



Structural Analysis Report

Structure : 320 ft Self Support Tower
ATC Asset Name : SPOUT SPRINGS NC1
ATC Asset Number : 21274
Engineering Number : 14884053_C3_02
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : 368-218
Carrier Site Number : WSVWN0055007
Site Location : 2305 NC 87 SOUTH
Sanford, NC 27332
35.2773° N, 79.0709° W
County : Harnett
Date : April 28, 2025
Max Usage : 76%
Analysis Result : Pass

Created By:

Thomas Ambrosio
Structural Engineer I

A handwritten signature in red ink, appearing to read 'T. Ambrosio', located below the printed name and title.



COA: P-1177



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 320 ft Self Support tower to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower:	Rohn Drawing #A981281, dated April 22, 1998
Foundation:	HDR Engineering Inc. Project #B995-001-015A981281, dated July 2, 1998
Geotechnical:	Froehling & Robertson Inc. Site ID #368-218E, dated June 9, 1998
Modification:	ATC Job #73123957, dated October 7, 2005

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:	117 mph (3-second gust)
Basic Wind Speed w/ Ice:	37 mph (3-second gust) w/ 0.63" radial ice concurrent
Code(s):	ANSI/TIA-222-I / 2015 IBC / 2018 North Carolina Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	$S_{05} = 0.18$, $S_{01} = 0.11$
Site Class:	Default

Conclusion

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

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

Structure Usages

Structural Component	Usage	Control	Location	Result
Leg	75.9%	Member X	Section 11	Pass
Diagonal	62.6%	Block Shear	Section 14	Pass
Horizontal	50.6%	Member X	Section 1	Pass
Bolt	57.2%	-	Section 4	Pass
Serviceability Usage	8.8%	Rotation	Elevation 320 ft	Pass
Foundation	56.8%	Down	Base	Pass
Foundation	58.4%	Moment	Base	Pass
Foundation	53.3%	Shear	Base	Pass
Foundation	54.1%	Uplift	Base	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Self Support Base (Global)	11,143.6	96.0	-	64.6
Self Support Base (Local)	-	383.8	304.8	40.8

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

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-I, Section 15.6.2

AT&T MOBILITY Final Loading

Elev (ft)	Qty	Equipment	Lines
300.0	1	Raycap DC9-48-60-24-8C-EV (Enclosure)	(1) 0.39" (10mm) Fiber Trunk (1) 0.41" (10.3mm) Fiber (2) 0.78" (19.7mm) 8 AWG 6 (1) 0.96" (24.3mm) Cable (2) 1.24" (31.6mm) 4 AWG 6 (5) 2 1/4" Coax (1) 3/8" (0.38"- 9.5mm) RET Control Cable
	2	Raycap DC6-48-60-18-8C-EV (Enclosure)	
	3	Ericsson AIR 6472 B77G B77M (67.2lbs)	
	3	Ericsson Radio 4490HP 44B5 44B12A C (20.6" Height)	
	3	Ericsson Radio 4494 44B14 20B29 M01	
	3	Ericsson Radio 8843 B2 B66A	
	6	Kathrein Scala 800372991	
294.0	3	Sector Frame	-

Install proposed lines in the place of the existing AT&T MOBILITY lines.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines
328.0	1	Sinclair SC480	(1) 1/2" Coax (1) 7/8" Coax
327.0	2	Andrew Microwaves DB810K-XT	(1) 1 5/8" Coax (1) 7/8" Coax
320.0	3	Side Arm	-
	1	dbSpectra ATS7TMA30	
313.0	1	Sinclair SC480	(1) 1 5/8" Coax
303.0	1	Side Arm	-
274.0	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	(1) 1 1/4" Hybriflex Cable
272.3	3	Alcatel-Lucent 1900 MHz 4X45 RRH	-
271.2	3	RFS APXVTM14-ALU-I20	
270.7	3	RFS APXVSPP18-C	
270.0	3	Light Sector Frame	(3) 1 1/4" Hybriflex Cable
266.5	3	Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	-
170.0	1	Andrew Microwaves PL8-65	(1) EW63
161.0	1	CellMax CMA-UBTULBULBHH/6516/16/21/21	(1) 1.75" (44.5mm) Hybrid
	1	Raycap RDIDC-9181-PF-48	
	2	JMA Wireless MX08FRO665-21	
	3	Sector Frame	
	3	Samsung SFG-ARR3J601DI	
	3	Samsung SFG-ARR3KM01DI	

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



Standard Conditions

All engineering services performed by A.T. Engineering Services, PLLC 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 A.T. Engineering Services, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Services, PLLC 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 A.T. Engineering Services, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

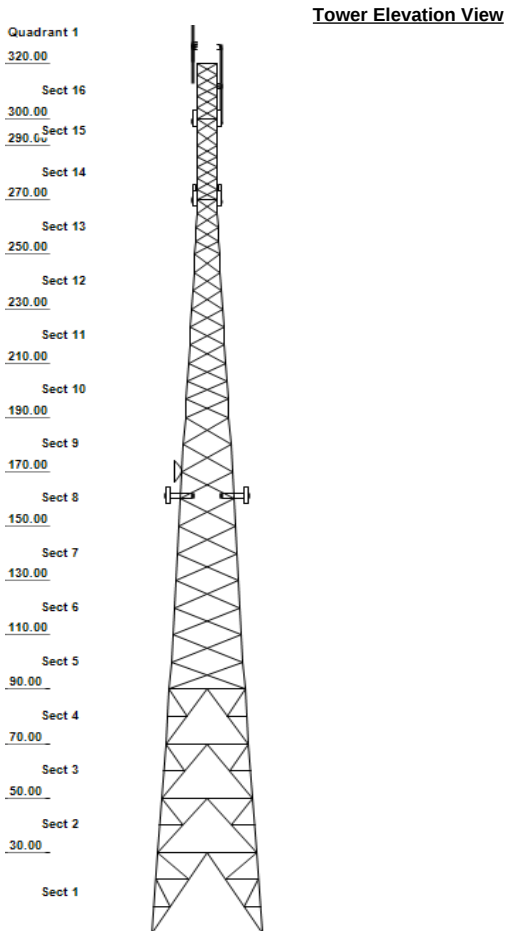
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Services, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

ASSET: SPOUT SPRINGS NC1, 21274
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053

ANALYSIS PARAMETERS			
Design Wind:	117 mph	Ice Wind:	37 mph w/ 0.63" ice
Risk Category	II	Exposure:	B
Topo Factor:	Method 1	Topo Feature:	Flat
Structure Height:	320 ft	Base Elevation:	0 ft
Base Width:	36.58 ft	Top Width:	6.53 ft
Service Wind:	60 mph	S _{DS} :	0.180
		S _{D1} :	0.110
		Shape:	Triangle

TOWER SECTION PROPERTIES			
Section	Leg Members	Diagonal Members	Horizontal Members
1 - 2	PX 50 ksi 10" DIA PIPE	PST 50 ksi 3" DIA PIPE	PST 50 ksi 3" DIA PIPE
3 - 4	PX 50 ksi 8" DIA PIPE	PST 50 ksi 3" DIA PIPE	PST 50 ksi 3" DIA PIPE
5	PX 50 ksi 8" DIA PIPE	SAE 36 ksi 5X5X0.375	
6	PSP 50 ksi ROHN 8 EHS	SAE 50 ksi 4X4X0.375	
7	PSP 50 ksi ROHN 8 EHS	SAE 50 ksi 4X4X0.3125	
8	PX 50 ksi 6" DIA PIPE	SAE 50 ksi 4X4X0.3125	
9	PSP 50 ksi ROHN 6 EHS	SAE 50 ksi 4X4X0.3125	
10	PX 50 ksi 5" DIA PIPE	SAE 50 ksi 3X3X0.25	
11	PX 50 ksi 4" DIA PIPE	SAE 36 ksi 2.5X2.5X0.25	
12	PX 50 ksi 4" DIA PIPE	SAE 36 ksi 2.5X2.5X0.1875	
13	PX 50 ksi 3-1/2" DIA PIPE	SAE 36 ksi 2X2X0.1875	SAE 36 ksi 2X2X0.1875
14	PST 50 ksi 3" DIA PIPE	SAE 36 ksi 1.75X1.75X0.1875	
15 - 16	PST 50 ksi 2-1/2" DIA PIPE	SAE 36 ksi 1.75X1.75X0.1875	SAE 36 ksi 1.75X1.75X0.1875



SECONDARY BRACING MEMBERS			
Section	Sub Diagonal 1	Sub Diagonal 2	Sub Diagonal 3
1	P2-1/2" DIA PIPE	P2-1/2" DIA PIPE	-
2	P2-1/2" DIA PIPE	-	-
3 - 4	P2" DIA PIPE	-	-
Section	Sub Horizontal 1	Sub Horizontal 2	Sub Horizontal 3
1	P2-1/2" DIA PIPE	P2-1/2" DIA PIPE	-
2	P2-1/2" DIA PIPE	-	-
3 - 4	P2" DIA PIPE	-	-

DISCRETE APPURTENANCE		LINEAR APPURTENANCE	
Elev (ft)	Description	Elev (ft)	Description
328.0	(1) Sinclair SC480	328.0	(1) 7/8" Coax
327.0	(2) Andrew Microwaves DB810K-XT	328.0	(1) 1/2" Coax
320.0	(3) Generic Round Side Arm	327.0	(1) 1 5/8" Coax
320.0	(1) dbSpectra ATS7TMA30	327.0	(1) 7/8" Coax
313.0	(1) Sinclair SC480	320.0	(1) Waveguide
303.0	(1) Generic Round Side Arm	313.0	(1) 1 5/8" Coax
300.0	(3) Ericsson Radio 8843 B2 B66A	300.0	(2) 1.24" (31.6mm) 4 AWG 6
300.0	(3) Ericsson Radio 4494 44B14 20B29 M0	300.0	(2) 0.78" (19.7mm) 8 AWG 6
300.0	(3) Ericsson AIR 6472 B77G B77M (67.2	300.0	(5) 2 1/4" Coax
300.0	(1) Raycap DC9-48-60-24-8C-EV (Enclos	300.0	(1) 0.41" (10.3mm) Fiber
300.0	(3) Ericsson Radio 4490HP 44B5 44B12A	300.0	(1) 0.39" (10mm) Fiber Trunk
300.0	(6) Kathrein Scala 800372991	300.0	(1) 3/8" (0.38"- 9.5mm) RET Cont
300.0	(2) Raycap DC6-48-60-18-8C-EV (Enclos	300.0	(1) 0.96" (24.3mm) Cable
294.0	(3) Generic Round Sector Frame	294.0	(1) Waveguide
274.0	(3) Alcatel-Lucent TD-RRH8x20-25 w/ Sol	274.0	(1) 1 1/4" Hybriflex Cable
272.3	(3) Alcatel-Lucent 1900 MHz 4X45 RRH	270.0	(3) 1 1/4" Hybriflex Cable
271.2	(3) RFS APXVTM14-ALU-I20	270.0	(1) Waveguide
270.7	(3) RFS APXVSP18-C	170.0	(1) EW63
270.0	(3) Generic Flat Light Sector Frame	161.0	(1) Waveguide
266.5	(3) Alcatel-Lucent 800 MHz 2X50W RRH	161.0	(1) 1.75" (44.5mm) Hybrid
170.0	(1) Andrew Microwaves PL8-65		
161.0	(2) JMA Wireless MX08FRO665-21		
161.0	(3) Samsung SFG-ARR3KM01DI		
161.0	(1) CellMax CMA-UBTULBULBHH/6516/1		
161.0	(3) Samsung SFG-ARR3J601DI		
161.0	(1) Raycap RDIDC-9181-PF-48		
161.0	(3) Generic Round Sector Frame		

GLOBAL BASE REACTIONS		
	DL+WL	DL+WL+IL
Moment (k-ft):	11,143.63	1,826.85
Axial (k):	96.00	141.42
Shear (k):	64.56	10.67

INDIVIDUAL BASE REACTIONS	
Comp (k):	383.76
Uplift (k):	304.76
Shear (k):	40.80

ANALYSIS PARAMETERS			
Location:	Harnett County, NC	Height:	320 ft
Type and Shape:	Self Support, Triangle	Base Elevation:	0.00 ft
Manufacturer:	Rohn	Bottom Face Width:	36.58 ft
Kd	0.85	Top Face Width:	6.53 ft
Ke:	0.99	Anchor Bolt Detail Type:	c

ICE & WIND PARAMETERS			
Exposure Category:	B	Design Wind Speed Without Ice:	117 mph
		Design Wind Speed with Ice:	37 mph
Risk Category:	II	Operational Windspeed:	60 mph
Topographic Factor Procedure:	Method 1		
Crest Height(H):	0 ft	Design Ice Thickness:	0.63 in
Crest Length(L):	0 ft	HMSL:	380 ft
Feature:	Flat	Distance from Apex (x):	0
		Upwind/Downwind:	

SEISMIC PARAMETERS					
Analysis Method:	Equivalent Lateral Force Method				
Site Class:	Default		Period Based on Rayleigh Method (sec):	1.30	
T _L (sec):	8	P:	1.3	C _s :	0.030
S _{ds} :	0.180	S _{d1} :	0.110	C _{s, Max} :	0.030
				C _{s, Min} :	0.030

LOAD CASES	
1.2D + 1.0W Normal	1.2D + 1.0W Normal - 117 mph Wind with No Ice
1.2D + 1.0W 60°	1.2D + 1.0W 60° - 117 mph Wind with No Ice
1.2D + 1.0W 90°	1.2D + 1.0W 90° - 117 mph Wind with No Ice
1.2D + 1.0W 120°	1.2D + 1.0W 120° - 117 mph Wind with No Ice
1.2D + 1.0W 180°	1.2D + 1.0W 180° - 117 mph Wind with No Ice
1.2D + 1.0W 210°	1.2D + 1.0W 210° - 117 mph Wind with No Ice
1.2D + 1.0W 240°	1.2D + 1.0W 240° - 117 mph Wind with No Ice
1.2D + 1.0W 300°	1.2D + 1.0W 300° - 117 mph Wind with No Ice
1.2D + 1.0W 330°	1.2D + 1.0W 330° - 117 mph Wind with No Ice
0.9D + 1.0W Normal	0.9D + 1.0W Normal - 117 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 60°	0.9D + 1.0W 60° - 117 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 90°	0.9D + 1.0W 90° - 117 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 120°	0.9D + 1.0W 120° - 117 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 180°	0.9D + 1.0W 180° - 117 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 210°	0.9D + 1.0W 210° - 117 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 240°	0.9D + 1.0W 240° - 117 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 300°	0.9D + 1.0W 300° - 117 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 330°	0.9D + 1.0W 330° - 117 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	1.2D + 1.0Di + 1.0Wi Normal - 37 mph Wind with 0.63" Radial Ice
1.2D + 1.0Di + 1.0Wi 60°	1.2D + 1.0Di + 1.0Wi 60° - 37 mph Wind with 0.63" Radial Ice
1.2D + 1.0Di + 1.0Wi 90°	1.2D + 1.0Di + 1.0Wi 90° - 37 mph Wind with 0.63" Radial Ice
1.2D + 1.0Di + 1.0Wi 120°	1.2D + 1.0Di + 1.0Wi 120° - 37 mph Wind with 0.63" Radial Ice
1.2D + 1.0Di + 1.0Wi 180°	1.2D + 1.0Di + 1.0Wi 180° - 37 mph Wind with 0.63" Radial Ice
1.2D + 1.0Di + 1.0Wi 210°	1.2D + 1.0Di + 1.0Wi 210° - 37 mph Wind with 0.63" Radial Ice
1.2D + 1.0Di + 1.0Wi 240°	1.2D + 1.0Di + 1.0Wi 240° - 37 mph Wind with 0.63" Radial Ice
1.2D + 1.0Di + 1.0Wi 300°	1.2D + 1.0Di + 1.0Wi 300° - 37 mph Wind with 0.63" Radial Ice

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

LOAD CASES

1.2D + 1.0Di + 1.0Wi 330°	1.2D + 1.0Di + 1.0Wi 330° - 37 mph Wind with 0.63" 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
1.2D + 1.0Ev + 1.5Eh Normal	1.2D + 1.0Ev + 1.5Eh Normal - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 60°	1.2D + 1.0Ev + 1.5Eh 60° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 90°	1.2D + 1.0Ev + 1.5Eh 90° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 120°	1.2D + 1.0Ev + 1.5Eh 120° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 180°	1.2D + 1.0Ev + 1.5Eh 180° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 210°	1.2D + 1.0Ev + 1.5Eh 210° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 240°	1.2D + 1.0Ev + 1.5Eh 240° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 300°	1.2D + 1.0Ev + 1.5Eh 300° - Seismic Overstrength
1.2D + 1.0Ev + 1.5Eh 330°	1.2D + 1.0Ev + 1.5Eh 330° - Seismic Overstrength
0.9D - 1.0Ev + 1.5Eh Normal	0.9D - 1.0Ev + 1.5Eh Normal - Seismic Overstrength (Reduced DL)
0.9D - 1.0Ev + 1.5Eh 60°	0.9D - 1.0Ev + 1.5Eh 60° - Seismic Overstrength (Reduced DL)
0.9D - 1.0Ev + 1.5Eh 90°	0.9D - 1.0Ev + 1.5Eh 90° - Seismic Overstrength (Reduced DL)
0.9D - 1.0Ev + 1.5Eh 120°	0.9D - 1.0Ev + 1.5Eh 120° - Seismic Overstrength (Reduced DL)
0.9D - 1.0Ev + 1.5Eh 180°	0.9D - 1.0Ev + 1.5Eh 180° - Seismic Overstrength (Reduced DL)
0.9D - 1.0Ev + 1.5Eh 210°	0.9D - 1.0Ev + 1.5Eh 210° - Seismic Overstrength (Reduced DL)
0.9D - 1.0Ev + 1.5Eh 240°	0.9D - 1.0Ev + 1.5Eh 240° - Seismic Overstrength (Reduced DL)
0.9D - 1.0Ev + 1.5Eh 300°	0.9D - 1.0Ev + 1.5Eh 300° - Seismic Overstrength (Reduced DL)
0.9D - 1.0Ev + 1.5Eh 330°	0.9D - 1.0Ev + 1.5Eh 330° - Seismic Overstrength (Reduced DL)

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

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)
328.0	Sinclair SC480	1	30	3.8	15.3	2.5	2.5	1.00	1.00	0.0	0.00	38.32	124	36
327.0	Andrew Microwaves DB810K-XT	2	35	4.4	14.5	3.0	3.0	1.00	1.00	-2.0	565.34	38.22	283	84
320.0	dbSpectra ATS7TMA30	1	25	1.6	1.8	13.3	9.0	0.80	0.50	0.0	0.00	38.07	20	30
320.0	Generic Round Side Arm	3	188	5.2	0.0	0.0	0.0	1.00	0.67	0.0	0.00	38.07	338	675
313.0	Sinclair SC480	1	30	3.8	15.3	2.5	2.5	1.00	1.00	-3.4	415.47	37.73	122	36
303.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	37.52	166	225
300.0	Ericsson Radio 8843 B2 B66A	3	72	2.0	1.5	13.2	11.1	0.80	0.50	0.0	0.00	37.42	76	259
300.0	Ericsson Radio 4494 44B14 20B2	3	57	2.2	1.5	15.1	5.6	0.80	0.67	0.0	0.00	37.42	113	206
300.0	Raycap DC9-48-60-24-8C-EV (Enc	1	19	2.7	2.2	12.4	9.7	0.80	1.00	0.0	0.00	37.42	68	22
300.0	Ericsson Radio 4490HP 44B5 44B	3	65	2.7	1.7	15.6	7.0	0.80	0.67	0.0	0.00	37.42	137	234
300.0	Raycap DC6-48-60-18-8C-EV (Enc	2	16	2.7	2.2	12.4	9.7	0.80	0.67	0.0	0.00	37.42	92	38
300.0	Ericsson AIR 6472 B77G B77M (6	3	67	4.8	3.0	15.8	7.4	0.80	0.65	0.0	0.00	37.42	237	242
300.0	Kathrein Scala 800372991	6	75	10.6	6.5	14.9	6.5	0.80	0.65	0.0	0.00	37.42	1057	539
294.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	37.22	769	2520
274.0	Alcatel-Lucent TD-RRH8x20-25 w	3	70	4.0	2.2	18.6	6.7	0.80	0.50	4.0	605.26	36.67	151	252
272.3	Alcatel-Lucent 1900 MHz 4X45 R	3	60	2.3	2.1	11.1	10.7	0.80	0.50	2.3	199.08	36.54	87	216
271.2	RFS APXVTM14-ALU-I20	3	56	6.3	4.7	12.6	6.3	0.80	0.66	1.2	373.66	36.47	311	202
270.7	RFS APXVSP18-C	3	57	8.0	6.0	11.8	7.0	0.80	0.82	0.0	0.00	36.41	489	205
270.0	Generic Flat Light Sector Fram	3	800	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	36.38	934	2880
266.5	Alcatel-Lucent 800 MHz 2X50W R	3	64	2.1	1.6	13.0	12.2	0.80	0.50	-3.5	265.43	36.13	76	230
170.0	Andrew Microwaves PL8-65	1	340	83.6	8.0	96.0	0.0	1.00	1.00	0.0	0.00	32.16	2286	408
161.0	Raycap RDIDC-9181-PF-48	1	22	1.9	1.3	14.0	8.0	0.80	0.50	0.0	0.00	31.70	20	26
161.0	Samsung SFG-ARR3KM01DI	3	61	1.9	1.3	15.0	8.9	0.80	0.50	0.0	0.00	31.70	61	221
161.0	Samsung SFG-ARR3J601DI	3	95	2.1	1.4	15.0	11.0	0.80	0.67	0.0	0.00	31.70	89	341
161.0	JMA Wireless MX08FRO665-21	2	65	12.5	6.0	20.0	8.0	0.80	0.73	0.0	0.00	31.70	393	155
161.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	31.70	655	2520
161.0	CellMax CMA-UBTULBULBHH/6516/1	1	105	16.2	6.0	26.7	7.7	0.80	1.00	0.0	0.00	31.70	350	126
Totals		65	10,774	492.6									9,502	12,929

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)
328.0	Sinclair SC480	1	30	3.8	15.3	2.5	2.5	1.00	1.00	0.0	0.00	38.32	124	27
327.0	Andrew Microwaves DB810K-XT	2	35	4.4	14.5	3.0	3.0	1.00	1.00	-2.0	565.34	38.22	283	63
320.0	dbSpectra ATS7TMA30	1	25	1.6	1.8	13.3	9.0	0.80	0.50	0.0	0.00	38.07	20	22
320.0	Generic Round Side Arm	3	188	5.2	0.0	0.0	0.0	1.00	0.67	0.0	0.00	38.07	338	506
313.0	Sinclair SC480	1	30	3.8	15.3	2.5	2.5	1.00	1.00	-3.4	415.47	37.73	122	27
303.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	37.52	166	169
300.0	Ericsson Radio 8843 B2 B66A	3	72	2.0	1.5	13.2	11.1	0.80	0.50	0.0	0.00	37.42	76	194
300.0	Ericsson Radio 4494 44B14 20B2	3	57	2.2	1.5	15.1	5.6	0.80	0.67	0.0	0.00	37.42	113	155
300.0	Raycap DC9-48-60-24-8C-EV (Enc	1	19	2.7	2.2	12.4	9.7	0.80	1.00	0.0	0.00	37.42	68	17
300.0	Ericsson Radio 4490HP 44B5 44B	3	65	2.7	1.7	15.6	7.0	0.80	0.67	0.0	0.00	37.42	137	176
300.0	Raycap DC6-48-60-18-8C-EV (Enc	2	16	2.7	2.2	12.4	9.7	0.80	0.67	0.0	0.00	37.42	92	29
300.0	Ericsson AIR 6472 B77G B77M (6	3	67	4.8	3.0	15.8	7.4	0.80	0.65	0.0	0.00	37.42	237	181
300.0	Kathrein Scala 800372991	6	75	10.6	6.5	14.9	6.5	0.80	0.65	0.0	0.00	37.42	1057	404
294.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	37.22	769	1890
274.0	Alcatel-Lucent TD-RRH8x20-25 w	3	70	4.0	2.2	18.6	6.7	0.80	0.50	4.0	605.26	36.67	151	189
272.3	Alcatel-Lucent 1900 MHz 4X45 R	3	60	2.3	2.1	11.1	10.7	0.80	0.50	2.3	199.08	36.54	87	162
271.2	RFS APXVTM14-ALU-I20	3	56	6.3	4.7	12.6	6.3	0.80	0.66	1.2	373.66	36.47	311	152
270.7	RFS APXVSP18-C	3	57	8.0	6.0	11.8	7.0	0.80	0.82	0.0	0.00	36.41	489	154
270.0	Generic Flat Light Sector Fram	3	800	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	36.38	934	2160
266.5	Alcatel-Lucent 800 MHz 2X50W R	3	64	2.1	1.6	13.0	12.2	0.80	0.50	-3.5	265.43	36.13	76	173
170.0	Andrew Microwaves PL8-65	1	340	83.6	8.0	96.0	0.0	1.00	1.00	0.0	0.00	32.16	2286	306
161.0	Raycap RDIDC-9181-PF-48	1	22	1.9	1.3	14.0	8.0	0.80	0.50	0.0	0.00	31.70	20	20
161.0	Samsung SFG-ARR3KM01DI	3	61	1.9	1.3	15.0	8.9	0.80	0.50	0.0	0.00	31.70	61	166
161.0	Samsung SFG-ARR3J601DI	3	95	2.1	1.4	15.0	11.0	0.80	0.67	0.0	0.00	31.70	89	255
161.0	JMA Wireless MX08FRO665-21	2	65	12.5	6.0	20.0	8.0	0.80	0.73	0.0	0.00	31.70	393	116
161.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	31.70	655	1890
161.0	CellMax CMA-UBTULBULBHH/6516/1	1	105	16.2	6.0	26.7	7.7	0.80	1.00	0.0	0.00	31.70	350	94
Totals		65	10,774	492.6									9,502	9,697

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)
328.0	Sinclair SC480	1	92	6.3	15.3	2.5	2.5	1.00	1.00	0.0	0.00	3.83	20	98
327.0	Andrew Microwaves DB810K-XT	2	85	6.7	14.5	3.0	3.0	1.00	1.00	-2.0	86.93	3.82	43	183
320.0	dbSpectra ATS7TMA30	1	27	1.9	1.8	13.3	9.0	0.80	0.50	0.0	0.00	3.81	2	32
320.0	Generic Round Side Arm	3	229	6.4	0.0	0.0	0.0	1.00	0.67	0.0	0.00	3.81	42	799
313.0	Sinclair SC480	1	92	6.3	15.3	2.5	2.5	1.00	1.00	-3.4	68.38	3.77	20	98
303.0	Generic Round Side Arm	1	229	6.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	3.75	21	266
300.0	Ericsson Radio 8843 B2 B66A	3	104	2.4	1.5	13.2	11.1	0.80	0.50	0.0	0.00	3.74	9	354
300.0	Ericsson Radio 4494 44B14 20B2	3	82	2.6	1.5	15.1	5.6	0.80	0.67	0.0	0.00	3.74	14	281
300.0	Raycap DC9-48-60-24-8C-EV (Enc	1	56	3.2	2.2	12.4	9.7	0.80	1.00	0.0	0.00	3.74	8	60

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

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)
300.0	Ericsson Radio 4490HP 44B5 44B	3	96	3.2	1.7	15.6	7.0	0.80	0.67	0.0	0.00	3.74	16	328
300.0	Raycap DC6-48-60-18-8C-EV (Enc	2	54	3.2	2.2	12.4	9.7	0.80	0.67	0.0	0.00	3.74	11	114
300.0	Ericsson AIR 6472 B77G B77M (6	3	119	5.5	3.0	15.8	7.4	0.80	0.65	0.0	0.00	3.74	27	398
300.0	Kathrein Scala 800372991	6	170	12.0	6.5	14.9	6.5	0.80	0.65	0.0	0.00	3.74	119	1108
294.0	Generic Round Sector Frame	3	1139	21.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	3.72	117	3838
274.0	Alcatel-Lucent TD-RRH8x20-25 w	3	112	4.6	2.2	18.6	6.7	0.80	0.50	4.0	69.43	3.67	17	379
272.3	Alcatel-Lucent 1900 MHz 4X45 R	3	96	2.8	2.1	11.1	10.7	0.80	0.50	2.3	24.06	3.65	10	324
271.2	RFS APXVTM14-ALU-I20	3	117	7.3	4.7	12.6	6.3	0.80	0.66	1.2	43.08	3.65	36	386
270.7	RFS APXVSP18-C	3	134	9.3	6.0	11.8	7.0	0.80	0.82	0.0	0.00	3.64	56	435
270.0	Generic Flat Light Sector Fram	3	1296	24.6	0.0	0.0	0.0	0.75	0.75	0.0	0.00	3.64	128	4367
266.5	Alcatel-Lucent 800 MHz 2X50W R	3	98	2.5	1.6	13.0	12.2	0.80	0.50	-3.5	32.04	3.61	9	333
170.0	Andrew Microwaves PL8-65	1	693	86.2	8.0	96.0	0.0	1.00	1.00	0.0	0.00	3.22	236	761
161.0	Raycap RDIDC-9181-PF-48	1	46	2.2	1.3	14.0	8.0	0.80	0.50	0.0	0.00	3.17	2	50
161.0	Samsung SFG-ARR3KM01DI	3	87	2.3	1.3	15.0	8.9	0.80	0.50	0.0	0.00	3.17	7	297
161.0	Samsung SFG-ARR3J601DI	3	125	2.5	1.4	15.0	11.0	0.80	0.67	0.0	0.00	3.17	11	432
161.0	JMA Wireless MX08FRO665-21	2	173	13.7	6.0	20.0	8.0	0.80	0.73	0.0	0.00	3.17	43	373
161.0	Generic Round Sector Frame	3	1113	21.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	3.17	97	3759
161.0	CellMax CMA-UBTULBULBHH/6516/1	1	239	17.5	6.0	26.7	7.7	0.80	1.00	0.0	0.00	3.17	38	260
Totals		65	17,960	606.7									1161	20,115

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)
328.0	Sinclair SC480	1	30	3.8	15.3	2.5	2.5	1.00	1.00	0.0	0.00	10.08	33	30
327.0	Andrew Microwaves DB810K-XT	2	35	4.4	14.5	3.0	3.0	1.00	1.00	-2.0	148.68	10.05	74	70
320.0	dbSpectra ATS7TMA30	1	25	1.6	1.8	13.3	9.0	0.80	0.50	0.0	0.00	10.01	5	25
320.0	Generic Round Side Arm	3	188	5.2	0.0	0.0	0.0	1.00	0.67	0.0	0.00	10.01	89	562
313.0	Sinclair SC480	1	30	3.8	15.3	2.5	2.5	1.00	1.00	-3.4	109.26	9.92	32	30
303.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	9.87	44	188
300.0	Ericsson Radio 8843 B2 B66A	3	72	2.0	1.5	13.2	11.1	0.80	0.50	0.0	0.00	9.84	20	216
300.0	Ericsson Radio 4494 44B14 20B2	3	57	2.2	1.5	15.1	5.6	0.80	0.67	0.0	0.00	9.84	30	172
300.0	Raycap DC9-48-60-24-8C-EV (Enc	1	19	2.7	2.2	12.4	9.7	0.80	1.00	0.0	0.00	9.84	18	18
300.0	Ericsson Radio 4490HP 44B5 44B	3	65	2.7	1.7	15.6	7.0	0.80	0.67	0.0	0.00	9.84	36	195
300.0	Raycap DC6-48-60-18-8C-EV (Enc	2	16	2.7	2.2	12.4	9.7	0.80	0.67	0.0	0.00	9.84	24	32
300.0	Ericsson AIR 6472 B77G B77M (6	3	67	4.8	3.0	15.8	7.4	0.80	0.65	0.0	0.00	9.84	62	202
300.0	Kathrein Scala 800372991	6	75	10.6	6.5	14.9	6.5	0.80	0.65	0.0	0.00	9.84	278	449
294.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	9.79	202	2100
274.0	Alcatel-Lucent TD-RRH8x20-25 w	3	70	4.0	2.2	18.6	6.7	0.80	0.50	4.0	159.17	9.64	40	210
272.3	Alcatel-Lucent 1900 MHz 4X45 R	3	60	2.3	2.1	11.1	10.7	0.80	0.50	2.3	52.35	9.61	23	180
271.2	RFS APXVTM14-ALU-I20	3	56	6.3	4.7	12.6	6.3	0.80	0.66	1.2	98.27	9.59	82	169
270.7	RFS APXVSP18-C	3	57	8.0	6.0	11.8	7.0	0.80	0.82	0.0	0.00	9.57	129	171
270.0	Generic Flat Light Sector Fram	3	800	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	9.57	246	2400
266.5	Alcatel-Lucent 800 MHz 2X50W R	3	64	2.1	1.6	13.0	12.2	0.80	0.50	-3.5	69.80	9.50	20	192
170.0	Andrew Microwaves PL8-65	1	340	83.6	8.0	96.0	0.0	1.00	1.00	0.0	0.00	8.46	601	340
161.0	Raycap RDIDC-9181-PF-48	1	22	1.9	1.3	14.0	8.0	0.80	0.50	0.0	0.00	8.34	5	22
161.0	Samsung SFG-ARR3KM01DI	3	61	1.9	1.3	15.0	8.9	0.80	0.50	0.0	0.00	8.34	16	184
161.0	Samsung SFG-ARR3J601DI	3	95	2.1	1.4	15.0	11.0	0.80	0.67	0.0	0.00	8.34	24	284
161.0	JMA Wireless MX08FRO665-21	2	65	12.5	6.0	20.0	8.0	0.80	0.73	0.0	0.00	8.34	103	129
161.0	Generic Round Sector Frame	3	700	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	8.34	172	2100
161.0	CellMax CMA-UBTULBULBHH/6516/1	1	105	16.2	6.0	26.7	7.7	0.80	1.00	0.0	0.00	8.34	92	105
Totals		65	10,774	492.6									2,499	10,774

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

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	328.0	1/2" Coax	1	0.63	0.15	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	328.0	7/8" Coax	1	1.09	0.33	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	327.0	1 5/8" Coax	1	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	327.0	7/8" Coax	1	1.09	0.33	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	320.0	Waveguide	1	2.00	6.00	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	313.0	1 5/8" Coax	1	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	300.0	1.24" (31.6mm) 4 AWG 6	2	1.24	1.17	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	300.0	0.39" (10mm) Fiber Trunk	1	0.39	0.06	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	300.0	0.78" (19.7mm) 8 AWG 6	2	0.78	0.59	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	300.0	2 1/4" Coax	5	2.38	1.22	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	300.0	0.41" (10.3mm) Fiber	1	0.41	0.09	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	300.0	0.96" (24.3mm) Cable	1	0.96	0.88	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	300.0	3/8" (0.38"- 9.5mm) RET Contro	1	0.38	0.23	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	294.0	Waveguide	1	2.00	6.00	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	274.0	1 1/4" Hybriflex Cable	1	1.54	1.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	270.0	1 1/4" Hybriflex Cable	3	1.54	1.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	270.0	Waveguide	1	2.00	6.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	170.0	EW63	1	2.01	0.51	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	161.0	1.75" (44.5mm) Hybrid	1	1.75	2.72	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	161.0	Waveguide	1	2.00	6.00	100	3	Individual	0.00	N	1.00	1.00	0.00

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

1.2D + 1.0W Normal

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	1.00	1.00	0.0	17.18	47.15	0.00	1247	0	1513	362	1875
15	295	37.25	5.568	4.792	0.00	0.153	2.76	1.00	1.00	0.0	8.29	22.88	0.00	770	0	724	561	1285
14	280	36.74	10.768	11.667	0.00	0.164	2.72	1.00	1.00	0.0	17.10	46.55	0.00	1745	0	1453	1192	2646
13	260	36.02	13.087	13.356	0.00	0.167	2.71	1.00	1.00	0.0	20.06	54.35	0.00	2446	0	1664	1507	3170
12	240	35.26	14.589	15.027	0.00	0.148	2.78	1.00	1.00	0.0	22.03	61.19	0.00	2705	0	1834	1475	3308
11	220	34.45	16.318	15.026	0.00	0.130	2.85	1.00	1.00	0.0	23.72	67.51	0.00	3119	0	1977	1441	3418
10	200	33.58	22.189	18.577	0.00	0.144	2.80	1.00	1.00	0.0	30.51	85.28	0.00	3963	0	2434	1405	3839
9	180	32.65	24.957	22.124	0.00	0.144	2.79	1.00	1.00	0.0	34.15	95.44	0.00	4706	0	2649	1366	4015
8	160	31.64	26.493	22.119	0.00	0.132	2.84	1.00	1.00	0.0	35.56	100.93	0.00	5452	0	2715	1479	4193
7	140	30.54	28.807	28.811	0.00	0.139	2.81	1.00	1.00	0.0	40.72	114.46	0.00	6092	0	2971	1498	4469
6	120	29.31	32.254	28.794	0.00	0.134	2.83	1.00	1.00	0.0	44.08	124.79	0.00	6870	0	3109	1438	4546
5	100	27.92	42.271	28.806	0.00	0.143	2.80	1.00	1.00	0.0	54.23	151.66	0.00	8819	0	3599	1370	4968
4	80	26.30	0.000	59.668	0.00	0.110	2.93	1.00	1.00	0.0	29.04	84.94	0.00	6968	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	1.00	1.00	0.0	29.87	88.17	0.00	7110	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	1.00	1.00	0.0	34.19	100.12	0.00	8435	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	1.00	1.00	0.0	51.02	150.90	0.00	12623	0	2638	1514	4152
Totals														83,069	0			55,029

1.2D + 1.0W 60°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.80	1.00	0.0	14.84	40.71	0.00	1247	0	1306	362	1668
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.80	1.00	0.0	7.18	19.81	0.00	770	0	627	561	1188
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.80	1.00	0.0	14.95	40.69	0.00	1745	0	1270	1192	2463
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.80	1.00	0.0	17.44	47.26	0.00	2446	0	1447	1507	2953
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.80	1.00	0.0	19.11	53.08	0.00	2705	0	1591	1475	3065
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.80	1.00	0.0	20.46	58.22	0.00	3119	0	1705	1441	3146
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.80	1.00	0.0	26.07	72.87	0.00	3963	0	2080	1405	3485
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.80	1.00	0.0	29.16	81.49	0.00	4706	0	2262	1366	3628
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.80	1.00	0.0	30.26	85.89	0.00	5452	0	2310	1479	3789
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.80	1.00	0.0	34.96	98.26	0.00	6092	0	2550	1498	4049
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.80	1.00	0.0	37.63	106.53	0.00	6870	0	2654	1438	4092
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.80	1.00	0.0	45.78	128.02	0.00	8819	0	3038	1370	4407
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.80	1.00	0.0	29.04	84.94	0.00	6968	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.80	1.00	0.0	29.87	88.17	0.00	7110	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.80	1.00	0.0	34.19	100.12	0.00	8435	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.80	1.00	0.0	51.58	152.57	0.00	12623	0	2667	1514	4181
Totals														83,069	0			51,257

1.2D + 1.0W 90°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.85	1.00	0.0	15.42	42.32	0.00	1247	0	1358	362	1720
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.85	1.00	0.0	7.45	20.57	0.00	770	0	651	561	1212
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.85	1.00	0.0	15.49	42.15	0.00	1745	0	1316	1192	2509
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.85	1.00	0.0	18.09	49.03	0.00	2446	0	1501	1507	3008
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.85	1.00	0.0	19.84	55.11	0.00	2705	0	1651	1475	3126
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.85	1.00	0.0	21.27	60.55	0.00	3119	0	1773	1441	3214
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.85	1.00	0.0	27.18	75.97	0.00	3963	0	2169	1405	3573
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.85	1.00	0.0	30.41	84.98	0.00	4706	0	2358	1366	3724
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.85	1.00	0.0	31.58	89.65	0.00	5452	0	2411	1479	3890
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.85	1.00	0.0	36.40	102.31	0.00	6092	0	2656	1498	4154
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.85	1.00	0.0	39.24	111.09	0.00	6870	0	2767	1438	4205
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.85	1.00	0.0	47.89	133.93	0.00	8819	0	3178	1370	4548
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.85	1.00	0.0	29.04	84.94	0.00	6968	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.85	1.00	0.0	29.87	88.17	0.00	7110	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.85	1.00	0.0	34.19	100.12	0.00	8435	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.85	1.00	0.0	51.58	152.57	0.00	12623	0	2667	1514	4181
Totals														83,069	0			52,208

1.2D + 1.0W 120°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	1.00	1.00	0.0	17.18	47.15	0.00	1247	0	1513	362	1875
15	295	37.25	5.568	4.792	0.00	0.153	2.76	1.00	1.00	0.0	8.29	22.88	0.00	770	0	724	561	1285
14	280	36.74	10.768	11.667	0.00	0.164	2.72	1.00	1.00	0.0	17.10	46.55	0.00	1745	0	1453	1192	2646
13	260	36.02	13.087	13.356	0.00	0.167	2.71	1.00	1.00	0.0	20.06	54.35	0.00	2446	0	1664	1507	3170
12	240	35.26	14.589	15.027	0.00	0.148	2.78	1.00	1.00	0.0	22.03	61.19	0.00	2705	0	1834	1475	3308
11	220	34.45	16.318	15.026	0.00	0.130	2.85	1.00	1.00	0.0	23.72	67.51	0.00	3119	0	1977	1441	3418
10	200	33.58	22.189	18.577	0.00	0.144	2.80	1.00	1.00	0.0	30.51	85.28	0.00	3963	0	2434	1405	3839
9	180	32.65	24.957	22.124	0.00	0.144	2.79	1.00	1.00	0.0	34.15	95.44	0.00	4706	0	2649	1366	4015

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

1.2D + 1.0W 120°

Gust Response Factor (Gh): 0.85

117 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)
8	160	31.64	26.493	22.119	0.00	0.132	2.84	1.00	1.00	0.0	35.56	100.93	0.00	5452	0	2715	1479	4193
7	140	30.54	28.807	28.811	0.00	0.139	2.81	1.00	1.00	0.0	40.72	114.46	0.00	6092	0	2971	1498	4469
6	120	29.31	32.254	28.794	0.00	0.134	2.83	1.00	1.00	0.0	44.08	124.79	0.00	6870	0	3109	1438	4546
5	100	27.92	42.271	28.806	0.00	0.143	2.80	1.00	1.00	0.0	54.23	151.66	0.00	8819	0	3599	1370	4968
4	80	26.30	0.000	59.668	0.00	0.110	2.93	1.00	1.00	0.0	29.04	84.94	0.00	6968	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	1.00	1.00	0.0	29.87	88.17	0.00	7110	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	1.00	1.00	0.0	34.19	100.12	0.00	8435	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	1.00	1.00	0.0	51.58	152.57	0.00	12623	0	2667	1514	4181
Totals															83,069	0		55,058

1.2D + 1.0W 180°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.80	1.00	0.0	14.84	40.71	0.00	1247	0	1306	362	1668
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.80	1.00	0.0	7.18	19.81	0.00	770	0	627	561	1188
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.80	1.00	0.0	14.95	40.69	0.00	1745	0	1270	1192	2463
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.80	1.00	0.0	17.44	47.26	0.00	2446	0	1447	1507	2953
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.80	1.00	0.0	19.11	53.08	0.00	2705	0	1591	1475	3065
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.80	1.00	0.0	20.46	58.22	0.00	3119	0	1705	1441	3146
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.80	1.00	0.0	26.07	72.87	0.00	3963	0	2080	1405	3485
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.80	1.00	0.0	29.16	81.49	0.00	4706	0	2262	1366	3628
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.80	1.00	0.0	30.26	85.89	0.00	5452	0	2310	1479	3789
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.80	1.00	0.0	34.96	98.26	0.00	6092	0	2550	1498	4049
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.80	1.00	0.0	37.63	106.53	0.00	6870	0	2654	1438	4092
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.80	1.00	0.0	45.78	128.02	0.00	8819	0	3038	1370	4407
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.80	1.00	0.0	29.04	84.94	0.00	6968	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.80	1.00	0.0	29.87	88.17	0.00	7110	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.80	1.00	0.0	34.19	100.12	0.00	8435	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.80	1.00	0.0	51.58	152.57	0.00	12623	0	2667	1514	4181
Totals															83,069	0		51,257

1.2D + 1.0W 210°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.85	1.00	0.0	15.42	42.32	0.00	1247	0	1358	362	1720
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.85	1.00	0.0	7.45	20.57	0.00	770	0	651	561	1212
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.85	1.00	0.0	15.49	42.15	0.00	1745	0	1316	1192	2509
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.85	1.00	0.0	18.09	49.03	0.00	2446	0	1501	1507	3008
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.85	1.00	0.0	19.84	55.11	0.00	2705	0	1651	1475	3126
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.85	1.00	0.0	21.27	60.55	0.00	3119	0	1773	1441	3214
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.85	1.00	0.0	27.18	75.97	0.00	3963	0	2169	1405	3573
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.85	1.00	0.0	30.41	84.98	0.00	4706	0	2358	1366	3724
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.85	1.00	0.0	31.58	89.65	0.00	5452	0	2411	1479	3890
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.85	1.00	0.0	36.40	102.31	0.00	6092	0	2656	1498	4154
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.85	1.00	0.0	39.24	111.09	0.00	6870	0	2767	1438	4205
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.85	1.00	0.0	47.89	133.93	0.00	8819	0	3178	1370	4548
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.85	1.00	0.0	29.04	84.94	0.00	6968	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.85	1.00	0.0	29.87	88.17	0.00	7110	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.85	1.00	0.0	34.19	100.12	0.00	8435	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.85	1.00	0.0	51.58	152.57	0.00	12623	0	2667	1514	4181
Totals															83,069	0		52,208

1.2D + 1.0W 240°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	1.00	1.00	0.0	17.18	47.15	0.00	1247	0	1513	362	1875
15	295	37.25	5.568	4.792	0.00	0.153	2.76	1.00	1.00	0.0	8.29	22.88	0.00	770	0	724	561	1285
14	280	36.74	10.768	11.667	0.00	0.164	2.72	1.00	1.00	0.0	17.10	46.55	0.00	1745	0	1453	1192	2646
13	260	36.02	13.087	13.356	0.00	0.167	2.71	1.00	1.00	0.0	20.06	54.35	0.00	2446	0	1664	1507	3170
12	240	35.26	14.589	15.027	0.00	0.148	2.78	1.00	1.00	0.0	22.03	61.19	0.00	2705	0	1834	1475	3308
11	220	34.45	16.318	15.026	0.00	0.130	2.85	1.00	1.00	0.0	23.72	67.51	0.00	3119	0	1977	1441	3418
10	200	33.58	22.189	18.577	0.00	0.144	2.80	1.00	1.00	0.0	30.51	85.28	0.00	3963	0	2434	1405	3839
9	180	32.65	24.957	22.124	0.00	0.144	2.79	1.00	1.00	0.0	34.15	95.44	0.00	4706	0	2649	1366	4015
8	160	31.64	26.493	22.119	0.00	0.132	2.84	1.00	1.00	0.0	35.56	100.93	0.00	5452	0	2715	1479	4193
7	140	30.54	28.807	28.811	0.00	0.139	2.81	1.00	1.00	0.0	40.72	114.46	0.00	6092	0	2971	1498	4469
6	120	29.31	32.254	28.794	0.00	0.134	2.83	1.00	1.00	0.0	44.08	124.79	0.00	6870	0	3109	1438	4546
5	100	27.92	42.271	28.806	0.00	0.143	2.80	1.00	1.00	0.0	54.23	151.66	0.00	8819	0	3599	1370	4968
4	80	26.30	0.000	59.668	0.00	0.110	2.93	1.00	1.00	0.0	29.04	84.94	0.00	6968	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	1.00	1.00	0.0	29.87	88.17	0.00	7110	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	1.00	1.00	0.0	34.19	100.12	0.00	8435	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	1.00	1.00	0.0	51.58	152.57	0.00	12623	0	2667	1514	4181

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

1.2D + 1.0W 240°

Gust Response Factor (Gh): 0.85

117 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														83,069	0			55,058

1.2D + 1.0W 300°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.80	1.00	0.0	14.84	40.71	0.00	1247	0	1306	362	1668
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.80	1.00	0.0	7.18	19.81	0.00	770	0	627	561	1188
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.80	1.00	0.0	14.95	40.69	0.00	1745	0	1270	1192	2463
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.80	1.00	0.0	17.44	47.26	0.00	2446	0	1447	1507	2953
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.80	1.00	0.0	19.11	53.08	0.00	2705	0	1591	1475	3065
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.80	1.00	0.0	20.46	58.22	0.00	3119	0	1705	1441	3146
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.80	1.00	0.0	26.07	72.87	0.00	3963	0	2080	1405	3485
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.80	1.00	0.0	29.16	81.49	0.00	4706	0	2262	1366	3628
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.80	1.00	0.0	30.26	85.89	0.00	5452	0	2310	1479	3789
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.80	1.00	0.0	34.96	98.26	0.00	6092	0	2550	1498	4049
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.80	1.00	0.0	37.63	106.53	0.00	6870	0	2654	1438	4092
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.80	1.00	0.0	45.78	128.02	0.00	8819	0	3038	1370	4407
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.80	1.00	0.0	29.04	84.94	0.00	6968	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.80	1.00	0.0	29.87	88.17	0.00	7110	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.80	1.00	0.0	34.19	100.12	0.00	8435	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.80	1.00	0.0	51.58	152.57	0.00	12623	0	2667	1514	4181
Totals														83,069	0			51,257

1.2D + 1.0W 330°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.85	1.00	0.0	15.42	42.32	0.00	1247	0	1358	362	1720
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.85	1.00	0.0	7.45	20.57	0.00	770	0	651	561	1212
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.85	1.00	0.0	15.49	42.15	0.00	1745	0	1316	1192	2509
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.85	1.00	0.0	18.09	49.03	0.00	2446	0	1501	1507	3008
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.85	1.00	0.0	19.84	55.11	0.00	2705	0	1651	1475	3126
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.85	1.00	0.0	21.27	60.55	0.00	3119	0	1773	1441	3214
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.85	1.00	0.0	27.18	75.97	0.00	3963	0	2169	1405	3573
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.85	1.00	0.0	30.41	84.98	0.00	4706	0	2358	1366	3724
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.85	1.00	0.0	31.58	89.65	0.00	5452	0	2411	1479	3890
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.85	1.00	0.0	36.40	102.31	0.00	6092	0	2656	1498	4154
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.85	1.00	0.0	39.24	111.09	0.00	6870	0	2767	1438	4205
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.85	1.00	0.0	47.89	133.93	0.00	8819	0	3178	1370	4548
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.85	1.00	0.0	29.04	84.94	0.00	6968	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.85	1.00	0.0	29.87	88.17	0.00	7110	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.85	1.00	0.0	34.19	100.12	0.00	8435	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.85	1.00	0.0	51.58	152.57	0.00	12623	0	2667	1514	4181
Totals														83,069	0			52,208

0.9D + 1.0W Normal

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	1.00	1.00	0.0	17.18	47.15	0.00	935	0	1513	362	1875
15	295	37.25	5.568	4.792	0.00	0.153	2.76	1.00	1.00	0.0	8.29	22.88	0.00	578	0	724	561	1285
14	280	36.74	10.768	11.667	0.00	0.164	2.72	1.00	1.00	0.0	17.10	46.55	0.00	1308	0	1453	1192	2646
13	260	36.02	13.087	13.356	0.00	0.167	2.71	1.00	1.00	0.0	20.06	54.35	0.00	1834	0	1664	1507	3170
12	240	35.26	14.589	15.027	0.00	0.148	2.78	1.00	1.00	0.0	22.03	61.19	0.00	2029	0	1834	1475	3308
11	220	34.45	16.318	15.026	0.00	0.130	2.85	1.00	1.00	0.0	23.72	67.51	0.00	2339	0	1977	1441	3418
10	200	33.58	22.189	18.577	0.00	0.144	2.80	1.00	1.00	0.0	30.51	85.28	0.00	2972	0	2434	1405	3839
9	180	32.65	24.957	22.124	0.00	0.144	2.79	1.00	1.00	0.0	34.15	95.44	0.00	3530	0	2649	1366	4015
8	160	31.64	26.493	22.119	0.00	0.132	2.84	1.00	1.00	0.0	35.56	100.93	0.00	4089	0	2715	1479	4193
7	140	30.54	28.807	28.811	0.00	0.139	2.81	1.00	1.00	0.0	40.72	114.46	0.00	4569	0	2971	1498	4469
6	120	29.31	32.254	28.794	0.00	0.134	2.83	1.00	1.00	0.0	44.08	124.79	0.00	5152	0	3109	1438	4546
5	100	27.92	42.271	28.806	0.00	0.143	2.80	1.00	1.00	0.0	54.23	151.66	0.00	6614	0	3599	1370	4968
4	80	26.30	0.000	59.668	0.00	0.110	2.93	1.00	1.00	0.0	29.04	84.94	0.00	5226	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	1.00	1.00	0.0	29.87	88.17	0.00	5333	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	1.00	1.00	0.0	34.19	100.12	0.00	6326	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	1.00	1.00	0.0	51.58	152.57	0.00	9467	0	2667	1514	4181
Totals														62,302	0			55,058

0.9D + 1.0W 60°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.80	1.00	0.0	14.84	40.71	0.00	935	0	1306	362	1668

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

0.9D + 1.0W 60°

Gust Response Factor (Gh): 0.85

117 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 _f	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)
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.80	1.00	0.0	7.18	19.81	0.00	578	0	627	561	1188
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.80	1.00	0.0	14.95	40.69	0.00	1308	0	1270	1192	2463
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.80	1.00	0.0	17.44	47.26	0.00	1834	0	1447	1507	2953
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.80	1.00	0.0	19.11	53.08	0.00	2029	0	1591	1475	3065
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.80	1.00	0.0	20.46	58.22	0.00	2339	0	1705	1441	3146
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.80	1.00	0.0	26.07	72.87	0.00	2972	0	2080	1405	3485
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.80	1.00	0.0	29.16	81.49	0.00	3530	0	2262	1366	3628
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.80	1.00	0.0	30.26	85.89	0.00	4089	0	2310	1479	3789
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.80	1.00	0.0	34.96	98.26	0.00	4569	0	2550	1498	4049
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.80	1.00	0.0	37.63	106.53	0.00	5152	0	2654	1438	4092
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.80	1.00	0.0	45.78	128.02	0.00	6614	0	3038	1370	4407
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.80	1.00	0.0	29.04	84.94	0.00	5226	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.80	1.00	0.0	29.87	88.17	0.00	5333	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.80	1.00	0.0	34.19	100.12	0.00	6326	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.80	1.00	0.0	51.58	152.57	0.00	9467	0	2667	1514	4181
Totals														62,302	0			51,257

0.9D + 1.0W 90°

Gust Response Factor (Gh): 0.85

117 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 _f	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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.85	1.00	0.0	15.42	42.32	0.00	935	0	1358	362	1720
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.85	1.00	0.0	7.45	20.57	0.00	578	0	651	561	1212
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.85	1.00	0.0	15.49	42.15	0.00	1308	0	1316	1192	2509
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.85	1.00	0.0	18.09	49.03	0.00	1834	0	1501	1507	3008
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.85	1.00	0.0	19.84	55.11	0.00	2029	0	1651	1475	3126
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.85	1.00	0.0	21.27	60.55	0.00	2339	0	1773	1441	3214
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.85	1.00	0.0	27.18	75.97	0.00	2972	0	2169	1405	3573
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.85	1.00	0.0	30.41	84.98	0.00	3530	0	2358	1366	3724
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.85	1.00	0.0	31.58	89.65	0.00	4089	0	2411	1479	3890
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.85	1.00	0.0	36.40	102.31	0.00	4569	0	2656	1498	4154
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.85	1.00	0.0	39.24	111.09	0.00	5152	0	2767	1438	4205
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.85	1.00	0.0	47.89	133.93	0.00	6614	0	3178	1370	4548
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.85	1.00	0.0	29.04	84.94	0.00	5226	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.85	1.00	0.0	29.87	88.17	0.00	5333	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.85	1.00	0.0	34.19	100.12	0.00	6326	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.85	1.00	0.0	51.58	152.57	0.00	9467	0	2667	1514	4181
Totals														62,302	0			52,208

0.9D + 1.0W 120°

Gust Response Factor (Gh): 0.85

117 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 _f	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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	1.00	1.00	0.0	17.18	47.15	0.00	935	0	1513	362	1875
15	295	37.25	5.568	4.792	0.00	0.153	2.76	1.00	1.00	0.0	8.29	22.88	0.00	578	0	724	561	1285
14	280	36.74	10.768	11.667	0.00	0.164	2.72	1.00	1.00	0.0	17.10	46.55	0.00	1308	0	1453	1192	2646
13	260	36.02	13.087	13.356	0.00	0.167	2.71	1.00	1.00	0.0	20.06	54.35	0.00	1834	0	1664	1507	3170
12	240	35.26	14.589	15.027	0.00	0.148	2.78	1.00	1.00	0.0	22.03	61.19	0.00	2029	0	1834	1475	3308
11	220	34.45	16.318	15.026	0.00	0.130	2.85	1.00	1.00	0.0	23.72	67.51	0.00	2339	0	1977	1441	3418
10	200	33.58	22.189	18.577	0.00	0.144	2.80	1.00	1.00	0.0	30.51	85.28	0.00	2972	0	2434	1405	3839
9	180	32.65	24.957	22.124	0.00	0.144	2.79	1.00	1.00	0.0	34.15	95.44	0.00	3530	0	2649	1366	4015
8	160	31.64	26.493	22.119	0.00	0.132	2.84	1.00	1.00	0.0	35.56	100.93	0.00	4089	0	2715	1479	4193
7	140	30.54	28.807	28.811	0.00	0.139	2.81	1.00	1.00	0.0	40.72	114.46	0.00	4569	0	2971	1498	4469
6	120	29.31	32.254	28.794	0.00	0.134	2.83	1.00	1.00	0.0	44.08	124.79	0.00	5152	0	3109	1438	4546
5	100	27.92	42.271	28.806	0.00	0.143	2.80	1.00	1.00	0.0	54.23	151.66	0.00	6614	0	3599	1370	4968
4	80	26.30	0.000	59.668	0.00	0.110	2.93	1.00	1.00	0.0	29.04	84.94	0.00	5226	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	1.00	1.00	0.0	29.87	88.17	0.00	5333	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	1.00	1.00	0.0	34.19	100.12	0.00	6326	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	1.00	1.00	0.0	51.58	152.57	0.00	9467	0	2667	1514	4181
Totals														62,302	0			55,058

0.9D + 1.0W 180°

Gust Response Factor (Gh): 0.85

117 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 _f	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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.80	1.00	0.0	14.84	40.71	0.00	935	0	1306	362	1668
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.80	1.00	0.0	7.18	19.81	0.00	578	0	627	561	1188
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.80	1.00	0.0	14.95	40.69	0.00	1308	0	1270	1192	2463
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.80	1.00	0.0	17.44	47.26	0.00	1834	0	1447	1507	2953
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.80	1.00	0.0	19.11	53.08	0.00	2029	0	1591	1475	3065
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.80	1.00	0.0	20.46	58.22	0.00	2339	0	1705	1441	3146
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.80	1.00	0.0	26.07	72.87	0.00	2972	0	2080	1405	3485
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.80	1.00	0.0	29.16	81.49	0.00	3530	0	2262	1366	3628
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.80	1.00	0.0	30.26	85.89	0.00	4089	0	2310	1479	3789

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

0.9D + 1.0W 180°

Gust Response Factor (Gh): 0.85

117 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 _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)
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.80	1.00	0.0	34.96	98.26	0.00	4569	0	2550	1498	4049
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.80	1.00	0.0	37.63	106.53	0.00	5152	0	2654	1438	4092
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.80	1.00	0.0	45.78	128.02	0.00	6614	0	3038	1370	4407
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.80	1.00	0.0	29.04	84.94	0.00	5226	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.80	1.00	0.0	29.87	88.17	0.00	5333	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.80	1.00	0.0	34.19	100.12	0.00	6326	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.80	1.00	0.0	51.58	152.57	0.00	9467	0	2667	1514	4181
Totals															62,302	0		51,257

0.9D + 1.0W 210°

Gust Response Factor (Gh): 0.85

117 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 _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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.85	1.00	0.0	15.42	42.32	0.00	935	0	1358	362	1720
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.85	1.00	0.0	7.45	20.57	0.00	578	0	651	561	1212
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.85	1.00	0.0	15.49	42.15	0.00	1308	0	1316	1192	2509
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.85	1.00	0.0	18.09	49.03	0.00	1834	0	1501	1507	3008
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.85	1.00	0.0	19.84	55.11	0.00	2029	0	1651	1475	3126
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.85	1.00	0.0	21.27	60.55	0.00	2339	0	1773	1441	3214
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.85	1.00	0.0	27.18	75.97	0.00	2972	0	2169	1405	3573
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.85	1.00	0.0	30.41	84.98	0.00	3530	0	2358	1366	3724
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.85	1.00	0.0	31.58	89.65	0.00	4089	0	2411	1479	3890
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.85	1.00	0.0	36.40	102.31	0.00	4569	0	2656	1498	4154
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.85	1.00	0.0	39.24	111.09	0.00	5152	0	2767	1438	4205
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.85	1.00	0.0	47.89	133.93	0.00	6614	0	3178	1370	4548
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.85	1.00	0.0	29.04	84.94	0.00	5226	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.85	1.00	0.0	29.87	88.17	0.00	5333	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.85	1.00	0.0	34.19	100.12	0.00	6326	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.85	1.00	0.0	51.58	152.57	0.00	9467	0	2667	1514	4181
Totals															62,302	0		52,208

0.9D + 1.0W 240°

Gust Response Factor (Gh): 0.85

117 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 _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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	1.00	1.00	0.0	17.18	47.15	0.00	935	0	1513	362	1875
15	295	37.25	5.568	4.792	0.00	0.153	2.76	1.00	1.00	0.0	8.29	22.88	0.00	578	0	724	561	1285
14	280	36.74	10.768	11.667	0.00	0.164	2.72	1.00	1.00	0.0	17.10	46.55	0.00	1308	0	1453	1192	2646
13	260	36.02	13.087	13.356	0.00	0.167	2.71	1.00	1.00	0.0	20.06	54.35	0.00	1834	0	1664	1507	3170
12	240	35.26	14.589	15.027	0.00	0.148	2.78	1.00	1.00	0.0	22.03	61.19	0.00	2029	0	1834	1475	3308
11	220	34.45	16.318	15.026	0.00	0.130	2.85	1.00	1.00	0.0	23.72	67.51	0.00	2339	0	1977	1441	3418
10	200	33.58	22.189	18.577	0.00	0.144	2.80	1.00	1.00	0.0	30.51	85.28	0.00	2972	0	2434	1405	3839
9	180	32.65	24.957	22.124	0.00	0.144	2.79	1.00	1.00	0.0	34.15	95.44	0.00	3530	0	2649	1366	4015
8	160	31.64	26.493	22.119	0.00	0.132	2.84	1.00	1.00	0.0	35.56	100.93	0.00	4089	0	2715	1479	4193
7	140	30.54	28.807	28.811	0.00	0.139	2.81	1.00	1.00	0.0	40.72	114.46	0.00	4569	0	2971	1498	4469
6	120	29.31	32.254	28.794	0.00	0.134	2.83	1.00	1.00	0.0	44.08	124.79	0.00	5152	0	3109	1438	4546
5	100	27.92	42.271	28.806	0.00	0.143	2.80	1.00	1.00	0.0	54.23	151.66	0.00	6614	0	3599	1370	4968
4	80	26.30	0.000	59.668	0.00	0.110	2.93	1.00	1.00	0.0	29.04	84.94	0.00	5226	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	1.00	1.00	0.0	29.87	88.17	0.00	5333	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	1.00	1.00	0.0	34.19	100.12	0.00	6326	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	1.00	1.00	0.0	51.58	152.57	0.00	9467	0	2667	1514	4181
Totals															62,302	0		55,058

0.9D + 1.0W 300°

Gust Response Factor (Gh): 0.85

117 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 _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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.80	1.00	0.0	14.84	40.71	0.00	935	0	1306	362	1668
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.80	1.00	0.0	7.18	19.81	0.00	578	0	627	561	1188
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.80	1.00	0.0	14.95	40.69	0.00	1308	0	1270	1192	2463
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.80	1.00	0.0	17.44	47.26	0.00	1834	0	1447	1507	2953
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.80	1.00	0.0	19.11	53.08	0.00	2029	0	1591	1475	3065
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.80	1.00	0.0	20.46	58.22	0.00	2339	0	1705	1441	3146
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.80	1.00	0.0	26.07	72.87	0.00	2972	0	2080	1405	3485
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.80	1.00	0.0	29.16	81.49	0.00	3530	0	2262	1366	3628
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.80	1.00	0.0	30.26	85.89	0.00	4089	0	2310	1479	3789
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.80	1.00	0.0	34.96	98.26	0.00	4569	0	2550	1498	4049
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.80	1.00	0.0	37.63	106.53	0.00	5152	0	2654	1438	4092
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.80	1.00	0.0	45.78	128.02	0.00	6614	0	3038	1370	4407
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.80	1.00	0.0	29.04	84.94	0.00	5226	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.80	1.00	0.0	29.87	88.17	0.00	5333	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.80	1.00	0.0	34.19	100.12	0.00	6326	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.80	1.00	0.0	51.58	152.57	0.00	9467	0	2667	1514	4181
Totals															62,302	0		51,257

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

0.9D + 1.0W 330°

Gust Response Factor (Gh): 0.85

117 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)
16	310	37.75	11.736	9.583	0.00	0.158	2.74	0.85	1.00	0.0	15.42	42.32	0.00	935	0	1358	362	1720
15	295	37.25	5.568	4.792	0.00	0.153	2.76	0.85	1.00	0.0	7.45	20.57	0.00	578	0	651	561	1212
14	280	36.74	10.768	11.667	0.00	0.164	2.72	0.85	1.00	0.0	15.49	42.15	0.00	1308	0	1316	1192	2509
13	260	36.02	13.087	13.356	0.00	0.167	2.71	0.85	1.00	0.0	18.09	49.03	0.00	1834	0	1501	1507	3008
12	240	35.26	14.589	15.027	0.00	0.148	2.78	0.85	1.00	0.0	19.84	55.11	0.00	2029	0	1651	1475	3126
11	220	34.45	16.318	15.026	0.00	0.130	2.85	0.85	1.00	0.0	21.27	60.55	0.00	2339	0	1773	1441	3214
10	200	33.58	22.189	18.577	0.00	0.144	2.80	0.85	1.00	0.0	27.18	75.97	0.00	2972	0	2169	1405	3573
9	180	32.65	24.957	22.124	0.00	0.144	2.79	0.85	1.00	0.0	30.41	84.98	0.00	3530	0	2358	1366	3724
8	160	31.64	26.493	22.119	0.00	0.132	2.84	0.85	1.00	0.0	31.58	89.65	0.00	4089	0	2411	1479	3890
7	140	30.54	28.807	28.811	0.00	0.139	2.81	0.85	1.00	0.0	36.40	102.31	0.00	4569	0	2656	1498	4154
6	120	29.31	32.254	28.794	0.00	0.134	2.83	0.85	1.00	0.0	39.24	111.09	0.00	5152	0	2767	1438	4205
5	100	27.92	42.271	28.806	0.00	0.143	2.80	0.85	1.00	0.0	47.89	133.93	0.00	6614	0	3178	1370	4548
4	80	26.30	0.000	59.668	0.00	0.110	2.93	0.85	1.00	0.0	29.04	84.94	0.00	5226	0	1899	1291	3190
3	60	24.36	0.000	61.257	0.00	0.103	2.95	0.85	1.00	0.0	29.87	88.17	0.00	5333	0	1826	1195	3021
2	40	21.86	0.000	70.692	0.00	0.109	2.93	0.85	1.00	0.0	34.19	100.12	0.00	6326	0	1861	1073	2933
1	15	20.57	0.000	108.592	0.00	0.102	2.96	0.85	1.00	0.0	51.58	152.57	0.00	9467	0	2667	1514	4181
Totals														62,302	0			52,208

1.2D + 1.0Di + 1.0Wi Normal

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" 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)
16	310	3.77	11.736	25.755	16.17	0.272	2.37	1.00	1.00	0.8	26.95	63.98	16.17	2355	1108	205	86	291
15	295	3.73	5.568	12.560	7.77	0.263	2.40	1.00	1.00	0.8	12.96	31.09	7.77	1595	825	98	140	238
14	280	3.67	10.768	26.854	15.19	0.270	2.38	1.00	1.00	0.8	26.61	63.34	15.19	3444	1699	198	289	487
13	260	3.60	13.087	28.760	15.40	0.260	2.41	1.00	1.00	0.8	29.98	72.19	15.40	4468	2022	221	360	581
12	240	3.53	14.589	29.151	14.12	0.216	2.54	1.00	1.00	0.8	31.42	79.91	14.12	4783	2079	239	368	608
11	220	3.44	16.318	30.352	15.33	0.192	2.62	1.00	1.00	0.8	33.71	88.46	15.33	5282	2163	259	367	626
10	200	3.36	22.189	35.136	16.56	0.200	2.60	1.00	1.00	0.8	42.37	109.99	16.56	6432	2469	314	353	667
9	180	3.27	24.957	36.427	14.30	0.186	2.64	1.00	1.00	0.7	45.80	121.07	14.30	7267	2561	336	347	683
8	160	3.16	26.493	37.109	14.99	0.172	2.69	1.00	1.00	0.7	47.65	128.34	14.99	8183	2731	345	373	718
7	140	3.05	28.807	44.508	15.70	0.176	2.68	1.00	1.00	0.7	54.21	145.13	15.70	9039	2947	377	370	747
6	120	2.93	32.254	45.147	16.35	0.169	2.70	1.00	1.00	0.7	57.98	156.67	16.35	9874	3004	390	355	745
5	100	2.79	42.271	45.746	16.94	0.177	2.68	1.00	1.00	0.7	68.38	182.99	16.94	12210	3391	434	333	767
4	80	2.63	0.000	70.909	13.73	0.130	2.85	1.00	1.00	0.7	41.88	119.22	13.73	9538	2570	267	324	591
3	60	2.44	0.000	72.526	13.81	0.122	2.88	1.00	1.00	0.7	42.82	123.26	13.81	9648	2538	255	299	554
2	40	2.19	0.000	82.389	13.47	0.126	2.86	1.00	1.00	0.6	48.00	137.30	13.47	11053	2618	255	262	517
1	15	2.06	0.000	121.073	16.65	0.113	2.91	1.00	1.00	0.6	71.15	207.23	16.65	16130	3507	362	358	720
Totals														121,302	38,233			9,539

1.2D + 1.0Di + 1.0Wi 60°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" 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)
16	310	3.77	11.736	25.755	16.17	0.272	2.37	0.80	1.00	0.8	24.60	58.41	16.17	2355	1108	187	86	273
15	295	3.73	5.568	12.560	7.77	0.263	2.40	0.80	1.00	0.8	11.84	28.42	7.77	1595	825	90	140	230
14	280	3.67	10.768	26.854	15.19	0.270	2.38	0.80	1.00	0.8	24.46	58.21	15.19	3444	1699	182	289	471
13	260	3.60	13.087	28.760	15.40	0.260	2.41	0.80	1.00	0.8	27.37	65.88	15.40	4468	2022	202	360	562
12	240	3.53	14.589	29.151	14.12	0.216	2.54	0.80	1.00	0.8	28.51	72.49	14.12	4783	2079	217	368	585
11	220	3.44	16.318	30.352	15.33	0.192	2.62	0.80	1.00	0.8	30.45	79.89	15.33	5282	2163	234	367	601
10	200	3.36	22.189	35.136	16.56	0.200	2.60	0.80	1.00	0.8	37.94	98.47	16.56	6432	2469	281	353	634
9	180	3.27	24.957	36.427	14.30	0.186	2.64	0.80	1.00	0.7	40.81	107.87	14.30	7267	2561	299	347	646
8	160	3.16	26.493	37.109	14.99	0.172	2.69	0.80	1.00	0.7	42.35	114.07	14.99	8183	2731	307	373	679
7	140	3.05	28.807	44.508	15.70	0.176	2.68	0.80	1.00	0.7	48.45	129.70	15.70	9039	2947	337	370	707
6	120	2.93	32.254	45.147	16.35	0.169	2.70	0.80	1.00	0.7	51.53	139.24	16.35	9874	3004	347	355	702
5	100	2.79	42.271	45.746	16.94	0.177	2.68	0.80	1.00	0.7	59.93	160.37	16.94	12210	3391	381	333	713
4	80	2.63	0.000	70.909	13.73	0.130	2.85	0.80	1.00	0.7	41.88	119.22	13.73	9538	2570	267	324	591
3	60	2.44	0.000	72.526	13.81	0.122	2.88	0.80	1.00	0.7	42.82	123.26	13.81	9648	2538	255	299	554
2	40	2.19	0.000	82.389	13.47	0.126	2.86	0.80	1.00	0.6	48.00	137.30	13.47	11053	2618	255	262	517
1	15	2.06	0.000	121.073	16.65	0.113	2.91	0.80	1.00	0.6	71.15	207.23	16.65	16130	3507	362	358	720
Totals														121,302	38,233			9,185

1.2D + 1.0Di + 1.0Wi 90°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" 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)
16	310	3.77	11.736	25.755	16.17	0.272	2.37	0.85	1.00	0.8	25.19	59.80	16.17	2355	1108	192	86	277
15	295	3.73	5.568	12.560	7.77	0.263	2.40	0.85	1.00	0.8	12.12	29.09	7.77	1595	825	92	140	232
14	280	3.67	10.768	26.854	15.19	0.270	2.38	0.85	1.00	0.8	25.00	59.49	15.19	3444	1699	186	289	475
13	260	3.60	13.087	28.760	15.40	0.260	2.41	0.85	1.00	0.8	28.02	67.46	15.40	4468	2022	207	360	567
12	240	3.53	14.589	29.151	14.12	0.216	2.54	0.85	1.00	0.8	29.24	74.34	14.12	4783	2079	223	368	591
11	220	3.44	16.318	30.352	15.33	0.192	2.62	0.85	1.00	0.8	31.26	82.04	15.33	5282	2163	240	367	608
10	200	3.36	22.189	35.136	16.56	0.200	2.60	0.85	1.00	0.8	39.05	101.35	16.56	6432	2469	289	353	643

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 90°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" 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)
9	180	3.27	24.957	36.427	14.30	0.186	2.64	0.85	1.00	0.7	42.06	111.17	14.30	7267	2561	309	347	655
8	160	3.16	26.493	37.109	14.99	0.172	2.69	0.85	1.00	0.7	43.68	117.63	14.99	8183	2731	316	373	689
7	140	3.05	28.807	44.508	15.70	0.176	2.68	0.85	1.00	0.7	49.89	133.56	15.70	9039	2947	347	370	717
6	120	2.93	32.254	45.147	16.35	0.169	2.70	0.85	1.00	0.7	53.14	143.60	16.35	9874	3004	358	355	713
5	100	2.79	42.271	45.746	16.94	0.177	2.68	0.85	1.00	0.7	62.04	166.02	16.94	12210	3391	394	333	727
4	80	2.63	0.000	70.909	13.73	0.130	2.85	0.85	1.00	0.7	41.88	119.22	13.73	9538	2570	267	324	591
3	60	2.44	0.000	72.526	13.81	0.122	2.88	0.85	1.00	0.7	42.82	123.26	13.81	9648	2538	255	299	554
2	40	2.19	0.000	82.389	13.47	0.126	2.86	0.85	1.00	0.6	48.00	137.30	13.47	11053	2618	255	262	517
1	15	2.06	0.000	121.073	16.65	0.113	2.91	0.85	1.00	0.6	71.15	207.23	16.65	16130	3507	362	358	720
Totals															121,302	38,233		9,274

1.2D + 1.0Di + 1.0Wi 120°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" 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)
16	310	3.77	11.736	25.755	16.17	0.272	2.37	1.00	1.00	0.8	26.95	63.98	16.17	2355	1108	205	86	291
15	295	3.73	5.568	12.560	7.77	0.263	2.40	1.00	1.00	0.8	12.96	31.09	7.77	1595	825	98	140	238
14	280	3.67	10.768	26.854	15.19	0.270	2.38	1.00	1.00	0.8	26.61	63.34	15.19	3444	1699	198	289	487
13	260	3.60	13.087	28.760	15.40	0.260	2.41	1.00	1.00	0.8	29.98	72.19	15.40	4468	2022	221	360	581
12	240	3.53	14.589	29.151	14.12	0.216	2.54	1.00	1.00	0.8	31.42	79.91	14.12	4783	2079	239	368	608
11	220	3.44	16.318	30.352	15.33	0.192	2.62	1.00	1.00	0.8	33.71	88.46	15.33	5282	2163	259	367	626
10	200	3.36	22.189	35.136	16.56	0.200	2.60	1.00	1.00	0.8	42.37	109.99	16.56	6432	2469	314	353	667
9	180	3.27	24.957	36.427	14.30	0.186	2.64	1.00	1.00	0.7	45.80	121.07	14.30	7267	2561	336	347	683
8	160	3.16	26.493	37.109	14.99	0.172	2.69	1.00	1.00	0.7	47.65	128.34	14.99	8183	2731	345	373	718
7	140	3.05	28.807	44.508	15.70	0.176	2.68	1.00	1.00	0.7	54.21	145.13	15.70	9039	2947	377	370	747
6	120	2.93	32.254	45.147	16.35	0.169	2.70	1.00	1.00	0.7	57.98	156.67	16.35	9874	3004	390	355	745
5	100	2.79	42.271	45.746	16.94	0.177	2.68	1.00	1.00	0.7	68.38	182.99	16.94	12210	3391	434	333	767
4	80	2.63	0.000	70.909	13.73	0.130	2.85	1.00	1.00	0.7	41.88	119.22	13.73	9538	2570	267	324	591
3	60	2.44	0.000	72.526	13.81	0.122	2.88	1.00	1.00	0.7	42.82	123.26	13.81	9648	2538	255	299	554
2	40	2.19	0.000	82.389	13.47	0.126	2.86	1.00	1.00	0.6	48.00	137.30	13.47	11053	2618	255	262	517
1	15	2.06	0.000	121.073	16.65	0.113	2.91	1.00	1.00	0.6	71.15	207.23	16.65	16130	3507	362	358	720
Totals															121,302	38,233		9,539

1.2D + 1.0Di + 1.0Wi 180°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" 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)
16	310	3.77	11.736	25.755	16.17	0.272	2.37	0.80	1.00	0.8	24.60	58.41	16.17	2355	1108	187	86	273
15	295	3.73	5.568	12.560	7.77	0.263	2.40	0.80	1.00	0.8	11.84	28.42	7.77	1595	825	90	140	230
14	280	3.67	10.768	26.854	15.19	0.270	2.38	0.80	1.00	0.8	24.46	58.21	15.19	3444	1699	182	289	471
13	260	3.60	13.087	28.760	15.40	0.260	2.41	0.80	1.00	0.8	27.37	65.88	15.40	4468	2022	202	360	562
12	240	3.53	14.589	29.151	14.12	0.216	2.54	0.80	1.00	0.8	28.51	72.49	14.12	4783	2079	217	368	585
11	220	3.44	16.318	30.352	15.33	0.192	2.62	0.80	1.00	0.8	30.45	79.89	15.33	5282	2163	234	367	601
10	200	3.36	22.189	35.136	16.56	0.200	2.60	0.80	1.00	0.8	37.94	98.47	16.56	6432	2469	281	353	634
9	180	3.27	24.957	36.427	14.30	0.186	2.64	0.80	1.00	0.7	40.81	107.87	14.30	7267	2561	299	347	646
8	160	3.16	26.493	37.109	14.99	0.172	2.69	0.80	1.00	0.7	42.35	114.07	14.99	8183	2731	307	373	679
7	140	3.05	28.807	44.508	15.70	0.176	2.68	0.80	1.00	0.7	48.45	129.70	15.70	9039	2947	337	370	707
6	120	2.93	32.254	45.147	16.35	0.169	2.70	0.80	1.00	0.7	51.53	139.24	16.35	9874	3004	347	355	702
5	100	2.79	42.271	45.746	16.94	0.177	2.68	0.80	1.00	0.7	59.93	160.37	16.94	12210	3391	381	333	713
4	80	2.63	0.000	70.909	13.73	0.130	2.85	0.80	1.00	0.7	41.88	119.22	13.73	9538	2570	267	324	591
3	60	2.44	0.000	72.526	13.81	0.122	2.88	0.80	1.00	0.7	42.82	123.26	13.81	9648	2538	255	299	554
2	40	2.19	0.000	82.389	13.47	0.126	2.86	0.80	1.00	0.6	48.00	137.30	13.47	11053	2618	255	262	517
1	15	2.06	0.000	121.073	16.65	0.113	2.91	0.80	1.00	0.6	71.15	207.23	16.65	16130	3507	362	358	720
Totals															121,302	38,233		9,185

1.2D + 1.0Di + 1.0Wi 210°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" 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)
16	310	3.77	11.736	25.755	16.17	0.272	2.37	0.85	1.00	0.8	25.19	59.80	16.17	2355	1108	192	86	277
15	295	3.73	5.568	12.560	7.77	0.263	2.40	0.85	1.00	0.8	12.12	29.09	7.77	1595	825	92	140	232
14	280	3.67	10.768	26.854	15.19	0.270	2.38	0.85	1.00	0.8	25.00	59.49	15.19	3444	1699	186	289	475
13	260	3.60	13.087	28.760	15.40	0.260	2.41	0.85	1.00	0.8	28.02	67.46	15.40	4468	2022	207	360	567
12	240	3.53	14.589	29.151	14.12	0.216	2.54	0.85	1.00	0.8	29.24	74.34	14.12	4783	2079	223	368	591
11	220	3.44	16.318	30.352	15.33	0.192	2.62	0.85	1.00	0.8	31.26	82.04	15.33	5282	2163	240	367	608
10	200	3.36	22.189	35.136	16.56	0.200	2.60	0.85	1.00	0.8	39.05	101.35	16.56	6432	2469	289	353	643
9	180	3.27	24.957	36.427	14.30	0.186	2.64	0.85	1.00	0.7	42.06	111.17	14.30	7267	2561	309	347	655
8	160	3.16	26.493	37.109	14.99	0.172	2.69	0.85	1.00	0.7	43.68	117.63	14.99	8183	2731	316	373	689
7	140	3.05	28.807	44.508	15.70	0.176	2.68	0.85	1.00	0.7	49.89	133.56	15.70	9039	2947	347	370	717
6	120	2.93	32.254	45.147	16.35	0.169	2.70	0.85	1.00	0.7	53.14	143.60	16.35	9874	3004	358	355	713
5	100	2.79	42.271	45.746	16.94	0.177	2.68	0.85	1.00	0.7	62.04	166.02	16.94	12210	3391	394	333	727
4	80	2.63	0.000	70.909	13.73	0.130	2.85	0.85	1.00	0.7	41.88	119.22	13.73	9538	2570	267	324	591
3	60	2.44	0.000	72.526	13.81	0.122	2.88	0.85	1.00	0.7	42.82	123.26	13.81	9648	2538	255	299	554
2	40	2.19	0.000	82.389	13.47	0.126	2.86	0.85	1.00	0.6	48.00	137.30	13.47	11053	2618	255	262	517

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 210°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
1	15	2.06	0.000	121.073	16.65	0.113	2.91	0.85	1.00	0.6	71.15	207.23	16.65	16130	3507	362	358	720
Totals														121,302	38,233			9,274

1.2D + 1.0Di + 1.0Wi 240°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
16	310	3.77	11.736	25.755	16.17	0.272	2.37	1.00	1.00	0.8	26.95	63.98	16.17	2355	1108	205	86	291
15	295	3.73	5.568	12.560	7.77	0.263	2.40	1.00	1.00	0.8	12.96	31.09	7.77	1595	825	98	140	238
14	280	3.67	10.768	26.854	15.19	0.270	2.38	1.00	1.00	0.8	26.61	63.34	15.19	3444	1699	198	289	487
13	260	3.60	13.087	28.760	15.40	0.260	2.41	1.00	1.00	0.8	29.98	72.19	15.40	4468	2022	221	360	581
12	240	3.53	14.589	29.151	14.12	0.216	2.54	1.00	1.00	0.8	31.42	79.91	14.12	4783	2079	239	368	608
11	220	3.44	16.318	30.352	15.33	0.192	2.62	1.00	1.00	0.8	33.71	88.46	15.33	5282	2163	259	367	626
10	200	3.36	22.189	35.136	16.56	0.200	2.60	1.00	1.00	0.8	42.37	109.99	16.56	6432	2469	314	353	667
9	180	3.27	24.957	36.427	14.30	0.186	2.64	1.00	1.00	0.7	45.80	121.07	14.30	7267	2561	336	347	683
8	160	3.16	26.493	37.109	14.99	0.172	2.69	1.00	1.00	0.7	47.65	128.34	14.99	8183	2731	345	373	718
7	140	3.05	28.807	44.508	15.70	0.176	2.68	1.00	1.00	0.7	54.21	145.13	15.70	9039	2947	377	370	747
6	120	2.93	32.254	45.147	16.35	0.169	2.70	1.00	1.00	0.7	57.98	156.67	16.35	9874	3004	390	355	745
5	100	2.79	42.271	45.746	16.94	0.177	2.68	1.00	1.00	0.7	68.38	182.99	16.94	12210	3391	434	333	767
4	80	2.63	0.000	70.909	13.73	0.130	2.85	1.00	1.00	0.7	41.88	119.22	13.73	9538	2570	267	324	591
3	60	2.44	0.000	72.526	13.81	0.122	2.88	1.00	1.00	0.7	42.82	123.26	13.81	9648	2538	255	299	554
2	40	2.19	0.000	82.389	13.47	0.126	2.86	1.00	1.00	0.6	48.00	137.30	13.47	11053	2618	255	262	517
1	15	2.06	0.000	121.073	16.65	0.113	2.91	1.00	1.00	0.6	71.15	207.23	16.65	16130	3507	362	358	720
Totals														121,302	38,233			9,539

1.2D + 1.0Di + 1.0Wi 300°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
16	310	3.77	11.736	25.755	16.17	0.272	2.37	0.80	1.00	0.8	24.60	58.41	16.17	2355	1108	187	86	273
15	295	3.73	5.568	12.560	7.77	0.263	2.40	0.80	1.00	0.8	11.84	28.42	7.77	1595	825	90	140	230
14	280	3.67	10.768	26.854	15.19	0.270	2.38	0.80	1.00	0.8	24.46	58.21	15.19	3444	1699	182	289	471
13	260	3.60	13.087	28.760	15.40	0.260	2.41	0.80	1.00	0.8	27.37	65.88	15.40	4468	2022	202	360	562
12	240	3.53	14.589	29.151	14.12	0.216	2.54	0.80	1.00	0.8	28.51	72.49	14.12	4783	2079	217	368	585
11	220	3.44	16.318	30.352	15.33	0.192	2.62	0.80	1.00	0.8	30.45	79.89	15.33	5282	2163	234	367	601
10	200	3.36	22.189	35.136	16.56	0.200	2.60	0.80	1.00	0.8	37.94	98.47	16.56	6432	2469	281	353	634
9	180	3.27	24.957	36.427	14.30	0.186	2.64	0.80	1.00	0.7	40.81	107.87	14.30	7267	2561	299	347	646
8	160	3.16	26.493	37.109	14.99	0.172	2.69	0.80	1.00	0.7	42.35	114.07	14.99	8183	2731	307	373	679
7	140	3.05	28.807	44.508	15.70	0.176	2.68	0.80	1.00	0.7	48.45	129.70	15.70	9039	2947	337	370	707
6	120	2.93	32.254	45.147	16.35	0.169	2.70	0.80	1.00	0.7	51.53	139.24	16.35	9874	3004	347	355	702
5	100	2.79	42.271	45.746	16.94	0.177	2.68	0.80	1.00	0.7	59.93	160.37	16.94	12210	3391	381	333	713
4	80	2.63	0.000	70.909	13.73	0.130	2.85	0.80	1.00	0.7	41.88	119.22	13.73	9538	2570	267	324	591
3	60	2.44	0.000	72.526	13.81	0.122	2.88	0.80	1.00	0.7	42.82	123.26	13.81	9648	2538	255	299	554
2	40	2.19	0.000	82.389	13.47	0.126	2.86	0.80	1.00	0.6	48.00	137.30	13.47	11053	2618	255	262	517
1	15	2.06	0.000	121.073	16.65	0.113	2.91	0.80	1.00	0.6	71.15	207.23	16.65	16130	3507	362	358	720
Totals														121,302	38,233			9,185

1.2D + 1.0Di + 1.0Wi 330°

Gust Response Factor (Gh): 0.85

37 mph Wind with 0.63" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
16	310	3.77	11.736	25.755	16.17	0.272	2.37	0.85	1.00	0.8	25.19	59.80	16.17	2355	1108	192	86	277
15	295	3.73	5.568	12.560	7.77	0.263	2.40	0.85	1.00	0.8	12.12	29.09	7.77	1595	825	92	140	232
14	280	3.67	10.768	26.854	15.19	0.270	2.38	0.85	1.00	0.8	25.00	59.49	15.19	3444	1699	186	289	475
13	260	3.60	13.087	28.760	15.40	0.260	2.41	0.85	1.00	0.8	28.02	67.46	15.40	4468	2022	207	360	567
12	240	3.53	14.589	29.151	14.12	0.216	2.54	0.85	1.00	0.8	29.24	74.34	14.12	4783	2079	223	368	591
11	220	3.44	16.318	30.352	15.33	0.192	2.62	0.85	1.00	0.8	31.26	82.04	15.33	5282	2163	240	367	608
10	200	3.36	22.189	35.136	16.56	0.200	2.60	0.85	1.00	0.8	39.05	101.35	16.56	6432	2469	289	353	643
9	180	3.27	24.957	36.427	14.30	0.186	2.64	0.85	1.00	0.7	42.06	111.17	14.30	7267	2561	309	347	655
8	160	3.16	26.493	37.109	14.99	0.172	2.69	0.85	1.00	0.7	43.68	117.63	14.99	8183	2731	316	373	689
7	140	3.05	28.807	44.508	15.70	0.176	2.68	0.85	1.00	0.7	49.89	133.56	15.70	9039	2947	347	370	717
6	120	2.93	32.254	45.147	16.35	0.169	2.70	0.85	1.00	0.7	53.14	143.60	16.35	9874	3004	358	355	713
5	100	2.79	42.271	45.746	16.94	0.177	2.68	0.85	1.00	0.7	62.04	166.02	16.94	12210	3391	394	333	727
4	80	2.63	0.000	70.909	13.73	0.130	2.85	0.85	1.00	0.7	41.88	119.22	13.73	9538	2570	267	324	591
3	60	2.44	0.000	72.526	13.81	0.122	2.88	0.85	1.00	0.7	42.82	123.26	13.81	9648	2538	255	299	554
2	40	2.19	0.000	82.389	13.47	0.126	2.86	0.85	1.00	0.6	48.00	137.30	13.47	11053	2618	255	262	517
1	15	2.06	0.000	121.073	16.65	0.113	2.91	0.85	1.00	0.6	71.15	207.23	16.65	16130	3507	362	358	720
Totals														121,302	38,233			9,274

1.0D + 1.0W Service Normal

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
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ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

1.0D + 1.0W Service Normal

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
16	310	9.93	11.736	9.583	0.00	0.158	2.74	1.00	1.00	0.0	17.18	47.15	0.00	1039	0	398	95	493
15	295	9.80	5.568	4.792	0.00	0.153	2.76	1.00	1.00	0.0	8.29	22.88	0.00	642	0	191	147	338
14	280	9.66	10.768	11.667	0.00	0.164	2.72	1.00	1.00	0.0	17.41	47.37	0.00	1454	0	389	314	703
13	260	9.47	13.087	13.356	0.00	0.167	2.71	1.00	1.00	0.0	20.69	56.07	0.00	2038	0	451	396	848
12	240	9.27	14.589	15.027	0.00	0.148	2.78	1.00	1.00	0.0	23.11	64.21	0.00	2254	0	506	388	894
11	220	9.06	16.318	15.026	0.00	0.130	2.85	1.00	1.00	0.0	24.82	70.64	0.00	2599	0	544	379	923
10	200	8.83	22.189	18.577	0.00	0.144	2.80	1.00	1.00	0.0	32.72	91.47	0.00	3303	0	687	369	1056
9	180	8.59	24.957	22.124	0.00	0.144	2.79	1.00	1.00	0.0	37.25	104.10	0.00	3922	0	760	359	1119
8	160	8.32	26.493	22.119	0.00	0.132	2.84	1.00	1.00	0.0	38.82	110.19	0.00	4543	0	779	389	1168
7	140	8.03	28.807	28.811	0.00	0.139	2.81	1.00	1.00	0.0	43.60	122.57	0.00	5076	0	837	394	1231
6	120	7.71	32.254	28.794	0.00	0.134	2.83	1.00	1.00	0.0	47.15	133.48	0.00	5725	0	874	378	1253
5	100	7.34	42.271	28.806	0.00	0.143	2.80	1.00	1.00	0.0	57.40	160.51	0.00	7349	0	1002	360	1362
4	80	6.92	0.000	59.668	0.00	0.110	2.93	1.00	1.00	0.0	32.91	96.25	0.00	5806	0	566	339	905
3	60	6.41	0.000	61.257	0.00	0.103	2.95	1.00	1.00	0.0	34.13	100.74	0.00	5925	0	549	314	863
2	40	5.75	0.000	70.692	0.00	0.109	2.93	1.00	1.00	0.0	37.83	110.80	0.00	7029	0	542	282	824
1	15	5.41	0.000	108.592	0.00	0.102	2.96	1.00	1.00	0.0	54.59	161.48	0.00	10519	0	742	398	1140
Totals														69,224	0			15,119

1.0D + 1.0W Service 60°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
16	310	9.93	11.736	9.583	0.00	0.158	2.74	0.80	1.00	0.0	14.84	40.71	0.00	1039	0	344	95	439
15	295	9.80	5.568	4.792	0.00	0.153	2.76	0.80	1.00	0.0	7.18	19.81	0.00	642	0	165	147	312
14	280	9.66	10.768	11.667	0.00	0.164	2.72	0.80	1.00	0.0	15.25	41.51	0.00	1454	0	341	314	654
13	260	9.47	13.087	13.356	0.00	0.167	2.71	0.80	1.00	0.0	18.08	48.98	0.00	2038	0	394	396	791
12	240	9.27	14.589	15.027	0.00	0.148	2.78	0.80	1.00	0.0	20.20	56.11	0.00	2254	0	442	388	830
11	220	9.06	16.318	15.026	0.00	0.130	2.85	0.80	1.00	0.0	21.56	61.35	0.00	2599	0	472	379	851
10	200	8.83	22.189	18.577	0.00	0.144	2.80	0.80	1.00	0.0	28.28	79.06	0.00	3303	0	594	369	963
9	180	8.59	24.957	22.124	0.00	0.144	2.79	0.80	1.00	0.0	32.26	90.15	0.00	3922	0	658	359	1017
8	160	8.32	26.493	22.119	0.00	0.132	2.84	0.80	1.00	0.0	33.52	95.15	0.00	4543	0	673	389	1062
7	140	8.03	28.807	28.811	0.00	0.139	2.81	0.80	1.00	0.0	37.84	106.38	0.00	5076	0	726	394	1120
6	120	7.71	32.254	28.794	0.00	0.134	2.83	0.80	1.00	0.0	40.70	115.22	0.00	5725	0	755	378	1133
5	100	7.34	42.271	28.806	0.00	0.143	2.80	0.80	1.00	0.0	48.95	136.87	0.00	7349	0	854	360	1214
4	80	6.92	0.000	59.668	0.00	0.110	2.93	0.80	1.00	0.0	32.91	96.25	0.00	5806	0	566	339	905
3	60	6.41	0.000	61.257	0.00	0.103	2.95	0.80	1.00	0.0	34.13	100.74	0.00	5925	0	549	314	863
2	40	5.75	0.000	70.692	0.00	0.109	2.93	0.80	1.00	0.0	37.83	110.80	0.00	7029	0	542	282	824
1	15	5.41	0.000	108.592	0.00	0.102	2.96	0.80	1.00	0.0	54.59	161.48	0.00	10519	0	742	398	1140
Totals														69,224	0			14,119

1.0D + 1.0W Service 90°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
16	310	9.93	11.736	9.583	0.00	0.158	2.74	0.85	1.00	0.0	15.42	42.32	0.00	1039	0	357	95	452
15	295	9.80	5.568	4.792	0.00	0.153	2.76	0.85	1.00	0.0	7.45	20.57	0.00	642	0	171	147	319
14	280	9.66	10.768	11.667	0.00	0.164	2.72	0.85	1.00	0.0	15.79	42.97	0.00	1454	0	353	314	666
13	260	9.47	13.087	13.356	0.00	0.167	2.71	0.85	1.00	0.0	18.73	50.75	0.00	2038	0	409	396	805
12	240	9.27	14.589	15.027	0.00	0.148	2.78	0.85	1.00	0.0	20.93	58.13	0.00	2254	0	458	388	846
11	220	9.06	16.318	15.026	0.00	0.130	2.85	0.85	1.00	0.0	22.37	63.67	0.00	2599	0	490	379	869
10	200	8.83	22.189	18.577	0.00	0.144	2.80	0.85	1.00	0.0	29.39	82.16	0.00	3303	0	617	369	986
9	180	8.59	24.957	22.124	0.00	0.144	2.79	0.85	1.00	0.0	33.51	93.64	0.00	3922	0	683	359	1043
8	160	8.32	26.493	22.119	0.00	0.132	2.84	0.85	1.00	0.0	34.85	98.91	0.00	4543	0	700	389	1089
7	140	8.03	28.807	28.811	0.00	0.139	2.81	0.85	1.00	0.0	39.28	110.42	0.00	5076	0	754	394	1148
6	120	7.71	32.254	28.794	0.00	0.134	2.83	0.85	1.00	0.0	42.31	119.78	0.00	5725	0	785	378	1163
5	100	7.34	42.271	28.806	0.00	0.143	2.80	0.85	1.00	0.0	51.06	142.78	0.00	7349	0	891	360	1251
4	80	6.92	0.000	59.668	0.00	0.110	2.93	0.85	1.00	0.0	32.91	96.25	0.00	5806	0	566	339	905
3	60	6.41	0.000	61.257	0.00	0.103	2.95	0.85	1.00	0.0	34.13	100.74	0.00	5925	0	549	314	863
2	40	5.75	0.000	70.692	0.00	0.109	2.93	0.85	1.00	0.0	37.83	110.80	0.00	7029	0	542	282	824
1	15	5.41	0.000	108.592	0.00	0.102	2.96	0.85	1.00	0.0	54.59	161.48	0.00	10519	0	742	398	1140
Totals														69,224	0			14,369

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 _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)
16	310	9.93	11.736	9.583	0.00	0.158	2.74	1.00	1.00	0.0	17.18	47.15	0.00	1039	0	398	95	493
15	295	9.80	5.568	4.792	0.00	0.153	2.76	1.00	1.00	0.0	8.29	22.88	0.00	642	0	191	147	338
14	280	9.66	10.768	11.667	0.00	0.164	2.72	1.00	1.00	0.0	17.41	47.37	0.00	1454	0	389	314	703
13	260	9.47	13.087	13.356	0.00	0.167	2.71	1.00	1.00	0.0	20.69	56.07	0.00	2038	0	451	396	848
12	240	9.27	14.589	15.027	0.00	0.148	2.78	1.00	1.00	0.0	23.11	64.21	0.00	2254	0	506	388	894
11	220	9.06	16.318	15.026	0.00	0.130	2.85	1.00	1.00	0.0	24.82	70.64	0.00	2599	0	544	379	923
10	200	8.83	22.189	18.577	0.00	0.144	2.80	1.00	1.00	0.0	32.72	91.47	0.00	3303	0	687	369	1056
9	180	8.59	24.957	22.124	0.00	0.144	2.79	1.00	1.00	0.0	37.25	104.10	0.00	3922	0	760	359	1119

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

SECTION FORCES

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)
8	160	8.32	26.493	22.119	0.00	0.132	2.84	1.00	1.00	0.0	38.82	110.19	0.00	4543	0	779	389	1168
7	140	8.03	28.807	28.811	0.00	0.139	2.81	1.00	1.00	0.0	43.60	122.57	0.00	5076	0	837	394	1231
6	120	7.71	32.254	28.794	0.00	0.134	2.83	1.00	1.00	0.0	47.15	133.48	0.00	5725	0	874	378	1253
5	100	7.34	42.271	28.806	0.00	0.143	2.80	1.00	1.00	0.0	57.40	160.51	0.00	7349	0	1002	360	1362
4	80	6.92	0.000	59.668	0.00	0.110	2.93	1.00	1.00	0.0	32.91	96.25	0.00	5806	0	566	339	905
3	60	6.41	0.000	61.257	0.00	0.103	2.95	1.00	1.00	0.0	34.13	100.74	0.00	5925	0	549	314	863
2	40	5.75	0.000	70.692	0.00	0.109	2.93	1.00	1.00	0.0	37.83	110.80	0.00	7029	0	542	282	824
1	15	5.41	0.000	108.592	0.00	0.102	2.96	1.00	1.00	0.0	54.59	161.48	0.00	10519	0	742	398	1140
Totals														69,224	0			15,119

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)
16	310	9.93	11.736	9.583	0.00	0.158	2.74	0.80	1.00	0.0	14.84	40.71	0.00	1039	0	344	95	439
15	295	9.80	5.568	4.792	0.00	0.153	2.76	0.80	1.00	0.0	7.18	19.81	0.00	642	0	165	147	312
14	280	9.66	10.768	11.667	0.00	0.164	2.72	0.80	1.00	0.0	15.25	41.51	0.00	1454	0	341	314	654
13	260	9.47	13.087	13.356	0.00	0.167	2.71	0.80	1.00	0.0	18.08	48.98	0.00	2038	0	394	396	791
12	240	9.27	14.589	15.027	0.00	0.148	2.78	0.80	1.00	0.0	20.20	56.11	0.00	2254	0	442	388	830
11	220	9.06	16.318	15.026	0.00	0.130	2.85	0.80	1.00	0.0	21.56	61.35	0.00	2599	0	472	379	851
10	200	8.83	22.189	18.577	0.00	0.144	2.80	0.80	1.00	0.0	28.28	79.06	0.00	3303	0	594	369	963
9	180	8.59	24.957	22.124	0.00	0.144	2.79	0.80	1.00	0.0	32.26	90.15	0.00	3922	0	658	359	1017
8	160	8.32	26.493	22.119	0.00	0.132	2.84	0.80	1.00	0.0	33.52	95.15	0.00	4543	0	673	389	1062
7	140	8.03	28.807	28.811	0.00	0.139	2.81	0.80	1.00	0.0	37.84	106.38	0.00	5076	0	726	394	1120
6	120	7.71	32.254	28.794	0.00	0.134	2.83	0.80	1.00	0.0	40.70	115.22	0.00	5725	0	755	378	1133
5	100	7.34	42.271	28.806	0.00	0.143	2.80	0.80	1.00	0.0	48.95	136.87	0.00	7349	0	854	360	1214
4	80	6.92	0.000	59.668	0.00	0.110	2.93	0.80	1.00	0.0	32.91	96.25	0.00	5806	0	566	339	905
3	60	6.41	0.000	61.257	0.00	0.103	2.95	0.80	1.00	0.0	34.13	100.74	0.00	5925	0	549	314	863
2	40	5.75	0.000	70.692	0.00	0.109	2.93	0.80	1.00	0.0	37.83	110.80	0.00	7029	0	542	282	824
1	15	5.41	0.000	108.592	0.00	0.102	2.96	0.80	1.00	0.0	54.59	161.48	0.00	10519	0	742	398	1140
Totals														69,224	0			14,119

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)
16	310	9.93	11.736	9.583	0.00	0.158	2.74	0.85	1.00	0.0	15.42	42.32	0.00	1039	0	357	95	452
15	295	9.80	5.568	4.792	0.00	0.153	2.76	0.85	1.00	0.0	7.45	20.57	0.00	642	0	171	147	319
14	280	9.66	10.768	11.667	0.00	0.164	2.72	0.85	1.00	0.0	15.79	42.97	0.00	1454	0	353	314	666
13	260	9.47	13.087	13.356	0.00	0.167	2.71	0.85	1.00	0.0	18.73	50.75	0.00	2038	0	409	396	805
12	240	9.27	14.589	15.027	0.00	0.148	2.78	0.85	1.00	0.0	20.93	58.13	0.00	2254	0	458	388	846
11	220	9.06	16.318	15.026	0.00	0.130	2.85	0.85	1.00	0.0	22.37	63.67	0.00	2599	0	490	379	869
10	200	8.83	22.189	18.577	0.00	0.144	2.80	0.85	1.00	0.0	29.39	82.16	0.00	3303	0	617	369	986
9	180	8.59	24.957	22.124	0.00	0.144	2.79	0.85	1.00	0.0	33.51	93.64	0.00	3922	0	683	359	1043
8	160	8.32	26.493	22.119	0.00	0.132	2.84	0.85	1.00	0.0	34.85	98.91	0.00	4543	0	700	389	1089
7	140	8.03	28.807	28.811	0.00	0.139	2.81	0.85	1.00	0.0	39.28	110.42	0.00	5076	0	754	394	1148
6	120	7.71	32.254	28.794	0.00	0.134	2.83	0.85	1.00	0.0	42.31	119.78	0.00	5725	0	785	378	1163
5	100	7.34	42.271	28.806	0.00	0.143	2.80	0.85	1.00	0.0	51.06	142.78	0.00	7349	0	891	360	1251
4	80	6.92	0.000	59.668	0.00	0.110	2.93	0.85	1.00	0.0	32.91	96.25	0.00	5806	0	566	339	905
3	60	6.41	0.000	61.257	0.00	0.103	2.95	0.85	1.00	0.0	34.13	100.74	0.00	5925	0	549	314	863
2	40	5.75	0.000	70.692	0.00	0.109	2.93	0.85	1.00	0.0	37.83	110.80	0.00	7029	0	542	282	824
1	15	5.41	0.000	108.592	0.00	0.102	2.96	0.85	1.00	0.0	54.59	161.48	0.00	10519	0	742	398	1140
Totals														69,224	0			14,369

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)
16	310	9.93	11.736	9.583	0.00	0.158	2.74	1.00	1.00	0.0	17.18	47.15	0.00	1039	0	398	95	493
15	295	9.80	5.568	4.792	0.00	0.153	2.76	1.00	1.00	0.0	8.29	22.88	0.00	642	0	191	147	338
14	280	9.66	10.768	11.667	0.00	0.164	2.72	1.00	1.00	0.0	17.41	47.37	0.00	1454	0	389	314	703
13	260	9.47	13.087	13.356	0.00	0.167	2.71	1.00	1.00	0.0	20.69	56.07	0.00	2038	0	451	396	848
12	240	9.27	14.589	15.027	0.00	0.148	2.78	1.00	1.00	0.0	23.11	64.21	0.00	2254	0	506	388	894
11	220	9.06	16.318	15.026	0.00	0.130	2.85	1.00	1.00	0.0	24.82	70.64	0.00	2599	0	544	379	923
10	200	8.83	22.189	18.577	0.00	0.144	2.80	1.00	1.00	0.0	32.72	91.47	0.00	3303	0	687	369	1056
9	180	8.59	24.957	22.124	0.00	0.144	2.79	1.00	1.00	0.0	37.25	104.10	0.00	3922	0	760	359	1119
8	160	8.32	26.493	22.119	0.00	0.132	2.84	1.00	1.00	0.0	38.82	110.19	0.00	4543	0	779	389	1168
7	140	8.03	28.807	28.811	0.00	0.139	2.81	1.00	1.00	0.0	43.60	122.57	0.00	5076	0	837	394	1231
6	120	7.71	32.254	28.794	0.00	0.134	2.83	1.00	1.00	0.0	47.15	133.48	0.00	5725	0	874	378	1253
5	100	7.34	42.271	28.806	0.00	0.143	2.80	1.00	1.00	0.0	57.40	160.51	0.00	7349	0	1002	360	1362
4	80	6.92	0.000	59.668	0.00	0.110	2.93	1.00	1.00	0.0	32.91	96.25	0.00	5806	0	566	339	905
3	60	6.41	0.000	61.257	0.00	0.103	2.95	1.00	1.00	0.0	34.13	100.74	0.00	5925	0	549	314	863
2	40	5.75	0.000	70.692	0.00	0.109	2.93	1.00	1.00	0.0	37.83	110.80	0.00	7029	0	542	282	824
1	15	5.41	0.000	108.592	0.00	0.102	2.96	1.00	1.00	0.0	54.59	161.48	0.00	10519	0	742	398	1140

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

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)
Totals														69,224	0			15,119

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)
16	310	9.93	11.736	9.583	0.00	0.158	2.74	0.80	1.00	0.0	14.84	40.71	0.00	1039	0	344	95	439
15	295	9.80	5.568	4.792	0.00	0.153	2.76	0.80	1.00	0.0	7.18	19.81	0.00	642	0	165	147	312
14	280	9.66	10.768	11.667	0.00	0.164	2.72	0.80	1.00	0.0	15.25	41.51	0.00	1454	0	341	314	654
13	260	9.47	13.087	13.356	0.00	0.167	2.71	0.80	1.00	0.0	18.08	48.98	0.00	2038	0	394	396	791
12	240	9.27	14.589	15.027	0.00	0.148	2.78	0.80	1.00	0.0	20.20	56.11	0.00	2254	0	442	388	830
11	220	9.06	16.318	15.026	0.00	0.130	2.85	0.80	1.00	0.0	21.56	61.35	0.00	2599	0	472	379	851
10	200	8.83	22.189	18.577	0.00	0.144	2.80	0.80	1.00	0.0	28.28	79.06	0.00	3303	0	594	369	963
9	180	8.59	24.957	22.124	0.00	0.144	2.79	0.80	1.00	0.0	32.26	90.15	0.00	3922	0	658	359	1017
8	160	8.32	26.493	22.119	0.00	0.132	2.84	0.80	1.00	0.0	33.52	95.15	0.00	4543	0	673	389	1062
7	140	8.03	28.807	28.811	0.00	0.139	2.81	0.80	1.00	0.0	37.84	106.38	0.00	5076	0	726	394	1120
6	120	7.71	32.254	28.794	0.00	0.134	2.83	0.80	1.00	0.0	40.70	115.22	0.00	5725	0	755	378	1133
5	100	7.34	42.271	28.806	0.00	0.143	2.80	0.80	1.00	0.0	48.95	136.87	0.00	7349	0	854	360	1214
4	80	6.92	0.000	59.668	0.00	0.110	2.93	0.80	1.00	0.0	32.91	96.25	0.00	5806	0	566	339	905
3	60	6.41	0.000	61.257	0.00	0.103	2.95	0.80	1.00	0.0	34.13	100.74	0.00	5925	0	549	314	863
2	40	5.75	0.000	70.692	0.00	0.109	2.93	0.80	1.00	0.0	37.83	110.80	0.00	7029	0	542	282	824
1	15	5.41	0.000	108.592	0.00	0.102	2.96	0.80	1.00	0.0	54.59	161.48	0.00	10519	0	742	398	1140
Totals														69,224	0			14,119

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)
16	310	9.93	11.736	9.583	0.00	0.158	2.74	0.85	1.00	0.0	15.42	42.32	0.00	1039	0	357	95	452
15	295	9.80	5.568	4.792	0.00	0.153	2.76	0.85	1.00	0.0	7.45	20.57	0.00	642	0	171	147	319
14	280	9.66	10.768	11.667	0.00	0.164	2.72	0.85	1.00	0.0	15.79	42.97	0.00	1454	0	353	314	666
13	260	9.47	13.087	13.356	0.00	0.167	2.71	0.85	1.00	0.0	18.73	50.75	0.00	2038	0	409	396	805
12	240	9.27	14.589	15.027	0.00	0.148	2.78	0.85	1.00	0.0	20.93	58.13	0.00	2254	0	458	388	846
11	220	9.06	16.318	15.026	0.00	0.130	2.85	0.85	1.00	0.0	22.37	63.67	0.00	2599	0	490	379	869
10	200	8.83	22.189	18.577	0.00	0.144	2.80	0.85	1.00	0.0	29.39	82.16	0.00	3303	0	617	369	986
9	180	8.59	24.957	22.124	0.00	0.144	2.79	0.85	1.00	0.0	33.51	93.64	0.00	3922	0	683	359	1043
8	160	8.32	26.493	22.119	0.00	0.132	2.84	0.85	1.00	0.0	34.85	98.91	0.00	4543	0	700	389	1089
7	140	8.03	28.807	28.811	0.00	0.139	2.81	0.85	1.00	0.0	39.28	110.42	0.00	5076	0	754	394	1148
6	120	7.71	32.254	28.794	0.00	0.134	2.83	0.85	1.00	0.0	42.31	119.78	0.00	5725	0	785	378	1163
5	100	7.34	42.271	28.806	0.00	0.143	2.80	0.85	1.00	0.0	51.06	142.78	0.00	7349	0	891	360	1251
4	80	6.92	0.000	59.668	0.00	0.110	2.93	0.85	1.00	0.0	32.91	96.25	0.00	5806	0	566	339	905
3	60	6.41	0.000	61.257	0.00	0.103	2.95	0.85	1.00	0.0	34.13	100.74	0.00	5925	0	549	314	863
2	40	5.75	0.000	70.692	0.00	0.109	2.93	0.85	1.00	0.0	37.83	110.80	0.00	7029	0	542	282	824
1	15	5.41	0.000	108.592	0.00	0.102	2.96	0.85	1.00	0.0	54.59	161.48	0.00	10519	0	742	398	1140
Totals														69,224	0			14,369

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

EQUIVALENT LATERAL FORCE METHOD

Long-Period Transition Period (T_L - Seconds): 8
Importance Factor (I_e): 1.00
Response Modification Coefficient (R): 3.00
Design Spectral Response Acceleration at Short Period (S_{ds}): 0.18
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}): 0.11
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): 1.30
Redundancy Factor (ρ): 1.30
Seismic Force Distribution Exponent (k): 1.40
Total Unfactored Dead Load: 80.00 k
Seismic Base Shear (E): 3.12 k

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
16	310.00	1,039	3,173,537	0.037	116	898
15	295.00	642	1,828,425	0.021	67	554
14	280.00	1,454	3,850,384	0.045	141	1,256
13	260.00	2,038	4,866,516	0.057	178	1,761
12	240.00	2,254	4,811,606	0.056	176	1,947
11	220.00	2,599	4,912,816	0.058	180	2,246
10	200.00	3,303	5,463,263	0.064	200	2,853
9	180.00	3,922	5,598,891	0.066	205	3,389
8	160.00	4,543	5,500,686	0.064	201	3,925
7	140.00	5,076	5,098,885	0.060	186	4,386
6	120.00	5,725	4,635,089	0.054	169	4,946
5	100.00	7,349	4,610,800	0.054	169	6,350
4	80.00	5,806	2,666,107	0.031	97	5,017
3	60.00	5,925	1,819,357	0.021	67	5,119
2	40.00	7,029	1,224,046	0.014	45	6,073
1	15.00	10,519	464,575	0.005	17	9,089
Sinclair SC480	320.00	30	95,772	0.001	4	26
Andrew Microwaves DB810K-XT	320.00	70	223,468	0.003	8	60
dbSpectra ATS7TMA30	320.00	25	79,810	0.001	3	22
Generic Round Side Arm	320.00	562	1,795,722	0.021	66	486
Sinclair SC480	313.00	30	92,854	0.001	3	26
Generic Round Side Arm	303.00	188	554,571	0.006	20	162
Ericsson Radio 8843 B2 B66A	300.00	216	629,160	0.007	23	186
Ericsson Radio 4494 44B14 20B29 M01	300.00	172	501,403	0.006	18	149
Raycap DC9-48-60-24-8C-EV (Enclosure)	300.00	18	53,961	0.001	2	16
Ericsson Radio 4490HP 44B5 44B12A C (20.6" Height)	300.00	195	568,782	0.007	21	168
Raycap DC6-48-60-18-8C-EV (Enclosure)	300.00	32	93,339	0.001	3	28
Ericsson AIR 6472 B77G B77M (67.2lbs)	300.00	202	588,033	0.007	21	174
Kathrein Scala 800372991	300.00	449	1,310,823	0.015	48	388
Generic Round Sector Frame	294.00	2,100	5,954,670	0.070	218	1,814
Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	274.00	210	539,585	0.006	20	181
Alcatel-Lucent 1900 MHz 4X45 RRH	272.30	180	458,493	0.005	17	156
RFS APXVTM14-ALU-I20	271.20	169	427,030	0.005	16	146
RFS APXVSP18-C	270.70	171	431,992	0.005	16	148
Generic Flat Light Sector Frame	270.00	2,400	6,041,132	0.071	221	2,074
Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	266.50	192	474,550	0.006	17	166
Andrew Microwaves PL8-65	170.00	340	448,078	0.005	16	294
Raycap RDIDC-9181-PF-48	161.00	22	26,747	0.000	1	19
Samsung SFG-ARR3KM01DI	161.00	184	224,602	0.003	8	159
Samsung SFG-ARR3J601DI	161.00	284	346,612	0.004	13	245
JMA Wireless MX08FRO665-21	161.00	129	157,551	0.002	6	111
Generic Round Sector Frame	161.00	2,100	2,564,783	0.030	94	1,814
CellMax CMA-UBTULBULBHH/6516/16/21/21	161.00	105	128,239	0.002	5	91
Totals		79,998	85,336,745	1.000	3,120	69,119

0.9D - 1.0Ev + 1.5Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
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ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

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16	310.00	1,039	3,173,537	0.037	174	898
15	295.00	642	1,828,425	0.021	100	554
14	280.00	1,454	3,850,384	0.045	211	1,256
13	260.00	2,038	4,866,516	0.057	267	1,761
12	240.00	2,254	4,811,606	0.056	264	1,947
11	220.00	2,599	4,912,816	0.058	269	2,246
10	200.00	3,303	5,463,263	0.064	300	2,853
9	180.00	3,922	5,598,891	0.066	307	3,389
8	160.00	4,543	5,500,686	0.064	302	3,925
7	140.00	5,076	5,098,885	0.060	280	4,386
6	120.00	5,725	4,635,089	0.054	254	4,946
5	100.00	7,349	4,610,800	0.054	253	6,350
4	80.00	5,806	2,666,107	0.031	146	5,017
3	60.00	5,925	1,819,357	0.021	100	5,119
2	40.00	7,029	1,224,046	0.014	67	6,073
1	15.00	10,519	464,575	0.005	25	9,089
Sinclair SC480	320.00	30	95,772	0.001	5	26
Andrew Microwaves DB810K-XT	320.00	70	223,468	0.003	12	60
dbSpectra ATS7TMA30	320.00	25	79,810	0.001	4	22
Generic Round Side Arm	320.00	562	1,795,722	0.021	98	486
Sinclair SC480	313.00	30	92,854	0.001	5	26
Generic Round Side Arm	303.00	188	554,571	0.006	30	162
Ericsson Radio 8843 B2 B66A	300.00	216	629,160	0.007	35	186
Ericsson Radio 4494 44B14 20B29 M01	300.00	172	501,403	0.006	27	149
Raycap DC9-48-60-24-8C-EV (Enclosure)	300.00	18	53,961	0.001	3	16
Ericsson Radio 4490HP 44B5 44B12A C (20.6" Height)	300.00	195	568,782	0.007	31	168
Raycap DC6-48-60-18-8C-EV (Enclosure)	300.00	32	93,339	0.001	5	28
Ericsson AIR 6472 B77G B77M (67.2lbs)	300.00	202	588,033	0.007	32	174
Kathrein Scala 800372991	300.00	449	1,310,823	0.015	72	388
Generic Round Sector Frame	294.00	2,100	5,954,670	0.070	327	1,814
Alcatel-Lucent TD-RRHx20-25 w/ Solar Shield	274.00	210	539,585	0.006	30	181
Alcatel-Lucent 1900 MHz 4X45 RRH	272.30	180	458,493	0.005	25	156
RFS APXVTM14-ALU-I20	271.20	169	427,030	0.005	23	146
RFS APXVSP18-C	270.70	171	431,992	0.005	24	148
Generic Flat Light Sector Frame	270.00	2,400	6,041,132	0.071	331	2,074
Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	266.50	192	474,550	0.006	26	166
Andrew Microwaves PL8-65	170.00	340	448,078	0.005	25	294
Raycap RDIDC-9181-PF-48	161.00	22	26,747	0.000	1	19
Samsung SFG-ARR3KM01DI	161.00	184	224,602	0.003	12	159
Samsung SFG-ARR3J601DI	161.00	284	346,612	0.004	19	245
JMA Wireless MX08FRO665-21	161.00	129	157,551	0.002	9	111
Generic Round Sector Frame	161.00	2,100	2,564,783	0.030	141	1,814
CellMax CMA-UBTULBULBHH/6516/16/21/21	161.00	105	128,239	0.002	7	91
Totals		79,998	85,336,745	1.000	4,680	69,119

1.2D + 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
16	310.00	1,039	3,173,537	0.037	116	1,284
15	295.00	642	1,828,425	0.021	67	793
14	280.00	1,454	3,850,384	0.045	141	1,797
13	260.00	2,038	4,866,516	0.057	178	2,519
12	240.00	2,254	4,811,606	0.056	176	2,786
11	220.00	2,599	4,912,816	0.058	180	3,213
10	200.00	3,303	5,463,263	0.064	200	4,082
9	180.00	3,922	5,598,891	0.066	205	4,848
8	160.00	4,543	5,500,686	0.064	201	5,616
7	140.00	5,076	5,098,885	0.060	186	6,274
6	120.00	5,725	4,635,089	0.054	169	7,076
5	100.00	7,349	4,610,800	0.054	169	9,084
4	80.00	5,806	2,666,107	0.031	97	7,177
3	60.00	5,925	1,819,357	0.021	67	7,324
2	40.00	7,029	1,224,046	0.014	45	8,688
1	15.00	10,519	464,575	0.005	17	13,002
Sinclair SC480	320.00	30	95,772	0.001	4	37
Andrew Microwaves DB810K-XT	320.00	70	223,468	0.003	8	87
dbSpectra ATS7TMA30	320.00	25	79,810	0.001	3	31
Generic Round Side Arm	320.00	562	1,795,722	0.021	66	695
Sinclair SC480	313.00	30	92,854	0.001	3	37
Generic Round Side Arm	303.00	188	554,571	0.006	20	232
Ericsson Radio 8843 B2 B66A	300.00	216	629,160	0.007	23	267
Ericsson Radio 4494 44B14 20B29 M01	300.00	172	501,403	0.006	18	212
Raycap DC9-48-60-24-8C-EV (Enclosure)	300.00	18	53,961	0.001	2	23
Ericsson Radio 4490HP 44B5 44B12A C (20.6" Height)	300.00	195	568,782	0.007	21	241
Raycap DC6-48-60-18-8C-EV (Enclosure)	300.00	32	93,339	0.001	3	40
Ericsson AIR 6472 B77G B77M (67.2lbs)	300.00	202	588,033	0.007	21	249
Kathrein Scala 800372991	300.00	449	1,310,823	0.015	48	555
Generic Round Sector Frame	294.00	2,100	5,954,670	0.070	218	2,596
Alcatel-Lucent TD-RRHx20-25 w/ Solar Shield	274.00	210	539,585	0.006	20	260
Alcatel-Lucent 1900 MHz 4X45 RRH	272.30	180	458,493	0.005	17	222
RFS APXVTM14-ALU-I20	271.20	169	427,030	0.005	16	208
RFS APXVSP18-C	270.70	171	431,992	0.005	16	211

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Generic Flat Light Sector Frame	270.00	2,400	6,041,132	0.071	221	2,966
Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	266.50	192	474,550	0.006	17	237
Andrew Microwaves PL8-65	170.00	340	448,078	0.005	16	420
Raycap RDIDC-9181-PF-48	161.00	22	26,747	0.000	1	27
Samsung SFG-ARR3KM01DI	161.00	184	224,602	0.003	8	227
Samsung SFG-ARR3J601DI	161.00	284	346,612	0.004	13	351
JMA Wireless MX08FRO665-21	161.00	129	157,551	0.002	6	159
Generic Round Sector Frame	161.00	2,100	2,564,783	0.030	94	2,596
CellMax CMA-UBTULBULBHH/6516/16/21/21	161.00	105	128,239	0.002	5	130
Totals		79,998	85,336,745	1.000	3,120	98,878

1.2D + 1.0Ev + 1.5Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
16	310.00	1,039	3,173,537	0.037	174	1,284
15	295.00	642	1,828,425	0.021	100	793
14	280.00	1,454	3,850,384	0.045	211	1,797
13	260.00	2,038	4,866,516	0.057	267	2,519
12	240.00	2,254	4,811,606	0.056	264	2,786
11	220.00	2,599	4,912,816	0.058	269	3,213
10	200.00	3,303	5,463,263	0.064	300	4,082
9	180.00	3,922	5,598,891	0.066	307	4,848
8	160.00	4,543	5,500,686	0.064	302	5,616
7	140.00	5,076	5,098,885	0.060	280	6,274
6	120.00	5,725	4,635,089	0.054	254	7,076
5	100.00	7,349	4,610,800	0.054	253	9,084
4	80.00	5,806	2,666,107	0.031	146	7,177
3	60.00	5,925	1,819,357	0.021	100	7,324
2	40.00	7,029	1,224,046	0.014	67	8,688
1	15.00	10,519	464,575	0.005	25	13,002
Sinclair SC480	320.00	30	95,772	0.001	5	37
Andrew Microwaves DB810K-XT	320.00	70	223,468	0.003	12	87
dbSpectra ATS7TMA30	320.00	25	79,810	0.001	4	31
Generic Round Side Arm	320.00	562	1,795,722	0.021	98	695
Sinclair SC480	313.00	30	92,854	0.001	5	37
Generic Round Side Arm	303.00	188	554,571	0.006	30	232
Ericsson Radio 8843 B2 B66A	300.00	216	629,160	0.007	35	267
Ericsson Radio 4494 44B14 20B29 M01	300.00	172	501,403	0.006	27	212
Raycap DC9-48-60-24-8C-EV (Enclosure)	300.00	18	53,961	0.001	3	23
Ericsson Radio 4490HP 44B5 44B12A C (20.6" Height)	300.00	195	568,782	0.007	31	241
Raycap DC6-48-60-18-8C-EV (Enclosure)	300.00	32	93,339	0.001	5	40
Ericsson AIR 6472 B77G B77M (67.2lbs)	300.00	202	588,033	0.007	32	249
Kathrein Scala 800372991	300.00	449	1,310,823	0.015	72	555
Generic Round Sector Frame	294.00	2,100	5,954,670	0.070	327	2,596
Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	274.00	210	539,585	0.006	30	260
Alcatel-Lucent 1900 MHz 4X45 RRH	272.30	180	458,493	0.005	25	222
RFS APXVTM14-ALU-I20	271.20	169	427,030	0.005	23	208
RFS APXVSP18-C	270.70	171	431,992	0.005	24	211
Generic Flat Light Sector Frame	270.00	2,400	6,041,132	0.071	331	2,966
Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	266.50	192	474,550	0.006	26	237
Andrew Microwaves PL8-65	170.00	340	448,078	0.005	25	420
Raycap RDIDC-9181-PF-48	161.00	22	26,747	0.000	1	27
Samsung SFG-ARR3KM01DI	161.00	184	224,602	0.003	12	227
Samsung SFG-ARR3J601DI	161.00	284	346,612	0.004	19	351
JMA Wireless MX08FRO665-21	161.00	129	157,551	0.002	9	159
Generic Round Sector Frame	161.00	2,100	2,564,783	0.030	141	2,596
CellMax CMA-UBTULBULBHH/6516/16/21/21	161.00	105	128,239	0.002	7	130
Totals		79,998	85,336,745	1.000	4,680	98,878

FORCE/STRESS SUMMARY

Section 1 - 0.0' to 30.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	Φ _{R_{nv}} (kip)			Φ _{R_n} (kip)						
L PX - 10" DIA PIPE	-354.47	1.2D + 1.0W N	30.074	33	33	33	32.81	50.00	669.67	0.00	0.00	0	0	53	Member X
H PST - 3" DIA PIPE	-8.79	0.9D + 1.0W 330°	16.46	100	100	100	170.28	50.00	17.38	0.00	40.44	2	0	51	Member X
D PST - 3" DIA PIPE	-18.56	1.2D + 1.0W 330°	35.152	33	33	33	120.00	50.00	34.98	0.00	70.76	3	0	53	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φ _t P _n (kip)														
L PX - 10" DIA PIPE	281.73	0.9D + 1.0W 60°	50.0	65	724.50	0.00	0.00			0	0	39	Member		
H PST - 3" DIA PIPE	9.35	1.2D + 1.0W 330°	50.0	65	100.35	0.00	32.43	0.00		2	0	29	Bolt Bear		
D PST - 3" DIA PIPE	17.13	0.9D + 1.0W 330°	50.0	65	100.35	0.00	61.50	0.00		3	0	28	Bolt Bear		
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									

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Bot Tension	307.42	0.9D + 1.0W 60°	681.46	21	12	1" A354-BC
Bot Compression	384.25	1.2D + 1.0W 120°	792.31	1	0	

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FORCE/STRESS SUMMARY

Section 2 – 30.0' to 50.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	(kip)			ΦRnv	ΦRn										
	(kip)			(kip)											
L PX - 10" DIA PIPE	-334.18	1.2D + 1.0W N	20.059	50	50	50	33.16	50.00	668.54	0.00	0.00	0	0	50	Member X
H PST - 3" DIA PIPE	-7.73	0.9D + 1.0W 330°	15.125	100	100	100	156.47	50.00	20.58	0.00	40.44	2	0	38	Member X
D PST - 3" DIA PIPE	-13.50	1.2D + 1.0W 330°	25.914	50	50	50	134.04	50.00	28.04	0.00	60.65	3	0	48	Member X
Member Tension	Pu	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear	Bear	Blk Shear	# Bolt	# Hole	Use %	Controls			
	(kip)					ΦRnv	ΦRn	Φt Pn							
	(kip)					(kip)	(kip)								
L PX - 10" DIA PIPE	267.36	0.9D + 1.0W 60°	50.0	65	724.50	0.00	0.00		0	0	37	Member			
H PST - 3" DIA PIPE	7.84	1.2D + 1.0W 330°	50.0	65	100.35	0.00	32.43	0.00	2	0	24	Bolt Bear			
D PST - 3" DIA PIPE	11.91	0.9D + 1.0W 330°	50.0	65	100.35	0.00	52.65	0.00	3	0	23	Bolt Bear			
Max Splice Forces	Pu	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	(kip)														
	280.83	0.9D + 1.0W 60°	654.20	43	12	1 A325									

Section 3 – 50.0' to 70.00'

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 PX - 8" DIA PIPE	-311.11	1.2D + 1.0W N	20.052	50	50	50	41.78	50.00	507.00	0.00	0.00	0	0	61	Member X
H PST - 3" DIA PIPE	-8.10	0.9D + 1.0W 330°	13.875	100	100	100	143.54	50.00	24.45	0.00	40.44	2	0	33	Member X
D PST - 3" DIA PIPE	-14.70	1.2D + 1.0W 330°	25.086	50	50	50	129.75	50.00	29.92	0.00	60.65	3	0	49	Member X
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 PX - 8" DIA PIPE	250.27	0.9D + 1.0W 60°	50.0	65	576.00	0.00	0.00		0	0	43	Member			
H PST - 3" DIA PIPE	8.30	1.2D + 1.0W 330°	50.0	65	100.35	0.00	32.43	0.00	2	0	26	Bolt Bear			
D PST - 3" DIA PIPE	13.39	0.9D + 1.0W 330°	50.0	65	100.35	0.00	52.65	0.00	3	0	25	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	266.56						0.9D + 1.0W 60°	654.20	41	12	1 A325				

Section 4 – 70.0' to 90.00'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	(kip)			ΦRnv (kip)	ΦRn (kip)										
L PX - 8" DIA PIPE	-287.85	1.2D + 1.0W N	20.055	50	50	50	41.78	50.00	506.98	0.00	0.00	0	0	57	Member X
H PST - 3" DIA PIPE	-7.89	1.2D + 1.0W 330°	12.585	100	100	100	130.19	50.00	29.72	0.00	40.44	2	0	27	Member X
D PST - 3" DIA PIPE	-14.55	1.2D + 1.0W 330°	24.353	50	50	50	125.96	50.00	31.75	0.00	60.65	3	0	46	Member X
Member Tension	Pu	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
	(kip)							Φt Pn (kip)							
L PX - 8" DIA PIPE	232.76	0.9D + 1.0W 60°	50.0	65	576.00	0.00	0.00		0	0	40	Member			
H PST - 3" DIA PIPE	7.36	0.9D + 1.0W 330°	50.0	65	100.35	0.00	32.43	0.00	2	0	23	Bolt Bear			
D PST - 3" DIA PIPE	13.30	0.9D + 1.0W 330°	50.0	65	100.35	0.00	52.65	0.00	3	0	25	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	249.44	0.9D + 1.0W 60°	436.14	57	8	1 A325									

Section 5 – 90.0' to 110.00'

	Pu (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
Member Compression				X	Y	Z	KL/R							
L PX - 8" DIA PIPE	-279.53	1.2D + 1.0W N	10.02	100	100	100	41.75	50.00	507.08	0.00	0	0	55	Member X
D SAE - 5X5X0.375	-9.27	1.2D + 1.0W 120°	26.582	50	50	50	161.10	36.00	39.81	27.06	1	1	34	Bolt Shear
	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls		
Member Tension														
L PX - 8" DIA PIPE	227.47	0.9D + 1.0W 60°	50.0	65	576.00	0.00	0.00		0	0	39	Member		

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FORCE/STRESS SUMMARY											
D SAE - 5X5X0.375	9.07	0.9D + 1.0W 330°	36.0	58	106.31	27.06	22.18	32.42	1	1	41 Bolt Bear
Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type					
Bot Tension	231.96	0.9D + 1.0W 60°	436.14	53	8	1 A325					

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

FORCE/STRESS SUMMARY

Section 6 – 110.0' to 130.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	Φ _{R_{nv}} (kip)				Φ _{R_n} (kip)					
L PSP - ROHN 8 EHS	-250.40	1.2D + 1.0W N	10.015	100	100	100	41.16	50.00	386.44	0.00	0.00	0	0	65	Member X
D SAE - 4X4X0.375	-9.56	1.2D + 1.0W 330°	24.642	50	50	50	189.80	50.00	22.72	19.88	35.10	1	1	48	Bolt Shear
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
	Φ _t P _n (kip)														
L PSP - ROHN 8 EHS	205.67	0.9D + 1.0W 60°	50.0	65	437.40	0.00	0.00		0	0	47	Member			
D SAE - 4X4X0.375	9.16	0.9D + 1.0W 330°	50.0	65	93.43	19.88	21.21	26.96	1	1	46	Bolt Shear			
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	210.60					0.9D + 1.0W 60°	436.14	48	8	1 A325					

Section 7 – 130.0' to 150.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	Φ _{R_{nv}} (kip)				Φ _{R_n} (kip)					
L PSP - ROHN 8 EHS	-221.70	1.2D + 1.0W N	10.021	100	100	100	41.18	50.00	386.39	0.00	0.00	0	0	57	Member X
D SAE - 4X4X0.3125	-7.82	1.2D + 1.0W 330°	22.827	50	50	50	175.37	50.00	22.34	19.88	29.25	1	1	39	Bolt Shear
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
	Φ _t P _n (kip)														
L PSP - ROHN 8 EHS	182.74	0.9D + 1.0W 60°	50.0	65	437.40	0.00	0.00		0	0	42	Member			
D SAE - 4X4X0.3125	7.61	0.9D + 1.0W 330°	50.0	65	78.47	19.88	17.67	22.47	1	1	43	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	186.83					0.9D + 1.0W 60°	436.14	43	8	1 A325					

Section 8 – 150.0' to 170.00'

										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	
	X			Y	Z										
L PX - 6" DIA PIPE	-193.76	1.2D + 1.0W N	10.016	100	100	100	54.76	50.00	303.59	0.00	0.00	0	0	64	Member X
D SAE - 4X4X0.3125	-8.14	1.2D + 1.0W 330°	20.891	50	50	50	160.50	50.00	26.67	19.88	29.25	1	1	41	Bolt Shear
										Shear	Bear	Blk Shear			
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
L PX - 6" DIA PIPE	160.29	0.9D + 1.0W 60°	50.0	65	378.00	0.00	0.00		0	0	42	Member			
D SAE - 4X4X0.3125	7.85	0.9D + 1.0W 330°	50.0	65	78.47	19.88	17.67	22.47	1	1	44	Bolt Bear			
										Shear	Bear	Blk Shear			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	165.63	0.9D + 1.0W 60°	436.14	38	8	1 A325									

Section 9 – 170.0' to 190.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	Φ _{R_{nv}} (kip)				Φ _{R_n} (kip)					
L PSP - ROHN 6 EHS	-165.40	1.2D + 1.0W N	10.018	100	100	100	54.03	50.00	243.91	0.00	0.00	0	0	68	Member X
D SAE - 4X4X0.3125	-5.79	1.2D + 1.0W 330°	19.166	50	50	50	147.24	50.00	31.68	19.88	29.25	1	1	29	Bolt Shear
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)	Blk Shear	# Bolt	# Hole	Use %	Controls			
	Φ _t P _n (kip)														
L PSP - ROHN 6 EHS	139.00	0.9D + 1.0W 60°	50.0	65	301.95	0.00	0.00		0	0	46	Member			
D SAE - 4X4X0.3125	5.66	1.2D + 1.0W 330°	50.0	65	78.47	19.88	17.67	22.47	1	1	32	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	142.80					0.9D + 1.0W 60°	327.10	44	6	1 A325					

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FORCE/STRESS SUMMARY

Section 10 – 190.0' to 210.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	ΦRnv (kip)			ΦRn (kip)						
L PX - 5" DIA PIPE	-144.17	1.2D + 1.0W 120°	6.679	100	100	100	43.56	50.00	238.94	0.00	0.00	0	0	60	Member X
D SAE - 3X3X0.25	-4.59	1.2D + 1.0W 330°	15.899	50	50	50	161.13	50.00	15.87	13.81	19.50	1	1	33	Bolt Shear
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	ΦRnv (kip)	ΦRn (kip)	Shear	Bear	Blk Shear	# Bolt	# Hole	Use %	Controls	
	Φt Pn (kip)														
L PX - 5" DIA PIPE	121.94	0.9D + 1.0W 60°	50.0	65	274.50	0.00	0.00				0	0	44	Member	
D SAE - 3X3X0.25	4.52	1.2D + 1.0W 330°	50.0	65	46.37	13.81	11.70	14.78			1	1	39	Bolt Bear	
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	124.17					0.9D + 1.0W 60°	327.10	38	6	1 A325					

Section 11 – 210.0' to 230.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	ΦRnv (kip)			ΦRn (kip)						
L PX - 4" DIA PIPE	-121.53	1.2D + 1.0W N	6.678	100	100	100	54.15	50.00	160.16	0.00	0.00	0	0	76	Member X
D SAE - 2.5X2.5X0.25	-4.23	1.2D + 1.0W 330°	14.036	50	50	50	171.52	36.00	11.58	13.81	17.40	1	1	37	Member Z
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	ΦRnv (kip)	ΦRn (kip)	Shear	Bear	Blk Shear	# Bolt	# Hole	Use %	Controls	
	Φt Pn (kip)														
L PX - 4" DIA PIPE	103.11	0.9D + 1.0W 60°	50.0	65	198.45	0.00	0.00				0	0	52	Member	
D SAE - 2.5X2.5X0.25	4.10	1.2D + 1.0W 330°	36.0	58	33.22	13.81	10.44	11.83			1	1	39	Bolt Bear	
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	105.89					0.9D + 1.0W 60°	218.07	49	4	1 A325					

Section 12 – 230.0' to 250.00'

										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	
	X			Y	Z										
L PX - 4" DIA PIPE	-98.62	1.2D + 1.0W N	6.679	100	100	100	54.15	50.00	160.15	0.00	0.00	0	0	62	Member X
D SAE - 2.5X2.5X0.1875	-3.82	1.2D + 1.0W 330°	12.275	50	50	50	148.79	36.00	11.66	13.81	13.05	1	1	33	Member Z
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
L PX - 4" DIA PIPE	83.37	0.9D + 1.0W 60°	50.0	65	198.45	0.00	0.00		0	0	42	Member			
D SAE - 2.5X2.5X0.1875	3.72	1.2D + 1.0W 330°	36.0	58	25.22	13.81	7.83	8.87	1	1	48	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	86.33	0.9D + 1.0W 60°	166.22	52	4	0.875" A325									

Section 13 – 250.0' to 270.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	X			Y	Z	Φ _{R_{nv}} (kip)				Φ _{R_n} (kip)					
L PX - 3-1/2" DIA PIPE	-75.71	1.2D + 1.0W N	5.008	100	100	100	45.88	50.00	141.98	0.00	0.00	0	0	53	Member X
H SAE - 2X2X0.1875	-0.40	1.2D + 1.0W 60°	6.58	100	100	100	200.41	36.00	5.10	13.81	13.05	1	1	8	Member Z
D SAE - 2X2X0.1875	-3.31	1.2D + 1.0W 330°	9.717	50	50	50	147.97	36.00	9.35	13.81	13.05	1	1	35	Member Z
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Φ _{R_{nv}} (kip)	Φ _{R_n} (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φ _t P _n (kip)														
L PX - 3-1/2" DIA PIPE	63.17	0.9D + 1.0W 60°	50.0	65	165.60	0.00	0.00			0	0	38	Member		
H SAE - 2X2X0.1875	0.30	0.9D + 1.0W 240°	36.0	58	19.12	13.81	7.83	6.83		1	1	4	Blk Shear		
D SAE - 2X2X0.1875	3.30	1.2D + 1.0W 330°	36.0	58	19.12	13.81	7.83	6.83		1	1	48	Blk Shear		
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									

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Bot Tension	65.58	0.9D + 1.0W 60°	166.22	39	4	0.875" A325			

Section 14 – 270.0' to 290.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls	
				X	Y	Z	KL/R								
L PST - 3" DIA PIPE	-47.33	1.2D + 1.0W 120°	4	100	100	100	41.38	50.00	88.54	0.00	0.00	0	0	53	Member X
D SAE - 1.75X1.75X0.1875	-3.74	1.2D + 1.0W 330°	7.696	50	50	50	134.63	36.00	9.81	13.81	13.05	1	1	38	Member Z

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 PST - 3" DIA PIPE	39.64	0.9D + 1.0W 60°	50.0	65	100.35	0.00	0.00		0	0	40	Member
D SAE - 1.75X1.75X0.1875	3.64	1.2D + 1.0W 330°	36.0	58	16.05	13.81	7.83	5.81	1	1	63	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	41.93	0.9D + 1.0W 180°	166.22	25	4	0.875" A325

Section 15 – 290.0' to 300.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn	Shear ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	X	Y	Z												
L PST - 2-1/2" DIA PIPE	-17.38	1.2D + 1.0W 120°	5	100	100	100	63.36	50.00	57.18	0.00	0.00	0	0	30	Member X
H SAE - 1.75X1.75X0.1875	-0.14	0.9D + 1.0W 60°	6.53	100	100	100	228.46	36.00	3.41	13.81	13.05	1	1	4	Member Z
D SAE - 1.75X1.75X0.1875	-2.84	1.2D + 1.0W 330°	8.225	50	50	50	143.87	36.00	8.59	13.81	13.05	1	1	33	Member Z

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 PST - 2-1/2" DIA PIPE	12.46	0.9D + 1.0W 60°	50.0	65	76.68	0.00	0.00		0	0	16	Member
H SAE - 1.75X1.75X0.1875	0.15	1.2D + 1.0W 240°	36.0	58	16.05	13.81	7.83	5.81	1	1	3	Blk Shear
D SAE - 1.75X1.75X0.1875	2.83	1.2D + 1.0W 330°	36.0	58	16.05	13.81	7.83	5.81	1	1	49	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	15.33	0.9D + 1.0W 60°	120.41	13	4	0.75" A325

Section 16 – 300.0' to 320.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear	Bear	# Bolt	# Hole	Use %	Controls
	ΦR _{nv} (kip)	ΦR _n (kip)													
L PST - 2-1/2" DIA PIPE	-6.88	1.2D + 1.0W 120°	4	100	100	100	50.69	50.00	63.55	0.00	0.00	0	0	11	Member X
H SAE - 1.75X1.75X0.1875	-0.19	0.9D + 1.0W 300°	6.53	100	100	100	228.46	36.00	3.41	0.00	0.00	0	0	6	Member Z
D SAE - 1.75X1.75X0.1875	-1.14	1.2D + 1.0W 210°	7.658	50	50	50	133.96	36.00	9.90	13.81	13.05	1	1	12	Member Z
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 PST - 2-1/2" DIA PIPE	5.19	0.9D + 1.0W 300°	50.0	65	76.68	0.00	0.00		0	0	7	Member			
H SAE - 1.75X1.75X0.1875	0.21	1.2D + 1.0W 120°	36.0	58	20.12	0.00	0.00	0.00	0	0	1	Member			
D SAE - 1.75X1.75X0.1875	1.12	1.2D + 1.0W 330°	36.0	58	16.05	13.81	7.83	5.81	1	1	19	Blk Shear			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	5.79	0.9D + 1.0W 60°	120.41	5	4	0.75" A325									

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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	160.00	0.1455	-0.2191	0.1130	0.2428
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	170.00	0.1664	-0.2187	0.1214	0.2454
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	265.00	0.4865	-0.2024	0.2700	0.3309
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	270.00	0.5107	-0.2009	0.2813	0.3415
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	274.00	0.5309	-0.1983	0.2971	0.3563
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	295.00	0.6452	-0.1844	0.3260	0.3746
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	300.00	0.6736	-0.1803	0.3270	0.3731
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	304.00	0.6964	-0.1774	0.3274	0.3721
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	312.00	0.7423	-0.1731	0.3269	0.3696
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	320.00	0.7883	-0.1711	0.3237	0.3661
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	160.00	0.143	-0.1901	0.1138	0.2174
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	170.00	0.1637	-0.1897	0.1225	0.2207
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	265.00	0.4789	-0.1747	0.2696	0.3141
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	270.00	0.5028	-0.1734	0.2779	0.323
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	274.00	0.5227	-0.1712	0.2888	0.3356
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	295.00	0.6354	0.1593	0.3210	0.3584
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	300.00	0.6635	0.1567	0.3225	0.3583
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	304.00	0.686	0.1549	0.3232	0.3582
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	312.00	0.7312	0.1526	0.3271	0.361
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	320.00	0.7766	0.1517	0.3313	0.3644
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	160.00	0.1528	-0.1894	0.1209	0.2205
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	170.00	0.1747	-0.1890	0.1305	0.2242
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	265.00	0.5091	-0.1742	0.2840	0.3275
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	270.00	0.5342	-0.1729	0.2928	0.3369
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	274.00	0.5553	-0.1708	0.3062	0.3494
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	295.00	0.6744	-0.1610	0.3399	0.376
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	300.00	0.704	-0.1583	0.3409	0.3757
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	304.00	0.7278	-0.1565	0.3420	0.3755
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	312.00	0.7757	-0.1543	0.3458	0.3783
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	320.00	0.8236	-0.1533	0.3498	0.3816
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	160.00	0.1454	-0.2191	0.1130	0.2427
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	170.00	0.1664	-0.2186	0.1214	0.2453
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	265.00	0.4863	-0.2023	0.2699	0.3307
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	270.00	0.5105	-0.2007	0.2812	0.3413
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	274.00	0.5307	-0.1982	0.2969	0.3562
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	295.00	0.6449	-0.1867	0.3258	0.3755
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	300.00	0.6733	-0.1835	0.3267	0.3743
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	304.00	0.6961	-0.1813	0.3272	0.3736
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	312.00	0.7419	-0.1785	0.3265	0.3718
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	320.00	0.7878	-0.1774	0.3235	0.3688
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	160.00	0.143	0.1903	0.1138	0.2175
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	170.00	0.1637	0.1900	0.1225	0.2209
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	265.00	0.4788	0.1766	0.2681	0.3139
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	270.00	0.5027	0.1753	0.2791	0.325
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	274.00	0.5226	0.1730	0.2940	0.3411
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	295.00	0.6351	0.1619	0.3203	0.3589
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	300.00	0.6631	0.1587	0.3220	0.3584
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	304.00	0.6856	0.1566	0.3220	0.358
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	312.00	0.7307	0.1535	0.3190	0.354
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	320.00	0.7759	0.1521	0.3126	0.3474
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	160.00	0.1528	0.1894	0.1209	0.2205
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	170.00	0.1747	0.1890	0.1305	0.2243
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	265.00	0.5091	0.1742	0.2841	0.3276
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	270.00	0.5343	0.1729	0.2929	0.3369
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	274.00	0.5554	0.1708	0.3063	0.3494
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	295.00	0.6745	0.1611	0.3401	0.3761
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	300.00	0.7042	0.1584	0.3411	0.3759
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	304.00	0.728	0.1566	0.3422	0.3758
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	312.00	0.7759	0.1543	0.3460	0.3786

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	320.00	0.8239	0.1534	0.3500	0.3818
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	160.00	0.1454	-0.2186	0.1130	0.2423
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	170.00	0.1664	-0.2180	0.1214	0.2448
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	265.00	0.4864	-0.1986	0.2715	0.33
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	270.00	0.5107	-0.1972	0.2799	0.3385
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	274.00	0.5308	-0.1948	0.2917	0.35
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	295.00	0.6452	-0.1823	0.3267	0.3741
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	300.00	0.6738	-0.1787	0.3273	0.3729
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	304.00	0.6966	-0.1762	0.3285	0.3722
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	312.00	0.7426	-0.1727	0.3346	0.3763
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	320.00	0.7887	-0.1711	0.3421	0.3825
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	160.00	0.143	0.1901	0.1138	0.2173
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	170.00	0.1637	0.1897	0.1226	0.2207
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	265.00	0.4789	0.1746	0.2697	0.3142
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	270.00	0.5028	0.1734	0.2780	0.323
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	274.00	0.5227	0.1711	0.2888	0.3357
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	295.00	0.6354	-0.1594	0.3211	0.3585
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	300.00	0.6636	-0.1567	0.3227	0.3584
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	304.00	0.6861	-0.1550	0.3234	0.3584
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	312.00	0.7314	-0.1526	0.3273	0.3612
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	320.00	0.7768	-0.1517	0.3315	0.3646
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	160.00	0.1528	0.1896	0.1209	0.2208
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	170.00	0.1747	-0.1893	0.1305	0.2245
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	265.00	0.5092	-0.1762	0.2827	0.3274
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	270.00	0.5343	-0.1749	0.2943	0.3392
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	274.00	0.5555	-0.1727	0.3117	0.3552
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	295.00	0.6746	-0.1616	0.3399	0.3763
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	300.00	0.7042	-0.1584	0.3408	0.3758
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	304.00	0.728	-0.1562	0.3413	0.3749
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	312.00	0.7758	-0.1531	0.3384	0.3711
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	320.00	0.8237	-0.1517	0.3316	0.3646
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	160.00	0.0357	-0.0189	0.0305	0.0353
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	170.00	0.0412	-0.0189	0.0332	0.0373
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	265.00	0.1324	-0.0182	0.0810	0.0824
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	270.00	0.1396	-0.0181	0.0840	0.0855
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	274.00	0.1457	-0.0177	0.0888	0.0898
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	295.00	0.1802	-0.0158	0.0986	0.0998
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	300.00	0.1886	-0.0152	0.0986	0.0993
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	304.00	0.1955	-0.0149	0.0986	0.0996
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	312.00	0.2093	-0.0143	0.0988	0.0997
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	320.00	0.2231	-0.0141	0.0986	0.0995
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	160.00	0.0355	0.0164	0.0307	0.0341
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	170.00	0.0411	0.0164	0.0335	0.0363
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	265.00	0.1324	0.0158	0.0811	0.0817
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	270.00	0.1396	0.0157	0.0841	0.085
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	274.00	0.1456	0.0154	0.0884	0.0897
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	295.00	0.1801	0.0137	0.0984	0.0991
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	300.00	0.1887	0.0132	0.0987	0.0988
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	304.00	0.1955	0.0129	0.0985	0.0994
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	312.00	0.2093	0.0124	0.0987	0.0995
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	320.00	0.2231	0.0122	0.0986	0.0993
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	160.00	0.0357	0.0164	0.0305	0.0342
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	170.00	0.0413	0.0164	0.0333	0.0364
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	265.00	0.1325	0.0158	0.0807	0.0822
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	270.00	0.1396	0.0157	0.0837	0.0852
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	274.00	0.1457	0.0154	0.0890	0.0893
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	295.00	0.1802	0.0137	0.0987	0.0996
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	300.00	0.1886	0.0132	0.0983	0.0992
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	304.00	0.1955	0.0129	0.0986	0.0992

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	312.00	0.2093	0.0124	0.0988	0.0994
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	320.00	0.223	0.0122	0.0986	0.0993
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	160.00	0.0357	-0.0189	0.0305	0.0353
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	170.00	0.0412	-0.0189	0.0332	0.0373
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	265.00	0.1324	-0.0182	0.0810	0.0824
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	270.00	0.1396	-0.0181	0.0840	0.0855
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	274.00	0.1457	-0.0177	0.0888	0.0898
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	295.00	0.1802	-0.0158	0.0986	0.0998
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	300.00	0.1886	-0.0152	0.0986	0.0993
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	304.00	0.1955	-0.0149	0.0986	0.0996
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	312.00	0.2093	-0.0143	0.0988	0.0997
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	320.00	0.2231	-0.0141	0.0986	0.0995
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	160.00	0.0355	0.0164	0.0307	0.0341
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	170.00	0.0411	0.0164	0.0335	0.0363
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	265.00	0.1323	0.0158	0.0811	0.0817
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	270.00	0.1396	0.0157	0.0841	0.085
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	274.00	0.1456	0.0154	0.0884	0.0897
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	295.00	0.1801	0.0137	0.0984	0.0991
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	300.00	0.1887	0.0132	0.0987	0.0988
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	304.00	0.1955	0.0129	0.0985	0.0994
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	312.00	0.2093	0.0124	0.0987	0.0995
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	320.00	0.2231	0.0122	0.0986	0.0993
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	160.00	0.0357	0.0164	0.0305	0.0342
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	170.00	0.0413	0.0164	0.0333	0.0364
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	265.00	0.1325	0.0158	0.0807	0.0822
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	270.00	0.1396	0.0157	0.0837	0.0852
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	274.00	0.1457	0.0154	0.0890	0.0893
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	295.00	0.1802	0.0137	0.0987	0.0996
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	300.00	0.1886	0.0132	0.0983	0.0992
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	304.00	0.1955	0.0129	0.0986	0.0992
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	312.00	0.2093	0.0124	0.0988	0.0994
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	320.00	0.223	0.0122	0.0986	0.0993
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	160.00	0.0357	-0.0189	0.0305	0.0353
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	170.00	0.0412	-0.0189	0.0332	0.0373
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	265.00	0.1324	-0.0182	0.0810	0.0824
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	270.00	0.1396	-0.0181	0.0840	0.0855
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	274.00	0.1457	-0.0177	0.0888	0.0898
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	295.00	0.1802	-0.0158	0.0986	0.0998
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	300.00	0.1886	-0.0152	0.0986	0.0993
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	304.00	0.1955	-0.0149	0.0986	0.0996
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	312.00	0.2093	-0.0143	0.0988	0.0997
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	320.00	0.223	-0.0141	0.0986	0.0995
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	160.00	0.0355	0.0164	0.0307	0.0341
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	170.00	0.0411	0.0164	0.0335	0.0363
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	265.00	0.1324	0.0158	0.0811	0.0817
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	270.00	0.1396	0.0157	0.0841	0.085
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	274.00	0.1456	0.0154	0.0884	0.0897
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	295.00	0.1801	0.0137	0.0984	0.0991
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	300.00	0.1887	0.0132	0.0987	0.0988
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	304.00	0.1955	0.0129	0.0985	0.0994
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	312.00	0.2093	0.0124	0.0987	0.0995
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	320.00	0.2231	0.0122	0.0986	0.0993
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	160.00	0.0357	0.0164	0.0305	0.0342
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	170.00	0.0413	0.0164	0.0333	0.0364
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	265.00	0.1325	0.0158	0.0807	0.0822
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	270.00	0.1396	0.0157	0.0837	0.0852
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	274.00	0.1457	0.0154	0.0890	0.0893
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	295.00	0.1802	0.0137	0.0987	0.0996
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	300.00	0.1886	0.0132	0.0983	0.0992

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	304.00	0.1955	0.0129	0.0986	0.0992
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	312.00	0.2093	0.0124	0.0988	0.0994
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	320.00	0.223	0.0122	0.0986	0.0993
1.2D + 1.0Ev + 1.0Eh 330° Seismic	160.00	0.0358	-0.0190	0.0307	0.0354
1.2D + 1.0Ev + 1.0Eh 330° Seismic	170.00	0.0413	-0.0191	0.0333	0.0375
1.2D + 1.0Ev + 1.0Eh 330° Seismic	265.00	0.1329	-0.0184	0.0815	0.0827
1.2D + 1.0Ev + 1.0Eh 330° Seismic	270.00	0.14	-0.0183	0.0844	0.0858
1.2D + 1.0Ev + 1.0Eh 330° Seismic	274.00	0.1462	-0.0179	0.0893	0.0902
1.2D + 1.0Ev + 1.0Eh 330° Seismic	295.00	0.1808	-0.0159	0.0991	0.1003
1.2D + 1.0Ev + 1.0Eh 330° Seismic	300.00	0.1893	-0.0153	0.0992	0.0997
1.2D + 1.0Ev + 1.0Eh 330° Seismic	304.00	0.1962	-0.0150	0.0991	0.1
1.2D + 1.0Ev + 1.0Eh 330° Seismic	312.00	0.21	-0.0144	0.0992	0.1001
1.2D + 1.0Ev + 1.0Eh 330° Seismic	320.00	0.2239	-0.0142	0.0990	0.0999
1.2D + 1.0Ev + 1.0Eh 300° Seismic	160.00	0.0356	0.0165	0.0309	0.0343
1.2D + 1.0Ev + 1.0Eh 300° Seismic	170.00	0.0412	0.0165	0.0336	0.0364
1.2D + 1.0Ev + 1.0Eh 300° Seismic	265.00	0.1328	0.0159	0.0817	0.082
1.2D + 1.0Ev + 1.0Eh 300° Seismic	270.00	0.14	0.0158	0.0846	0.0853
1.2D + 1.0Ev + 1.0Eh 300° Seismic	274.00	0.1461	0.0155	0.0888	0.0902
1.2D + 1.0Ev + 1.0Eh 300° Seismic	295.00	0.1808	0.0138	0.0991	0.0994
1.2D + 1.0Ev + 1.0Eh 300° Seismic	300.00	0.1893	0.0133	0.0993	0.0993
1.2D + 1.0Ev + 1.0Eh 300° Seismic	304.00	0.1962	0.0130	0.0990	0.0998
1.2D + 1.0Ev + 1.0Eh 300° Seismic	312.00	0.21	0.0125	0.0992	0.0999
1.2D + 1.0Ev + 1.0Eh 300° Seismic	320.00	0.2239	0.0123	0.0990	0.0997
1.2D + 1.0Ev + 1.0Eh 240° Seismic	160.00	0.0359	0.0165	0.0306	0.0344
1.2D + 1.0Ev + 1.0Eh 240° Seismic	170.00	0.0414	0.0165	0.0334	0.0366
1.2D + 1.0Ev + 1.0Eh 240° Seismic	265.00	0.1329	0.0159	0.0811	0.0826
1.2D + 1.0Ev + 1.0Eh 240° Seismic	270.00	0.14	0.0158	0.0841	0.0856
1.2D + 1.0Ev + 1.0Eh 240° Seismic	274.00	0.1462	0.0155	0.0895	0.0896
1.2D + 1.0Ev + 1.0Eh 240° Seismic	295.00	0.1809	0.0138	0.0992	0.1002
1.2D + 1.0Ev + 1.0Eh 240° Seismic	300.00	0.1893	0.0133	0.0989	0.0997
1.2D + 1.0Ev + 1.0Eh 240° Seismic	304.00	0.1962	0.0129	0.0991	0.0996
1.2D + 1.0Ev + 1.0Eh 240° Seismic	312.00	0.21	0.0125	0.0992	0.0998
1.2D + 1.0Ev + 1.0Eh 240° Seismic	320.00	0.2239	0.0123	0.0990	0.0997
1.2D + 1.0Ev + 1.0Eh 210° Seismic	160.00	0.0358	-0.0190	0.0307	0.0354
1.2D + 1.0Ev + 1.0Eh 210° Seismic	170.00	0.0413	-0.0191	0.0333	0.0375
1.2D + 1.0Ev + 1.0Eh 210° Seismic	265.00	0.1329	-0.0184	0.0815	0.0827
1.2D + 1.0Ev + 1.0Eh 210° Seismic	270.00	0.14	-0.0183	0.0844	0.0858
1.2D + 1.0Ev + 1.0Eh 210° Seismic	274.00	0.1462	-0.0179	0.0893	0.0902
1.2D + 1.0Ev + 1.0Eh 210° Seismic	295.00	0.1808	-0.0159	0.0991	0.1003
1.2D + 1.0Ev + 1.0Eh 210° Seismic	300.00	0.1893	-0.0153	0.0992	0.0997
1.2D + 1.0Ev + 1.0Eh 210° Seismic	304.00	0.1962	-0.0150	0.0991	0.1
1.2D + 1.0Ev + 1.0Eh 210° Seismic	312.00	0.21	-0.0144	0.0992	0.1001
1.2D + 1.0Ev + 1.0Eh 210° Seismic	320.00	0.2239	-0.0142	0.0990	0.0999
1.2D + 1.0Ev + 1.0Eh 180° Seismic	160.00	0.0356	0.0165	0.0309	0.0343
1.2D + 1.0Ev + 1.0Eh 180° Seismic	170.00	0.0412	0.0165	0.0336	0.0364
1.2D + 1.0Ev + 1.0Eh 180° Seismic	265.00	0.1328	0.0159	0.0817	0.082
1.2D + 1.0Ev + 1.0Eh 180° Seismic	270.00	0.14	0.0158	0.0846	0.0853
1.2D + 1.0Ev + 1.0Eh 180° Seismic	274.00	0.1461	0.0155	0.0888	0.0902
1.2D + 1.0Ev + 1.0Eh 180° Seismic	295.00	0.1808	0.0138	0.0991	0.0994
1.2D + 1.0Ev + 1.0Eh 180° Seismic	300.00	0.1893	0.0133	0.0993	0.0993
1.2D + 1.0Ev + 1.0Eh 180° Seismic	304.00	0.1962	0.0130	0.0990	0.0998
1.2D + 1.0Ev + 1.0Eh 180° Seismic	312.00	0.21	0.0125	0.0992	0.0999
1.2D + 1.0Ev + 1.0Eh 180° Seismic	320.00	0.2239	0.0123	0.0990	0.0997
1.2D + 1.0Ev + 1.0Eh 120° Seismic	160.00	0.0359	0.0165	0.0306	0.0344
1.2D + 1.0Ev + 1.0Eh 120° Seismic	170.00	0.0414	0.0165	0.0334	0.0366
1.2D + 1.0Ev + 1.0Eh 120° Seismic	265.00	0.1329	0.0159	0.0811	0.0826
1.2D + 1.0Ev + 1.0Eh 120° Seismic	270.00	0.14	0.0158	0.0841	0.0856
1.2D + 1.0Ev + 1.0Eh 120° Seismic	274.00	0.1462	0.0155	0.0895	0.0896
1.2D + 1.0Ev + 1.0Eh 120° Seismic	295.00	0.1809	0.0138	0.0992	0.1002

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh 120° Seismic	300.00	0.1893	0.0133	0.0989	0.0997
1.2D + 1.0Ev + 1.0Eh 120° Seismic	304.00	0.1962	0.0129	0.0991	0.0996
1.2D + 1.0Ev + 1.0Eh 120° Seismic	312.00	0.21	0.0125	0.0992	0.0998
1.2D + 1.0Ev + 1.0Eh 120° Seismic	320.00	0.2239	0.0123	0.0990	0.0997
1.2D + 1.0Ev + 1.0Eh 90° Seismic	160.00	0.0358	-0.0190	0.0307	0.0354
1.2D + 1.0Ev + 1.0Eh 90° Seismic	170.00	0.0413	-0.0191	0.0333	0.0375
1.2D + 1.0Ev + 1.0Eh 90° Seismic	265.00	0.1329	-0.0184	0.0815	0.0827
1.2D + 1.0Ev + 1.0Eh 90° Seismic	270.00	0.14	-0.0183	0.0844	0.0858
1.2D + 1.0Ev + 1.0Eh 90° Seismic	274.00	0.1462	-0.0179	0.0893	0.0902
1.2D + 1.0Ev + 1.0Eh 90° Seismic	295.00	0.1808	-0.0159	0.0991	0.1003
1.2D + 1.0Ev + 1.0Eh 90° Seismic	300.00	0.1893	-0.0153	0.0992	0.0997
1.2D + 1.0Ev + 1.0Eh 90° Seismic	304.00	0.1962	-0.0150	0.0991	0.1
1.2D + 1.0Ev + 1.0Eh 90° Seismic	312.00	0.21	-0.0144	0.0992	0.1001
1.2D + 1.0Ev + 1.0Eh 90° Seismic	320.00	0.2239	-0.0142	0.0990	0.0999
1.2D + 1.0Ev + 1.0Eh 60° Seismic	160.00	0.0356	0.0165	0.0309	0.0343
1.2D + 1.0Ev + 1.0Eh 60° Seismic	170.00	0.0412	0.0165	0.0336	0.0364
1.2D + 1.0Ev + 1.0Eh 60° Seismic	265.00	0.1328	0.0159	0.0817	0.082
1.2D + 1.0Ev + 1.0Eh 60° Seismic	270.00	0.14	0.0158	0.0846	0.0853
1.2D + 1.0Ev + 1.0Eh 60° Seismic	274.00	0.1461	0.0155	0.0888	0.0902
1.2D + 1.0Ev + 1.0Eh 60° Seismic	295.00	0.1808	0.0138	0.0991	0.0994
1.2D + 1.0Ev + 1.0Eh 60° Seismic	300.00	0.1893	0.0133	0.0993	0.0993
1.2D + 1.0Ev + 1.0Eh 60° Seismic	304.00	0.1962	0.0130	0.0990	0.0998
1.2D + 1.0Ev + 1.0Eh 60° Seismic	312.00	0.21	0.0125	0.0992	0.0999
1.2D + 1.0Ev + 1.0Eh 60° Seismic	320.00	0.2239	0.0123	0.0990	0.0997
1.2D + 1.0Ev + 1.0Eh Normal Seismic	160.00	0.0359	0.0165	0.0306	0.0344
1.2D + 1.0Ev + 1.0Eh Normal Seismic	170.00	0.0414	0.0165	0.0334	0.0366
1.2D + 1.0Ev + 1.0Eh Normal Seismic	265.00	0.1329	0.0159	0.0811	0.0826
1.2D + 1.0Ev + 1.0Eh Normal Seismic	270.00	0.14	0.0158	0.0841	0.0856
1.2D + 1.0Ev + 1.0Eh Normal Seismic	274.00	0.1462	0.0155	0.0895	0.0896
1.2D + 1.0Ev + 1.0Eh Normal Seismic	295.00	0.1809	0.0138	0.0992	0.1002
1.2D + 1.0Ev + 1.0Eh Normal Seismic	300.00	0.1893	0.0133	0.0989	0.0997
1.2D + 1.0Ev + 1.0Eh Normal Seismic	304.00	0.1962	0.0129	0.0991	0.0996
1.2D + 1.0Ev + 1.0Eh Normal Seismic	312.00	0.21	0.0125	0.0992	0.0998
1.2D + 1.0Ev + 1.0Eh Normal Seismic	320.00	0.2239	0.0123	0.0990	0.0997
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	160.00	0.0916	-0.1414	0.0706	0.1556
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	170.00	0.1047	-0.1410	0.0757	0.1571
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	265.00	0.3032	-0.1265	0.1675	0.2052
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	270.00	0.3183	-0.1253	0.1741	0.2113
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	274.00	0.3305	-0.1232	0.1833	0.2199
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	295.00	0.4007	-0.1124	0.2001	0.229
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	300.00	0.4183	-0.1093	0.2006	0.2278
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	304.00	0.4322	-0.1071	0.2007	0.2271
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	312.00	0.4603	-0.1039	0.2001	0.2253
1.2D + 1.0Di + 1.0Wi 330° 37 mph Wind with 0.63" Radial Ice	320.00	0.4884	-0.1025	0.1982	0.2231
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	160.00	0.0911	-0.1226	0.0717	0.1392
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	170.00	0.104	-0.1223	0.0771	0.1413
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	265.00	0.3006	-0.1093	0.1682	0.1952
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	270.00	0.3155	-0.1082	0.1733	0.2004
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	274.00	0.3277	-0.1064	0.1797	0.2087
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	295.00	0.3972	0.0971	0.1982	0.2195
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	300.00	0.4146	0.0947	0.1989	0.2193
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	304.00	0.4284	0.0931	0.1990	0.2196
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	312.00	0.4563	0.0909	0.2012	0.2208
1.2D + 1.0Di + 1.0Wi 300° 37 mph Wind with 0.63" Radial Ice	320.00	0.4842	0.0899	0.2034	0.2224
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	160.00	0.0933	-0.1223	0.0736	0.1403
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	170.00	0.1068	-0.1219	0.0798	0.1424
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	265.00	0.3104	-0.1091	0.1710	0.2003
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	270.00	0.3259	-0.1080	0.1763	0.2057
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	274.00	0.3383	-0.1063	0.1857	0.2124

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	295.00	0.4099	-0.0978	0.2039	0.2261
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	300.00	0.4278	-0.0953	0.2041	0.2252
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	304.00	0.442	-0.0937	0.2049	0.2246
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	312.00	0.4707	-0.0915	0.2070	0.2259
1.2D + 1.0Di + 1.0Wi 240° 37 mph Wind with 0.63" Radial Ice	320.00	0.4993	-0.0906	0.2092	0.2277
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	160.00	0.0916	-0.1414	0.0705	0.1555
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	170.00	0.1047	-0.1410	0.0757	0.1571
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	265.00	0.3028	-0.1266	0.1671	0.2049
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	270.00	0.3179	-0.1253	0.1736	0.2109
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	274.00	0.3301	-0.1233	0.1827	0.2194
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	295.00	0.3999	-0.1133	0.1988	0.2285
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	300.00	0.4173	-0.1105	0.1994	0.2272
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	304.00	0.4312	-0.1086	0.1995	0.2266
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	312.00	0.4591	-0.1060	0.1988	0.225
1.2D + 1.0Di + 1.0Wi 210° 37 mph Wind with 0.63" Radial Ice	320.00	0.487	-0.1048	0.1971	0.223
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	160.00	0.0914	0.1232	0.0720	0.1399
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	170.00	0.1044	0.1230	0.0774	0.1421
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	265.00	0.3018	0.1136	0.1683	0.1975
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	270.00	0.3168	0.1127	0.1746	0.2039
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	274.00	0.3291	0.1113	0.1828	0.214
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	295.00	0.3987	0.1041	0.1986	0.223
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	300.00	0.4162	0.1021	0.1993	0.2228
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	304.00	0.43	0.1007	0.1989	0.2229
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	312.00	0.4579	0.0987	0.1969	0.2203
1.2D + 1.0Di + 1.0Wi 180° 37 mph Wind with 0.63" Radial Ice	320.00	0.4858	0.0978	0.1933	0.2163
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	160.00	0.0933	0.1223	0.0736	0.1403
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	170.00	0.1068	0.1219	0.0798	0.1424
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	265.00	0.3106	0.1091	0.1713	0.2005
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	270.00	0.3261	0.1081	0.1766	0.206
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	274.00	0.3386	0.1063	0.1861	0.2127
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	295.00	0.4104	0.0978	0.2046	0.2267
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	300.00	0.4284	0.0954	0.2049	0.2259
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	304.00	0.4426	0.0938	0.2056	0.2253
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	312.00	0.4713	0.0915	0.2078	0.2266
1.2D + 1.0Di + 1.0Wi 120° 37 mph Wind with 0.63" Radial Ice	320.00	0.5001	0.0906	0.2100	0.2285
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	160.00	0.092	-0.1417	0.0709	0.156
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	170.00	0.1051	-0.1414	0.0761	0.1576
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	265.00	0.3047	-0.1287	0.1692	0.2079
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	270.00	0.3199	-0.1277	0.1746	0.2132
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	274.00	0.3322	-0.1261	0.1822	0.2207
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	295.00	0.4029	-0.1180	0.2017	0.2334
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	300.00	0.4206	-0.1157	0.2023	0.2325
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	304.00	0.4347	-0.1141	0.2029	0.2322
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	312.00	0.463	-0.1118	0.2064	0.2345
1.2D + 1.0Di + 1.0Wi 90° 37 mph Wind with 0.63" Radial Ice	320.00	0.4914	-0.1108	0.2105	0.2379
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	160.00	0.0911	0.1226	0.0717	0.1392
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	170.00	0.1041	0.1222	0.0771	0.1413
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	265.00	0.3008	0.1093	0.1685	0.1954
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	270.00	0.3158	0.1082	0.1736	0.2007
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	274.00	0.328	0.1064	0.1800	0.2091
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	295.00	0.3976	-0.0971	0.1989	0.2201
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	300.00	0.4151	-0.0947	0.1997	0.22
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	304.00	0.429	-0.0931	0.1997	0.2203
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	312.00	0.4569	-0.0909	0.2020	0.2215
1.2D + 1.0Di + 1.0Wi 60° 37 mph Wind with 0.63" Radial Ice	320.00	0.485	-0.0900	0.2041	0.2231
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	160.00	0.0937	0.1229	0.0740	0.141
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	170.00	0.1073	-0.1227	0.0802	0.1432
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	265.00	0.3123	0.1134	0.1719	0.2032
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	270.00	0.3279	0.1125	0.1785	0.2099

ASSET: 21274, SPOUT SPRINGS NC1

CODE: ANSI/TIA-222-I

CUSTOMER: AT&T MOBILITY

PROJECT: 14884053_C3_02

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	274.00	0.3405	0.1111	0.1900	0.2185
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	295.00	0.4129	0.1039	0.2064	0.2311
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	300.00	0.431	-0.1019	0.2068	0.2305
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	304.00	0.4454	0.1005	0.2071	0.2296
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	312.00	0.4744	-0.0985	0.2051	0.2271
1.2D + 1.0Di + 1.0Wi Normal 37 mph Wind with 0.63" Radial Ice	320.00	0.5034	0.0976	0.2011	0.2236
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	160.00	0.5408	-0.7781	0.4229	0.8717
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	170.00	0.6196	-0.7786	0.4553	0.8843
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	265.00	1.8247	-0.7833	1.0189	1.2611
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	270.00	1.9164	-0.7833	1.0622	1.305
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	274.00	1.9927	-0.7819	1.1229	1.3663
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	295.00	2.4257	-0.7607	1.2354	1.4509
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	300.00	2.5336	-0.7527	1.2383	1.4489
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	304.00	2.6201	-0.7465	1.2408	1.4471
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	312.00	2.7939	-0.7343	1.2386	1.439
0.9D + 1.0W 330° 117 mph Wind with No Ice (Reduced DL)	320.00	2.968	-0.7276	1.2274	1.4261
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	160.00	0.5323	-0.6793	0.4250	0.7862
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	170.00	0.6096	-0.6797	0.4589	0.8007
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	265.00	1.7965	-0.6792	1.0176	1.1981
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	270.00	1.8865	-0.6792	1.0496	1.2344
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	274.00	1.9621	-0.6778	1.0935	1.2852
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	295.00	2.3889	0.6941	1.2180	1.4019
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	300.00	2.4952	0.7010	1.2221	1.4089
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	304.00	2.5806	0.7066	1.2259	1.4136
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	312.00	2.7521	0.7175	1.2406	1.433
0.9D + 1.0W 300° 117 mph Wind with No Ice (Reduced DL)	320.00	2.924	0.7236	1.2569	1.4503
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	160.00	0.5684	-0.6690	0.4534	0.7925
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	170.00	0.6506	-0.6696	0.4888	0.8093
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	265.00	1.9099	-0.6771	1.0759	1.2473
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	270.00	2.0062	-0.6773	1.1097	1.2856
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	274.00	2.0851	-0.6782	1.1582	1.3393
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	295.00	2.5371	-0.6966	1.2880	1.4641
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	300.00	2.6499	-0.7038	1.2926	1.4713
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	304.00	2.7401	-0.7096	1.2970	1.4771
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	312.00	2.9216	-0.7212	1.3118	1.4965
0.9D + 1.0W 240° 117 mph Wind with No Ice (Reduced DL)	320.00	3.1035	-0.7277	1.3268	1.5128
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	160.00	0.5408	-0.7787	0.4230	0.8723
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	170.00	0.6195	-0.7794	0.4554	0.885
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	265.00	1.8245	-0.7895	1.0193	1.2647
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	270.00	1.9162	-0.7895	1.0625	1.3086
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	274.00	1.9925	-0.7900	1.1231	1.3709
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	295.00	2.4253	-0.8072	1.2358	1.476
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	300.00	2.5332	-0.8141	1.2382	1.4816
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	304.00	2.6196	-0.8196	1.2407	1.4859
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	312.00	2.7934	-0.8307	1.2380	1.4906
0.9D + 1.0W 210° 117 mph Wind with No Ice (Reduced DL)	320.00	2.9675	-0.8368	1.2273	1.4854
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	160.00	0.5323	0.6806	0.4250	0.7873
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	170.00	0.6096	0.6813	0.4588	0.8021
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	265.00	1.7964	0.6904	1.0121	1.1993
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	270.00	1.8864	0.6901	1.0545	1.2444
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	274.00	1.962	0.6895	1.1132	1.3088
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	295.00	2.3885	0.6877	1.2161	1.3969
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	300.00	2.4946	0.6873	1.2202	1.3999
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	304.00	2.5799	0.6870	1.2214	1.4011
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	312.00	2.751	0.6865	1.2104	1.3913
0.9D + 1.0W 180° 117 mph Wind with No Ice (Reduced DL)	320.00	2.9224	0.6863	1.1852	1.3694
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	160.00	0.5684	0.6691	0.4534	0.7926
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	170.00	0.6506	0.6697	0.4888	0.8094
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	265.00	1.91	0.6773	1.0759	1.2474

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	270.00	2.0064	0.6776	1.1098	1.2857
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	274.00	2.0853	0.6785	1.1583	1.3393
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	295.00	2.5373	0.6968	1.2884	1.4641
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	300.00	2.6502	0.7040	1.2929	1.4715
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	304.00	2.7404	0.7098	1.2971	1.4774
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	312.00	2.922	0.7215	1.3119	1.4968
0.9D + 1.0W 120° 117 mph Wind with No Ice (Reduced DL)	320.00	3.1039	0.7280	1.3270	1.5131
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	160.00	0.5407	-0.7761	0.4230	0.8701
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	170.00	0.6195	-0.7764	0.4554	0.8824
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	265.00	1.8245	-0.7712	1.0248	1.2591
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	270.00	1.9162	-0.7714	1.0573	1.2946
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	274.00	1.9925	-0.7713	1.1025	1.3439
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	295.00	2.4255	-0.7694	1.2380	1.4576
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	300.00	2.5336	-0.7689	1.2405	1.4595
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	304.00	2.6201	-0.7685	1.2447	1.4611
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	312.00	2.7944	-0.7680	1.2681	1.482
0.9D + 1.0W 90° 117 mph Wind with No Ice (Reduced DL)	320.00	2.969	-0.7677	1.2970	1.5072
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	160.00	0.5323	0.6792	0.4250	0.7861
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	170.00	0.6097	0.6796	0.4589	0.8006
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	265.00	1.7966	0.6790	1.0177	1.1981
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	270.00	1.8866	0.6790	1.0497	1.2344
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	274.00	1.9622	0.6776	1.0936	1.2853
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	295.00	2.389	-0.6943	1.2180	1.402
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	300.00	2.4953	-0.7012	1.2222	1.409
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	304.00	2.5807	-0.7068	1.2261	1.4138
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	312.00	2.7523	-0.7178	1.2408	1.4333
0.9D + 1.0W 60° 117 mph Wind with No Ice (Reduced DL)	320.00	2.9242	-0.7238	1.2571	1.4506
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	160.00	0.5684	-0.6696	0.4534	0.793
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	170.00	0.6506	-0.6703	0.4888	0.8099
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	265.00	1.9099	-0.6818	1.0705	1.245
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	270.00	2.0062	-0.6819	1.1149	1.2924
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	274.00	2.0851	-0.6816	1.1783	1.3591
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	295.00	2.5369	-0.6799	1.2870	1.4554
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	300.00	2.6496	-0.6794	1.2911	1.4588
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	304.00	2.7396	-0.6790	1.2930	1.4598
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	312.00	2.9209	-0.6786	1.2821	1.45
0.9D + 1.0W Normal 117 mph Wind with No Ice (Reduced DL)	320.00	3.1024	-0.6783	1.2564	1.4278
1.2D + 1.0W 330° 117 mph Wind with No Ice	160.00	0.5418	-0.7809	0.4240	0.8747
1.2D + 1.0W 330° 117 mph Wind with No Ice	170.00	0.6208	-0.7815	0.4565	0.8873
1.2D + 1.0W 330° 117 mph Wind with No Ice	265.00	1.8297	-0.7863	1.0228	1.2658
1.2D + 1.0W 330° 117 mph Wind with No Ice	270.00	1.9218	-0.7862	1.0663	1.3099
1.2D + 1.0W 330° 117 mph Wind with No Ice	274.00	1.9984	-0.7849	1.1273	1.3714
1.2D + 1.0W 330° 117 mph Wind with No Ice	295.00	2.4331	-0.7636	1.2403	1.4565
1.2D + 1.0W 330° 117 mph Wind with No Ice	300.00	2.5414	-0.7556	1.2432	1.4545
1.2D + 1.0W 330° 117 mph Wind with No Ice	304.00	2.6282	-0.7493	1.2456	1.4527
1.2D + 1.0W 330° 117 mph Wind with No Ice	312.00	2.8027	-0.7371	1.2435	1.4447
1.2D + 1.0W 330° 117 mph Wind with No Ice	320.00	2.9775	-0.7304	1.2322	1.4318
1.2D + 1.0W 300° 117 mph Wind with No Ice	160.00	0.5333	-0.6820	0.4261	0.789
1.2D + 1.0W 300° 117 mph Wind with No Ice	170.00	0.6109	-0.6824	0.4601	0.8036
1.2D + 1.0W 300° 117 mph Wind with No Ice	265.00	1.8015	-0.6820	1.0215	1.2026
1.2D + 1.0W 300° 117 mph Wind with No Ice	270.00	1.8919	-0.6820	1.0536	1.239
1.2D + 1.0W 300° 117 mph Wind with No Ice	274.00	1.9677	-0.6806	1.0974	1.2902
1.2D + 1.0W 300° 117 mph Wind with No Ice	295.00	2.3961	0.6970	1.2226	1.4073
1.2D + 1.0W 300° 117 mph Wind with No Ice	300.00	2.5028	0.7039	1.2268	1.4144
1.2D + 1.0W 300° 117 mph Wind with No Ice	304.00	2.5885	0.7095	1.2306	1.4192
1.2D + 1.0W 300° 117 mph Wind with No Ice	312.00	2.7607	0.7205	1.2453	1.4387
1.2D + 1.0W 300° 117 mph Wind with No Ice	320.00	2.9334	0.7266	1.2617	1.456
1.2D + 1.0W 240° 117 mph Wind with No Ice	160.00	0.5695	-0.6712	0.4545	0.795
1.2D + 1.0W 240° 117 mph Wind with No Ice	170.00	0.652	-0.6718	0.4901	0.8118

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 240° 117 mph Wind with No Ice	265.00	1.9152	-0.6794	1.0796	1.2518
1.2D + 1.0W 240° 117 mph Wind with No Ice	270.00	2.0119	-0.6797	1.1136	1.2904
1.2D + 1.0W 240° 117 mph Wind with No Ice	274.00	2.091	-0.6806	1.1627	1.3442
1.2D + 1.0W 240° 117 mph Wind with No Ice	295.00	2.5447	-0.6990	1.2931	1.4697
1.2D + 1.0W 240° 117 mph Wind with No Ice	300.00	2.658	-0.7063	1.2976	1.4769
1.2D + 1.0W 240° 117 mph Wind with No Ice	304.00	2.7485	-0.7121	1.3020	1.4826
1.2D + 1.0W 240° 117 mph Wind with No Ice	312.00	2.9307	-0.7238	1.3168	1.5021
1.2D + 1.0W 240° 117 mph Wind with No Ice	320.00	3.1133	-0.7303	1.3319	1.5184
1.2D + 1.0W 210° 117 mph Wind with No Ice	160.00	0.5418	-0.7816	0.4241	0.8753
1.2D + 1.0W 210° 117 mph Wind with No Ice	170.00	0.6208	-0.7823	0.4566	0.888
1.2D + 1.0W 210° 117 mph Wind with No Ice	265.00	1.8295	-0.7925	1.0232	1.2694
1.2D + 1.0W 210° 117 mph Wind with No Ice	270.00	1.9216	-0.7924	1.0665	1.3134
1.2D + 1.0W 210° 117 mph Wind with No Ice	274.00	1.9982	-0.7930	1.1274	1.376
1.2D + 1.0W 210° 117 mph Wind with No Ice	295.00	2.4326	-0.8102	1.2405	1.4817
1.2D + 1.0W 210° 117 mph Wind with No Ice	300.00	2.5409	-0.8172	1.2431	1.4872
1.2D + 1.0W 210° 117 mph Wind with No Ice	304.00	2.6277	-0.8227	1.2455	1.4916
1.2D + 1.0W 210° 117 mph Wind with No Ice	312.00	2.8021	-0.8338	1.2429	1.4964
1.2D + 1.0W 210° 117 mph Wind with No Ice	320.00	2.9768	-0.8400	1.2321	1.4912
1.2D + 1.0W 180° 117 mph Wind with No Ice	160.00	0.5333	0.6834	0.4261	0.7901
1.2D + 1.0W 180° 117 mph Wind with No Ice	170.00	0.6108	0.6841	0.4600	0.805
1.2D + 1.0W 180° 117 mph Wind with No Ice	265.00	1.8013	0.6932	1.0159	1.2038
1.2D + 1.0W 180° 117 mph Wind with No Ice	270.00	1.8917	0.6929	1.0586	1.2491
1.2D + 1.0W 180° 117 mph Wind with No Ice	274.00	1.9676	0.6923	1.1172	1.3139
1.2D + 1.0W 180° 117 mph Wind with No Ice	295.00	2.3956	0.6905	1.2207	1.4023
1.2D + 1.0W 180° 117 mph Wind with No Ice	300.00	2.5022	0.6901	1.2250	1.4053
1.2D + 1.0W 180° 117 mph Wind with No Ice	304.00	2.5878	0.6898	1.2260	1.4066
1.2D + 1.0W 180° 117 mph Wind with No Ice	312.00	2.7596	0.6893	1.2150	1.3968
1.2D + 1.0W 180° 117 mph Wind with No Ice	320.00	2.9317	0.6891	1.1899	1.3748
1.2D + 1.0W 120° 117 mph Wind with No Ice	160.00	0.5695	0.6713	0.4545	0.7951
1.2D + 1.0W 120° 117 mph Wind with No Ice	170.00	0.652	0.6719	0.4901	0.8119
1.2D + 1.0W 120° 117 mph Wind with No Ice	265.00	1.9153	0.6796	1.0797	1.2519
1.2D + 1.0W 120° 117 mph Wind with No Ice	270.00	2.012	0.6799	1.1137	1.2905
1.2D + 1.0W 120° 117 mph Wind with No Ice	274.00	2.0912	0.6808	1.1628	1.3442
1.2D + 1.0W 120° 117 mph Wind with No Ice	295.00	2.545	0.6993	1.2935	1.4697
1.2D + 1.0W 120° 117 mph Wind with No Ice	300.00	2.6583	0.7065	1.2980	1.4771
1.2D + 1.0W 120° 117 mph Wind with No Ice	304.00	2.7488	0.7123	1.3022	1.483
1.2D + 1.0W 120° 117 mph Wind with No Ice	312.00	2.9311	0.7240	1.3170	1.5025
1.2D + 1.0W 120° 117 mph Wind with No Ice	320.00	3.1138	0.7305	1.3321	1.5188
1.2D + 1.0W 90° 117 mph Wind with No Ice	160.00	0.5418	-0.7790	0.4241	0.8731
1.2D + 1.0W 90° 117 mph Wind with No Ice	170.00	0.6207	-0.7793	0.4566	0.8854
1.2D + 1.0W 90° 117 mph Wind with No Ice	265.00	1.8296	-0.7741	1.0287	1.2638
1.2D + 1.0W 90° 117 mph Wind with No Ice	270.00	1.9216	-0.7744	1.0614	1.2995
1.2D + 1.0W 90° 117 mph Wind with No Ice	274.00	1.9982	-0.7743	1.1069	1.3491
1.2D + 1.0W 90° 117 mph Wind with No Ice	295.00	2.4329	-0.7724	1.2429	1.4633
1.2D + 1.0W 90° 117 mph Wind with No Ice	300.00	2.5414	-0.7718	1.2453	1.4651
1.2D + 1.0W 90° 117 mph Wind with No Ice	304.00	2.6283	-0.7715	1.2497	1.4667
1.2D + 1.0W 90° 117 mph Wind with No Ice	312.00	2.8032	-0.7709	1.2731	1.4877
1.2D + 1.0W 90° 117 mph Wind with No Ice	320.00	2.9785	-0.7707	1.3019	1.5129
1.2D + 1.0W 60° 117 mph Wind with No Ice	160.00	0.5333	0.6820	0.4262	0.7889
1.2D + 1.0W 60° 117 mph Wind with No Ice	170.00	0.6109	0.6823	0.4601	0.8035
1.2D + 1.0W 60° 117 mph Wind with No Ice	265.00	1.8015	0.6818	1.0216	1.2026
1.2D + 1.0W 60° 117 mph Wind with No Ice	270.00	1.8919	0.6818	1.0537	1.2391
1.2D + 1.0W 60° 117 mph Wind with No Ice	274.00	1.9678	0.6804	1.0976	1.2904
1.2D + 1.0W 60° 117 mph Wind with No Ice	295.00	2.3962	-0.6972	1.2227	1.4075
1.2D + 1.0W 60° 117 mph Wind with No Ice	300.00	2.503	-0.7041	1.2269	1.4146
1.2D + 1.0W 60° 117 mph Wind with No Ice	304.00	2.5887	-0.7097	1.2309	1.4195
1.2D + 1.0W 60° 117 mph Wind with No Ice	312.00	2.761	-0.7207	1.2456	1.439
1.2D + 1.0W 60° 117 mph Wind with No Ice	320.00	2.9336	-0.7268	1.2619	1.4563
1.2D + 1.0W Normal 117 mph Wind with No Ice	160.00	0.5695	-0.6715	0.4545	0.7952

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W Normal 117 mph Wind with No Ice	170.00	0.652	-0.6722	0.4901	0.8121
1.2D + 1.0W Normal 117 mph Wind with No Ice	265.00	1.9153	-0.6838	1.0743	1.2494
1.2D + 1.0W Normal 117 mph Wind with No Ice	270.00	2.0119	-0.6839	1.1188	1.297
1.2D + 1.0W Normal 117 mph Wind with No Ice	274.00	2.0911	-0.6836	1.1829	1.3638
1.2D + 1.0W Normal 117 mph Wind with No Ice	295.00	2.5446	-0.6819	1.2922	1.4609
1.2D + 1.0W Normal 117 mph Wind with No Ice	300.00	2.6578	-0.6813	1.2962	1.4642
1.2D + 1.0W Normal 117 mph Wind with No Ice	304.00	2.7482	-0.6810	1.2982	1.4652
1.2D + 1.0W Normal 117 mph Wind with No Ice	312.00	2.9301	-0.6805	1.2873	1.4555
1.2D + 1.0W Normal 117 mph Wind with No Ice	320.00	3.1123	-0.6803	1.2616	1.4333

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

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	21.12	0.00	0	1	0.00	383.75	-40.79
	21.12	0.00	120	1a	12.02	-143.87	-11.87
	21.12	0.00	240	1b	-12.02	-143.88	-11.87
1.2D + 1.0W 60°	21.12	0.00	0	1	-3.82	196.63	-20.77
	21.12	0.00	120	1a	-19.89	196.63	7.08
	21.12	0.00	240	1b	-28.91	-297.27	-16.69
1.2D + 1.0W 90°	21.12	0.00	0	1	-4.61	32.00	-2.86
	21.12	0.00	120	1a	-30.77	322.03	15.26
	21.12	0.00	240	1b	-26.32	-258.03	-12.40
1.2D + 1.0W 120°	21.12	0.00	0	1	-4.28	-143.88	16.35
	21.12	0.00	120	1a	-35.33	383.76	20.41
	21.12	0.00	240	1b	-16.29	-143.89	-4.47
1.2D + 1.0W 180°	21.12	0.00	0	1	0.00	-297.25	33.38
	21.12	0.00	120	1a	-16.08	196.63	13.69
	21.12	0.00	240	1b	16.08	196.62	13.69
1.2D + 1.0W 210°	21.12	0.00	0	1	2.43	-258.01	29.00
	21.12	0.00	120	1a	-0.17	31.99	5.42
	21.12	0.00	240	1b	28.60	322.02	19.03
1.2D + 1.0W 240°	21.12	0.00	0	1	4.28	-143.88	16.35
	21.12	0.00	120	1a	16.30	-143.89	-4.47
	21.12	0.00	240	1b	35.33	383.76	20.40
1.2D + 1.0W 300°	21.12	0.00	0	1	3.82	196.63	-20.77
	21.12	0.00	120	1a	28.91	-297.26	-16.70
	21.12	0.00	240	1b	19.89	196.63	7.08
1.2D + 1.0W 330°	21.12	0.00	0	1	2.18	322.03	-34.28
	21.12	0.00	120	1a	23.90	-258.02	-16.61
	21.12	0.00	240	1b	4.78	31.99	-2.56
0.9D + 1.0W Normal	21.12	0.00	0	1	0.00	375.23	-40.08
	21.12	0.00	120	1a	12.62	-151.61	-12.24
	21.12	0.00	240	1b	-12.62	-151.62	-12.24
0.9D + 1.0W 60°	21.12	0.00	0	1	-3.83	188.38	-20.05
	21.12	0.00	120	1a	-19.28	188.38	6.71
	21.12	0.00	240	1b	-29.51	-304.76	-17.04
0.9D + 1.0W 90°	21.12	0.00	0	1	-4.63	24.00	-2.15
	21.12	0.00	120	1a	-30.15	313.58	14.89
	21.12	0.00	240	1b	-26.93	-265.58	-12.74
0.9D + 1.0W 120°	21.12	0.00	0	1	-4.30	-151.61	17.05
	21.12	0.00	120	1a	-34.71	375.23	20.04
	21.12	0.00	240	1b	-16.91	-151.62	-4.81
0.9D + 1.0W 180°	21.12	0.00	0	1	0.00	-304.75	34.07
	21.12	0.00	120	1a	-15.45	188.38	13.35
	21.12	0.00	240	1b	15.45	188.37	13.34
0.9D + 1.0W 210°	21.12	0.00	0	1	2.44	-265.57	29.69
	21.12	0.00	120	1a	0.45	23.99	5.08
	21.12	0.00	240	1b	27.97	313.58	18.67
0.9D + 1.0W 240°	21.12	0.00	0	1	4.30	-151.61	17.05
	21.12	0.00	120	1a	16.91	-151.62	-4.81
	21.12	0.00	240	1b	34.71	375.23	20.04
0.9D + 1.0W 300°	21.12	0.00	0	1	3.84	188.38	-20.05
	21.12	0.00	120	1a	29.50	-304.76	-17.04
	21.12	0.00	240	1b	19.28	188.38	6.71
0.9D + 1.0W 330°	21.12	0.00	0	1	2.19	313.58	-33.56
	21.12	0.00	120	1a	24.49	-265.58	-16.96
	21.12	0.00	240	1b	4.17	23.99	-2.92
1.2D + 1.0Di + 1.0Wi Normal	21.12	0.00	0	1	0.00	104.81	-10.32
	21.12	0.00	120	1a	-1.08	18.31	-0.18
	21.12	0.00	240	1b	1.08	18.30	-0.18
1.2D + 1.0Di + 1.0Wi 60°	21.12	0.00	0	1	-0.67	74.85	-7.05
	21.12	0.00	120	1a	-6.44	74.84	2.95

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

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 90°	21.12	0.00	240	1b	-1.81	-8.27	-1.04
	21.12	0.00	0	1	-0.78	47.15	-4.01
	21.12	0.00	120	1a	-8.28	95.73	4.33
1.2D + 1.0Di + 1.0Wi 120°	21.12	0.00	240	1b	-1.35	-1.46	-0.32
	21.12	0.00	0	1	-0.70	18.42	-0.86
	21.12	0.00	120	1a	-8.92	104.61	5.15
1.2D + 1.0Di + 1.0Wi 180°	21.12	0.00	240	1b	0.39	18.39	1.03
	21.12	0.00	0	1	0.00	-8.43	2.10
	21.12	0.00	120	1a	-5.78	74.93	4.11
1.2D + 1.0Di + 1.0Wi 210°	21.12	0.00	240	1b	5.78	74.92	4.11
	21.12	0.00	0	1	0.39	-1.28	1.32
	21.12	0.00	120	1a	-3.08	47.14	2.68
1.2D + 1.0Di + 1.0Wi 240°	21.12	0.00	240	1b	7.88	95.56	5.00
	21.12	0.00	0	1	0.70	18.42	-0.86
	21.12	0.00	120	1a	-0.39	18.40	1.03
1.2D + 1.0Di + 1.0Wi 300°	21.12	0.00	240	1b	8.92	104.60	5.15
	21.12	0.00	0	1	0.67	74.85	-7.05
	21.12	0.00	120	1a	1.81	-8.26	-1.04
1.2D + 1.0Di + 1.0Wi 330°	21.12	0.00	240	1b	6.44	74.83	2.95
	21.12	0.00	0	1	0.39	95.58	-9.32
	21.12	0.00	120	1a	0.94	-1.29	-1.00
1.2D + 1.0Ev + 1.0Eh Normal	21.12	0.00	240	1b	3.86	47.13	1.33
	21.12	0.00	0	1	0.00	52.24	-4.82
	21.12	0.00	120	1a	-1.76	21.15	0.87
1.2D + 1.0Ev + 1.0Eh 60°	21.12	0.00	240	1b	1.76	21.15	0.87
	21.12	0.00	0	1	-0.13	41.88	-3.86
	21.12	0.00	120	1a	-3.41	41.88	1.82
1.2D + 1.0Ev + 1.0Eh 90°	21.12	0.00	240	1b	0.87	10.79	0.50
	21.12	0.00	0	1	-0.15	31.51	-2.91
	21.12	0.00	120	1a	-3.99	49.46	2.22
1.2D + 1.0Ev + 1.0Eh 120°	21.12	0.00	240	1b	1.05	13.57	0.69
	21.12	0.00	0	1	-0.13	21.15	-1.96
	21.12	0.00	120	1a	-4.17	52.24	2.41
1.2D + 1.0Ev + 1.0Eh 180°	21.12	0.00	240	1b	1.63	21.15	1.09
	21.12	0.00	0	1	0.00	10.79	-1.00
	21.12	0.00	120	1a	-3.28	41.88	2.04
1.2D + 1.0Ev + 1.0Eh 210°	21.12	0.00	240	1b	3.28	41.88	2.04
	21.12	0.00	0	1	0.07	13.57	-1.26
	21.12	0.00	120	1a	-2.45	31.51	1.58
1.2D + 1.0Ev + 1.0Eh 240°	21.12	0.00	240	1b	3.91	49.46	2.34
	21.12	0.00	0	1	0.13	21.15	-1.96
	21.12	0.00	120	1a	-1.63	21.15	1.09
1.2D + 1.0Ev + 1.0Eh 300°	21.12	0.00	240	1b	4.17	52.24	2.41
	21.12	0.00	0	1	0.13	41.88	-3.86
	21.12	0.00	120	1a	-0.87	10.79	0.50
1.2D + 1.0Ev + 1.0Eh 330°	21.12	0.00	240	1b	3.41	41.88	1.82
	21.12	0.00	0	1	0.07	49.46	-4.56
	21.12	0.00	120	1a	-1.13	13.57	0.57
0.9D - 1.0Ev + 1.0Eh Normal	21.12	0.00	240	1b	2.59	31.51	1.33
	21.12	0.00	0	1	0.00	42.72	-3.94
	21.12	0.00	120	1a	-1.00	11.69	0.43
0.9D - 1.0Ev + 1.0Eh 60°	21.12	0.00	240	1b	1.00	11.69	0.43
	21.12	0.00	0	1	-0.13	32.37	-2.99
	21.12	0.00	120	1a	-2.65	32.37	1.38
0.9D - 1.0Ev + 1.0Eh 90°	21.12	0.00	240	1b	0.11	1.34	0.06
	21.12	0.00	0	1	-0.15	22.03	-2.03
	21.12	0.00	120	1a	-3.23	39.94	1.78
0.9D - 1.0Ev + 1.0Eh 120°	21.12	0.00	240	1b	0.30	4.11	0.26
	21.12	0.00	0	1	-0.13	11.69	-1.08

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

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 180°	21.12	0.00	120	1a	-3.41	42.72	1.97
	21.12	0.00	240	1b	0.87	11.69	0.65
	21.12	0.00	0	1	0.00	1.34	-0.13
	21.12	0.00	120	1a	-2.52	32.37	1.60
	21.12	0.00	240	1b	2.52	32.37	1.60
0.9D - 1.0Ev + 1.0Eh 210°	21.12	0.00	0	1	0.07	4.11	-0.38
	21.12	0.00	120	1a	-1.69	22.03	1.14
	21.12	0.00	240	1b	3.15	39.94	1.91
0.9D - 1.0Ev + 1.0Eh 240°	21.12	0.00	0	1	0.13	11.69	-1.08
	21.12	0.00	120	1a	-0.87	11.69	0.65
	21.12	0.00	240	1b	3.41	42.72	1.97
0.9D - 1.0Ev + 1.0Eh 300°	21.12	0.00	0	1	0.13	32.37	-2.99
	21.12	0.00	120	1a	-0.11	1.34	0.06
	21.12	0.00	240	1b	2.65	32.37	1.38
0.9D - 1.0Ev + 1.0Eh 330°	21.12	0.00	0	1	0.07	39.94	-3.68
	21.12	0.00	120	1a	-0.37	4.11	0.13
	21.12	0.00	240	1b	1.83	22.03	0.89
1.0D + 1.0W Service Normal	21.12	0.00	0	1	0.00	121.35	-12.72
	21.12	0.00	120	1a	1.88	-20.67	-2.42
	21.12	0.00	240	1b	-1.89	-20.68	-2.42
1.0D + 1.0W Service 60°	21.12	0.00	0	1	-1.08	71.06	-7.25
	21.12	0.00	120	1a	-6.82	71.06	2.68
	21.12	0.00	240	1b	-6.45	-62.13	-3.73
1.0D + 1.0W Service 90°	21.12	0.00	0	1	-1.28	26.67	-2.36
	21.12	0.00	120	1a	-9.79	104.83	4.93
	21.12	0.00	240	1b	-5.75	-51.51	-2.57
1.0D + 1.0W Service 120°	21.12	0.00	0	1	-1.16	-20.67	2.84
	21.12	0.00	120	1a	-11.02	121.34	6.36
	21.12	0.00	240	1b	-3.04	-20.68	-0.42
1.0D + 1.0W Service 180°	21.12	0.00	0	1	0.00	-62.12	7.45
	21.12	0.00	120	1a	-5.73	71.06	4.56
	21.12	0.00	240	1b	5.73	71.06	4.56
1.0D + 1.0W Service 210°	21.12	0.00	0	1	0.65	-51.50	6.27
	21.12	0.00	120	1a	-1.40	26.66	2.28
	21.12	0.00	240	1b	9.17	104.83	6.02
1.0D + 1.0W Service 240°	21.12	0.00	0	1	1.16	-20.67	2.84
	21.12	0.00	120	1a	3.04	-20.67	-0.42
	21.12	0.00	240	1b	11.02	121.34	6.36
1.0D + 1.0W Service 300°	21.12	0.00	0	1	1.09	71.06	-7.25
	21.12	0.00	120	1a	6.45	-62.12	-3.73
	21.12	0.00	240	1b	6.82	71.06	2.69
1.0D + 1.0W Service 330°	21.12	0.00	0	1	0.63	104.84	-10.95
	21.12	0.00	120	1a	5.10	-51.50	-3.70
	21.12	0.00	240	1b	2.68	26.66	0.07
1.2D + 1.0Ev + 1.5Eh Normal	21.12	0.00	0	1	0.00	62.80	-5.78
	21.12	0.00	120	1a	-1.37	15.87	0.57
	21.12	0.00	240	1b	1.37	15.87	0.57
1.2D + 1.0Ev + 1.5Eh 60°	21.12	0.00	0	1	-0.19	47.16	-4.35
	21.12	0.00	120	1a	-3.86	47.16	2.01
	21.12	0.00	240	1b	0.03	0.23	0.02
1.2D + 1.0Ev + 1.5Eh 90°	21.12	0.00	0	1	-0.22	31.51	-2.91
	21.12	0.00	120	1a	-4.73	58.61	2.60
	21.12	0.00	240	1b	0.31	4.42	0.31
1.2D + 1.0Ev + 1.5Eh 120°	21.12	0.00	0	1	-0.19	15.87	-1.47
	21.12	0.00	120	1a	-5.01	62.80	2.89
	21.12	0.00	240	1b	1.18	15.87	0.90
1.2D + 1.0Ev + 1.5Eh 180°	21.12	0.00	0	1	0.00	0.23	-0.03
	21.12	0.00	120	1a	-3.67	47.16	2.34
	21.12	0.00	240	1b	3.67	47.16	2.34

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Ev + 1.5Eh 210°	21.12	0.00	0	1	0.11	4.42	-0.42
	21.12	0.00	120	1a	-2.41	31.51	1.64
	21.12	0.00	240	1b	4.62	58.61	2.79
1.2D + 1.0Ev + 1.5Eh 240°	21.12	0.00	0	1	0.19	15.87	-1.47
	21.12	0.00	120	1a	-1.18	15.87	0.90
	21.12	0.00	240	1b	5.01	62.80	2.89
1.2D + 1.0Ev + 1.5Eh 300°	21.12	0.00	0	1	0.19	47.16	-4.35
	21.12	0.00	120	1a	-0.03	0.23	0.02
	21.12	0.00	240	1b	3.86	47.16	2.01
1.2D + 1.0Ev + 1.5Eh 330°	21.12	0.00	0	1	0.11	58.61	-5.40
	21.12	0.00	120	1a	-0.42	4.42	0.11
	21.12	0.00	240	1b	2.63	31.51	1.27
0.9D - 1.0Ev + 1.5Eh Normal	21.12	0.00	0	1	0.00	53.25	-4.91
	21.12	0.00	120	1a	-0.61	6.42	0.13
	21.12	0.00	240	1b	0.61	6.42	0.13
0.9D - 1.0Ev + 1.5Eh 60°	21.12	0.00	0	1	-0.19	37.64	-3.47
	21.12	0.00	120	1a	-3.10	37.64	1.57
	21.12	0.00	240	1b	-0.73	-9.19	-0.42
0.9D - 1.0Ev + 1.5Eh 90°	21.12	0.00	0	1	-0.22	22.03	-2.03
	21.12	0.00	120	1a	-3.97	49.07	2.17
	21.12	0.00	240	1b	-0.45	-5.01	-0.13
0.9D - 1.0Ev + 1.5Eh 120°	21.12	0.00	0	1	-0.19	6.42	-0.60
	21.12	0.00	120	1a	-4.25	53.25	2.45
	21.12	0.00	240	1b	0.42	6.42	0.46
0.9D - 1.0Ev + 1.5Eh 180°	21.12	0.00	0	1	0.00	-9.19	0.84
	21.12	0.00	120	1a	-2.91	37.64	1.90
	21.12	0.00	240	1b	2.91	37.64	1.90
0.9D - 1.0Ev + 1.5Eh 210°	21.12	0.00	0	1	0.11	-5.01	0.45
	21.12	0.00	120	1a	-1.65	22.03	1.21
	21.12	0.00	240	1b	3.86	49.07	2.36
0.9D - 1.0Ev + 1.5Eh 240°	21.12	0.00	0	1	0.19	6.42	-0.60
	21.12	0.00	120	1a	-0.42	6.42	0.46
	21.12	0.00	240	1b	4.25	53.25	2.45
0.9D - 1.0Ev + 1.5Eh 300°	21.12	0.00	0	1	0.19	37.64	-3.47
	21.12	0.00	120	1a	0.73	-9.19	-0.42
	21.12	0.00	240	1b	3.10	37.64	1.57
0.9D - 1.0Ev + 1.5Eh 330°	21.12	0.00	0	1	0.11	49.07	-4.52
	21.12	0.00	120	1a	0.34	-5.01	-0.32
	21.12	0.00	240	1b	1.87	22.03	0.83

ASSET: 21274, SPOUT SPRINGS NC1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-I
PROJECT: 14884053_C3_02

MAXIMUM REACTIONS SUMMARY

	<u>Individual</u>	<u>Individual w/ Overstrength</u>	<u>Global (DL+WL+IL)</u>		<u>Global (DL+WL)</u>	
Max Uplift:	304.76	304.76	Moment Ice:	1826.85 (kip-ft)	Moment:	11143.63 (kip-ft)
Max Down:	383.76	383.76	Total Down Ice:	141.42 (kip)	Total Down:	96 (kip)
Max Shear:	40.8	40.8	Total Shear Ice:	10.67 (kip)	Total Shear:	64.56 (kip)
1.2D + 1.0W 120°						