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.48	107.57	0.00	5834	0	3538	959	4498
4	70	36.70	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	40.59	119.37	0.00	6410	0	3724	910	4634
3	50	34.19	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.09	125.03	0.00	7649	0	3634	848	4482
2	30	30.70	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.02	137.74	0.00	8053	0	3595	761	4356
1	10	26.57	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	44.93	136.20	0.00	8665	0	3076	659	3735
Totals														63,928	0			50,155

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 _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)
14	245	2.99	7.195	3.333	0.00	0.129	2.85	1.00	1.00	0.0	9.17	26.15	0.00	1256	0	66	24	91
13	230	2.95	12.440	6.678	0.00	0.104	2.95	1.00	1.00	0.0	16.40	48.32	0.00	2595	0	121	80	201
12	210	2.89	14.103	8.347	0.00	0.100	2.96	1.00	1.00	0.0	19.05	56.45	0.00	3218	0	139	90	229
11	195	2.85	9.634	4.591	0.00	0.112	2.92	1.00	1.00	0.0	12.36	36.05	0.00	1981	0	87	45	132
10	185	2.81	10.191	4.591	0.00	0.108	2.93	1.00	1.00	0.0	12.91	37.88	0.00	2029	0	91	45	136
9	170	2.76	22.092	10.851	0.00	0.108	2.93	1.00	1.00	0.0	28.52	83.65	0.00	4815	0	197	88	285
8	150	2.69	29.319	11.686	0.00	0.119	2.89	1.00	1.00	0.0	36.25	104.79	0.00	5825	0	240	85	325
7	130	2.61	32.182	12.521	0.00	0.116	2.90	1.00	1.00	0.0	39.61	114.93	0.00	6443	0	255	83	338
6	110	2.52	36.925	13.356	0.00	0.118	2.89	1.00	1.00	0.0	44.85	129.76	0.00	8261	0	278	80	358
5	90	2.42	33.551	14.190	0.00	0.102	2.96	1.00	1.00	0.0	41.96	124.00	0.00	7779	0	255	77	332
4	70	2.29	37.918	15.025	0.00	0.104	2.95	1.00	1.00	0.0	46.82	137.97	0.00	8547	0	269	73	342
3	50	2.14	39.098	15.938	0.00	0.097	2.98	1.00	1.00	0.0	48.54	144.48	0.00	10198	0	262	69	331
2	30	1.92	43.454	15.938	0.00	0.092	3.00	1.00	1.00	0.0	52.90	158.57	0.00	10737	0	259	62	321
1	10	1.66	43.211	16.777	0.00	0.082	3.04	1.00	1.00	0.0	53.15	161.36	0.00	11553	0	228	54	282

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

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 _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)
Totals													85,237	0	3,703			

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 _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)
14	245	2.99	7.195	3.333	0.00	0.129	2.85	0.80	1.00	0.0	7.74	22.05	0.00	1256	0	56	24	80
13	230	2.95	12.440	6.678	0.00	0.104	2.95	0.80	1.00	0.0	13.91	40.99	0.00	2595	0	103	80	183
12	210	2.89	14.103	8.347	0.00	0.100	2.96	0.80	1.00	0.0	16.23	48.09	0.00	3218	0	118	90	208
11	195	2.85	9.634	4.591	0.00	0.112	2.92	0.80	1.00	0.0	10.43	30.43	0.00	1981	0	74	45	119
10	185	2.81	10.191	4.591	0.00	0.108	2.93	0.80	1.00	0.0	10.87	31.90	0.00	2029	0	76	45	121
9	170	2.76	22.092	10.851	0.00	0.108	2.93	0.80	1.00	0.0	24.11	70.69	0.00	4815	0	166	88	254
8	150	2.69	29.319	11.686	0.00	0.119	2.89	0.80	1.00	0.0	30.39	87.84	0.00	5825	0	201	85	286
7	130	2.61	32.182	12.521	0.00	0.116	2.90	0.80	1.00	0.0	33.17	96.25	0.00	6443	0	214	83	297
6	110	2.52	36.925	13.356	0.00	0.118	2.89	0.80	1.00	0.0	37.46	108.40	0.00	8261	0	232	80	312
5	90	2.42	33.551	14.190	0.00	0.102	2.96	0.80	1.00	0.0	35.25	104.17	0.00	7779	0	214	77	292
4	70	2.29	37.918	15.025	0.00	0.104	2.95	0.80	1.00	0.0	39.24	115.63	0.00	8547	0	225	73	299
3	50	2.14	39.098	15.938	0.00	0.097	2.98	0.80	1.00	0.0	40.72	121.21	0.00	10198	0	220	69	289
2	30	1.92	43.454	15.938	0.00	0.092	3.00	0.80	1.00	0.0	44.21	132.52	0.00	10737	0	216	62	278
1	10	1.66	43.211	16.777	0.00	0.082	3.04	0.80	1.00	0.0	44.51	135.12	0.00	11553	0	191	54	245
Totals														85,237	0	3,263		

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 _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)	
14	245	2.99	7.195	3.333	0.00	0.129	2.85	0.85	1.00	0.0	8.10	23.08	0.00	1256	0	59	24	83	
13	230	2.95	12.440	6.678	0.00	0.104	2.95	0.85	1.00	0.0	14.53	42.82	0.00	2595	0	107	80	187	
12	210	2.89	14.103	8.347	0.00	0.100	2.96	0.85	1.00	0.0	16.93	50.18	0.00	3218	0	123	90	213	
11	195	2.85	9.634	4.591	0.00	0.112	2.92	0.85	1.00	0.0	10.91	31.83	0.00	1981	0	77	45	122	
10	185	2.81	10.191	4.591	0.00	0.108	2.93	0.85	1.00	0.0	11.38	33.39	0.00	2029	0	80	45	125	
9	170	2.76	22.092	10.851	0.00	0.108	2.93	0.85	1.00	0.0	25.21	73.93	0.00	4815	0	174	88	262	
8	150	2.69	29.319	11.686	0.00	0.119	2.89	0.85	1.00	0.0	31.85	92.08	0.00	5825	0	211	85	296	
7	130	2.61	32.182	12.521	0.00	0.116	2.90	0.85	1.00	0.0	34.78	100.92	0.00	6443	0	224	83	307	
6	110	2.52	36.925	13.356	0.00	0.118	2.89	0.85	1.00	0.0	39.31	113.74	0.00	8261	0	244	80	324	
5	90	2.42	33.551	14.190	0.00	0.102	2.96	0.85	1.00	0.0	36.93	109.13	0.00	7779	0	224	77	302	
4	70	2.29	37.918	15.025	0.00	0.104	2.95	0.85	1.00	0.0	41.14	121.21	0.00	8547	0	236	73	310	
3	50	2.14	39.098	15.938	0.00	0.097	2.98	0.85	1.00	0.0	42.68	127.03	0.00	10198	0	231	69	299	
2	30	1.92	43.454	15.938	0.00	0.092	3.00	0.85	1.00	0.0	46.38	139.03	0.00	10737	0	227	62	289	
1	10	1.66	43.211	16.777	0.00	0.082	3.04	0.85	1.00	0.0	46.67	141.68	0.00	11553	0	200	54	254	
Totals														85,237	0	3,373			

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)	
14	245	2.99	7.195	3.333	0.00	0.129	2.85	1.00	1.00	0.0	9.17	26.15	0.00	1256	0	66	24	91	
13	230	2.95	12.440	6.678	0.00	0.104	2.95	1.00	1.00	0.0	16.40	48.32	0.00	2595	0	121	80	201	
12	210	2.89	14.103	8.347	0.00	0.100	2.96	1.00	1.00	0.0	19.05	56.45	0.00	3218	0	139	90	229	
11	195	2.85	9.634	4.591	0.00	0.112	2.92	1.00	1.00	0.0	12.36	36.05	0.00	1981	0	87	45	132	
10	185	2.81	10.191	4.591	0.00	0.108	2.93	1.00	1.00	0.0	12.91	37.88	0.00	2029	0	91	45	136	
9	170	2.76	22.092	10.851	0.00	0.108	2.93	1.00	1.00	0.0	28.52	83.65	0.00	4815	0	197	88	285	
8	150	2.69	29.319	11.686	0.00	0.119	2.89	1.00	1.00	0.0	36.25	104.79	0.00	5825	0	240	85	325	
7	130	2.61	32.182	12.521	0.00	0.116	2.90	1.00	1.00	0.0	39.61	114.93	0.00	6443	0	255	83	338	
6	110	2.52	36.925	13.356	0.00	0.118	2.89	1.00	1.00	0.0	44.85	129.76	0.00	8261	0	278	80	358	
5	90	2.42	33.551	14.190	0.00	0.102	2.96	1.00	1.00	0.0	41.96	124.00	0.00	7779	0	255	77	332	
4	70	2.29	37.918	15.025	0.00	0.104	2.95	1.00	1.00	0.0	46.82	137.97	0.00	8547	0	269	73	342	
3	50	2.14	39.098	15.938	0.00	0.097	2.98	1.00	1.00	0.0	48.54	144.48	0.00	10198	0	262	69	331	
2	30	1.92	43.454	15.938	0.00	0.092	3.00	1.00	1.00	0.0	52.90	158.57	0.00	10737	0	259	62	321	
1	10	1.66	43.211	16.777	0.00	0.082	3.04	1.00	1.00	0.0	53.15	161.36	0.00	11553	0	228	54	282	
Totals														85,237	0	3,703			

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 _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)	
14	245	2.99	7.195	3.333	0.00	0.129	2.85	0.80	1.00	0.0	7.74	22.05	0.00	1256	0	56	24	80	
13	230	2.95	12.440	6.678	0.00	0.104	2.95	0.80	1.00	0.0	13.91	40.99	0.00	2595	0	103	80	183	
12	210	2.89	14.103	8.347	0.00	0.100	2.96	0.80	1.00	0.0	16.23	48.09	0.00	3218	0	118	90	208	
11	195	2.85	9.634	4.591	0.00	0.112	2.92	0.80	1.00	0.0	10.43	30.43	0.00	1981	0	74	45	119	
10	185	2.81	10.191	4.591	0.00	0.108	2.93	0.80	1.00	0.0	10.87	31.90	0.00	2029	0	76	45	121	
9	170	2.76	22.092	10.851	0.00	0.108	2.93	0.80	1.00	0.0	24.11	70.69	0.00	4815	0	166	88	254	
8	150	2.69	29.319	11.686	0.00	0.119	2.89	0.80	1.00	0.0	30.39	87.84	0.00	5825	0	201	85	286	

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

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 _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)
7	130	2.61	32.182	12.521	0.00	0.116	2.90	0.80	1.00	0.0	33.17	96.25	0.00	6443	0	214	83	297
6	110	2.52	36.925	13.356	0.00	0.118	2.89	0.80	1.00	0.0	37.46	108.40	0.00	8261	0	232	80	312
5	90	2.42	33.551	14.190	0.00	0.102	2.96	0.80	1.00	0.0	35.25	104.17	0.00	7779	0	214	77	292
4	70	2.29	37.918	15.025	0.00	0.104	2.95	0.80	1.00	0.0	39.24	115.63	0.00	8547	0	225	73	299
3	50	2.14	39.098	15.938	0.00	0.097	2.98	0.80	1.00	0.0	40.72	121.21	0.00	10198	0	220	69	289
2	30	1.92	43.454	15.938	0.00	0.092	3.00	0.80	1.00	0.0	44.21	132.52	0.00	10737	0	216	62	278
1	10	1.66	43.211	16.777	0.00	0.082	3.04	0.80	1.00	0.0	44.51	135.12	0.00	11553	0	191	54	245
Totals															85,237	0		3,263

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 _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)
14	245	2.99	7.195	3.333	0.00	0.129	2.85	0.85	1.00	0.0	8.10	23.08	0.00	1256	0	59	24	83
13	230	2.95	12.440	6.678	0.00	0.104	2.95	0.85	1.00	0.0	14.53	42.82	0.00	2595	0	107	80	187
12	210	2.89	14.103	8.347	0.00	0.100	2.96	0.85	1.00	0.0	16.93	50.18	0.00	3218	0	123	90	213
11	195	2.85	9.634	4.591	0.00	0.112	2.92	0.85	1.00	0.0	10.91	31.83	0.00	1981	0	77	45	122
10	185	2.81	10.191	4.591	0.00	0.108	2.93	0.85	1.00	0.0	11.38	33.39	0.00	2029	0	80	45	125
9	170	2.76	22.092	10.851	0.00	0.108	2.93	0.85	1.00	0.0	25.21	73.93	0.00	4815	0	174	88	262
8	150	2.69	29.319	11.686	0.00	0.119	2.89	0.85	1.00	0.0	31.85	92.08	0.00	5825	0	211	85	296
7	130	2.61	32.182	12.521	0.00	0.116	2.90	0.85	1.00	0.0	34.78	100.92	0.00	6443	0	224	83	307
6	110	2.52	36.925	13.356	0.00	0.118	2.89	0.85	1.00	0.0	39.31	113.74	0.00	8261	0	244	80	324
5	90	2.42	33.551	14.190	0.00	0.102	2.96	0.85	1.00	0.0	36.93	109.13	0.00	7779	0	224	77	302
4	70	2.29	37.918	15.025	0.00	0.104	2.95	0.85	1.00	0.0	41.14	121.21	0.00	8547	0	236	73	310
3	50	2.14	39.098	15.938	0.00	0.097	2.98	0.85	1.00	0.0	42.68	127.03	0.00	10198	0	231	69	299
2	30	1.92	43.454	15.938	0.00	0.092	3.00	0.85	1.00	0.0	46.38	139.03	0.00	10737	0	227	62	289
1	10	1.66	43.211	16.777	0.00	0.082	3.04	0.85	1.00	0.0	46.67	141.68	0.00	11553	0	200	54	254
Totals															85,237	0		3,373

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 _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)
14	245	2.99	7.195	3.333	0.00	0.129	2.85	1.00	1.00	0.0	9.17	26.15	0.00	1256	0	66	24	91
13	230	2.95	12.440	6.678	0.00	0.104	2.95	1.00	1.00	0.0	16.40	48.32	0.00	2595	0	121	80	201
12	210	2.89	14.103	8.347	0.00	0.100	2.96	1.00	1.00	0.0	19.05	56.45	0.00	3218	0	139	90	229
11	195	2.85	9.634	4.591	0.00	0.112	2.92	1.00	1.00	0.0	12.36	36.05	0.00	1981	0	87	45	132
10	185	2.81	10.191	4.591	0.00	0.108	2.93	1.00	1.00	0.0	12.91	37.88	0.00	2029	0	91	45	136
9	170	2.76	22.092	10.851	0.00	0.108	2.93	1.00	1.00	0.0	28.52	83.65	0.00	4815	0	197	88	285
8	150	2.69	29.319	11.686	0.00	0.119	2.89	1.00	1.00	0.0	36.25	104.79	0.00	5825	0	240	85	325
7	130	2.61	32.182	12.521	0.00	0.116	2.90	1.00	1.00	0.0	39.61	114.93	0.00	6443	0	255	83	338
6	110	2.52	36.925	13.356	0.00	0.118	2.89	1.00	1.00	0.0	44.85	129.76	0.00	8261	0	278	80	358
5	90	2.42	33.551	14.190	0.00	0.102	2.96	1.00	1.00	0.0	41.96	124.00	0.00	7779	0	255	77	332
4	70	2.29	37.918	15.025	0.00	0.104	2.95	1.00	1.00	0.0	46.82	137.97	0.00	8547	0	269	73	342
3	50	2.14	39.098	15.938	0.00	0.097	2.98	1.00	1.00	0.0	48.54	144.48	0.00	10198	0	262	69	331
2	30	1.92	43.454	15.938	0.00	0.092	3.00	1.00	1.00	0.0	52.90	158.57	0.00	10737	0	259	62	321
1	10	1.66	43.211	16.777	0.00	0.082	3.04	1.00	1.00	0.0	53.15	161.36	0.00	11553	0	228	54	282
Totals															85,237	0		3,703

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 _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)
14	245	2.99	7.195	3.333	0.00	0.129	2.85	0.80	1.00	0.0	7.74	22.05	0.00	1256	0	56	24	80
13	230	2.95	12.440	6.678	0.00	0.104	2.95	0.80	1.00	0.0	13.91	40.99	0.00	2595	0	103	80	183
12	210	2.89	14.103	8.347	0.00	0.100	2.96	0.80	1.00	0.0	16.23	48.09	0.00	3218	0	118	90	208
11	195	2.85	9.634	4.591	0.00	0.112	2.92	0.80	1.00	0.0	10.43	30.43	0.00	1981	0	74	45	119
10	185	2.81	10.191	4.591	0.00	0.108	2.93	0.80	1.00	0.0	10.87	31.90	0.00	2029	0	76	45	121
9	170	2.76	22.092	10.851	0.00	0.108	2.93	0.80	1.00	0.0	24.11	70.69	0.00	4815	0	166	88	254
8	150	2.69	29.319	11.686	0.00	0.119	2.89	0.80	1.00	0.0	30.39	87.84	0.00	5825	0	201	85	286
7	130	2.61	32.182	12.521	0.00	0.116	2.90	0.80	1.00	0.0	33.17	96.25	0.00	6443	0	214	83	297
6	110	2.52	36.925	13.356	0.00	0.118	2.89	0.80	1.00	0.0	37.46	108.40	0.00	8261	0	232	80	312
5	90	2.42	33.551	14.190	0.00	0.102	2.96	0.80	1.00	0.0	35.25	104.17	0.00	7779	0	214	77	292
4	70	2.29	37.918	15.025	0.00	0.104	2.95	0.80	1.00	0.0	39.24	115.63	0.00	8547	0	225	73	299
3	50	2.14	39.098	15.938	0.00	0.097	2.98	0.80	1.00	0.0	40.72	121.21	0.00	10198	0	220	69	289
2	30	1.92	43.454	15.938	0.00	0.092	3.00	0.80	1.00	0.0	44.21	132.52	0.00	10737	0	216	62	278
1	10	1.66	43.211	16.777	0.00	0.082	3.04	0.80	1.00	0.0	44.51	135.12	0.00	11553	0	191	54	245
Totals															85,237	0		3,263

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 _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)
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ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

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 _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)
14	245	2.99	7.195	3.333	0.00	0.129	2.85	0.85	1.00	0.0	8.10	23.08	0.00	1256	0	59	24	83
13	230	2.95	12.440	6.678	0.00	0.104	2.95	0.85	1.00	0.0	14.53	42.82	0.00	2595	0	107	80	187
12	210	2.89	14.103	8.347	0.00	0.100	2.96	0.85	1.00	0.0	16.93	50.18	0.00	3218	0	123	90	213
11	195	2.85	9.634	4.591	0.00	0.112	2.92	0.85	1.00	0.0	10.91	31.83	0.00	1981	0	77	45	122
10	185	2.81	10.191	4.591	0.00	0.108	2.93	0.85	1.00	0.0	11.38	33.39	0.00	2029	0	80	45	125
9	170	2.76	22.092	10.851	0.00	0.108	2.93	0.85	1.00	0.0	25.21	73.93	0.00	4815	0	174	88	262
8	150	2.69	29.319	11.686	0.00	0.119	2.89	0.85	1.00	0.0	31.85	92.08	0.00	5825	0	211	85	296
7	130	2.61	32.182	12.521	0.00	0.116	2.90	0.85	1.00	0.0	34.78	100.92	0.00	6443	0	224	83	307
6	110	2.52	36.925	13.356	0.00	0.118	2.89	0.85	1.00	0.0	39.31	113.74	0.00	8261	0	244	80	324
5	90	2.42	33.551	14.190	0.00	0.102	2.96	0.85	1.00	0.0	36.93	109.13	0.00	7779	0	224	77	302
4	70	2.29	37.918	15.025	0.00	0.104	2.95	0.85	1.00	0.0	41.14	121.21	0.00	8547	0	236	73	310
3	50	2.14	39.098	15.938	0.00	0.097	2.98	0.85	1.00	0.0	42.68	127.03	0.00	10198	0	231	69	299
2	30	1.92	43.454	15.938	0.00	0.092	3.00	0.85	1.00	0.0	46.38	139.03	0.00	10737	0	227	62	289
1	10	1.66	43.211	16.777	0.00	0.082	3.04	0.85	1.00	0.0	46.67	141.68	0.00	11553	0	200	54	254
Totals														85,237	0			3,373

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 _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)
14	245	11.94	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1046	0	265	80	345
13	230	11.79	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2163	0	483	254	737
12	210	11.56	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	2682	0	553	279	833
11	195	11.38	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1651	0	348	141	489
10	185	11.26	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	1691	0	362	140	501
9	170	11.06	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4013	0	785	274	1059
8	150	10.77	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.25	104.55	0.00	4854	0	957	267	1224
7	130	10.45	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.61	114.68	0.00	5369	0	1019	259	1278
6	110	10.09	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.85	129.49	0.00	6884	0	1111	250	1361
5	90	9.67	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.96	123.75	0.00	6483	0	1018	240	1257
4	70	9.18	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.82	137.70	0.00	7122	0	1074	228	1301
3	50	8.55	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	48.54	144.21	0.00	8499	0	1048	212	1260
2	30	7.68	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.90	158.31	0.00	8947	0	1033	190	1223
1	10	6.64	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	53.15	161.11	0.00	9627	0	910	165	1074
Totals														71,031	0			13,944

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 _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)
14	245	11.94	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1046	0	223	80	304
13	230	11.79	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2163	0	410	254	664
12	210	11.56	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	2682	0	472	279	751
11	195	11.38	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1651	0	294	141	435
10	185	11.26	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	1691	0	305	140	444
9	170	11.06	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4013	0	663	274	937
8	150	10.77	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.39	87.64	0.00	4854	0	802	267	1070
7	130	10.45	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	33.17	96.05	0.00	5369	0	853	259	1113
6	110	10.09	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.47	108.17	0.00	6884	0	928	250	1178
5	90	9.67	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	35.25	103.96	0.00	6483	0	855	240	1095
4	70	9.18	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	39.24	115.40	0.00	7122	0	900	228	1127
3	50	8.55	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.72	120.98	0.00	8499	0	879	212	1091
2	30	7.68	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	44.21	132.30	0.00	8947	0	863	190	1054
1	10	6.64	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	44.51	134.91	0.00	9627	0	762	165	926
Totals														71,031	0			12,188

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 _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)
14	245	11.94	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1046	0	234	80	314
13	230	11.79	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2163	0	428	254	682
12	210	11.56	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	2682	0	492	279	771
11	195	11.38	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1651	0	307	141	448
10	185	11.26	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	1691	0	319	140	458
9	170	11.06	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4013	0	693	274	968
8	150	10.77	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.86	91.87	0.00	4854	0	841	267	1108
7	130	10.45	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.78	100.71	0.00	5369	0	895	259	1154
6	110	10.09	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	39.31	113.50	0.00	6884	0	974	250	1224
5	90	9.67	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.93	108.90	0.00	6483	0	895	240	1135
4	70	9.18	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	41.14	120.97	0.00	7122	0	943	228	1171
3	50	8.55	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.68	126.78	0.00	8499	0	921	212	1133
2	30	7.68	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.38	138.80	0.00	8947	0	906	190	1096
1	10	6.64	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	46.67	141.46	0.00	9627	0	799	165	963

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

SECTION FORCES

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 _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)
Totals														71,031	0			12,627

1.0D + 1.0W Service 120°

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 _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)
14	245	11.94	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1046	0	265	80	345
13	230	11.79	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2163	0	483	254	737
12	210	11.56	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	2682	0	553	279	833
11	195	11.38	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1651	0	348	141	489
10	185	11.26	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	1691	0	362	140	501
9	170	11.06	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4013	0	785	274	1059
8	150	10.77	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.25	104.55	0.00	4854	0	957	267	1224
7	130	10.45	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.61	114.68	0.00	5369	0	1019	259	1278
6	110	10.09	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.85	129.49	0.00	6884	0	1111	250	1361
5	90	9.67	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.96	123.75	0.00	6483	0	1018	240	1257
4	70	9.18	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.82	137.70	0.00	7122	0	1074	228	1301
3	50	8.55	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	48.54	144.21	0.00	8499	0	1048	212	1260
2	30	7.68	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.90	158.31	0.00	8947	0	1033	190	1223
1	10	6.64	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	53.15	161.11	0.00	9627	0	910	165	1074
Totals														71,031	0			13,944

1.0D + 1.0W Service 180°

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 _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)
14	245	11.94	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1046	0	223	80	304
13	230	11.79	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2163	0	410	254	664
12	210	11.56	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	2682	0	472	279	751
11	195	11.38	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1651	0	294	141	435
10	185	11.26	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	1691	0	305	140	444
9	170	11.06	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4013	0	663	274	937
8	150	10.77	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.39	87.64	0.00	4854	0	802	267	1070
7	130	10.45	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	33.17	96.05	0.00	5369	0	853	259	1113
6	110	10.09	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.47	108.17	0.00	6884	0	928	250	1178
5	90	9.67	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	35.25	103.96	0.00	6483	0	855	240	1095
4	70	9.18	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	39.24	115.40	0.00	7122	0	900	228	1127
3	50	8.55	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.72	120.98	0.00	8499	0	879	212	1091
2	30	7.68	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	44.21	132.30	0.00	8947	0	863	190	1054
1	10	6.64	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	44.51	134.91	0.00	9627	0	762	165	926
Totals														71,031	0			12,188

1.0D + 1.0W Service 210°

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 _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)
14	245	11.94	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1046	0	234	80	314
13	230	11.79	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2163	0	428	254	682
12	210	11.56	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	2682	0	492	279	771
11	195	11.38	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1651	0	307	141	448
10	185	11.26	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	1691	0	319	140	458
9	170	11.06	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4013	0	693	274	968
8	150	10.77	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.86	91.87	0.00	4854	0	841	267	1108
7	130	10.45	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.78	100.71	0.00	5369	0	895	259	1154
6	110	10.09	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	39.31	113.50	0.00	6884	0	974	250	1224
5	90	9.67	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.93	108.90	0.00	6483	0	895	240	1135
4	70	9.18	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	41.14	120.97	0.00	7122	0	943	228	1171
3	50	8.55	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.68	126.78	0.00	8499	0	921	212	1133
2	30	7.68	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.38	138.80	0.00	8947	0	906	190	1096
1	10	6.64	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	46.67	141.46	0.00	9627	0	799	165	963
Totals														71,031	0			12,627

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 _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)
14	245	11.94	7.195	3.500	0.00	0.131	2.84	1.00	1.00	0.0	9.18	26.08	0.00	1046	0	265	80	345
13	230	11.79	12.440	7.012	0.00	0.106	2.94	1.00	1.00	0.0	16.40	48.20	0.00	2163	0	483	254	737
12	210	11.56	14.103	8.765	0.00	0.102	2.96	1.00	1.00	0.0	19.05	56.31	0.00	2682	0	553	279	833
11	195	11.38	9.634	4.820	0.00	0.114	2.91	1.00	1.00	0.0	12.36	35.96	0.00	1651	0	348	141	489
10	185	11.26	10.191	4.820	0.00	0.109	2.93	1.00	1.00	0.0	12.91	37.79	0.00	1691	0	362	140	501
9	170	11.06	22.092	11.394	0.00	0.110	2.93	1.00	1.00	0.0	28.53	83.45	0.00	4013	0	785	274	1059
8	150	10.77	29.319	12.270	0.00	0.120	2.88	1.00	1.00	0.0	36.25	104.55	0.00	4854	0	957	267	1224

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 _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)
7	130	10.45	32.182	13.147	0.00	0.117	2.90	1.00	1.00	0.0	39.61	114.68	0.00	5369	0	1019	259	1278
6	110	10.09	36.925	14.023	0.00	0.119	2.89	1.00	1.00	0.0	44.85	129.49	0.00	6884	0	1111	250	1361
5	90	9.67	33.551	14.900	0.00	0.104	2.95	1.00	1.00	0.0	41.96	123.75	0.00	6483	0	1018	240	1257
4	70	9.18	37.918	15.776	0.00	0.106	2.94	1.00	1.00	0.0	46.82	137.70	0.00	7122	0	1074	228	1301
3	50	8.55	39.098	16.736	0.00	0.098	2.97	1.00	1.00	0.0	48.54	144.21	0.00	8499	0	1048	212	1260
2	30	7.68	43.454	16.736	0.00	0.093	2.99	1.00	1.00	0.0	52.90	158.31	0.00	8947	0	1033	190	1223
1	10	6.64	43.211	17.616	0.00	0.084	3.03	1.00	1.00	0.0	53.15	161.11	0.00	9627	0	910	165	1074
Totals														71,031	0			13,944
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 _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)
14	245	11.94	7.195	3.500	0.00	0.131	2.84	0.80	1.00	0.0	7.74	21.99	0.00	1046	0	223	80	304
13	230	11.79	12.440	7.012	0.00	0.106	2.94	0.80	1.00	0.0	13.91	40.89	0.00	2163	0	410	254	664
12	210	11.56	14.103	8.765	0.00	0.102	2.96	0.80	1.00	0.0	16.23	47.97	0.00	2682	0	472	279	751
11	195	11.38	9.634	4.820	0.00	0.114	2.91	0.80	1.00	0.0	10.43	30.35	0.00	1651	0	294	141	435
10	185	11.26	10.191	4.820	0.00	0.109	2.93	0.80	1.00	0.0	10.87	31.83	0.00	1691	0	305	140	444
9	170	11.06	22.092	11.394	0.00	0.110	2.93	0.80	1.00	0.0	24.11	70.53	0.00	4013	0	663	274	937
8	150	10.77	29.319	12.270	0.00	0.120	2.88	0.80	1.00	0.0	30.39	87.64	0.00	4854	0	802	267	1070
7	130	10.45	32.182	13.147	0.00	0.117	2.90	0.80	1.00	0.0	33.17	96.05	0.00	5369	0	853	259	1113
6	110	10.09	36.925	14.023	0.00	0.119	2.89	0.80	1.00	0.0	37.47	108.17	0.00	6884	0	928	250	1178
5	90	9.67	33.551	14.900	0.00	0.104	2.95	0.80	1.00	0.0	35.25	103.96	0.00	6483	0	855	240	1095
4	70	9.18	37.918	15.776	0.00	0.106	2.94	0.80	1.00	0.0	39.24	115.40	0.00	7122	0	900	228	1127
3	50	8.55	39.098	16.736	0.00	0.098	2.97	0.80	1.00	0.0	40.72	120.98	0.00	8499	0	879	212	1091
2	30	7.68	43.454	16.736	0.00	0.093	2.99	0.80	1.00	0.0	44.21	132.30	0.00	8947	0	863	190	1054
1	10	6.64	43.211	17.616	0.00	0.084	3.03	0.80	1.00	0.0	44.51	134.91	0.00	9627	0	762	165	926
Totals														71,031	0			12,188
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 _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)
14	245	11.94	7.195	3.500	0.00	0.131	2.84	0.85	1.00	0.0	8.10	23.02	0.00	1046	0	234	80	314
13	230	11.79	12.440	7.012	0.00	0.106	2.94	0.85	1.00	0.0	14.53	42.72	0.00	2163	0	428	254	682
12	210	11.56	14.103	8.765	0.00	0.102	2.96	0.85	1.00	0.0	16.93	50.06	0.00	2682	0	492	279	771
11	195	11.38	9.634	4.820	0.00	0.114	2.91	0.85	1.00	0.0	10.91	31.76	0.00	1651	0	307	141	448
10	185	11.26	10.191	4.820	0.00	0.109	2.93	0.85	1.00	0.0	11.38	33.32	0.00	1691	0	319	140	458
9	170	11.06	22.092	11.394	0.00	0.110	2.93	0.85	1.00	0.0	25.21	73.76	0.00	4013	0	693	274	968
8	150	10.77	29.319	12.270	0.00	0.120	2.88	0.85	1.00	0.0	31.86	91.87	0.00	4854	0	841	267	1108
7	130	10.45	32.182	13.147	0.00	0.117	2.90	0.85	1.00	0.0	34.78	100.71	0.00	5369	0	895	259	1154
6	110	10.09	36.925	14.023	0.00	0.119	2.89	0.85	1.00	0.0	39.31	113.50	0.00	6884	0	974	250	1224
5	90	9.67	33.551	14.900	0.00	0.104	2.95	0.85	1.00	0.0	36.93	108.90	0.00	6483	0	895	240	1135
4	70	9.18	37.918	15.776	0.00	0.106	2.94	0.85	1.00	0.0	41.14	120.97	0.00	7122	0	943	228	1171
3	50	8.55	39.098	16.736	0.00	0.098	2.97	0.85	1.00	0.0	42.68	126.78	0.00	8499	0	921	212	1133
2	30	7.68	43.454	16.736	0.00	0.093	2.99	0.85	1.00	0.0	46.38	138.80	0.00	8947	0	906	190	1096
1	10	6.64	43.211	17.616	0.00	0.084	3.03	0.85	1.00	0.0	46.67	141.46	0.00	9627	0	799	165	963
Totals														71,031	0			12,627

EQUIVALENT LATERAL FORCE METHOD	
Spectral Response Acceleration for Short Period (S _s):	0.08
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 :	0.03
Lower Limit C _s :	0.03
Period based on Rayleigh Method (sec):	0.81
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.15
Total Unfactored Dead Load:	76.93 k
Seismic Base Shear (E):	3.00 k

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W ₂ (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
14	245.00	1,046	601,354	0.034	103	923
13	230.00	2,163	1,155,471	0.066	199	1,909
12	210.00	2,682	1,289,823	0.074	222	2,367
11	195.00	1,651	728,938	0.042	125	1,457
10	185.00	1,691	702,696	0.040	121	1,493
9	170.00	4,013	1,512,104	0.087	260	3,541
8	150.00	4,854	1,582,856	0.091	272	4,283
7	130.00	5,369	1,484,235	0.085	255	4,738
6	110.00	6,884	1,569,042	0.090	270	6,075
5	90.00	6,483	1,171,881	0.067	202	5,721
4	70.00	7,122	963,162	0.055	166	6,286
3	50.00	8,499	779,191	0.045	134	7,500
2	30.00	8,947	454,728	0.026	78	7,896
1	10.00	9,627	137,562	0.008	24	8,496
Ericsson Radio 4460 B25+B66	247.00	327	189,709	0.011	33	289
Ericsson Radio 4480 B71+B85A	247.00	252	146,198	0.008	25	222
Ericsson Air6449 B41	247.00	312	181,007	0.010	31	275
Sabre C10857001C sector frames	247.00	1,386	804,089	0.046	138	1,223
Commscope FFVV-65B-R3-V1	247.00	301	174,567	0.010	30	266
Aviat Networks ODU 600	240.00	22	12,346	0.001	2	19
Ericsson Radio 8843	240.00	255	143,107	0.008	25	225
Ericsson Radio 4449	240.00	255	143,107	0.008	25	225
Raycap RCMD-6627-PF-48	240.00	32	17,959	0.001	3	28
Commscope NHH-65C-R2B	240.00	310	173,749	0.010	30	273
Round Sector Frame	240.00	900	505,083	0.029	87	794
Aviat Networks ODU 600	235.40	22	12,074	0.001	2	19
Commscope VHLPX3-11W/A	234.50	37	20,216	0.001	3	33
Raycap RCMD-6627-PF-48	232.00	64	34,538	0.002	6	56
Ericsson AIR 6419 B77D	232.00	189	102,156	0.006	18	167
Commscope NHH-65C-R2B	232.00	310	167,077	0.010	29	273
Ericsson Radio 4449	231.70	255	137,406	0.008	24	225
Ericsson Radio 8843	231.60	255	137,338	0.008	24	225
Radio Waves HP3-11	211.40	50	24,235	0.001	4	44
Radio Waves HPD6-59	210.80	251	121,261	0.007	21	222
Radio Waves HP2-11	210.40	27	13,015	0.001	2	24
Generic Radio/ODU	210.00	90	43,290	0.002	7	79
Totals		76,932	17,436,570	1.000	3,000	67,893

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)
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CUSTOMER: VERIZON WIRELESS

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14	245.00	1,046	601,354	0.034	103	1,274
13	230.00	2,163	1,155,471	0.066	199	2,633
12	210.00	2,682	1,289,823	0.074	222	3,265
11	195.00	1,651	728,938	0.042	125	2,010
10	185.00	1,691	702,696	0.040	121	2,059
9	170.00	4,013	1,512,104	0.087	260	4,885
8	150.00	4,854	1,582,856	0.091	272	5,909
7	130.00	5,369	1,484,235	0.085	255	6,537
6	110.00	6,884	1,569,042	0.090	270	8,381
5	90.00	6,483	1,171,881	0.067	202	7,893
4	70.00	7,122	963,162	0.055	166	8,672
3	50.00	8,499	779,191	0.045	134	10,347
2	30.00	8,947	454,728	0.026	78	10,893
1	10.00	9,627	137,562	0.008	24	11,721
Ericsson Radio 4460 B25+B66	247.00	327	189,709	0.011	33	398
Ericsson Radio 4480 B71+B85A	247.00	252	146,198	0.008	25	307
Ericsson Air6449 B41	247.00	312	181,007	0.010	31	380
Sabre C10857001C sector frames	247.00	1,386	804,089	0.046	138	1,687
Commscope FFVV-65B-R3-V1	247.00	301	174,567	0.010	30	366
Aviat Networks ODU 600	240.00	22	12,346	0.001	2	27
Ericsson Radio 8843	240.00	255	143,107	0.008	25	310
Ericsson Radio 4449	240.00	255	143,107	0.008	25	310
Raycap RCMD-6627-PF-48	240.00	32	17,959	0.001	3	39
Commscope NHH-65C-R2B	240.00	310	173,749	0.010	30	377
Round Sector Frame	240.00	900	505,083	0.029	87	1,096
Aviat Networks ODU 600	235.40	22	12,074	0.001	2	27
Commscope VHLPX3-11W/A	234.50	37	20,216	0.001	3	45
Raycap RCMD-6627-PF-48	232.00	64	34,538	0.002	6	78
Ericsson AIR 6419 B77D	232.00	189	102,156	0.006	18	230
Commscope NHH-65C-R2B	232.00	310	167,077	0.010	29	377
Ericsson Radio 4449	231.70	255	137,406	0.008	24	310
Ericsson Radio 8843	231.60	255	137,338	0.008	24	310
Radio Waves HP3-11	211.40	50	24,235	0.001	4	61
Radio Waves HPD6-59	210.80	251	121,261	0.007	21	306
Radio Waves HP2-11	210.40	27	13,015	0.001	2	33
Generic Radio/ODU	210.00	90	43,290	0.002	7	110
Totals		76,932	17,436,570	1.000	3,000	93,665

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Section 1 – 0.0' to 20.00'

Section 2 – 20.0' to 40.00'

Section 3 – 40.0' to 60.00'

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FORCE/STRESS SUMMARY

Section 4 – 60.0' to 80.00'

Member Compression	P _u (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	
	X			Y	Z										
	KL/R														
L SOL - 4 1/2" SOLID	-254.68	1.2D + 1.0W 120° Pattern 1	20.033	25	25	25	53.42	50.00	580.89	0.00	0.00	0	0	43.8	Member X
D DAE - 3.5x3.5x0.25	-12.88	1.2D + 1.0W N Pattern 2	32.021	25	50	13	140.65	36.00	48.91	54.12	48.72	2	2	26.4	Bolt Bear
Member Tension	P _u (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			
L SOL - 4 1/2" SOLID	202.34	0.9D + 1.0W 60°	50.0	65	715.68	0.00	0.00		0	0	28.3	Member			
D DAE - 3.5x3.5x0.25	12.14	0.9D + 1.0W 330°	36.0	58	94.98	54.12	29.58	32.35	2	2	41.1	Bolt Bear			
Max Splice Forces	P _u (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	214.06						0.9D + 1.0W 60°	623.64	34.3	6	1.375" A325				

Section 5 – 80.0' to 100.00'

											Shear	Bear				
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	# Bolt	# Hole	Use %	Controls		
L SOL - 4 1/4" SOLID	-223.90	1.2D + 1.0W 120° Pattern 1	20.033	25	25	25	56.56	50.00	505.21	0.00	0.00	0	0	44.3	Member X	
D DAE - 3X3X0.25	-11.85	0.9D + 1.0W 210°	30.485	25	50	13	154.17	36.00	34.68	54.12	48.72	2	2	34.2	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				
L SOL - 4 1/4" SOLID	179.20	0.9D + 1.0W 60°	50.0	65	638.37	0.00	0.00		0	0	28.1	Member				
D DAE - 3X3X0.25	11.85	1.2D + 1.0W 330° Pattern 1	36.0	58	78.67	54.12	29.58	26.92	2	2	44	Blk Shear				
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type										
Bot Tension	189.22	0.9D + 1.0W 60°	523.32	36.2	6	1.25" A325										

Section 6 – 100.0' to 120.00'

Member Compression	P _u (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	ΦR _{nv} (kip)			ΦR _n (kip)											
	X			Y	Z	KL/R									
L SOL - 4" SOLID	-199.05	1.2D + 1.0W 120° Pattern 1	10.017	50	50	50	60.10	50.00	434.22	0.00	0.00	0	0	45.8	Member X
D DAE - 3X3X0.25	-9.06	1.2D + 1.0W N Pattern 2	23.714	50	50	25	157.86	36.00	33.08	39.76	41.76	2	2	27.4	Member Y
Member Tension	P _u (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear	Bear	Blk Shear	# Bolt	# Hole	Use %	Controls			
	ΦR _{nv} (kip)					ΦR _n (kip)	Φ _t P _n (kip)								
	X					Y	Z								
L SOL - 4" SOLID	161.31	0.9D + 1.0W 60°	50.0	65	565.47	0.00	0.00		0	0	28.5	Member			
D DAE - 3X3X0.25	8.78	0.9D + 1.0W 210°	36.0	58	80.71	39.76	25.23	26.64	2	2	34.8	Bolt Bear			
Max Splice Forces	P _u (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	165.25	0.9D + 1.0W 60°	523.32	31.6	6	1.25" A325									

Section 7 – 120.0' to 140.00'

															Shear	Bear	#	#	Use	Controls
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Bolt	Hole	%							
L SOL - 3 3/4" SOLID	-168.82	1.2D + 1.0W 120° Pattern 1	10.017	50	50	50	64.11	50.00	368.02	0.00	0.00	0	0	45.9	Member X					
D DAE - 3X3X0.1875	-8.17	1.2D + 1.0W 330° Pattern 1	21.917	50	50	25	145.77	36.00	29.36	39.76	31.32	2	2	27.8	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								
L SOL - 3 3/4" SOLID	138.61	0.9D + 1.0W 60°	50.0	65	497.02	0.00	0.00		0	0	27.9	Member								
D DAE - 3X3X0.1875	7.99	0.9D + 1.0W 210°	36.0	58	61.18	39.76	18.92	19.98	2	2	42.2	Bolt Bear								
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type														
Bot Tension	143.37	0.9D + 1.0W 60°	412.17	34.8	6	1 1/8 A325														

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FORCE/STRESS SUMMARY

Section 8 – 140.0' to 160.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦRnv (kip)				ΦRn (kip)					
L SOL - 3 1/2" SOLID	-139.77	1.2D + 1.0W 120° Pattern 1	10.017	50	50	50	68.69	50.00	306.64	0.00	0.00	0	0	45.6	Member X
D DAE - 3X3X0.1875	-7.44	1.2D + 1.0W 330° Pattern 1	20.158	50	50	25	134.08	36.00	34.71	39.76	31.32	2	2	23.7	Bolt Bear
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 - 3 1/2" SOLID	115.75	0.9D + 1.0W 60°	50.0	65	432.94	0.00	0.00		0	0	26.7	Member			
D DAE - 3X3X0.1875	7.29	0.9D + 1.0W 210°	36.0	58	61.18	39.76	18.92	19.98	2	2	38.5	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	120.73	0.9D + 1.0W 60°	327.10	36.9	6	1 A325									

Section 9 – 160.0' to 180.00'

										Shear	Bear				
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Φc Pn (kip)	ΦRnv (kip)	ΦRn (kip)	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	KL/R									
L SOL - 3 1/4" SOLID	-111.37	1.2D + 1.0W 120° Pattern 1	10.017	50	50	50	73.97	50.00	250.23	0.00	0	0	44.5	Member X	
D DAE - 2.5X2.5X0.1875	-6.80	1.2D + 1.0W 330° Pattern 1	18.448	50	50	25	145.94	36.00	24.19	27.61	26.10	2	2	28.1	Member Y
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	ΦRnv (kip)	ΦRn (kip)	Blk Shear Φt Pn (kip)	# Bolt	# Hole	Use %	Controls			
L SOL - 3 1/4" SOLID	92.86	0.9D + 1.0W 60°	50.0	65	373.32	0.00	0.00		0	0	24.9	Member			
D DAE - 2.5X2.5X0.1875	6.65	0.9D + 1.0W 210°	36.0	58	50.31	27.61	15.66	17.74	2	2	42.5	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	97.97	0.9D + 1.0W 60°	249.34	39.3	6	0.875" A325									

Section 10 – 180.0' to 190.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	ΦRnv (kip)			ΦRn (kip)						
	KL/R														
L SOL - 2 3/4" SOLID	-83.25	1.2D + 1.0W 120° Pattern 1	10.017	50	50	50	87.42	50.00	152.86	0.00	0.00	0	0	54.5	Member X
D DAE - 2.5X2.5X0.1875	-6.44	1.2D + 1.0W 330° Pattern 1	16.803	50	50	25	132.93	36.00	29.16	27.61	26.10	2	2	24.7	Bolt Bear
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear	Bear	Blk Shear	# Bolt	# Hole	Use %	Controls			
	ΦRnv (kip)					ΦRn (kip)	Φt Pn (kip)								
L SOL - 2 3/4" SOLID	69.36	0.9D + 1.0W 60°	50.0	65	267.28	0.00	0.00		0	0	26	Member			
D DAE - 2.5X2.5X0.1875	6.29	0.9D + 1.0W 210°	36.0	58	50.31	27.61	15.66	17.74	2	2	40.1	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	74.90	0.9D + 1.0W 60°	180.61	41.5	6	0.75" A325									

Section 11 – 190.0' to 200.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	KL/R			ΦRnv (kip)	ΦRn (kip)					
L SOL - 2 3/4" SOLID	-69.61	1.2D + 1.0W 120° Pattern 1	10.017	50	50	50	87.42	50.00	152.86	0.00	0.00	0	0	45.5	Member X
D DAE - 2.5X2.5X0.1875	-6.23	1.2D + 1.0W 210° Pattern 1	16.01	50	50	25	126.66	36.00	32.11	27.61	26.10	2	2	23.9	Bolt Bear
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 3/4" SOLID	57.57	0.9D + 1.0W 60°	50.0	65	267.28	0.00	0.00		0	0	21.5	Member			
D DAE - 2.5X2.5X0.1875	6.29	1.2D + 1.0W 330° Pattern 1	36.0	58	50.31	27.61	15.66	17.74	2	2	40.2	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	63.01	0.9D + 1.0W 60°	180.61	34.9	6	0.75" A325									

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Section 12 – 200.0' to 220.00'

Section 13 – 220.0' to 240.00'Section 14 – 240.0' to 250.00'

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CUSTOMER: VERIZON WIRELESS

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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	210.00	0.1839	0.2865	0.1200	0.3062
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	230.00	0.2248	0.5335	0.2803	0.5878
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	240.00	0.2463	0.6580	0.7429	0.9924
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	250.00	0.2677	0.6470	0.4687	0.7989
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	210.00	0.1812	0.2211	0.1169	0.2456
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	230.00	0.222	0.4276	0.1741	0.4503
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	240.00	0.2437	0.5325	0.8576	1.0095
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	250.00	0.2654	0.5209	0.3469	0.6258
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	210.00	0.1954	-0.2129	0.1249	0.2468
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	230.00	0.2387	-0.4212	0.1737	0.4508
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	240.00	0.2614	-0.5272	0.8635	1.0117
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	250.00	0.2844	-0.5158	0.3439	0.6189
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	210.00	0.184	0.2324	0.1195	0.2571
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	230.00	0.2249	0.4441	0.2761	0.5138
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	240.00	0.2461	0.5477	0.7334	0.9154
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	250.00	0.2677	0.5314	0.4667	0.7072
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	210.00	0.18	0.2174	0.1175	0.2426
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	230.00	0.2201	0.4116	0.3179	0.5082
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	240.00	0.2407	0.5082	0.6646	0.8365
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	250.00	0.2617	0.4950	0.5128	0.7126
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	210.00	0.1955	0.2129	0.1250	0.2469
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	230.00	0.2389	0.4212	0.1736	0.4508
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	240.00	0.2616	0.5271	0.8638	1.0119
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	250.00	0.2846	0.5158	0.3436	0.6188
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	210.00	0.1853	0.2298	0.1189	0.2588
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	230.00	0.2271	0.4549	0.0696	0.457
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	240.00	0.2492	0.5673	0.9169	1.0782
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	250.00	0.2715	0.5527	0.2666	0.6137
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	210.00	0.1813	-0.2211	0.1170	0.2456
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	230.00	0.2222	-0.4276	0.1741	0.4503
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	240.00	0.2438	-0.5324	0.8579	1.0097
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	250.00	0.2655	-0.5208	0.3469	0.6258
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	210.00	0.194	-0.2176	0.1258	0.2459
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	230.00	0.2366	-0.4113	0.3266	0.5123
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	240.00	0.2587	-0.5076	0.6555	0.8289
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	250.00	0.281	-0.4946	0.5200	0.7175
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	210.00	0.0457	-0.0017	0.0291	0.0291
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	230.00	0.0564	-0.0015	0.0322	0.0322
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	240.00	0.0619	-0.0013	0.0337	0.0337
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	250.00	0.0675	-0.0012	0.0331	0.0331
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	210.00	0.0456	0.0015	0.0288	0.0289
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	230.00	0.0562	0.0013	0.0321	0.0321
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	240.00	0.0618	0.0011	0.0337	0.0337
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	250.00	0.0676	0.0010	0.0329	0.0329
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	210.00	0.0458	0.0015	0.0292	0.0292
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	230.00	0.0564	0.0013	0.0322	0.0322
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	240.00	0.0619	0.0011	0.0335	0.0336
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	250.00	0.0675	0.0010	0.0332	0.0332
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	210.00	0.0457	-0.0017	0.0291	0.0291
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	230.00	0.0564	-0.0015	0.0322	0.0322
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	240.00	0.0618	-0.0013	0.0337	0.0337
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	250.00	0.0675	-0.0012	0.0331	0.0331
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	210.00	0.0456	0.0015	0.0288	0.0289
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	230.00	0.0562	0.0013	0.0321	0.0321
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	240.00	0.0618	0.0011	0.0337	0.0337
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	250.00	0.0676	0.0010	0.0329	0.0329
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	210.00	0.0458	0.0015	0.0292	0.0292
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	230.00	0.0564	0.0013	0.0322	0.0322
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	240.00	0.0619	0.0011	0.0335	0.0336

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	250.00	0.0675	0.0010	0.0332	0.0332
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	210.00	0.0457	-0.0017	0.0291	0.0291
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	230.00	0.0564	-0.0015	0.0322	0.0322
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	240.00	0.0618	-0.0013	0.0337	0.0337
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	250.00	0.0675	-0.0012	0.0331	0.0331
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	210.00	0.0456	0.0015	0.0288	0.0289
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	230.00	0.0562	0.0013	0.0321	0.0321
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	240.00	0.0618	0.0011	0.0337	0.0337
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	250.00	0.0676	0.0010	0.0329	0.0329
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	210.00	0.0458	0.0015	0.0292	0.0292
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	230.00	0.0564	0.0013	0.0322	0.0322
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	240.00	0.0619	0.0011	0.0335	0.0336
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	250.00	0.0675	0.0010	0.0332	0.0332
1.2D + 1.0Ev + 1.0Eh 330° Seismic	210.00	0.0459	-0.0017	0.0293	0.0294
1.2D + 1.0Ev + 1.0Eh 330° Seismic	230.00	0.0565	-0.0015	0.0324	0.0324
1.2D + 1.0Ev + 1.0Eh 330° Seismic	240.00	0.062	-0.0013	0.0342	0.0342
1.2D + 1.0Ev + 1.0Eh 330° Seismic	250.00	0.0676	-0.0012	0.0332	0.0332
1.2D + 1.0Ev + 1.0Eh 300° Seismic	210.00	0.0457	0.0015	0.0290	0.029
1.2D + 1.0Ev + 1.0Eh 300° Seismic	230.00	0.0563	0.0013	0.0322	0.0322
1.2D + 1.0Ev + 1.0Eh 300° Seismic	240.00	0.0619	0.0012	0.0342	0.0342
1.2D + 1.0Ev + 1.0Eh 300° Seismic	250.00	0.0676	0.0010	0.0330	0.033
1.2D + 1.0Ev + 1.0Eh 240° Seismic	210.00	0.0459	0.0015	0.0295	0.0295
1.2D + 1.0Ev + 1.0Eh 240° Seismic	230.00	0.0566	0.0013	0.0324	0.0324
1.2D + 1.0Ev + 1.0Eh 240° Seismic	240.00	0.062	0.0011	0.0338	0.0339
1.2D + 1.0Ev + 1.0Eh 240° Seismic	250.00	0.0676	0.0010	0.0333	0.0333
1.2D + 1.0Ev + 1.0Eh 210° Seismic	210.00	0.0459	-0.0017	0.0293	0.0294
1.2D + 1.0Ev + 1.0Eh 210° Seismic	230.00	0.0565	-0.0015	0.0324	0.0324
1.2D + 1.0Ev + 1.0Eh 210° Seismic	240.00	0.062	-0.0013	0.0341	0.0342
1.2D + 1.0Ev + 1.0Eh 210° Seismic	250.00	0.0676	-0.0012	0.0332	0.0332
1.2D + 1.0Ev + 1.0Eh 180° Seismic	210.00	0.0457	0.0015	0.0290	0.029
1.2D + 1.0Ev + 1.0Eh 180° Seismic	230.00	0.0563	0.0013	0.0322	0.0322
1.2D + 1.0Ev + 1.0Eh 180° Seismic	240.00	0.0619	0.0012	0.0342	0.0342
1.2D + 1.0Ev + 1.0Eh 180° Seismic	250.00	0.0676	0.0010	0.0330	0.033
1.2D + 1.0Ev + 1.0Eh 120° Seismic	210.00	0.0459	0.0015	0.0295	0.0295
1.2D + 1.0Ev + 1.0Eh 120° Seismic	230.00	0.0566	0.0013	0.0324	0.0324
1.2D + 1.0Ev + 1.0Eh 120° Seismic	240.00	0.062	0.0011	0.0338	0.0339
1.2D + 1.0Ev + 1.0Eh 120° Seismic	250.00	0.0676	0.0010	0.0333	0.0333
1.2D + 1.0Ev + 1.0Eh 90° Seismic	210.00	0.0459	-0.0017	0.0293	0.0294
1.2D + 1.0Ev + 1.0Eh 90° Seismic	230.00	0.0565	-0.0015	0.0324	0.0324
1.2D + 1.0Ev + 1.0Eh 90° Seismic	240.00	0.062	-0.0013	0.0342	0.0342
1.2D + 1.0Ev + 1.0Eh 90° Seismic	250.00	0.0676	-0.0012	0.0332	0.0332
1.2D + 1.0Ev + 1.0Eh 60° Seismic	210.00	0.0457	0.0015	0.0290	0.029
1.2D + 1.0Ev + 1.0Eh 60° Seismic	230.00	0.0563	0.0013	0.0322	0.0322
1.2D + 1.0Ev + 1.0Eh 60° Seismic	240.00	0.0619	0.0012	0.0342	0.0342
1.2D + 1.0Ev + 1.0Eh 60° Seismic	250.00	0.0676	0.0010	0.0330	0.033
1.2D + 1.0Ev + 1.0Eh Normal Seismic	210.00	0.0459	0.0015	0.0295	0.0295
1.2D + 1.0Ev + 1.0Eh Normal Seismic	230.00	0.0566	0.0013	0.0324	0.0324
1.2D + 1.0Ev + 1.0Eh Normal Seismic	240.00	0.062	0.0011	0.0338	0.0339
1.2D + 1.0Ev + 1.0Eh Normal Seismic	250.00	0.0676	0.0010	0.0333	0.0333
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	210.00	0.0487	0.0178	0.0309	0.0341
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	230.00	0.059	0.0515	0.0714	0.0853
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	240.00	0.0647	0.0683	0.1819	0.1943
1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice	250.00	0.0703	0.0583	0.1165	0.1302
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	210.00	0.0481	0.0147	0.0288	0.0316
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	230.00	0.0584	0.0441	0.0432	0.06
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	240.00	0.0641	0.0588	0.2135	0.2214
1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice	250.00	0.0698	0.0501	0.0856	0.0992
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	210.00	0.0511	0.0143	0.0302	0.0334
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	230.00	0.0621	0.0429	0.0443	0.0599

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	240.00	0.0681	-0.0577	0.2134	0.2211
1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice	250.00	0.0741	-0.0492	0.0849	0.0977
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	210.00	0.0486	0.0174	0.0301	0.0348
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	230.00	0.0589	0.0504	0.0703	0.0852
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	240.00	0.0646	0.0666	0.1812	0.1931
1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice	250.00	0.0702	0.0566	0.1163	0.1294
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	210.00	0.0477	0.0160	0.0301	0.0341
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	230.00	0.0578	0.0448	0.0800	0.0909
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	240.00	0.0634	0.0590	0.1640	0.1743
1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice	250.00	0.0689	0.0502	0.1284	0.1378
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	210.00	0.0512	-0.0143	0.0303	0.0335
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	230.00	0.0622	-0.0429	0.0443	0.0599
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	240.00	0.0683	0.0577	0.2137	0.2213
1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice	250.00	0.0743	0.0492	0.0847	0.0975
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	210.00	0.049	0.0150	0.0283	0.0321
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	230.00	0.0596	0.0488	0.0174	0.0508
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	240.00	0.0655	0.0656	0.2281	0.2374
1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice	250.00	0.0713	0.0558	0.0645	0.0853
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	210.00	0.0482	-0.0147	0.0289	0.0317
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	230.00	0.0585	-0.0441	0.0432	0.0599
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	240.00	0.0643	-0.0587	0.2137	0.2217
1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice	250.00	0.07	-0.0501	0.0855	0.0991
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	210.00	0.0509	0.0161	0.0330	0.0352
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	230.00	0.0618	0.0448	0.0832	0.0921
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	240.00	0.0676	0.0590	0.1609	0.1708
1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice	250.00	0.0734	-0.0503	0.1300	0.1393
0.9D + 1.0W 330° 120 mph Wind with No Ice (Reduced DL)	210.00	0.7345	1.9139	0.4757	1.9604
0.9D + 1.0W 330° 120 mph Wind with No Ice (Reduced DL)	230.00	0.898	3.2630	1.1303	3.3782
0.9D + 1.0W 330° 120 mph Wind with No Ice (Reduced DL)	240.00	0.9836	3.9581	3.0711	5.0098
0.9D + 1.0W 330° 120 mph Wind with No Ice (Reduced DL)	250.00	1.0698	3.9843	1.8852	4.4078
0.9D + 1.0W 300° 120 mph Wind with No Ice (Reduced DL)	210.00	0.7243	1.6745	0.4750	1.7318
0.9D + 1.0W 300° 120 mph Wind with No Ice (Reduced DL)	230.00	0.8873	2.8699	0.7161	2.8979
0.9D + 1.0W 300° 120 mph Wind with No Ice (Reduced DL)	240.00	0.974	3.4895	3.5073	4.9475
0.9D + 1.0W 300° 120 mph Wind with No Ice (Reduced DL)	250.00	1.0607	3.5165	1.3967	3.7838
0.9D + 1.0W 240° 120 mph Wind with No Ice (Reduced DL)	210.00	0.7795	-1.6641	0.5451	1.7511
0.9D + 1.0W 240° 120 mph Wind with No Ice (Reduced DL)	230.00	0.9526	-2.8844	0.6577	2.9367
0.9D + 1.0W 240° 120 mph Wind with No Ice (Reduced DL)	240.00	1.0444	-3.5178	3.5440	4.9935
0.9D + 1.0W 240° 120 mph Wind with No Ice (Reduced DL)	250.00	1.1364	-3.5460	1.3834	3.8022
0.9D + 1.0W 210° 120 mph Wind with No Ice (Reduced DL)	210.00	0.7343	1.1396	0.4979	1.2186
0.9D + 1.0W 210° 120 mph Wind with No Ice (Reduced DL)	230.00	0.8979	1.9668	1.0749	2.232
0.9D + 1.0W 210° 120 mph Wind with No Ice (Reduced DL)	240.00	0.9835	2.3451	2.9572	3.7554
0.9D + 1.0W 210° 120 mph Wind with No Ice (Reduced DL)	250.00	1.0697	-2.3580	1.8727	2.9972
0.9D + 1.0W 180° 120 mph Wind with No Ice (Reduced DL)	210.00	0.7188	1.3493	0.4715	1.4088
0.9D + 1.0W 180° 120 mph Wind with No Ice (Reduced DL)	230.00	0.879	2.2988	1.2731	2.5723
0.9D + 1.0W 180° 120 mph Wind with No Ice (Reduced DL)	240.00	0.9622	2.7651	2.6753	3.847
0.9D + 1.0W 180° 120 mph Wind with No Ice (Reduced DL)	250.00	1.0461	2.7547	2.0600	3.4393
0.9D + 1.0W 120° 120 mph Wind with No Ice (Reduced DL)	210.00	0.7796	1.6642	0.5453	1.7512
0.9D + 1.0W 120° 120 mph Wind with No Ice (Reduced DL)	230.00	0.9528	2.8846	0.6574	2.9368
0.9D + 1.0W 120° 120 mph Wind with No Ice (Reduced DL)	240.00	1.0447	3.5179	3.5445	4.9939
0.9D + 1.0W 120° 120 mph Wind with No Ice (Reduced DL)	250.00	1.1367	3.5461	1.3827	3.8023
0.9D + 1.0W 90° 120 mph Wind with No Ice (Reduced DL)	210.00	0.7395	1.4803	0.5087	1.5653
0.9D + 1.0W 90° 120 mph Wind with No Ice (Reduced DL)	230.00	0.9061	2.5800	0.2861	2.5849
0.9D + 1.0W 90° 120 mph Wind with No Ice (Reduced DL)	240.00	0.9954	3.1230	3.6936	4.8369
0.9D + 1.0W 90° 120 mph Wind with No Ice (Reduced DL)	250.00	1.0844	3.1152	1.0805	3.2972
0.9D + 1.0W 60° 120 mph Wind with No Ice (Reduced DL)	210.00	0.7243	-1.6746	0.4750	1.7319
0.9D + 1.0W 60° 120 mph Wind with No Ice (Reduced DL)	230.00	0.8873	-2.8700	0.7160	2.898
0.9D + 1.0W 60° 120 mph Wind with No Ice (Reduced DL)	240.00	0.9739	-3.4894	3.5081	4.948
0.9D + 1.0W 60° 120 mph Wind with No Ice (Reduced DL)	250.00	1.0608	-3.5165	1.3972	3.7839
0.9D + 1.0W Normal 120 mph Wind with No Ice (Reduced DL)	210.00	0.774	-1.3720	0.5010	1.44

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D + 1.0W Normal 120 mph Wind with No Ice (Reduced DL)	230.00	0.9442	-2.3215	1.3041	2.6107
0.9D + 1.0W Normal 120 mph Wind with No Ice (Reduced DL)	240.00	1.0327	-2.7896	2.6463	3.8447
0.9D + 1.0W Normal 120 mph Wind with No Ice (Reduced DL)	250.00	1.1221	-2.7832	2.0898	3.48
1.2D + 1.0W 330° Pattern 3 120 mph Wind with No Ice	210.00	0.7353	1.9149	0.4765	1.9615
1.2D + 1.0W 330° Pattern 3 120 mph Wind with No Ice	230.00	0.8991	3.2645	1.1311	3.3797
1.2D + 1.0W 330° Pattern 3 120 mph Wind with No Ice	240.00	0.9848	3.9599	3.0711	5.0112
1.2D + 1.0W 330° Pattern 3 120 mph Wind with No Ice	250.00	1.0712	3.9862	1.8857	4.4097
1.2D + 1.0W 330° Pattern 2 120 mph Wind with No Ice	210.00	0.7353	1.9149	0.4765	1.9615
1.2D + 1.0W 330° Pattern 2 120 mph Wind with No Ice	230.00	0.8991	3.2645	1.1311	3.3797
1.2D + 1.0W 330° Pattern 2 120 mph Wind with No Ice	240.00	0.9848	3.9599	3.0711	5.0112
1.2D + 1.0W 330° Pattern 2 120 mph Wind with No Ice	250.00	1.0712	3.9862	1.8857	4.4097
1.2D + 1.0W 330° Pattern 1 120 mph Wind with No Ice	210.00	0.7353	1.9149	0.4765	1.9615
1.2D + 1.0W 330° Pattern 1 120 mph Wind with No Ice	230.00	0.8991	3.2645	1.1311	3.3797
1.2D + 1.0W 330° Pattern 1 120 mph Wind with No Ice	240.00	0.9848	3.9599	3.0711	5.0112
1.2D + 1.0W 330° Pattern 1 120 mph Wind with No Ice	250.00	1.0712	3.9862	1.8857	4.4097
1.2D + 1.0W 300° Pattern 3 120 mph Wind with No Ice	210.00	0.725	1.6753	0.4756	1.7327
1.2D + 1.0W 300° Pattern 3 120 mph Wind with No Ice	230.00	0.8883	2.8712	0.7166	2.8992
1.2D + 1.0W 300° Pattern 3 120 mph Wind with No Ice	240.00	0.9752	3.4911	3.5081	4.9491
1.2D + 1.0W 300° Pattern 3 120 mph Wind with No Ice	250.00	1.062	3.5182	1.3966	3.7853
1.2D + 1.0W 300° Pattern 2 120 mph Wind with No Ice	210.00	0.725	1.6753	0.4756	1.7327
1.2D + 1.0W 300° Pattern 2 120 mph Wind with No Ice	230.00	0.8883	2.8712	0.7166	2.8992
1.2D + 1.0W 300° Pattern 2 120 mph Wind with No Ice	240.00	0.9752	3.4911	3.5081	4.9491
1.2D + 1.0W 300° Pattern 2 120 mph Wind with No Ice	250.00	1.062	3.5182	1.3966	3.7853
1.2D + 1.0W 300° Pattern 1 120 mph Wind with No Ice	210.00	0.725	1.6753	0.4756	1.7327
1.2D + 1.0W 300° Pattern 1 120 mph Wind with No Ice	230.00	0.8883	2.8712	0.7166	2.8992
1.2D + 1.0W 300° Pattern 1 120 mph Wind with No Ice	240.00	0.9752	3.4911	3.5081	4.9491
1.2D + 1.0W 300° Pattern 1 120 mph Wind with No Ice	250.00	1.062	3.5182	1.3966	3.7853
1.2D + 1.0W 240° Pattern 3 120 mph Wind with No Ice	210.00	0.7805	-1.6647	0.5457	1.7519
1.2D + 1.0W 240° Pattern 3 120 mph Wind with No Ice	230.00	0.9539	-2.8856	0.6580	2.9379
1.2D + 1.0W 240° Pattern 3 120 mph Wind with No Ice	240.00	1.0456	-3.5193	3.5445	4.9949
1.2D + 1.0W 240° Pattern 3 120 mph Wind with No Ice	250.00	1.1378	-3.5475	1.3832	3.8035
1.2D + 1.0W 240° Pattern 2 120 mph Wind with No Ice	210.00	0.7805	-1.6647	0.5457	1.7519
1.2D + 1.0W 240° Pattern 2 120 mph Wind with No Ice	230.00	0.9539	-2.8856	0.6580	2.9379
1.2D + 1.0W 240° Pattern 2 120 mph Wind with No Ice	240.00	1.0456	-3.5193	3.5445	4.9949
1.2D + 1.0W 240° Pattern 2 120 mph Wind with No Ice	250.00	1.1378	-3.5475	1.3832	3.8035
1.2D + 1.0W 240° Pattern 1 120 mph Wind with No Ice	210.00	0.7805	-1.6647	0.5457	1.7519
1.2D + 1.0W 240° Pattern 1 120 mph Wind with No Ice	230.00	0.9539	-2.8856	0.6580	2.9379
1.2D + 1.0W 240° Pattern 1 120 mph Wind with No Ice	240.00	1.0456	-3.5193	3.5445	4.9949
1.2D + 1.0W 240° Pattern 1 120 mph Wind with No Ice	250.00	1.1378	-3.5475	1.3832	3.8035
1.2D + 1.0W 210° Pattern 3 120 mph Wind with No Ice	210.00	0.7352	1.1397	0.4984	1.2189
1.2D + 1.0W 210° Pattern 3 120 mph Wind with No Ice	230.00	0.899	1.9668	1.0753	2.2323
1.2D + 1.0W 210° Pattern 3 120 mph Wind with No Ice	240.00	0.9846	2.3450	2.9568	3.7566
1.2D + 1.0W 210° Pattern 3 120 mph Wind with No Ice	250.00	1.071	-2.3598	1.8732	2.9989
1.2D + 1.0W 210° Pattern 2 120 mph Wind with No Ice	210.00	0.7352	1.1397	0.4984	1.2189
1.2D + 1.0W 210° Pattern 2 120 mph Wind with No Ice	230.00	0.899	1.9668	1.0753	2.2323
1.2D + 1.0W 210° Pattern 2 120 mph Wind with No Ice	240.00	0.9846	2.3450	2.9568	3.7566
1.2D + 1.0W 210° Pattern 2 120 mph Wind with No Ice	250.00	1.071	-2.3598	1.8732	2.9989
1.2D + 1.0W 210° Pattern 1 120 mph Wind with No Ice	210.00	0.7352	1.1397	0.4984	1.2189
1.2D + 1.0W 210° Pattern 1 120 mph Wind with No Ice	230.00	0.899	1.9668	1.0753	2.2323
1.2D + 1.0W 210° Pattern 1 120 mph Wind with No Ice	240.00	0.9846	2.3450	2.9568	3.7566
1.2D + 1.0W 210° Pattern 1 120 mph Wind with No Ice	250.00	1.071	-2.3598	1.8732	2.9989
1.2D + 1.0W 180° Pattern 3 120 mph Wind with No Ice	210.00	0.7197	1.3500	0.4720	1.4096
1.2D + 1.0W 180° Pattern 3 120 mph Wind with No Ice	230.00	0.8801	2.2998	1.2737	2.5734
1.2D + 1.0W 180° Pattern 3 120 mph Wind with No Ice	240.00	0.9634	2.7661	2.6748	3.8474
1.2D + 1.0W 180° Pattern 3 120 mph Wind with No Ice	250.00	1.0474	2.7557	2.0607	3.4406
1.2D + 1.0W 180° Pattern 2 120 mph Wind with No Ice	210.00	0.7197	1.3500	0.4720	1.4096
1.2D + 1.0W 180° Pattern 2 120 mph Wind with No Ice	230.00	0.8801	2.2998	1.2737	2.5734
1.2D + 1.0W 180° Pattern 2 120 mph Wind with No Ice	240.00	0.9634	2.7661	2.6748	3.8474
1.2D + 1.0W 180° Pattern 2 120 mph Wind with No Ice	250.00	1.0474	2.7557	2.0607	3.4406

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 180° Pattern 1 120 mph Wind with No Ice	210.00	0.7197	1.3500	0.4720	1.4096
1.2D + 1.0W 180° Pattern 1 120 mph Wind with No Ice	230.00	0.8801	2.2998	1.2737	2.5734
1.2D + 1.0W 180° Pattern 1 120 mph Wind with No Ice	240.00	0.9634	2.7661	2.6748	3.8474
1.2D + 1.0W 180° Pattern 1 120 mph Wind with No Ice	250.00	1.0474	2.7557	2.0607	3.4406
1.2D + 1.0W 120° Pattern 3 120 mph Wind with No Ice	210.00	0.7806	1.6648	0.5459	1.752
1.2D + 1.0W 120° Pattern 3 120 mph Wind with No Ice	230.00	0.9541	2.8858	0.6577	2.938
1.2D + 1.0W 120° Pattern 3 120 mph Wind with No Ice	240.00	1.046	3.5194	3.5451	4.9954
1.2D + 1.0W 120° Pattern 3 120 mph Wind with No Ice	250.00	1.1381	3.5477	1.3825	3.8037
1.2D + 1.0W 120° Pattern 2 120 mph Wind with No Ice	210.00	0.7806	1.6648	0.5459	1.752
1.2D + 1.0W 120° Pattern 2 120 mph Wind with No Ice	230.00	0.9541	2.8858	0.6577	2.938
1.2D + 1.0W 120° Pattern 2 120 mph Wind with No Ice	240.00	1.046	3.5194	3.5451	4.9954
1.2D + 1.0W 120° Pattern 2 120 mph Wind with No Ice	250.00	1.1381	3.5477	1.3825	3.8037
1.2D + 1.0W 120° Pattern 1 120 mph Wind with No Ice	210.00	0.7806	1.6648	0.5459	1.752
1.2D + 1.0W 120° Pattern 1 120 mph Wind with No Ice	230.00	0.9541	2.8858	0.6577	2.938
1.2D + 1.0W 120° Pattern 1 120 mph Wind with No Ice	240.00	1.046	3.5194	3.5451	4.9954
1.2D + 1.0W 120° Pattern 1 120 mph Wind with No Ice	250.00	1.1381	3.5477	1.3825	3.8037
1.2D + 1.0W 90° Pattern 3 120 mph Wind with No Ice	210.00	0.7405	1.4803	0.5092	1.5655
1.2D + 1.0W 90° Pattern 3 120 mph Wind with No Ice	230.00	0.9073	2.5802	0.2856	2.5851
1.2D + 1.0W 90° Pattern 3 120 mph Wind with No Ice	240.00	0.9967	3.1232	3.6945	4.8378
1.2D + 1.0W 90° Pattern 3 120 mph Wind with No Ice	250.00	1.0858	3.1154	1.0799	3.2972
1.2D + 1.0W 90° Pattern 2 120 mph Wind with No Ice	210.00	0.7405	1.4803	0.5092	1.5655
1.2D + 1.0W 90° Pattern 2 120 mph Wind with No Ice	230.00	0.9073	2.5802	0.2856	2.5851
1.2D + 1.0W 90° Pattern 2 120 mph Wind with No Ice	240.00	0.9967	3.1232	3.6945	4.8378
1.2D + 1.0W 90° Pattern 2 120 mph Wind with No Ice	250.00	1.0858	3.1154	1.0799	3.2972
1.2D + 1.0W 90° Pattern 1 120 mph Wind with No Ice	210.00	0.7405	1.4803	0.5092	1.5655
1.2D + 1.0W 90° Pattern 1 120 mph Wind with No Ice	230.00	0.9073	2.5802	0.2856	2.5851
1.2D + 1.0W 90° Pattern 1 120 mph Wind with No Ice	240.00	0.9967	3.1232	3.6945	4.8378
1.2D + 1.0W 90° Pattern 1 120 mph Wind with No Ice	250.00	1.0858	3.1154	1.0799	3.2972
1.2D + 1.0W 60° Pattern 3 120 mph Wind with No Ice	210.00	0.7251	-1.6754	0.4756	1.7328
1.2D + 1.0W 60° Pattern 3 120 mph Wind with No Ice	230.00	0.8883	-2.8713	0.7165	2.8993
1.2D + 1.0W 60° Pattern 3 120 mph Wind with No Ice	240.00	0.9752	-3.4910	3.5089	4.9497
1.2D + 1.0W 60° Pattern 3 120 mph Wind with No Ice	250.00	1.0622	-3.5182	1.3971	3.7854
1.2D + 1.0W 60° Pattern 2 120 mph Wind with No Ice	210.00	0.7251	-1.6754	0.4756	1.7328
1.2D + 1.0W 60° Pattern 2 120 mph Wind with No Ice	230.00	0.8883	-2.8713	0.7165	2.8993
1.2D + 1.0W 60° Pattern 2 120 mph Wind with No Ice	240.00	0.9752	-3.4910	3.5089	4.9497
1.2D + 1.0W 60° Pattern 2 120 mph Wind with No Ice	250.00	1.0622	-3.5182	1.3971	3.7854
1.2D + 1.0W 60° Pattern 1 120 mph Wind with No Ice	210.00	0.7251	-1.6754	0.4756	1.7328
1.2D + 1.0W 60° Pattern 1 120 mph Wind with No Ice	230.00	0.8883	-2.8713	0.7165	2.8993
1.2D + 1.0W 60° Pattern 1 120 mph Wind with No Ice	240.00	0.9752	-3.4910	3.5089	4.9497
1.2D + 1.0W 60° Pattern 1 120 mph Wind with No Ice	250.00	1.0622	-3.5182	1.3971	3.7854
1.2D + 1.0W Normal Pattern 3 120 mph Wind with No Ice	210.00	0.7749	-1.3726	0.5018	1.4407
1.2D + 1.0W Normal Pattern 3 120 mph Wind with No Ice	230.00	0.9454	-2.3223	1.3051	2.6117
1.2D + 1.0W Normal Pattern 3 120 mph Wind with No Ice	240.00	1.034	-2.7905	2.6453	3.8446
1.2D + 1.0W Normal Pattern 3 120 mph Wind with No Ice	250.00	1.1235	-2.7840	2.0905	3.4811
1.2D + 1.0W Normal Pattern 2 120 mph Wind with No Ice	210.00	0.7749	-1.3726	0.5018	1.4407
1.2D + 1.0W Normal Pattern 2 120 mph Wind with No Ice	230.00	0.9454	-2.3223	1.3051	2.6117
1.2D + 1.0W Normal Pattern 2 120 mph Wind with No Ice	240.00	1.034	-2.7905	2.6453	3.8446
1.2D + 1.0W Normal Pattern 2 120 mph Wind with No Ice	250.00	1.1235	-2.7840	2.0905	3.4811
1.2D + 1.0W Normal Pattern 1 120 mph Wind with No Ice	210.00	0.7749	-1.3726	0.5018	1.4407
1.2D + 1.0W Normal Pattern 1 120 mph Wind with No Ice	230.00	0.9454	-2.3223	1.3051	2.6117
1.2D + 1.0W Normal Pattern 1 120 mph Wind with No Ice	240.00	1.034	-2.7905	2.6453	3.8446
1.2D + 1.0W Normal Pattern 1 120 mph Wind with No Ice	250.00	1.1235	-2.7840	2.0905	3.4811

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

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 Pattern 1	21.94	0.00	0	1	0.01	312.82	-45.18
	21.94	0.00	120	1a	12.58	-110.25	-10.42
	21.94	0.00	240	1b	-12.59	-110.26	-10.40
1.2D + 1.0W Normal Pattern 2	21.94	0.00	0	1	0.01	312.83	-45.18
	21.94	0.00	120	1a	12.58	-110.25	-10.42
	21.94	0.00	240	1b	-12.59	-110.26	-10.40
1.2D + 1.0W Normal Pattern 3	21.94	0.00	0	1	0.01	312.83	-45.18
	21.94	0.00	120	1a	12.58	-110.25	-10.42
	21.94	0.00	240	1b	-12.59	-110.26	-10.40
1.2D + 1.0W 60° Pattern 1	21.94	0.00	0	1	-2.23	159.33	-22.69
	21.94	0.00	120	1a	-20.79	160.09	9.41
	21.94	0.00	240	1b	-28.06	-227.11	-16.21
1.2D + 1.0W 60° Pattern 2	21.94	0.00	0	1	-2.23	159.33	-22.69
	21.94	0.00	120	1a	-20.79	160.09	9.41
	21.94	0.00	240	1b	-28.06	-227.11	-16.21
1.2D + 1.0W 60° Pattern 3	21.94	0.00	0	1	-2.23	159.33	-22.69
	21.94	0.00	120	1a	-20.79	160.09	9.41
	21.94	0.00	240	1b	-28.06	-227.11	-16.21
1.2D + 1.0W 90° Pattern 1	21.94	0.00	0	1	-2.73	30.78	-4.35
	21.94	0.00	120	1a	-32.73	259.72	17.36
	21.94	0.00	240	1b	-25.28	-198.18	-13.00
1.2D + 1.0W 90° Pattern 2	21.94	0.00	0	1	-2.73	30.78	-4.35
	21.94	0.00	120	1a	-32.73	259.72	17.36
	21.94	0.00	240	1b	-25.28	-198.18	-13.00
1.2D + 1.0W 90° Pattern 3	21.94	0.00	0	1	-2.73	30.78	-4.35
	21.94	0.00	120	1a	-32.73	259.72	17.36
	21.94	0.00	240	1b	-25.28	-198.18	-13.00
1.2D + 1.0W 120° Pattern 1	21.94	0.00	0	1	-2.71	-110.25	16.10
	21.94	0.00	120	1a	-39.14	313.58	22.62
	21.94	0.00	240	1b	-15.32	-111.02	-5.72
1.2D + 1.0W 120° Pattern 2	21.94	0.00	0	1	-2.71	-110.25	16.10
	21.94	0.00	120	1a	-39.14	313.58	22.62
	21.94	0.00	240	1b	-15.32	-111.02	-5.72
1.2D + 1.0W 120° Pattern 3	21.94	0.00	0	1	-2.71	-110.25	16.10
	21.94	0.00	120	1a	-39.14	313.58	22.62
	21.94	0.00	240	1b	-15.32	-111.02	-5.72
1.2D + 1.0W 180° Pattern 1	21.94	0.00	0	1	-0.01	-226.34	32.38
	21.94	0.00	120	1a	-18.52	159.33	13.30
	21.94	0.00	240	1b	18.52	159.32	13.29
1.2D + 1.0W 180° Pattern 2	21.94	0.00	0	1	-0.01	-226.34	32.38
	21.94	0.00	120	1a	-18.52	159.33	13.30
	21.94	0.00	240	1b	18.52	159.32	13.29
1.2D + 1.0W 180° Pattern 3	21.94	0.00	0	1	-0.01	-226.34	32.38
	21.94	0.00	120	1a	-18.52	159.33	13.30
	21.94	0.00	240	1b	18.52	159.32	13.29
1.2D + 1.0W 210° Pattern 1	21.94	0.00	0	1	1.38	-197.29	28.37
	21.94	0.00	120	1a	-2.39	30.34	4.55
	21.94	0.00	240	1b	31.38	259.27	19.68
1.2D + 1.0W 210° Pattern 2	21.94	0.00	0	1	1.38	-197.29	28.37
	21.94	0.00	120	1a	-2.39	30.34	4.55
	21.94	0.00	240	1b	31.38	259.27	19.68
1.2D + 1.0W 210° Pattern 3	21.94	0.00	0	1	1.38	-197.29	28.37
	21.94	0.00	120	1a	-2.39	30.34	4.55
	21.94	0.00	240	1b	31.38	259.27	19.68
1.2D + 1.0W 240° Pattern 1	21.94	0.00	0	1	2.70	-110.25	16.10
	21.94	0.00	120	1a	15.32	-111.00	-5.71
	21.94	0.00	240	1b	39.14	313.57	22.61
1.2D + 1.0W 240° Pattern 2	21.94	0.00	0	1	2.70	-110.25	16.10
	21.94	0.00	120	1a	15.32	-111.00	-5.71

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0W 240° Pattern 3	21.94	0.00	240	1b	39.14	313.57	22.61
	21.94	0.00	0	1	2.70	-110.25	16.10
	21.94	0.00	120	1a	15.32	-111.00	-5.71
	21.94	0.00	240	1b	39.14	313.57	22.61
1.2D + 1.0W 300° Pattern 1	21.94	0.00	0	1	2.24	159.33	-22.69
	21.94	0.00	120	1a	28.05	-227.10	-16.22
	21.94	0.00	240	1b	20.78	160.08	9.42
	21.94	0.00	0	1	2.24	159.33	-22.69
1.2D + 1.0W 300° Pattern 2	21.94	0.00	120	1a	28.05	-227.10	-16.22
	21.94	0.00	240	1b	20.78	160.08	9.42
	21.94	0.00	0	1	2.24	159.33	-22.69
	21.94	0.00	120	1a	28.05	-227.10	-16.22
1.2D + 1.0W 300° Pattern 3	21.94	0.00	240	1b	20.78	160.08	9.42
	21.94	0.00	0	1	1.35	258.84	-37.00
	21.94	0.00	120	1a	23.87	-197.73	-15.41
	21.94	0.00	240	1b	5.15	31.20	-0.18
1.2D + 1.0W 330° Pattern 1	21.94	0.00	0	1	1.35	258.84	-37.00
	21.94	0.00	120	1a	23.87	-197.73	-15.41
	21.94	0.00	240	1b	5.15	31.20	-0.18
	21.94	0.00	0	1	1.35	258.84	-37.00
1.2D + 1.0W 330° Pattern 2	21.94	0.00	120	1a	23.87	-197.73	-15.41
	21.94	0.00	240	1b	5.15	31.20	-0.18
	21.94	0.00	0	1	0.01	304.92	-44.09
	21.94	0.00	120	1a	13.52	-117.84	-10.96
0.9D + 1.0W Normal	21.94	0.00	240	1b	-13.52	-117.85	-10.95
	21.94	0.00	0	1	-2.24	151.54	-21.60
	21.94	0.00	120	1a	-19.85	152.30	8.86
	21.94	0.00	240	1b	-28.99	-234.60	-16.75
0.9D + 1.0W 60°	21.94	0.00	0	1	-2.73	23.08	-3.27
	21.94	0.00	120	1a	-31.79	251.85	16.81
	21.94	0.00	240	1b	-26.21	-205.69	-13.54
	21.94	0.00	0	1	-2.71	-117.84	17.19
0.9D + 1.0W 120°	21.94	0.00	120	1a	-38.19	305.68	22.07
	21.94	0.00	240	1b	-16.26	-118.60	-6.26
	21.94	0.00	0	1	-0.01	-233.84	33.46
	21.94	0.00	120	1a	-17.57	151.54	12.76
0.9D + 1.0W 180°	21.94	0.00	240	1b	17.58	151.53	12.75
	21.94	0.00	0	1	1.38	-204.81	29.45
	21.94	0.00	120	1a	-1.44	22.65	4.01
	21.94	0.00	240	1b	30.43	251.41	19.14
0.9D + 1.0W 210°	21.94	0.00	0	1	2.71	-117.84	17.19
	21.94	0.00	120	1a	16.26	-118.59	-6.25
	21.94	0.00	240	1b	38.19	305.67	22.06
	21.94	0.00	0	1	2.24	151.54	-21.60
0.9D + 1.0W 240°	21.94	0.00	120	1a	28.99	-234.59	-16.76
	21.94	0.00	240	1b	19.84	152.29	8.87
	21.94	0.00	0	1	1.35	250.98	-35.91
	21.94	0.00	120	1a	24.81	-205.25	-15.96
0.9D + 1.0W 300°	21.94	0.00	240	1b	4.21	23.51	-0.73
	21.94	0.00	0	1	0.00	49.22	-7.02
	21.94	0.00	120	1a	-2.68	21.56	1.34
	21.94	0.00	240	1b	2.68	21.55	1.34
1.2D + 1.0Di + 1.0Wi Normal	21.94	0.00	0	1	-0.15	39.22	-5.54
	21.94	0.00	120	1a	-4.88	39.27	2.64
	21.94	0.00	240	1b	1.65	13.83	0.95
	21.94	0.00	0	1	-0.18	30.78	-4.33
1.2D + 1.0Di + 1.0Wi 60°	21.94	0.00	120	1a	-5.67	45.79	3.17
	21.94	0.00	240	1b	1.83	15.75	1.16
	21.94	0.00	0	1	-0.18	21.56	-2.99
	21.94	0.00	120	1a	-0.18	21.56	-2.99

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

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 180°	21.94	0.00	120	1a	-6.08	49.26	3.51
	21.94	0.00	240	1b	2.50	21.50	1.65
	21.94	0.00	0	1	0.00	13.89	-1.90
	21.94	0.00	120	1a	-4.72	39.22	2.91
	21.94	0.00	240	1b	4.72	39.21	2.90
1.2D + 1.0Di + 1.0Wi 210°	21.94	0.00	0	1	0.09	15.82	-2.17
	21.94	0.00	120	1a	-3.66	30.75	2.33
	21.94	0.00	240	1b	5.57	45.75	3.32
1.2D + 1.0Di + 1.0Wi 240°	21.94	0.00	0	1	0.18	21.56	-2.99
	21.94	0.00	120	1a	-2.50	21.51	1.65
	21.94	0.00	240	1b	6.08	49.25	3.51
1.2D + 1.0Di + 1.0Wi 300°	21.94	0.00	0	1	0.15	39.22	-5.54
	21.94	0.00	120	1a	-1.65	13.84	0.95
	21.94	0.00	240	1b	4.88	39.25	2.64
1.2D + 1.0Di + 1.0Wi 330°	21.94	0.00	0	1	0.09	45.74	-6.49
	21.94	0.00	120	1a	-1.93	15.79	1.01
	21.94	0.00	240	1b	3.84	30.79	2.01
1.2D + 1.0Ev + 1.0Eh Normal	21.94	0.00	0	1	0.00	45.15	-6.33
	21.94	0.00	120	1a	-3.01	22.30	1.68
	21.94	0.00	240	1b	3.01	22.30	1.68
1.2D + 1.0Ev + 1.0Eh 60°	21.94	0.00	0	1	-0.05	37.54	-5.37
	21.94	0.00	120	1a	-4.68	37.54	2.64
	21.94	0.00	240	1b	2.15	14.69	1.24
1.2D + 1.0Ev + 1.0Eh 90°	21.94	0.00	0	1	-0.06	29.92	-4.41
	21.94	0.00	120	1a	-5.28	43.11	3.01
	21.94	0.00	240	1b	2.36	16.73	1.40
1.2D + 1.0Ev + 1.0Eh 120°	21.94	0.00	0	1	-0.05	22.30	-3.45
	21.94	0.00	120	1a	-5.49	45.15	3.17
	21.94	0.00	240	1b	2.96	22.30	1.77
1.2D + 1.0Ev + 1.0Eh 180°	21.94	0.00	0	1	0.00	14.69	-2.48
	21.94	0.00	120	1a	-4.63	37.54	2.73
	21.94	0.00	240	1b	4.63	37.54	2.73
1.2D + 1.0Ev + 1.0Eh 210°	21.94	0.00	0	1	0.03	16.73	-2.74
	21.94	0.00	120	1a	-3.79	29.92	2.25
	21.94	0.00	240	1b	5.25	43.11	3.06
1.2D + 1.0Ev + 1.0Eh 240°	21.94	0.00	0	1	0.05	22.30	-3.45
	21.94	0.00	120	1a	-2.96	22.30	1.77
	21.94	0.00	240	1b	5.49	45.15	3.17
1.2D + 1.0Ev + 1.0Eh 300°	21.94	0.00	0	1	0.05	37.54	-5.37
	21.94	0.00	120	1a	-2.15	14.69	1.24
	21.94	0.00	240	1b	4.68	37.54	2.64
1.2D + 1.0Ev + 1.0Eh 330°	21.94	0.00	0	1	0.03	43.11	-6.08
	21.94	0.00	120	1a	-2.39	16.73	1.35
	21.94	0.00	240	1b	3.85	29.92	2.15
0.9D - 1.0Ev + 1.0Eh Normal	21.94	0.00	0	1	0.00	36.91	-5.12
	21.94	0.00	120	1a	-1.96	14.08	1.07
	21.94	0.00	240	1b	1.96	14.08	1.07
0.9D - 1.0Ev + 1.0Eh 60°	21.94	0.00	0	1	-0.05	29.30	-4.16
	21.94	0.00	120	1a	-3.63	29.30	2.04
	21.94	0.00	240	1b	1.10	6.47	0.64
0.9D - 1.0Ev + 1.0Eh 90°	21.94	0.00	0	1	-0.06	21.69	-3.20
	21.94	0.00	120	1a	-4.23	34.87	2.41
	21.94	0.00	240	1b	1.31	8.51	0.79
0.9D - 1.0Ev + 1.0Eh 120°	21.94	0.00	0	1	-0.05	14.08	-2.23
	21.94	0.00	120	1a	-4.43	36.91	2.56
	21.94	0.00	240	1b	1.91	14.08	1.16
0.9D - 1.0Ev + 1.0Eh 180°	21.94	0.00	0	1	0.00	6.47	-1.27
	21.94	0.00	120	1a	-3.58	29.30	2.12
	21.94	0.00	240	1b	3.58	29.30	2.12

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
0.9D - 1.0Ev + 1.0Eh 210°	21.94	0.00	0	1	0.03	8.51	-1.53
	21.94	0.00	120	1a	-2.74	21.69	1.65
	21.94	0.00	240	1b	4.20	34.87	2.46
0.9D - 1.0Ev + 1.0Eh 240°	21.94	0.00	0	1	0.05	14.08	-2.23
	21.94	0.00	120	1a	-1.91	14.08	1.16
	21.94	0.00	240	1b	4.43	36.91	2.56
0.9D - 1.0Ev + 1.0Eh 300°	21.94	0.00	0	1	0.05	29.30	-4.16
	21.94	0.00	120	1a	-1.10	6.47	0.64
	21.94	0.00	240	1b	3.63	29.30	2.04
0.9D - 1.0Ev + 1.0Eh 330°	21.94	0.00	0	1	0.03	34.87	-4.86
	21.94	0.00	120	1a	-1.34	8.51	0.74
	21.94	0.00	240	1b	2.80	21.69	1.55
1.0D + 1.0W Service Normal	21.94	0.00	0	1	0.00	96.29	-13.88
	21.94	0.00	120	1a	0.97	-9.67	-1.35
	21.94	0.00	240	1b	-0.97	-9.68	-1.35
1.0D + 1.0W Service 60°	21.94	0.00	0	1	-0.57	57.85	-8.23
	21.94	0.00	120	1a	-7.42	58.04	3.62
	21.94	0.00	240	1b	-4.85	-38.96	-2.81
1.0D + 1.0W Service 90°	21.94	0.00	0	1	-0.69	25.65	-3.62
	21.94	0.00	120	1a	-10.42	83.00	5.62
	21.94	0.00	240	1b	-4.16	-31.71	-2.00
1.0D + 1.0W Service 120°	21.94	0.00	0	1	-0.68	-9.67	1.51
	21.94	0.00	120	1a	-12.03	96.48	6.95
	21.94	0.00	240	1b	-1.66	-9.87	-0.17
1.0D + 1.0W Service 180°	21.94	0.00	0	1	0.00	-38.76	5.60
	21.94	0.00	120	1a	-6.84	57.85	4.62
	21.94	0.00	240	1b	6.84	57.84	4.61
1.0D + 1.0W Service 210°	21.94	0.00	0	1	0.35	-31.48	4.59
	21.94	0.00	120	1a	-2.78	25.54	2.41
	21.94	0.00	240	1b	10.07	82.88	6.22
1.0D + 1.0W Service 240°	21.94	0.00	0	1	0.68	-9.67	1.51
	21.94	0.00	120	1a	1.66	-9.86	-0.17
	21.94	0.00	240	1b	12.03	96.47	6.95
1.0D + 1.0W Service 300°	21.94	0.00	0	1	0.57	57.85	-8.23
	21.94	0.00	120	1a	4.85	-38.95	-2.81
	21.94	0.00	240	1b	7.42	58.03	3.62
1.0D + 1.0W Service 330°	21.94	0.00	0	1	0.35	82.78	-11.83
	21.94	0.00	120	1a	3.80	-31.59	-2.60
	21.94	0.00	240	1b	3.49	25.75	1.21

ASSET: 2544, ELLISVILLE FL
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14859902_C3_01

MAXIMUM REACTIONS SUMMARY

<u>Individual</u>		<u>Global (DL+WL+IL)</u>		<u>Global (DL+WL)</u>	
Max Uplift:	234.6 (kip)	Moment Ice:	608.49 (kip-ft)	Moment:	9306.99 (kip-ft)
Max Down:	313.58 (kip)	Total Down Ice:	92.32 (kip)	Total Down:	92.32 (kip)
Max Shear:	45.2 (kip)	Total Shear Ice:	4.34 (kip)	Total Shear:	66 (kip)
1.2D + 1.0W 120° Pattern 2					