



Structural Analysis Report

Structure : 300 ft Guyed Tower
ATC Asset Name : Mason SW FL
ATC Asset Number : 416988
Engineering Number : 14137966_C3_01
Proposed Carrier : ALLTEL COMMUNICATIONS, LLC
Carrier Site Name : MASON SW
Carrier Site Number : 228803
Site Location : 5 SW Cumorah Hill Road
FORT WHITE, FL 32038-3758
29.9508, -82.6499
County : Columbia
Date : September 23, 2022
Max Usage : 84%
Analysis Result : Pass

Prepared By:

Lyle Morin
Structural Engineer I

A handwritten signature in black ink, appearing to read 'Lyle Morin'.

Reviewed



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

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

Digitally signed by Sarah Rucker
Date: 2022.10.02 15:54:48 -04'00'

COA: 9053



Table of Contents

Introduction.....	3
Supporting Documents.....	3
Analysis.....	3
Conclusion	3
Existing/Reserved Loading.....	4
Proposed Carrier Final Loading	4
Structure Usages	5
Foundation Reactions & Usages.....	5
Antenna Deflection, Twist, and Sway	5
Standard Conditions	6
Calculations.....	Attached

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 300 ft Guyed tower to reflect the change in loading by ALLTEL COMMUNICATIONS, LLC.

Supporting Documents

Tower Drawing:	HighTower Mapping Site #416988, dated February 18, 2016
Foundation Drawing:	EGSci Mapping Report #16.416988, dated March 7, 2016
Geotechnical Report:	EGSci Report #2016.416988, dated March 9, 2016
Modification:	ATC Job #12029596_P5_02, dated February 22, 2017

Analysis

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

Basic Wind Speed:	120 mph (3-second gust)
Basic Wind Speed w/ Ice:	30 mph (3-second gust) w/ 0.25" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2018 IBC / 7th ED (2020) Florida Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.08$, $S_i = 0.05$
Site Class:	D - Stiff Soil - Default

**Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, ANNEX-S*

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. 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 contact American Tower via email at **Engineering@americantower.com** Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing/Reserved Loading

Elev.*	Qty	Equipment	Lines	Carrier
294.0'	3	Mount Reinforcement	-	ALLTEL COMMUNICATIONS, LLC
	3	Light Sector Frame	-	ALLTEL COMMUNICATIONS, LLC
287.8'	1	Torque Arms	-	-
227.0'	1	Torque Arms	-	-
170.3'	1	Torque Arms	-	-

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

***Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.**

Proposed Carrier Final Loading

Elev.*	Qty	Equipment	Lines	Carrier
294.0'	2	Raycap RVZDC-6627-PF-48	(10) 1 5/8" Coax (2) 1 5/8" Hybriflex	ALLTEL COMMUNICATIONS, LLC
	3	CSS X7-865		
	3	Ericsson 8843 Rev 2		
	3	Ericsson AIR 6449 B77D/ C-Band		
	3	Ericsson Radio 4449 - B13&B5		
	6	JMA Wireless MX06FRO860-02		

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

***Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.**

Install proposed lines alongside existing ALLTEL COMMUNICATIONS, LLC lines.

Structure Usages

Structural Component	Usage	Pass/Fail
Legs	84%	Pass
Diagonals	81%	Pass
Horizontals	68%	Pass
Guys	62%	Pass

Foundation Reactions & Usages

Reaction Component	Analysis Reactions	Usage
Base Axial (k)	119.7	26%
Anchor 1 Uplift (kips)	9.1	41%
Anchor 1 Shear (kips)	13.4	43%
Anchor 2 Uplift (kips)	42.0	23%
Anchor 2 Shear (kips)	45.2	0%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Antenna Deflection, Twist, and Sway

Elev.	Antenna	Carrier	Deflection	Twist	Sway [Rotation]
294.0'	Ericsson 8843 Rev 2	ALLTEL COMMUNICATIONS, LLC	0.246'	0.028°	0.100°
	Ericsson AIR 6449 B77D/ C-Band				
	Ericsson Radio 4449 - B13&B5				
	JMA Wireless MX06FRO860-02				
	Raycap RVZDC-6627-PF-48				

**Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H*

Standard Conditions

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

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

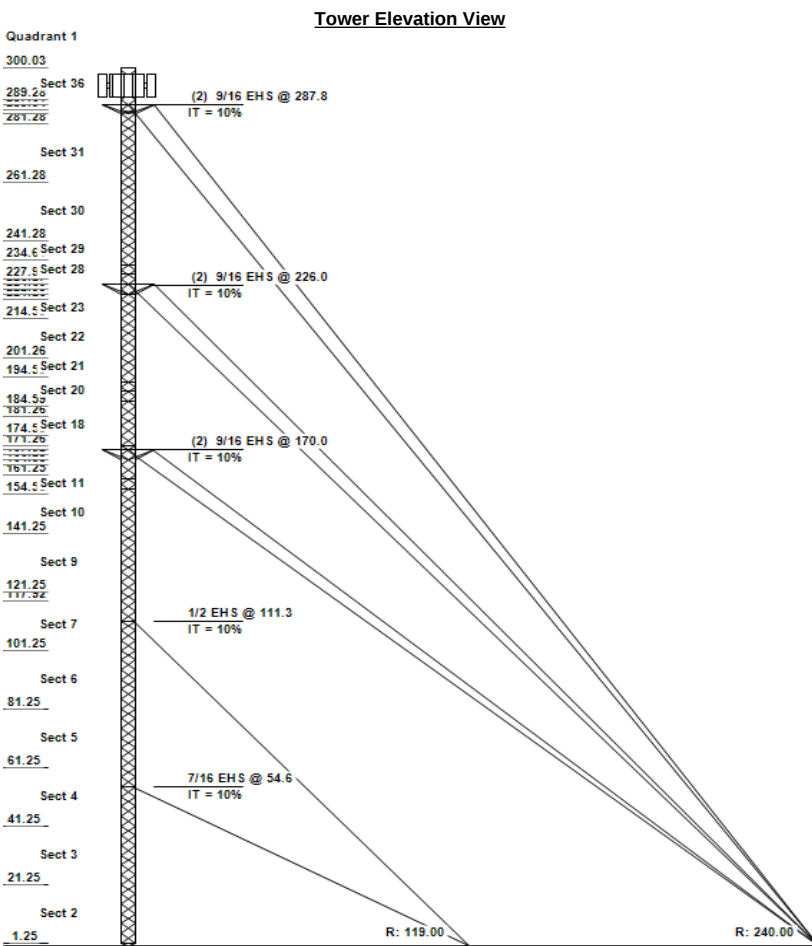
It is the responsibility of the client to ensure that the information provided to ATC Tower Services, LLC and used in the performance of our engineering services is correct and complete.

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

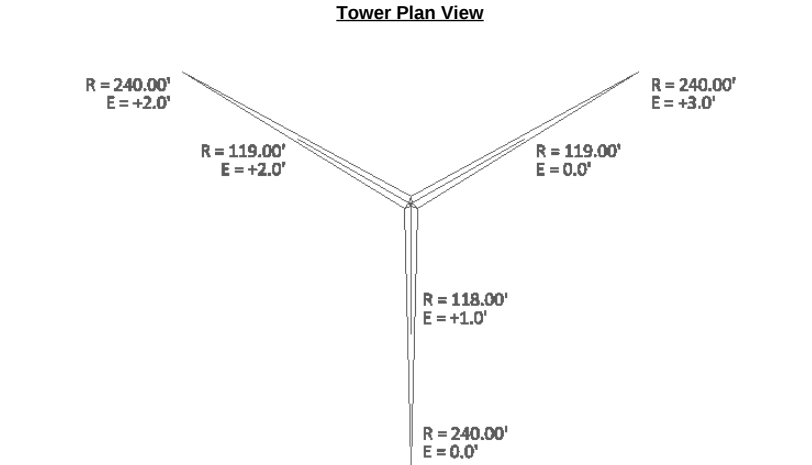
Unless explicitly agreed by both the client and ATC Tower Services, LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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

ANALYSIS PARAMETERS					
Nominal Wind:	116.96 mph Wind with No Ic	Ice Wind:	29.24 mph w/ 0.212"	Service Wind:	60 mph
Risk Category:	II	Exposure:	C	S _s :	0.080
Topo Category:	1	Topo Factor:	Method 1	S ₁ :	0.048
Structure Height:	300 ft	Base Elevation:	0 ft	Topo Feature:	
Base Width:	3.5 ft	Top Width:	3.5 ft	Shape:	Triangle
				Base Type:	Pivot



BASE REACTIONS	
Axial (k):	119.74
Shear (k):	1.02



TOWER SECTION PROPERTIES				
Section	Leg Members		Diagonal Members	Horizontal Members
1	CHN 50 ksi MC18 x 58			CHN 50 ksi MC18 x 58
2-11	PLA 50 ksi	M46-64 LEG	PLA 36 ksi M46-Y LACING	
12	PLA 50 ksi	M46-65 LEG	PLA 36 ksi M46-Y LACING	
13	PLA 50 ksi	M46-65 LEG	PLA 36 ksi M46-Y LACING	DUM 50 ksi 0.1X0.1X1
14-15	PLA 50 ksi	M46-65 LEG	PLA 36 ksi M46-T LACING	DUM 50 ksi 0.1X0.1X1
16	PLA 50 ksi	M46-65 LEG	PLA 36 ksi M46-T LACING	DAE 36 ksi 2X2X0.25
17-18	PLA 50 ksi	M46-65 LEG	PLA 36 ksi M46-Y LACING	
19-21	PLA 50 ksi	M46-54 LEG	PLA 36 ksi M46-T LACING	
22-23	PLA 50 ksi	M46-54 LEG	PLA 36 ksi M46-Y LACING	
24	PLA 50 ksi	M46-54 LEG	PLA 36 ksi M46-Y LACING	SAE 50 ksi 2X2X0.25
25-27	PLA 50 ksi	M46-54 LEG	PLA 36 ksi M46-Y LACING	DUM 50 ksi 0.1X0.1X1
28-30	PLA 50 ksi	M46-54 LEG	PLA 36 ksi M46-Y LACING	
31-32	PLA 50 ksi	M46-64 LEG	PLA 36 ksi M46-T LACING	
33	PLA 50 ksi	M46-64 LEG	SAE 36 ksi 2X2X0.25	
34-35	PLA 50 ksi	M46-64 LEG	PLA 36 ksi M46-T LACING	DUM 50 ksi 0.1X0.1X1
36	PLA 50 ksi	M46-64 LEG	PLA 36 ksi M46-T LACING	SAE 36 ksi 2X2X0.125

SECONDARY BRACING MEMBERS			
Section	Sub Diagonal 1	Sub Diagonal 2	Sub Diagonal 3
1 - 10	-	-	-
11	-	-	-
12 - 19	-	-	-
20	-	-	-
21 - 27	-	-	-
28	-	-	-
29 - 36	-	-	-

Section	Sub Horizontal 1	Sub Horizontal 2	Sub Horizontal 3
1 - 10	-	-	-
11	S1.5X1.5X0.187	-	-
12 - 19	-	-	-
20	S1.5X1.5X0.187	-	-
21 - 27	-	-	-
28	S1.5X1.5X0.187	-	-
29 - 36	-	-	-

DISCRETE APPURTENANCE		LINEAR APPURTENANCE	
Elev (ft)	Description	Elev To (ft)	Description
294.0	(6) JMA Wireless MX06FRO860-02	300.0	(1) Climbing Ladder
294.0	(3) Generic Mount Reinforcement	294.0	(10) 1 5/8" Coax
294.0	(3) Ericsson 8843 Rev 2	294.0	(2) 1 5/8" Hybriflex
294.0	(3) Ericsson Radio 4449 - B13&B5	286.0	(3) Reinforcement
294.0	(3) Ericsson AIR 6449 B77D/ C-Band	214.3	(3) Reinforcement
294.0	(3) Flat Light Sector Frame	117.7	(3) Reinforcement
294.0	(3) CSS X7-865		
294.0	(2) Raycap RVZDC-6627-PF-48		
287.8	(1) Torque Arms		
227.0	(1) Torque Arms		
170.3	(1) Torque Arms		

GUY ANCHOR REACTIONS				
Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (k)	Shear (k)
118.0	1.00	0	9.10	13.41
119.0	0.00	120	9.12	13.39
119.0	2.00	240	8.92	13.42
240.0	0.00	0	41.99	45.17
240.0	3.00	120	41.53	45.24
240.0	2.00	240	41.68	45.20

ANALYSIS PARAMETERS			
Location:	Columbia County, FL	Height:	300 ft
Type and Shape:	Guyed, Triangle	Base Elevation:	0.00 ft
Manufacturer:	Andrew	Bottom Face Width:	3.50 ft
Kd	0.85	Top Face Width:	3.50 ft
Ke:	1.00		

ICE & WIND PARAMETERS			
Exposure Category:	C	Design Wind Speed Without Ice:	117 mph
Risk Category:	II	Design Wind Speed with Ice:	29 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	Flat	Design Ice Thickness:	0.21 in
Crest Height:	0 ft	HMSL:	100 ft

SEISMIC PARAMETERS					
Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):		0.76	
T _L (sec):	8	P:	1.3	C _s :	0.030
S _s :	0.080	S ₁ :	0.048	C _{s, Max} :	0.034
F _a :	1.600	F _v :	2.400	C _{s, Min} :	0.030
S _{ds} :	0.085	S _{d1} :	0.077		

LOAD CASES	
1.2D + 1.0W Normal	1.2D + 1.0W Normal116.96 mph Wind with No Ice
1.2D + 1.0W 60°	1.2D + 1.0W 60°116.96 mph Wind with No Ice
1.2D + 1.0W 90°	1.2D + 1.0W 90°116.96 mph Wind with No Ice
1.2D + 1.0W 120°	1.2D + 1.0W 120°116.96 mph Wind with No Ice
1.2D + 1.0W 180°	1.2D + 1.0W 180°116.96 mph Wind with No Ice
1.2D + 1.0W 210°	1.2D + 1.0W 210°116.96 mph Wind with No Ice
1.2D + 1.0W 240°	1.2D + 1.0W 240°116.96 mph Wind with No Ice
1.2D + 1.0W 300°	1.2D + 1.0W 300°116.96 mph Wind with No Ice
1.2D + 1.0W 330°	1.2D + 1.0W 330°116.96 mph Wind with No Ice
1.2D + 1.0Di + 1.0Wi Normal	1.2D + 1.0Di + 1.0Wi Normal29.24 mph Wind with 0.212" Radial Ice
1.2D + 1.0Di + 1.0Wi 60°	1.2D + 1.0Di + 1.0Wi 60°29.24 mph Wind with 0.212" Radial Ice
1.2D + 1.0Di + 1.0Wi 90°	1.2D + 1.0Di + 1.0Wi 90°29.24 mph Wind with 0.212" Radial Ice
1.2D + 1.0Di + 1.0Wi 120°	1.2D + 1.0Di + 1.0Wi 120°29.24 mph Wind with 0.212" Radial Ice
1.2D + 1.0Di + 1.0Wi 180°	1.2D + 1.0Di + 1.0Wi 180°29.24 mph Wind with 0.212" Radial Ice
1.2D + 1.0Di + 1.0Wi 210°	1.2D + 1.0Di + 1.0Wi 210°29.24 mph Wind with 0.212" Radial Ice
1.2D + 1.0Di + 1.0Wi 240°	1.2D + 1.0Di + 1.0Wi 240°29.24 mph Wind with 0.212" Radial Ice
1.2D + 1.0Di + 1.0Wi 300°	1.2D + 1.0Di + 1.0Wi 300°29.24 mph Wind with 0.212" Radial Ice
1.2D + 1.0Di + 1.0Wi 330°	1.2D + 1.0Di + 1.0Wi 330°29.24 mph Wind with 0.212" Radial Ice
1.2D + 1.0Ev + 1.0Eh Normal	1.2D + 1.0Ev + 1.0Eh NormalSeismic
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

LOAD CASES	
1.2D + 1.0Ev + 1.0Eh 330°	1.2D + 1.0Ev + 1.0Eh 330°Seismic
1.0D + 1.0W Service Normal	1.0D + 1.0W Service Normal60 mph Wind with No Ice
1.0D + 1.0W Service 60°	1.0D + 1.0W Service 60°60 mph Wind with No Ice
1.0D + 1.0W Service 90°	1.0D + 1.0W Service 90°60 mph Wind with No Ice
1.0D + 1.0W Service 120°	1.0D + 1.0W Service 120°60 mph Wind with No Ice
1.0D + 1.0W Service 180°	1.0D + 1.0W Service 180°60 mph Wind with No Ice
1.0D + 1.0W Service 210°	1.0D + 1.0W Service 210°60 mph Wind with No Ice
1.0D + 1.0W Service 240°	1.0D + 1.0W Service 240°60 mph Wind with No Ice
1.0D + 1.0W Service 300°	1.0D + 1.0W Service 300°60 mph Wind with No Ice
1.0D + 1.0W Service 330°	1.0D + 1.0W Service 330°60 mph Wind with No Ice

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

TOWER LOADING – DISCRETE APPURTENANCE

Discrete Appurtenance Properties for LC: **1.2D + 1.0W**

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
294.0	Ericsson 8843 Rev 2	3	75	1.6	1.3	13.2	11.1	0.80	0.50	0.0	0.00	47.10	79	270
294.0	Ericsson Radio 4449 - B13&B5	3	70	1.6	1.3	13.2	9.3	0.80	0.50	0.0	0.00	47.10	79	252
294.0	Raycap RVZDC-6627-PF-48	2	32	3.8	2.4	15.7	10.3	0.80	0.77	0.0	0.00	47.10	187	77
294.0	Ericsson AIR 6449 B77D/ C-Band	3	82	4.0	2.5	15.9	10.6	0.80	0.70	0.0	0.00	47.10	271	294
294.0	Generic Mount Reinforcement	3	200	7.5	0.0	0.0	0.0	1.00	0.67	0.0	0.00	47.10	604	720
294.0	CSS X7-865	3	37	11.8	8.0	12.5	7.1	0.80	0.69	0.0	0.00	47.10	786	134
294.0	JMA Wireless MX06FRO860-02	6	51	14.0	8.0	15.4	10.7	0.80	0.71	0.0	0.00	47.10	1911	367
294.0	Flat Light Sector Frame	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	47.10	1080	1440
287.8	Torque Arms	1	400	12.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	46.89	478	480
227.0	Torque Arms	1	400	12.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	44.61	455	480
170.3	Torque Arms	1	400	12.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	41.99	428	480
Totals		29	4,161	261.3									6,358	4,994

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)
294.0	Ericsson 8843 Rev 2	3	84	1.8	1.3	13.2	11.1	0.80	0.50	0.0	0.00	2.94	5	298
294.0	Ericsson Radio 4449 - B13&B5	3	79	1.8	1.3	13.2	9.3	0.80	0.50	0.0	0.00	2.94	5	278
294.0	Raycap RVZDC-6627-PF-48	2	49	4.0	2.4	15.7	10.3	0.80	0.77	0.0	0.00	2.94	12	110
294.0	Ericsson AIR 6449 B77D/ C-Band	3	99	4.2	2.5	15.9	10.6	0.80	0.70	0.0	0.00	2.94	18	347
294.0	Generic Mount Reinforcement	3	229	8.6	0.0	0.0	0.0	1.00	0.67	0.0	0.00	2.94	43	808
294.0	CSS X7-865	3	73	12.3	8.0	12.5	7.1	0.80	0.69	0.0	0.00	2.94	51	241
294.0	JMA Wireless MX06FRO860-02	6	99	14.6	8.0	15.4	10.7	0.80	0.71	0.0	0.00	2.94	124	654
294.0	Flat Light Sector Frame	3	446	20.2	0.0	0.0	0.0	0.75	0.67	0.0	0.00	2.94	76	1577
287.8	Torque Arms	1	442	13.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	2.93	33	522
227.0	Torque Arms	1	441	13.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	2.79	31	521
170.3	Torque Arms	1	440	13.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	2.62	29	520
Totals		29	5,043	281.9									430	5,875

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)
294.0	Ericsson 8843 Rev 2	3	75	1.6	1.3	13.2	11.1	0.80	0.50	0.0	0.00	12.40	21	225
294.0	Ericsson Radio 4449 - B13&B5	3	70	1.6	1.3	13.2	9.3	0.80	0.50	0.0	0.00	12.40	21	210
294.0	Raycap RVZDC-6627-PF-48	2	32	3.8	2.4	15.7	10.3	0.80	0.77	0.0	0.00	12.40	49	64
294.0	Ericsson AIR 6449 B77D/ C-Band	3	82	4.0	2.5	15.9	10.6	0.80	0.70	0.0	0.00	12.40	71	245
294.0	Generic Mount Reinforcement	3	200	7.5	0.0	0.0	0.0	1.00	0.67	0.0	0.00	12.40	159	600
294.0	CSS X7-865	3	37	11.8	8.0	12.5	7.1	0.80	0.69	0.0	0.00	12.40	207	112
294.0	JMA Wireless MX06FRO860-02	6	51	14.0	8.0	15.4	10.7	0.80	0.71	0.0	0.00	12.40	503	306
294.0	Flat Light Sector Frame	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.00	12.40	284	1200
287.8	Torque Arms	1	400	12.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	12.34	126	400
227.0	Torque Arms	1	400	12.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	11.74	120	400
170.3	Torque Arms	1	400	12.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	11.05	113	400
Totals		29	4,161	261.3									1,673	4,161

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
257.7	286.0	Reinforcement	3	3.00	9.80	100	1,2,3	Individual	0.00	N	1.00	1.00	0.56
194.3	214.3	Reinforcement	3	3.00	9.80	100	1,2,3	Individual	0.00	N	1.00	1.00	0.45
61.0	117.7	Reinforcement	3	3.00	9.80	100	1,2,3	Individual	0.00	N	1.00	1.00	0.19
0.0	300.0	Climbing Ladder	1	2.00	6.90	100	2	Individual	0.00	N	1.00	1.00	0.42
0.0	294.0	1 5/8" Coax	6	1.98	0.82	33	3	Block	0.00	N	1.00	1.00	0.87
0.0	294.0	1 5/8" Hybriflex	2	1.98	1.30	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	294.0	1 5/8" Coax	4	1.98	0.82	50	2	Block	0.00	N	1.00	1.00	0.00

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0W Normal
116.96 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
36	295	47.13	10.632	0.000	0.00	0.262	2.40	1.00	1.00	0.0	10.63	25.54	0.00	580	0	1023	277	1301
35	288	46.92	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	101	0	154	86	240
34	287	46.86	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	103	0	154	88	242
33	285	46.81	1.892	0.000	0.00	0.377	2.11	1.00	1.00	0.0	1.89	4.00	0.00	188	0	159	113	272
32	283	46.73	3.224	0.000	0.00	0.256	2.42	1.00	1.00	0.0	3.22	7.80	0.00	319	0	310	282	591
31	271	46.31	19.364	0.000	0.00	0.256	2.42	1.00	1.00	0.0	19.36	46.83	0.00	1919	0	1844	1676	3520
30	251	45.57	15.809	0.000	0.00	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	1165	0	1568	1115	2683
29	238	45.05	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	346	0	517	329	846
28	231	44.78	6.147	0.000	0.00	0.246	2.45	1.00	1.00	0.0	6.15	15.06	0.00	392	0	573	327	901
27	227	44.61	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	87	0	127	82	209
26	225	44.54	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	87	0	127	82	209
25	224	44.47	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	87	0	127	81	208
24	222	44.40	1.832	0.000	0.00	0.293	2.32	1.00	1.00	0.0	1.83	4.24	0.00	147	0	160	81	241
23	218	44.23	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	346	0	507	323	831
22	208	43.79	10.537	0.000	0.00	0.211	2.56	1.00	1.00	0.0	10.54	26.97	0.00	1153	0	1004	967	1971
21	198	43.34	6.082	0.000	0.00	0.243	2.46	1.00	1.00	0.0	6.08	14.95	0.00	626	0	551	483	1033
20	190	42.95	10.432	0.000	0.00	0.278	2.36	1.00	1.00	0.0	10.43	24.97	0.00	664	0	897	478	1375
19	183	42.63	3.033	0.000	0.00	0.243	2.46	1.00	1.00	0.0	3.03	7.46	0.00	195	0	270	156	426
18	178	42.38	5.651	0.000	0.00	0.224	2.52	1.00	1.00	0.0	5.65	14.22	0.00	394	0	512	310	822
17	173	42.12	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	197	0	254	154	408
16	170	42.00	2.130	0.000	0.00	0.338	2.20	1.00	1.00	0.0	2.13	4.69	0.00	190	0	167	77	244
15	169	41.91	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	110	0	138	77	215
14	167	41.82	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	110	0	138	77	214
13	165	41.73	1.398	0.000	0.00	0.222	2.53	1.00	1.00	0.0	1.40	3.53	0.00	99	0	125	76	202
12	163	41.60	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	197	0	251	152	403
11	158	41.33	6.526	0.000	0.00	0.259	2.41	1.00	1.00	0.0	6.53	15.73	0.00	406	0	553	302	855
10	148	40.76	11.294	0.000	0.00	0.224	2.52	1.00	1.00	0.0	11.29	28.42	0.00	721	0	985	595	1580
9	131	39.75	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1081	0	1441	871	2312
8	120	38.98	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	180	0	235	142	377
7	110	38.27	14.706	0.000	0.00	0.234	2.49	1.00	1.00	0.0	14.71	36.58	0.00	1543	0	1190	851	2041
6	91	36.82	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1787	0	1335	985	2320
5	71	34.95	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1787	0	1267	935	2202
4	51	32.61	17.820	0.000	0.00	0.236	2.48	1.00	1.00	0.0	17.82	44.20	0.00	1153	0	1225	717	1942
3	31	29.38	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1081	0	1065	644	1709
2	11	25.21	16.813	0.000	0.00	0.223	2.52	1.00	1.00	0.0	16.81	42.41	0.00	1081	0	909	552	1461
1	1	25.21	10.128	0.000	0.00	1.000	2.10	1.00	1.00	0.0	10.13	21.27	0.00	1253	0	456	18	183
** = Section Force Exceeds Solidity Ratio Criteria														Totals	21,876	0		36,587

1.2D + 1.0W 60°
116.96 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
36	295	47.13	10.632	0.000	0.00	0.262	2.40	0.80	1.00	0.0	8.51	20.43	0.00	580	0	819	277	1096
35	288	46.92	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	101	0	123	86	209
34	287	46.86	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	103	0	123	88	211
33	285	46.81	1.892	0.000	0.00	0.377	2.11	0.80	1.00	0.0	1.51	3.20	0.00	188	0	127	113	240
32	283	46.73	3.224	0.000	0.00	0.256	2.42	0.80	1.00	0.0	2.58	6.24	0.00	319	0	248	282	529
31	271	46.31	19.364	0.000	0.00	0.256	2.42	0.80	1.00	0.0	15.49	37.47	0.00	1919	0	1475	1676	3151
30	251	45.57	15.809	0.000	0.00	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	1165	0	1254	1115	2369
29	238	45.05	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	346	0	413	329	743
28	231	44.78	6.147	0.000	0.00	0.246	2.45	0.80	1.00	0.0	4.92	12.05	0.00	392	0	459	327	786
27	227	44.61	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	87	0	102	82	183
26	225	44.54	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	87	0	102	82	183
25	224	44.47	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	87	0	102	81	183
24	222	44.40	1.832	0.000	0.00	0.293	2.32	0.80	1.00	0.0	1.47	3.39	0.00	147	0	128	81	209
23	218	44.23	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	346	0	406	323	729
22	208	43.79	10.537	0.000	0.00	0.211	2.56	0.80	1.00	0.0	8.43	21.58	0.00	1153	0	803	967	1770
21	198	43.34	6.082	0.000	0.00	0.243	2.46	0.80	1.00	0.0	4.87	11.96	0.00	626	0	441	483	923
20	190	42.95	10.432	0.000	0.00	0.278	2.36	0.80	1.00	0.0	8.35	19.66	0.00	664	0	718	478	1195
19	183	42.63	3.033	0.000	0.00	0.243	2.46	0.80	1.00	0.0	2.43	5.97	0.00	195	0	216	156	372
18	178	42.38	5.651	0.000	0.00	0.224	2.52	0.80	1.00	0.0	4.52	11.38	0.00	394	0	410	310	720
17	173	42.12	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	197	0	203	154	357
16	170	42.00	2.130	0.000	0.00	0.338	2.20	0.80	1.00	0.0	1.70	3.75	0.00	190	0	134	77	211
15	169	41.91	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	110	0	110	77	187
14	167	41.82	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	110	0	110	77	187
13	165	41.73	1.398	0.000	0.00	0.222	2.53	0.80	1.00	0.0	1.12	2.82	0.00	99	0	100	76	177
12	163	41.60	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	197	0	201	152	353
11	158	41.33	6.526	0.000	0.00	0.259	2.41	0.80	1.00	0.0	5.22	12.58	0.00	406	0	442	302	744
10	148	40.76	11.294	0.000	0.00	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	721	0	788	595	1383
9	131	39.75	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1081	0	1153	871	2024
8	120	38.98	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	180	0	188	142	330
7	110	38.27	14.706	0.000	0.00	0.234	2.49	0.80	1.00	0.0	11.77	29.27	0.00	1543	0	952	851	1803
6	91	36.82	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1787	0	1068	985	2053
5	71	34.95	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1787	0	1014	935	1949
4	51	32.61	17.820	0.000	0.00	0.236	2.48	0.80	1.00	0.0	14.26	35.36	0.00	1153	0	980	717	1697

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0W 60°

Gust Response Factor (Gh): 0.85

116.96 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)
3	31	29.38	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1081	0	852	644	1496
2	11	25.21	16.813	0.000	0.00	0.223	2.52	0.80	1.00	0.0	13.45	33.93	0.00	1081	0	727	552	1279
1	1	25.21	10.128	0.000	0.00	1.000	2.10	0.80	1.00	0.0	8.10	17.02	0.00	1253	0	365	18	183

** = Section Force Exceeds Solidity Ratio Criteria

Totals 21,876 0 32,215

1.2D + 1.0W 90°

Gust Response Factor (Gh): 0.85

116.96 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)
36	295	47.13	10.632	0.000	0.00	0.262	2.40	0.85	1.00	0.0	9.04	21.71	0.00	580	0	870	277	1147
35	288	46.92	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	101	0	131	86	217
34	287	46.86	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	103	0	131	88	219
33	285	46.81	1.892	0.000	0.00	0.377	2.11	0.85	1.00	0.0	1.61	3.40	0.00	188	0	135	113	248
32	283	46.73	3.224	0.000	0.00	0.256	2.42	0.85	1.00	0.0	2.74	6.63	0.00	319	0	263	282	545
31	271	46.31	19.364	0.000	0.00	0.256	2.42	0.85	1.00	0.0	16.46	39.81	0.00	1919	0	1567	1676	3243
30	251	45.57	15.809	0.000	0.00	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	1165	0	1333	1115	2448
29	238	45.05	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	346	0	439	329	769
28	231	44.78	6.147	0.000	0.00	0.246	2.45	0.85	1.00	0.0	5.22	12.80	0.00	392	0	487	327	815
27	227	44.61	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	87	0	108	82	190
26	225	44.54	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	87	0	108	82	190
25	224	44.47	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	87	0	108	81	189
24	222	44.40	1.832	0.000	0.00	0.293	2.32	0.85	1.00	0.0	1.56	3.61	0.00	147	0	136	81	217
23	218	44.23	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	346	0	431	323	754
22	208	43.79	10.537	0.000	0.00	0.211	2.56	0.85	1.00	0.0	8.96	22.93	0.00	1153	0	853	967	1821
21	198	43.34	6.082	0.000	0.00	0.243	2.46	0.85	1.00	0.0	5.17	12.71	0.00	626	0	468	483	951
20	190	42.95	10.432	0.000	0.00	0.278	2.36	0.85	1.00	0.0	8.87	20.88	0.00	664	0	762	478	1240
19	183	42.63	3.033	0.000	0.00	0.243	2.46	0.85	1.00	0.0	2.58	6.34	0.00	195	0	230	156	385
18	178	42.38	5.651	0.000	0.00	0.224	2.52	0.85	1.00	0.0	4.80	12.09	0.00	394	0	435	310	745
17	173	42.12	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	197	0	216	154	370
16	170	42.00	2.130	0.000	0.00	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	190	0	142	77	219
15	169	41.91	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	110	0	117	77	194
14	167	41.82	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	110	0	117	77	193
13	165	41.73	1.398	0.000	0.00	0.222	2.53	0.85	1.00	0.0	1.19	3.00	0.00	99	0	106	76	183
12	163	41.60	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	197	0	213	152	365
11	158	41.33	6.526	0.000	0.00	0.259	2.41	0.85	1.00	0.0	5.55	13.37	0.00	406	0	470	302	772
10	148	40.76	11.294	0.000	0.00	0.224	2.52	0.85	1.00	0.0	9.60	24.16	0.00	721	0	837	595	1432
9	131	39.75	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1081	0	1225	871	2096
8	120	38.98	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	180	0	200	142	342
7	110	38.27	14.706	0.000	0.00	0.234	2.49	0.85	1.00	0.0	12.50	31.10	0.00	1543	0	1011	851	1863
6	91	36.82	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1787	0	1134	985	2120
5	71	34.95	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1787	0	1077	935	2012
4	51	32.61	17.820	0.000	0.00	0.236	2.48	0.85	1.00	0.0	15.15	37.57	0.00	1153	0	1041	717	1758
3	31	29.38	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1081	0	905	644	1549
2	11	25.21	16.813	0.000	0.00	0.223	2.52	0.85	1.00	0.0	14.29	36.05	0.00	1081	0	772	552	1325
1	1	25.21	10.128	0.000	0.00	1.000	2.10	0.85	1.00	0.0	8.61	18.08	0.00	1253	0	387	18	183

** = Section Force Exceeds Solidity Ratio Criteria

Totals 21,876 0 33,308

1.2D + 1.0W 120°

Gust Response Factor (Gh): 0.85

116.96 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)
36	295	47.13	10.632	0.000	0.00	0.262	2.40	1.00	1.00	0.0	10.63	25.54	0.00	580	0	1023	277	1301
35	288	46.92	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	101	0	154	86	240
34	287	46.86	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	103	0	154	88	242
33	285	46.81	1.892	0.000	0.00	0.377	2.11	1.00	1.00	0.0	1.89	4.00	0.00	188	0	159	113	272
32	283	46.73	3.224	0.000	0.00	0.256	2.42	1.00	1.00	0.0	3.22	7.80	0.00	319	0	310	282	591
31	271	46.31	19.364	0.000	0.00	0.256	2.42	1.00	1.00	0.0	19.36	46.83	0.00	1919	0	1844	1676	3520
30	251	45.57	15.809	0.000	0.00	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	1165	0	1568	1115	2683
29	238	45.05	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	346	0	517	329	846
28	231	44.78	6.147	0.000	0.00	0.246	2.45	1.00	1.00	0.0	6.15	15.06	0.00	392	0	573	327	901
27	227	44.61	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	87	0	127	82	209
26	225	44.54	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	87	0	127	82	209
25	224	44.47	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	87	0	127	81	208
24	222	44.40	1.832	0.000	0.00	0.293	2.32	1.00	1.00	0.0	1.83	4.24	0.00	147	0	160	81	241
23	218	44.23	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	346	0	507	323	831
22	208	43.79	10.537	0.000	0.00	0.211	2.56	1.00	1.00	0.0	10.54	26.97	0.00	1153	0	1004	967	1971
21	198	43.34	6.082	0.000	0.00	0.243	2.46	1.00	1.00	0.0	6.08	14.95	0.00	626	0	551	483	1033
20	190	42.95	10.432	0.000	0.00	0.278	2.36	1.00	1.00	0.0	10.43	24.57	0.00	664	0	897	478	1375
19	183	42.63	3.033	0.000	0.00	0.243	2.46	1.00	1.00	0.0	3.03	7.46	0.00	195	0	270	156	426
18	178	42.38	5.651	0.000	0.00	0.224	2.52	1.00	1.00	0.0	5.65	14.22	0.00	394	0	512	310	822
17	173	42.12	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	197	0	254	154	408
16	170	42.00	2.130	0.000	0.00	0.338	2.20	1.00	1.00	0.0	2.13	4.69	0.00	190	0	167	77	244
15	169	41.91	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	110	0	138	77	215
14	167	41.82	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	110	0	138	77	214
13	165	41.73	1.398	0.000	0.00	0.222	2.53	1.00	1.00	0.0	1.40	3.53	0.00	99	0	125	76	202

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0W 120°

Gust Response Factor (Gh): 0.85

116.96 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)
12	163	41.60	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	197	0	251	152	403
11	158	41.33	6.526	0.000	0.00	0.259	2.41	1.00	1.00	0.0	6.53	15.73	0.00	406	0	553	302	855
10	148	40.76	11.294	0.000	0.00	0.224	2.52	1.00	1.00	0.0	11.29	28.42	0.00	721	0	985	595	1580
9	131	39.75	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1081	0	1441	871	2312
8	120	38.98	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	180	0	235	142	377
7	110	38.27	14.706	0.000	0.00	0.234	2.49	1.00	1.00	0.0	14.71	36.58	0.00	1543	0	1190	851	2041
6	91	36.82	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1787	0	1335	985	2320
5	71	34.95	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1787	0	1267	935	2202
4	51	32.61	17.820	0.000	0.00	0.236	2.48	1.00	1.00	0.0	17.82	44.20	0.00	1153	0	1225	717	1942
3	31	29.38	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1081	0	1065	644	1709
2	11	25.21	16.813	0.000	0.00	0.223	2.52	1.00	1.00	0.0	16.81	42.41	0.00	1081	0	909	552	1461
1	1	25.21	10.128	0.000	0.00	1.000	2.10	1.00	1.00	0.0	10.13	21.27	0.00	1253	0	456	18	183

** = Section Force Exceeds Solidity Ratio Criteria

Totals 21,876 0 36,587

1.2D + 1.0W 180°

Gust Response Factor (Gh): 0.85

116.96 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)
36	295	47.13	10.632	0.000	0.00	0.262	2.40	0.80	1.00	0.0	8.51	20.43	0.00	580	0	819	277	1096
35	288	46.92	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	101	0	123	86	209
34	287	46.86	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	103	0	123	88	211
33	285	46.81	1.892	0.000	0.00	0.377	2.11	0.80	1.00	0.0	1.51	3.20	0.00	188	0	127	113	240
32	283	46.73	3.224	0.000	0.00	0.256	2.42	0.80	1.00	0.0	2.58	6.24	0.00	319	0	248	282	529
31	271	46.31	19.364	0.000	0.00	0.256	2.42	0.80	1.00	0.0	15.49	37.47	0.00	1919	0	1475	1676	3151
30	251	45.57	15.809	0.000	0.00	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	1165	0	1254	1115	2369
29	238	45.05	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	346	0	413	329	743
28	231	44.78	6.147	0.000	0.00	0.246	2.45	0.80	1.00	0.0	4.92	12.05	0.00	392	0	459	327	786
27	227	44.61	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	87	0	102	82	183
26	225	44.54	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	87	0	102	82	183
25	224	44.47	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	87	0	102	81	183
24	222	44.40	1.832	0.000	0.00	0.293	2.32	0.80	1.00	0.0	1.47	3.39	0.00	147	0	128	81	209
23	218	44.23	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	346	0	406	323	729
22	208	43.79	10.537	0.000	0.00	0.211	2.56	0.80	1.00	0.0	8.43	21.58	0.00	1153	0	803	967	1770
21	198	43.34	6.082	0.000	0.00	0.243	2.46	0.80	1.00	0.0	4.87	11.96	0.00	626	0	441	483	923
20	190	42.95	10.432	0.000	0.00	0.278	2.36	0.80	1.00	0.0	8.35	19.66	0.00	664	0	718	478	1195
19	183	42.63	3.033	0.000	0.00	0.243	2.46	0.80	1.00	0.0	2.43	5.97	0.00	195	0	216	156	372
18	178	42.38	5.651	0.000	0.00	0.224	2.52	0.80	1.00	0.0	4.52	11.38	0.00	394	0	410	310	720
17	173	42.12	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	197	0	203	154	357
16	170	42.00	2.130	0.000	0.00	0.338	2.20	0.80	1.00	0.0	1.70	3.75	0.00	190	0	134	77	211
15	169	41.91	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	110	0	110	77	187
14	167	41.82	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	110	0	110	77	187
13	165	41.73	1.398	0.000	0.00	0.222	2.53	0.80	1.00	0.0	1.12	2.82	0.00	99	0	100	76	177
12	163	41.60	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	197	0	201	152	353
11	158	41.33	6.526	0.000	0.00	0.259	2.41	0.80	1.00	0.0	5.22	12.58	0.00	406	0	442	302	744
10	148	40.76	11.294	0.000	0.00	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	721	0	788	595	1383
9	131	39.75	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1081	0	1153	871	2024
8	120	38.98	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	180	0	188	142	330
7	110	38.27	14.706	0.000	0.00	0.234	2.49	0.80	1.00	0.0	11.77	29.27	0.00	1543	0	952	851	1803
6	91	36.82	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1787	0	1068	985	2053
5	71	34.95	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1787	0	1014	935	1949
4	51	32.61	17.820	0.000	0.00	0.236	2.48	0.80	1.00	0.0	14.26	35.36	0.00	1153	0	980	717	1697
3	31	29.38	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1081	0	852	644	1496
2	11	25.21	16.813	0.000	0.00	0.223	2.52	0.80	1.00	0.0	13.45	33.93	0.00	1081	0	727	552	1279
1	1	25.21	10.128	0.000	0.00	1.000	2.10	0.80	1.00	0.0	8.10	17.02	0.00	1253	0	365	18	183

** = Section Force Exceeds Solidity Ratio Criteria

Totals 21,876 0 32,215

1.2D + 1.0W 210°

Gust Response Factor (Gh): 0.85

116.96 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)
36	295	47.13	10.632	0.000	0.00	0.262	2.40	0.85	1.00	0.0	9.04	21.71	0.00	580	0	870	277	1147
35	288	46.92	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	101	0	131	86	217
34	287	46.86	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	103	0	131	88	219
33	285	46.81	1.892	0.000	0.00	0.377	2.11	0.85	1.00	0.0	1.61	3.40	0.00	188	0	135	113	248
32	283	46.73	3.224	0.000	0.00	0.256	2.42	0.85	1.00	0.0	2.74	6.63	0.00	319	0	263	282	545
31	271	46.31	19.364	0.000	0.00	0.256	2.42	0.85	1.00	0.0	16.46	39.81	0.00	1919	0	1567	1676	3243
30	251	45.57	15.809	0.000	0.00	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	1165	0	1333	1115	2448
29	238	45.05	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	346	0	439	329	769
28	231	44.78	6.147	0.000	0.00	0.246	2.45	0.85	1.00	0.0	5.22	12.80	0.00	392	0	487	327	815
27	227	44.61	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	87	0	108	82	190
26	225	44.54	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	87	0	108	82	190
25	224	44.47	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	87	0	108	81	189
24	222	44.40	1.832	0.000	0.00	0.293	2.32	0.85	1.00	0.0	1.56	3.61	0.00	147	0	136	81	217
23	218	44.23	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	346	0	431	323	754
22	208	43.79	10.537	0.000	0.00	0.211	2.56	0.85	1.00	0.0	8.96	22.93	0.00	1153	0	853	967	1821

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0W 210°

Gust Response Factor (Gh): 0.85

116.96 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)
21	198	43.34	6.082	0.000	0.00	0.243	2.46	0.85	1.00	0.0	5.17	12.71	0.00	626	0	468	483	951
20	190	42.95	10.432	0.000	0.00	0.278	2.36	0.85	1.00	0.0	8.87	20.88	0.00	664	0	762	478	1240
19	183	42.63	3.033	0.000	0.00	0.243	2.46	0.85	1.00	0.0	2.58	6.34	0.00	195	0	230	156	385
18	178	42.38	5.651	0.000	0.00	0.224	2.52	0.85	1.00	0.0	4.80	12.09	0.00	394	0	435	310	745
17	173	42.12	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	197	0	216	154	370
16	170	42.00	2.130	0.000	0.00	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	190	0	142	77	219
15	169	41.91	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	110	0	117	77	194
14	167	41.82	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	110	0	117	77	193
13	165	41.73	1.398	0.000	0.00	0.222	2.53	0.85	1.00	0.0	1.19	3.00	0.00	99	0	106	76	183
12	163	41.60	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	197	0	213	152	365
11	158	41.33	6.526	0.000	0.00	0.259	2.41	0.85	1.00	0.0	5.55	13.37	0.00	406	0	470	302	772
10	148	40.76	11.294	0.000	0.00	0.224	2.52	0.85	1.00	0.0	9.60	24.16	0.00	721	0	837	595	1432
9	131	39.75	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1081	0	1225	871	2096
8	120	38.98	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	180	0	200	142	342
7	110	38.27	14.706	0.000	0.00	0.234	2.49	0.85	1.00	0.0	12.50	31.10	0.00	1543	0	1011	851	1863
6	91	36.82	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1787	0	1134	985	2120
5	71	34.95	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1787	0	1077	935	2012
4	51	32.61	17.820	0.000	0.00	0.236	2.48	0.85	1.00	0.0	15.15	37.57	0.00	1153	0	1041	717	1758
3	31	29.38	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1081	0	905	644	1549
2	11	25.21	16.813	0.000	0.00	0.223	2.52	0.85	1.00	0.0	14.29	36.05	0.00	1081	0	772	552	1325
1	1	25.21	10.128	0.000	0.00	1.000	2.10	0.85	1.00	0.0	8.61	18.08	0.00	1253	0	387	18	183

** = Section Force Exceeds Solidity Ratio Criteria

Totals 21,876 0 33,308

1.2D + 1.0W 240°

Gust Response Factor (Gh): 0.85

116.96 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)
36	295	47.13	10.632	0.000	0.00	0.262	2.40	1.00	1.00	0.0	10.63	25.54	0.00	580	0	1023	277	1301
35	288	46.92	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	101	0	154	86	240
34	287	46.86	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	103	0	154	88	242
33	285	46.81	1.892	0.000	0.00	0.377	2.11	1.00	1.00	0.0	1.89	4.00	0.00	188	0	159	113	272
32	283	46.73	3.224	0.000	0.00	0.256	2.42	1.00	1.00	0.0	3.22	7.80	0.00	319	0	310	282	591
31	271	46.31	19.364	0.000	0.00	0.256	2.42	1.00	1.00	0.0	19.36	46.83	0.00	1919	0	1844	1676	3520
30	251	45.57	15.809	0.000	0.00	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	1165	0	1568	1115	2683
29	238	45.05	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	346	0	517	329	846
28	231	44.78	6.147	0.000	0.00	0.246	2.45	1.00	1.00	0.0	6.15	15.06	0.00	392	0	573	327	901
27	227	44.61	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	87	0	127	82	209
26	225	44.54	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	87	0	127	82	209
25	224	44.47	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	87	0	127	81	208
24	222	44.40	1.832	0.000	0.00	0.293	2.32	1.00	1.00	0.0	1.83	4.24	0.00	147	0	160	81	241
23	218	44.23	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	346	0	507	323	831
22	208	43.79	10.537	0.000	0.00	0.211	2.56	1.00	1.00	0.0	10.54	26.97	0.00	1153	0	1004	967	1971
21	198	43.34	6.082	0.000	0.00	0.243	2.46	1.00	1.00	0.0	6.08	14.95	0.00	626	0	551	483	1033
20	190	42.95	10.432	0.000	0.00	0.278	2.36	1.00	1.00	0.0	10.43	24.57	0.00	664	0	897	478	1375
19	183	42.63	3.033	0.000	0.00	0.243	2.46	1.00	1.00	0.0	3.03	7.46	0.00	195	0	270	156	426
18	178	42.38	5.651	0.000	0.00	0.224	2.52	1.00	1.00	0.0	5.65	14.22	0.00	394	0	512	310	822
17	173	42.12	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	197	0	254	154	408
16	170	42.00	2.130	0.000	0.00	0.338	2.20	1.00	1.00	0.0	2.13	4.69	0.00	190	0	167	77	244
15	169	41.91	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	110	0	138	77	215
14	167	41.82	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	110	0	138	77	214
13	165	41.73	1.398	0.000	0.00	0.222	2.53	1.00	1.00	0.0	1.40	3.53	0.00	99	0	125	76	202
12	163	41.60	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	197	0	251	152	403
11	158	41.33	6.526	0.000	0.00	0.259	2.41	1.00	1.00	0.0	6.53	15.73	0.00	406	0	553	302	855
10	148	40.76	11.294	0.000	0.00	0.224	2.52	1.00	1.00	0.0	11.29	28.42	0.00	721	0	985	595	1580
9	131	39.75	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1081	0	1441	871	2312
8	120	38.98	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	180	0	235	142	377
7	110	38.27	14.706	0.000	0.00	0.234	2.49	1.00	1.00	0.0	14.71	36.58	0.00	1543	0	1190	851	2041
6	91	36.82	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1787	0	1335	985	2320
5	71	34.95	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1787	0	1267	935	2202
4	51	32.61	17.820	0.000	0.00	0.236	2.48	1.00	1.00	0.0	17.82	44.20	0.00	1153	0	1225	717	1942
3	31	29.38	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1081	0	1065	644	1709
2	11	25.21	16.813	0.000	0.00	0.223	2.52	1.00	1.00	0.0	16.81	42.41	0.00	1081	0	909	552	1461
1	1	25.21	10.128	0.000	0.00	1.000	2.10	1.00	1.00	0.0	10.13	21.27	0.00	1253	0	456	18	183

** = Section Force Exceeds Solidity Ratio Criteria

Totals 21,876 0 36,587

1.2D + 1.0W 300°

Gust Response Factor (Gh): 0.85

116.96 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)
36	295	47.13	10.632	0.000	0.00	0.262	2.40	0.80	1.00	0.0	8.51	20.43	0.00	580	0	819	277	1096
35	288	46.92	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	101	0	123	86	209
34	287	46.86	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	103	0	123	88	211
33	285	46.81	1.892	0.000	0.00	0.377	2.11	0.80	1.00	0.0	1.51	3.20	0.00	188	0	127	113	240
32	283	46.73	3.224	0.000	0.00	0.256	2.42	0.80	1.00	0.0	2.58	6.24	0.00	319	0	248	282	529
31	271	46.31	19.364	0.000	0.00	0.256	2.42	0.80	1.00	0.0	15.49	37.47	0.00	1919	0	1475	1676	3151

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0W 300°

Gust Response Factor (Gh): 0.85

116.96 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)
30	251	45.57	15.809	0.000	0.00	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	1165	0	1254	1115	2369
29	238	45.05	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	346	0	413	329	743
28	231	44.78	6.147	0.000	0.00	0.246	2.45	0.80	1.00	0.0	4.92	12.05	0.00	392	0	459	327	786
27	227	44.61	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	87	0	102	82	183
26	225	44.54	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	87	0	102	82	183
25	224	44.47	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	87	0	102	81	183
24	222	44.40	1.832	0.000	0.00	0.293	2.32	0.80	1.00	0.0	1.47	3.39	0.00	147	0	128	81	209
23	218	44.23	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	346	0	406	323	729
22	208	43.79	10.537	0.000	0.00	0.211	2.56	0.80	1.00	0.0	8.43	21.58	0.00	1153	0	803	967	1770
21	198	43.34	6.082	0.000	0.00	0.243	2.46	0.80	1.00	0.0	4.87	11.96	0.00	626	0	441	483	923
20	190	42.95	10.432	0.000	0.00	0.278	2.36	0.80	1.00	0.0	8.35	19.66	0.00	664	0	718	478	1195
19	183	42.63	3.033	0.000	0.00	0.243	2.46	0.80	1.00	0.0	2.43	5.97	0.00	195	0	216	156	372
18	178	42.38	5.651	0.000	0.00	0.224	2.52	0.80	1.00	0.0	4.52	11.38	0.00	394	0	410	310	720
17	173	42.12	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	197	0	203	154	357
16	170	42.00	2.130	0.000	0.00	0.338	2.20	0.80	1.00	0.0	1.70	3.75	0.00	190	0	134	77	211
15	169	41.91	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	110	0	110	77	187
14	167	41.82	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	110	0	110	77	187
13	165	41.73	1.398	0.000	0.00	0.222	2.53	0.80	1.00	0.0	1.12	2.82	0.00	99	0	100	76	177
12	163	41.60	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	197	0	201	152	353
11	158	41.33	6.526	0.000	0.00	0.259	2.41	0.80	1.00	0.0	5.22	12.58	0.00	406	0	442	302	744
10	148	40.76	11.294	0.000	0.00	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	721	0	788	595	1383
9	131	39.75	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1081	0	1153	871	2024
8	120	38.98	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	180	0	188	142	330
7	110	38.27	14.706	0.000	0.00	0.234	2.49	0.80	1.00	0.0	11.77	29.27	0.00	1543	0	952	851	1803
6	91	36.82	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1787	0	1068	985	2053
5	71	34.95	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1787	0	1014	935	1949
4	51	32.61	17.820	0.000	0.00	0.236	2.48	0.80	1.00	0.0	14.26	35.36	0.00	1153	0	980	717	1697
3	31	29.38	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1081	0	852	644	1496
2	11	25.21	16.813	0.000	0.00	0.223	2.52	0.80	1.00	0.0	13.45	33.93	0.00	1081	0	727	552	1279
1	1	25.21	10.128	0.000	0.00	1.000	2.10	0.80	1.00	0.0	8.10	17.02	0.00	1253	0	365	18	183
** = Section Force Exceeds Solidity Ratio Criteria														Totals	21,876	0		32,215

1.2D + 1.0W 330°

Gust Response Factor (Gh): 0.85

116.96 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)		
36	295	47.13	10.632	0.000	0.00	0.262	2.40	0.85	1.00	0.0	9.04	21.71	0.00	580	0	870	277	1147		
35	288	46.92	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	101	0	131	86	217		
34	287	46.86	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	103	0	131	88	219		
33	285	46.81	1.892	0.000	0.00	0.377	2.11	0.85	1.00	0.0	1.61	3.40	0.00	188	0	135	113	248		
32	283	46.73	3.224	0.000	0.00	0.256	2.42	0.85	1.00	0.0	2.74	6.63	0.00	319	0	263	282	545		
31	271	46.31	19.364	0.000	0.00	0.256	2.42	0.85	1.00	0.0	16.46	39.81	0.00	1919	0	1567	1676	3243		
30	251	45.57	15.809	0.000	0.00	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	1165	0	1333	1115	2448		
29	238	45.05	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	346	0	439	329	769		
28	231	44.78	6.147	0.000	0.00	0.246	2.45	0.85	1.00	0.0	5.22	12.80	0.00	392	0	487	327	815		
27	227	44.61	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	87	0	108	82	190		
26	225	44.54	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	87	0	108	82	190		
25	224	44.47	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	87	0	108	81	189		
24	222	44.40	1.832	0.000	0.00	0.293	2.32	0.85	1.00	0.0	1.56	3.61	0.00	147	0	136	81	217		
23	218	44.23	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	346	0	431	323	754		
22	208	43.79	10.537	0.000	0.00	0.211	2.56	0.85	1.00	0.0	8.96	22.93	0.00	1153	0	853	967	1821		
21	198	43.34	6.082	0.000	0.00	0.243	2.46	0.85	1.00	0.0	5.17	12.71	0.00	626	0	468	483	951		
20	190	42.95	10.432	0.000	0.00	0.278	2.36	0.85	1.00	0.0	8.87	20.88	0.00	664	0	762	478	1240		
19	183	42.63	3.033	0.000	0.00	0.243	2.46	0.85	1.00	0.0	2.58	6.34	0.00	195	0	230	156	385		
18	178	42.38	5.651	0.000	0.00	0.224	2.52	0.85	1.00	0.0	4.80	12.09	0.00	394	0	435	310	745		
17	173	42.12	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	197	0	216	154	370		
16	170	42.00	2.130	0.000	0.00	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	190	0	142	77	219		
15	169	41.91	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	110	0	117	77	194		
14	167	41.82	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	110	0	117	77	193		
13	165	41.73	1.398	0.000	0.00	0.222	2.53	0.85	1.00	0.0	1.19	3.00	0.00	99	0	106	76	183		
12	163	41.60	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	197	0	213	152	365		
11	158	41.33	6.526	0.000	0.00	0.259	2.41	0.85	1.00	0.0	5.55	13.37	0.00	406	0	470	302	772		
10	148	40.76	11.294	0.000	0.00	0.224	2.52	0.85	1.00	0.0	9.60	24.16	0.00	721	0	837	595	1432		
9	131	39.75	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1081	0	1225	871	2096		
8	120	38.98	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	180	0	200	142	342		
7	110	38.27	14.706	0.000	0.00	0.234	2.49	0.85	1.00	0.0	12.50	31.10	0.00	1543	0	1011	851	1863		
6	91	36.82	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1787	0	1134	985	2120		
5	71	34.95	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1787	0	1077	935	2012		
4	51	32.61	17.820	0.000	0.00	0.236	2.48	0.85	1.00	0.0	15.15	37.57	0.00	1153	0	1041	717	1758		
3	31	29.38	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1081	0	905	644	1549		
2	11	25.21	16.813	0.000	0.00	0.223	2.52	0.85	1.00	0.0	14.29	36.05	0.00	1081	0	772	552	1325		
1	1	25.21	10.128	0.000	0.00	1.000	2.10	0.85	1.00	0.0	8.61	18.08	0.00	1253	0	387	18	183		
** = Section Force Exceeds Solidity Ratio Criteria														Totals	21,876	0			33,308	**

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0Di + 1.0Wi Normal

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
36	295	2.95	10.632	2.375	2.38	0.317	2.25	1.00	1.00	0.3	13.01	29.30	2.38	638	58	73	21	94
35	288	2.93	1.593	0.359	0.36	0.306	2.28	1.00	1.00	0.3	1.95	4.45	0.36	117	16	11	6	17
34	287	2.93	1.593	0.359	0.36	0.306	2.28	1.00	1.00	0.3	1.95	4.45	0.36	120	16	11	7	18
33	285	2.93	1.892	0.445	0.44	0.460	1.96	1.00	1.00	0.3	2.34	4.57	0.44	224	36	11	8	19
32	283	2.92	3.224	0.715	0.72	0.310	2.27	1.00	1.00	0.3	3.94	8.94	0.72	361	42	22	20	42
31	271	2.89	19.364	4.275	4.27	0.309	2.27	1.00	1.00	0.3	23.64	53.69	4.27	2168	249	132	119	251
30	251	2.85	15.809	4.242	4.24	0.264	2.39	1.00	1.00	0.3	20.05	48.02	4.24	1361	196	116	83	199
29	238	2.82	5.272	1.407	1.41	0.264	2.40	1.00	1.00	0.3	6.68	16.00	1.41	408	61	38	25	63
28	231	2.80	6.147	1.403	1.40	0.299	2.30	1.00	1.00	0.3	7.55	17.36	1.40	467	75	41	24	66
27	227	2.79	1.308	0.350	0.35	0.262	2.40	1.00	1.00	0.3	1.66	3.98	0.35	102	15	9	6	16
26	225	2.78	1.308	0.350	0.35	0.262	2.40	1.00	1.00	0.3	1.66	3.98	0.35	103	16	9	6	16
25	224	2.78	1.308	0.350	0.35	0.262	2.40	1.00	1.00	0.3	1.66	3.98	0.35	102	15	9	6	16
24	222	2.78	1.832	0.499	0.50	0.368	2.13	1.00	1.00	0.3	2.33	4.97	0.50	176	29	12	6	18
23	218	2.76	5.272	1.394	1.39	0.264	2.40	1.00	1.00	0.3	6.67	15.98	1.39	407	61	38	24	62
22	208	2.74	10.537	2.774	2.77	0.264	2.40	1.00	1.00	0.3	13.31	31.92	2.77	1313	160	74	70	144
21	198	2.71	6.082	1.381	1.38	0.295	2.31	1.00	1.00	0.3	7.46	17.23	1.38	706	80	40	34	74
20	190	2.68	10.432	2.062	2.06	0.330	2.22	1.00	1.00	0.3	12.49	27.74	2.06	774	111	63	35	98
19	183	2.66	3.033	0.684	0.68	0.295	2.31	1.00	1.00	0.3	3.72	8.59	0.68	225	30	19	12	31
18	178	2.65	5.651	1.366	1.37	0.276	2.36	1.00	1.00	0.3	7.02	16.58	1.37	454	59	37	23	60
17	173	2.63	2.822	0.681	0.68	0.276	2.36	1.00	1.00	0.3	3.50	8.28	0.68	226	30	19	11	30
16	170	2.62	2.130	0.486	0.49	0.410	2.04	1.00	1.00	0.2	2.62	5.35	0.49	218	28	12	5	17
15	169	2.62	1.593	0.340	0.34	0.303	2.29	1.00	1.00	0.2	1.93	4.42	0.34	125	15	10	6	16
14	167	2.61	1.593	0.340	0.34	0.303	2.29	1.00	1.00	0.2	1.93	4.42	0.34	124	15	10	6	15
13	165	2.61	1.398	0.340	0.34	0.272	2.37	1.00	1.00	0.2	1.74	4.12	0.34	114	15	9	6	15
12	163	2.60	2.822	0.677	0.68	0.275	2.36	1.00	1.00	0.2	3.50	8.27	0.68	226	29	18	11	30
11	158	2.58	6.526	1.350	1.35	0.309	2.27	1.00	1.00	0.2	7.88	17.89	1.35	478	72	39	22	62
10	148	2.55	11.294	2.682	2.68	0.275	2.37	1.00	1.00	0.2	13.98	33.06	2.68	837	116	72	44	116
9	131	2.48	16.945	3.975	3.98	0.274	2.37	1.00	1.00	0.2	20.92	49.53	3.98	1253	172	105	65	169
8	120	2.44	2.822	0.656	0.66	0.274	2.37	1.00	1.00	0.2	3.48	8.24	0.66	208	28	17	11	28
7	110	2.39	14.706	3.393	3.39	0.284	2.34	1.00	1.00	0.2	18.10	42.32	3.39	1743	200	86	62	148
6	91	2.30	16.945	3.833	3.83	0.272	2.37	1.00	1.00	0.2	20.78	49.29	3.83	2008	221	96	71	168
5	71	2.18	16.945	3.740	3.74	0.271	2.38	1.00	1.00	0.2	20.68	49.14	3.74	2002	215	91	68	159
4	51	2.04	17.820	3.748	3.75	0.283	2.34	1.00	1.00	0.2	21.57	50.53	3.75	1318	165	88	52	140
3	31	1.84	16.945	3.444	3.44	0.267	2.39	1.00	1.00	0.2	20.39	48.65	3.44	1228	147	76	47	123
2	11	1.58	16.813	3.109	3.11	0.262	2.40	1.00	1.00	0.2	19.92	47.88	3.11	1213	131	64	40	104
1	1	1.58	10.128	0.196	0.20	1.000	2.10	1.00	1.00	0.1	10.32	21.68	0.20	1311	58	29	1	12

** = Section Force Exceeds Solidity Ratio Criteria

Totals 24,858 2,982 2,654

1.2D + 1.0Di + 1.0Wi 60°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
36	295	2.95	10.632	2.375	2.38	0.317	2.25	0.80	1.00	0.3	10.88	24.51	2.38	638	58	61	21	82
35	288	2.93	1.593	0.359	0.36	0.306	2.28	0.80	1.00	0.3	1.63	3.72	0.36	117	16	9	6	16
34	287	2.93	1.593	0.359	0.36	0.306	2.28	0.80	1.00	0.3	1.63	3.72	0.36	120	16	9	7	16
33	285	2.93	1.892	0.445	0.44	0.460	1.96	0.80	1.00	0.3	1.96	3.83	0.44	224	36	10	8	17
32	283	2.92	3.224	0.715	0.72	0.310	2.27	0.80	1.00	0.3	3.29	7.48	0.72	361	42	19	20	39
31	271	2.89	19.364	4.275	4.27	0.309	2.27	0.80	1.00	0.3	19.77	44.90	4.27	2168	249	110	119	229
30	251	2.85	15.809	4.242	4.24	0.264	2.39	0.80	1.00	0.3	16.89	40.45	4.24	1361	196	98	83	181
29	238	2.82	5.272	1.407	1.41	0.264	2.40	0.80	1.00	0.3	5.62	13.47	1.41	408	61	32	25	57
28	231	2.80	6.147	1.403	1.40	0.299	2.30	0.80	1.00	0.3	6.32	14.53	1.40	467	75	35	24	59
27	227	2.79	1.308	0.350	0.35	0.262	2.40	0.80	1.00	0.3	1.40	3.36	0.35	102	15	8	6	14
26	225	2.78	1.308	0.350	0.35	0.262	2.40	0.80	1.00	0.3	1.40	3.35	0.35	103	16	8	6	14
25	224	2.78	1.308	0.350	0.35	0.262	2.40	0.80	1.00	0.3	1.40	3.35	0.35	102	15	8	6	14
24	222	2.78	1.832	0.499	0.50	0.368	2.13	0.80	1.00	0.3	1.97	4.19	0.50	176	29	10	6	16
23	218	2.76	5.272	1.394	1.39	0.264	2.40	0.80	1.00	0.3	5.61	13.45	1.39	407	61	32	24	56
22	208	2.74	10.537	2.774	2.77	0.264	2.40	0.80	1.00	0.3	11.20	26.86	2.77	1313	160	62	70	132
21	198	2.71	6.082	1.381	1.38	0.295	2.31	0.80	1.00	0.3	6.25	14.42	1.38	706	80	33	34	68
20	190	2.68	10.432	2.062	2.06	0.330	2.22	0.80	1.00	0.3	10.41	23.11	2.06	774	111	53	35	88
19	183	2.66	3.033	0.684	0.68	0.295	2.31	0.80	1.00	0.3	3.11	7.19	0.68	225	30	16	12	28
18	178	2.65	5.651	1.366	1.37	0.276	2.36	0.80	1.00	0.3	5.89	13.91	1.37	454	59	31	23	54
17	173	2.63	2.822	0.681	0.68	0.276	2.36	0.80	1.00	0.3	2.94	6.94	0.68	226	30	16	11	27
16	170	2.62	2.130	0.486	0.49	0.410	2.04	0.80	1.00	0.2	2.19	4.48	0.49	218	28	10	5	15
15	169	2.62	1.593	0.340	0.34	0.303	2.29	0.80	1.00	0.2	1.61	3.69	0.34	125	15	8	6	14
14	167	2.61	1.593	0.340	0.34	0.303	2.29	0.80	1.00	0.2	1.61	3.69	0.34	124	15	8	6	14
13	165	2.61	1.398	0.340	0.34	0.272	2.37	0.80	1.00	0.2	1.46	3.46	0.34	114	15	8	6	13
12	163	2.60	2.822	0.677	0.68	0.275	2.36	0.80	1.00	0.2	2.93	6.94	0.68	226	29	15	11	27
11	158	2.58	6.526	1.350	1.35	0.309	2.27	0.80	1.00	0.2	6.57	14.93	1.35	478	72	33	22	55
10	148	2.55	11.294	2.682	2.68	0.275	2.37	0.80	1.00	0.2	11.72	27.72	2.68	837	116	60	44	104
9	131	2.48	16.945	3.975	3.98	0.274	2.37	0.80	1.00	0.2	17.53	41.50	3.98	1253	172	88	65	152
8	120	2.44	2.822	0.656	0.66	0.274	2.37	0.80	1.00	0.2	2.91	6.90	0.66	208	28	14	11	25
7	110	2.39	14.706	3.393	3.39	0.284	2.34	0.80	1.00	0.2	15.16	35.44	3.39	1743	200	72	62	134
6	91	2.30	16.945	3.833	3.83	0.272	2.37	0.80	1.00	0.2	17.39	41.25	3.83	2008	221	81	71	152
5	71	2.18	16.945	3.740	3.74	0.271	2.38	0.80	1.00	0.2	17.30	41.09	3.74	2002	215	76	68	144
4	51	2.04	17.820	3.748	3.75	0.283	2.34	0.80	1.00	0.2	18.00	42.18	3.75	1318	165	73	52	126

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 60°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
3	31	1.84	16.945	3.444	3.44	0.267	2.39	0.80	1.00	0.2	17.00	40.56	3.44	1228	147	63	47	110
2	11	1.58	16.813	3.109	3.11	0.262	2.40	0.80	1.00	0.2	16.56	39.80	3.11	1213	131	53	40	93
1	1	1.58	10.128	0.196	0.20	1.000	2.10	0.80	1.00	0.1	8.30	17.43	0.20	1311	58	23	1	12

** = Section Force Exceeds Solidity Ratio Criteria

Totals 24,858 2,982 2,397

1.2D + 1.0Di + 1.0Wi 90°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
36	295	2.95	10.632	2.375	2.38	0.317	2.25	0.85	1.00	0.3	11.41	25.71	2.38	638	58	64	21	85
35	288	2.93	1.593	0.359	0.36	0.306	2.28	0.85	1.00	0.3	1.71	3.91	0.36	117	16	10	6	16
34	287	2.93	1.593	0.359	0.36	0.306	2.28	0.85	1.00	0.3	1.71	3.91	0.36	120	16	10	7	16
33	285	2.93	1.892	0.445	0.44	0.460	1.96	0.85	1.00	0.3	2.05	4.02	0.44	224	36	10	8	18
32	283	2.92	3.224	0.715	0.72	0.310	2.27	0.85	1.00	0.3	3.46	7.85	0.72	361	42	19	20	39
31	271	2.89	19.364	4.275	4.27	0.309	2.27	0.85	1.00	0.3	20.73	47.09	4.27	2168	249	116	119	235
30	251	2.85	15.809	4.242	4.24	0.264	2.39	0.85	1.00	0.3	17.68	42.34	4.24	1361	196	103	83	185
29	238	2.82	5.272	1.407	1.41	0.264	2.40	0.85	1.00	0.3	5.89	14.11	1.41	408	61	34	25	59
28	231	2.80	6.147	1.403	1.40	0.299	2.30	0.85	1.00	0.3	6.63	15.24	1.40	467	75	36	24	61
27	227	2.79	1.308	0.350	0.35	0.262	2.40	0.85	1.00	0.3	1.46	3.51	0.35	102	15	8	6	14
26	225	2.78	1.308	0.350	0.35	0.262	2.40	0.85	1.00	0.3	1.46	3.51	0.35	103	16	8	6	14
25	224	2.78	1.308	0.350	0.35	0.262	2.40	0.85	1.00	0.3	1.46	3.51	0.35	102	15	8	6	14
24	222	2.78	1.832	0.499	0.50	0.368	2.13	0.85	1.00	0.3	2.06	4.38	0.50	176	29	10	6	16
23	218	2.76	5.272	1.394	1.39	0.264	2.40	0.85	1.00	0.3	5.88	14.08	1.39	407	61	33	24	57
22	208	2.74	10.537	2.774	2.77	0.264	2.40	0.85	1.00	0.3	11.73	28.13	2.77	1313	160	65	70	135
21	198	2.71	6.082	1.381	1.38	0.295	2.31	0.85	1.00	0.3	6.55	15.12	1.38	706	80	35	34	69
20	190	2.68	10.432	2.062	2.06	0.330	2.22	0.85	1.00	0.3	10.93	24.26	2.06	774	111	55	35	90
19	183	2.66	3.033	0.684	0.68	0.295	2.31	0.85	1.00	0.3	3.26	7.54	0.68	225	30	17	12	29
18	178	2.65	5.651	1.366	1.37	0.276	2.36	0.85	1.00	0.3	6.17	14.58	1.37	454	59	33	23	56
17	173	2.63	2.822	0.681	0.68	0.276	2.36	0.85	1.00	0.3	3.08	7.28	0.68	226	30	16	11	28
16	170	2.62	2.130	0.486	0.49	0.410	2.04	0.85	1.00	0.2	2.30	4.69	0.49	218	28	10	5	16
15	169	2.62	1.593	0.340	0.34	0.303	2.29	0.85	1.00	0.2	1.69	3.88	0.34	125	15	9	6	14
14	167	2.61	1.593	0.340	0.34	0.303	2.29	0.85	1.00	0.2	1.69	3.88	0.34	124	15	9	6	14
13	165	2.61	1.398	0.340	0.34	0.272	2.37	0.85	1.00	0.2	1.53	3.62	0.34	114	15	8	6	14
12	163	2.60	2.822	0.677	0.68	0.275	2.36	0.85	1.00	0.2	3.08	7.27	0.68	226	29	16	11	27
11	158	2.58	6.526	1.350	1.35	0.309	2.27	0.85	1.00	0.2	6.90	15.67	1.35	478	72	34	22	57
10	148	2.55	11.294	2.682	2.68	0.275	2.37	0.85	1.00	0.2	12.28	29.05	2.68	837	116	63	44	107
9	131	2.48	16.945	3.975	3.98	0.274	2.37	0.85	1.00	0.2	18.38	43.51	3.98	1253	172	92	65	157
8	120	2.44	2.822	0.656	0.66	0.274	2.37	0.85	1.00	0.2	3.05	7.23	0.66	208	28	15	11	26
7	110	2.39	14.706	3.393	3.39	0.284	2.34	0.85	1.00	0.2	15.89	37.16	3.39	1743	200	76	62	137
6	91	2.30	16.945	3.833	3.83	0.272	2.37	0.85	1.00	0.2	18.24	43.26	3.83	2008	221	85	71	156
5	71	2.18	16.945	3.740	3.74	0.271	2.38	0.85	1.00	0.2	18.14	43.10	3.74	2002	215	80	68	148
4	51	2.04	17.820	3.748	3.75	0.283	2.34	0.85	1.00	0.2	18.89	44.27	3.75	1318	165	77	52	129
3	31	1.84	16.945	3.444	3.44	0.267	2.39	0.85	1.00	0.2	17.85	42.59	3.44	1228	147	66	47	114
2	11	1.58	16.813	3.109	3.11	0.262	2.40	0.85	1.00	0.2	17.40	41.82	3.11	1213	131	56	40	96
1	1	1.58	10.128	0.196	0.20	1.000	2.10	0.85	1.00	0.1	8.81	18.49	0.20	1311	58	25	1	12

** = Section Force Exceeds Solidity Ratio Criteria

Totals 24,858 2,982 2,461

1.2D + 1.0Di + 1.0Wi 120°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _i	D _i	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
36	295	2.95	10.632	2.375	2.38	0.317	2.25	1.00	1.00	0.3	13.01	29.30	2.38	638	58	73	21	94
35	288	2.93	1.593	0.359	0.36	0.306	2.28	1.00	1.00	0.3	1.95	4.45	0.36	117	16	11	6	17
34	287	2.93	1.593	0.359	0.36	0.306	2.28	1.00	1.00	0.3	1.95	4.45	0.36	120	16	11	7	18
33	285	2.93	1.892	0.445	0.44	0.460	1.96	1.00	1.00	0.3	2.34	4.57	0.44	224	36	11	8	19
32	283	2.92	3.224	0.715	0.72	0.310	2.27	1.00	1.00	0.3	3.94	8.94	0.72	361	42	22	20	42
31	271	2.89	19.364	4.275	4.27	0.309	2.27	1.00	1.00	0.3	23.64	53.69	4.27	2168	249	132	119	251
30	251	2.85	15.809	4.242	4.24	0.264	2.39	1.00	1.00	0.3	20.05	48.02	4.24	1361	196	116	83	199
29	238	2.82	5.272	1.407	1.41	0.264	2.40	1.00	1.00	0.3	6.68	16.00	1.41	408	61	38	25	63
28	231	2.80	6.147	1.403	1.40	0.299	2.30	1.00	1.00	0.3	7.55	17.36	1.40	467	75	41	24	66
27	227	2.79	1.308	0.350	0.35	0.262	2.40	1.00	1.00	0.3	1.66	3.98	0.35	102	15	9	6	16
26	225	2.78	1.308	0.350	0.35	0.262	2.40	1.00	1.00	0.3	1.66	3.98	0.35	103	16	9	6	16
25	224	2.78	1.308	0.350	0.35	0.262	2.40	1.00	1.00	0.3	1.66	3.98	0.35	102	15	9	6	16
24	222	2.78	1.832	0.499	0.50	0.368	2.13	1.00	1.00	0.3	2.33	4.97	0.50	176	29	12	6	18
23	218	2.76	5.272	1.394	1.39	0.264	2.40	1.00	1.00	0.3	6.67	15.98	1.39	407	61	38	24	62
22	208	2.74	10.537	2.774	2.77	0.264	2.40	1.00	1.00	0.3	13.31	31.92	2.77	1313	160	74	70	144
21	198	2.71	6.082	1.381	1.38	0.295	2.31	1.00	1.00	0.3	7.46	17.23	1.38	706	80	40	34	74
20	190	2.68	10.432	2.062	2.06	0.330	2.22	1.00	1.00	0.3	12.49	27.74	2.06	774	111	63	35	98
19	183	2.66	3.033	0.684	0.68	0.295	2.31	1.00	1.00	0.3	3.72	8.59	0.68	225	30	19	12	31
18	178	2.65	5.651	1.366	1.37	0.276	2.36	1.00	1.00	0.3	7.02	16.58	1.37	454	59	37	23	60
17	173	2.63	2.822	0.681	0.68	0.276	2.36	1.00	1.00	0.3	3.50	8.28	0.68	226	30	19	11	30
16	170	2.62	2.130	0.486	0.49	0.410	2.04	1.00	1.00	0.2	2.62	5.35	0.49	218	28	12	5	17
15	169	2.62	1.593	0.340	0.34	0.303	2.29	1.00	1.00	0.2	1.93	4.42	0.34	125	15	10	6	16
14	167	2.61	1.593	0.340	0.34	0.303	2.29	1.00	1.00	0.2	1.93	4.42	0.34	124	15	10	6	15
13	165	2.61	1.398	0.340	0.34	0.272	2.37	1.00	1.00	0.2	1.74	4.12	0.34	114	15	9	6	15

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 120°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
12	163	2.60	2.822	0.677	0.68	0.275	2.36	1.00	1.00	0.2	3.50	8.27	0.68	226	29	18	11	30
11	158	2.58	6.526	1.350	1.35	0.309	2.27	1.00	1.00	0.2	7.88	17.89	1.35	478	72	39	22	62
10	148	2.55	11.294	2.682	2.68	0.275	2.37	1.00	1.00	0.2	13.98	33.06	2.68	837	116	72	44	116
9	131	2.48	16.945	3.975	3.98	0.274	2.37	1.00	1.00	0.2	20.92	49.53	3.98	1253	172	105	65	169
8	120	2.44	2.822	0.656	0.66	0.274	2.37	1.00	1.00	0.2	3.48	8.24	0.66	208	28	17	11	28
7	110	2.39	14.706	3.393	3.39	0.284	2.34	1.00	1.00	0.2	18.10	42.32	3.39	1743	200	86	62	148
6	91	2.30	16.945	3.833	3.83	0.272	2.37	1.00	1.00	0.2	20.78	49.29	3.83	2008	221	96	71	168
5	71	2.18	16.945	3.740	3.74	0.271	2.38	1.00	1.00	0.2	20.68	49.14	3.74	2002	215	91	68	159
4	51	2.04	17.820	3.748	3.75	0.283	2.34	1.00	1.00	0.2	21.57	50.53	3.75	1318	165	88	52	140
3	31	1.84	16.945	3.444	3.44	0.267	2.39	1.00	1.00	0.2	20.39	48.65	3.44	1228	147	76	47	123
2	11	1.58	16.813	3.109	3.11	0.262	2.40	1.00	1.00	0.2	19.92	47.88	3.11	1213	131	64	40	104
1	1	1.58	10.128	0.196	0.20	1.000	2.10	1.00	1.00	0.1	10.32	21.68	0.20	1311	58	29	1	12

** = Section Force Exceeds Solidity Ratio Criteria

Totals 24,858 2,982 2,654

1.2D + 1.0Di + 1.0Wi 180°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
36	295	2.95	10.632	2.375	2.38	0.317	2.25	0.80	1.00	0.3	10.88	24.51	2.38	638	58	61	21	82
35	288	2.93	1.593	0.359	0.36	0.306	2.28	0.80	1.00	0.3	1.63	3.72	0.36	117	16	9	6	16
34	287	2.93	1.593	0.359	0.36	0.306	2.28	0.80	1.00	0.3	1.63	3.72	0.36	120	16	9	7	16
33	285	2.93	1.892	0.445	0.44	0.460	1.96	0.80	1.00	0.3	1.96	3.83	0.44	224	36	10	8	17
32	283	2.92	3.224	0.715	0.72	0.310	2.27	0.80	1.00	0.3	3.29	7.48	0.72	361	42	19	20	39
31	271	2.89	19.364	4.275	4.27	0.309	2.27	0.80	1.00	0.3	19.77	44.90	4.27	2168	249	110	119	229
30	251	2.85	15.809	4.242	4.24	0.264	2.39	0.80	1.00	0.3	16.89	40.45	4.24	1361	196	98	83	181
29	238	2.82	5.272	1.407	1.41	0.264	2.40	0.80	1.00	0.3	5.62	13.47	1.41	408	61	32	25	57
28	231	2.80	6.147	1.403	1.40	0.299	2.30	0.80	1.00	0.3	6.32	14.53	1.40	467	75	35	24	59
27	227	2.79	1.308	0.350	0.35	0.262	2.40	0.80	1.00	0.3	1.40	3.36	0.35	102	15	8	6	14
26	225	2.78	1.308	0.350	0.35	0.262	2.40	0.80	1.00	0.3	1.40	3.35	0.35	103	16	8	6	14
25	224	2.78	1.308	0.350	0.35	0.262	2.40	0.80	1.00	0.3	1.40	3.35	0.35	102	15	8	6	14
24	222	2.78	1.832	0.499	0.50	0.368	2.13	0.80	1.00	0.3	1.97	4.19	0.50	176	29	10	6	16
23	218	2.76	5.272	1.394	1.39	0.264	2.40	0.80	1.00	0.3	5.61	13.45	1.39	407	61	32	24	56
22	208	2.74	10.537	2.774	2.77	0.264	2.40	0.80	1.00	0.3	11.20	26.86	2.77	1313	160	62	70	132
21	198	2.71	6.082	1.381	1.38	0.295	2.31	0.80	1.00	0.3	6.25	14.42	1.38	706	80	33	34	68
20	190	2.68	10.432	2.062	2.06	0.330	2.22	0.80	1.00	0.3	10.41	23.11	2.06	774	111	53	35	88
19	183	2.66	3.033	0.684	0.68	0.295	2.31	0.80	1.00	0.3	3.11	7.19	0.68	225	30	16	12	28
18	178	2.65	5.651	1.366	1.37	0.276	2.36	0.80	1.00	0.3	5.89	13.91	1.37	454	59	31	23	54
17	173	2.63	2.822	0.681	0.68	0.276	2.36	0.80	1.00	0.3	2.94	6.94	0.68	226	30	16	11	27
16	170	2.62	2.130	0.486	0.49	0.410	2.04	0.80	1.00	0.2	2.19	4.48	0.49	218	28	10	5	15
15	169	2.62	1.593	0.340	0.34	0.303	2.29	0.80	1.00	0.2	1.61	3.69	0.34	125	15	8	6	14
14	167	2.61	1.593	0.340	0.34	0.303	2.29	0.80	1.00	0.2	1.61	3.69	0.34	124	15	8	6	14
13	165	2.61	1.398	0.340	0.34	0.272	2.37	0.80	1.00	0.2	1.46	3.46	0.34	114	15	8	6	13
12	163	2.60	2.822	0.677	0.68	0.275	2.36	0.80	1.00	0.2	2.93	6.94	0.68	226	29	15	11	27
11	158	2.58	6.526	1.350	1.35	0.309	2.27	0.80	1.00	0.2	6.57	14.93	1.35	478	72	33	22	55
10	148	2.55	11.294	2.682	2.68	0.275	2.37	0.80	1.00	0.2	11.72	27.72	2.68	837	116	60	44	104
9	131	2.48	16.945	3.975	3.98	0.274	2.37	0.80	1.00	0.2	17.53	41.50	3.98	1253	172	88	65	152
8	120	2.44	2.822	0.656	0.66	0.274	2.37	0.80	1.00	0.2	2.91	6.90	0.66	208	28	14	11	25
7	110	2.39	14.706	3.393	3.39	0.284	2.34	0.80	1.00	0.2	15.16	35.44	3.39	1743	200	72	62	134
6	91	2.30	16.945	3.833	3.83	0.272	2.37	0.80	1.00	0.2	17.39	41.25	3.83	2008	221	81	71	152
5	71	2.18	16.945	3.740	3.74	0.271	2.38	0.80	1.00	0.2	17.30	41.09	3.74	2002	215	76	68	144
4	51	2.04	17.820	3.748	3.75	0.283	2.34	0.80	1.00	0.2	18.00	42.18	3.75	1318	165	73	52	126
3	31	1.84	16.945	3.444	3.44	0.267	2.39	0.80	1.00	0.2	17.00	40.56	3.44	1228	147	63	47	110
2	11	1.58	16.813	3.109	3.11	0.262	2.40	0.80	1.00	0.2	16.56	39.80	3.11	1213	131	53	40	93
1	1	1.58	10.128	0.196	0.20	1.000	2.10	0.80	1.00	0.1	8.30	17.43	0.20	1311	58	23	1	12

** = Section Force Exceeds Solidity Ratio Criteria

Totals 24,858 2,982 2,397

1.2D + 1.0Di + 1.0Wi 210°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
36	295	2.95	10.632	2.375	2.38	0.317	2.25	0.85	1.00	0.3	11.41	25.71	2.38	638	58	64	21	85
35	288	2.93	1.593	0.359	0.36	0.306	2.28	0.85	1.00	0.3	1.71	3.91	0.36	117	16	10	6	16
34	287	2.93	1.593	0.359	0.36	0.306	2.28	0.85	1.00	0.3	1.71	3.91	0.36	120	16	10	7	16
33	285	2.93	1.892	0.445	0.44	0.460	1.96	0.85	1.00	0.3	2.05	4.02	0.44	224	36	10	8	18
32	283	2.92	3.224	0.715	0.72	0.310	2.27	0.85	1.00	0.3	3.46	7.85	0.72	361	42	19	20	39
31	271	2.89	19.364	4.275	4.27	0.309	2.27	0.85	1.00	0.3	20.73	47.09	4.27	2168	249	116	119	235
30	251	2.85	15.809	4.242	4.24	0.264	2.39	0.85	1.00	0.3	17.68	42.34	4.24	1361	196	103	83	185
29	238	2.82	5.272	1.407	1.41	0.264	2.40	0.85	1.00	0.3	5.89	14.11	1.41	408	61	34	25	59
28	231	2.80	6.147	1.403	1.40	0.299	2.30	0.85	1.00	0.3	6.63	15.24	1.40	467	75	36	24	61
27	227	2.79	1.308	0.350	0.35	0.262	2.40	0.85	1.00	0.3	1.46	3.51	0.35	102	15	8	6	14
26	225	2.78	1.308	0.350	0.35	0.262	2.40	0.85	1.00	0.3	1.46	3.51	0.35	103	16	8	6	14
25	224	2.78	1.308	0.350	0.35	0.262	2.40	0.85	1.00	0.3	1.46	3.51	0.35	102	15	8	6	14
24	222	2.78	1.832	0.499	0.50	0.368	2.13	0.85	1.00	0.3	2.06	4.38	0.50	176	29	10	6	16
23	218	2.76	5.272	1.394	1.39	0.264	2.40	0.85	1.00	0.3	5.88	14.08	1.39	407	61	33	24	57
22	208	2.74	10.537	2.774	2.77	0.264	2.40	0.85	1.00	0.3	11.73	28.13	2.77	1313	160	65	70	135

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 210°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
21	198	2.71	6.082	1.381	1.38	0.295	2.31	0.85	1.00	0.3	6.55	15.12	1.38	706	80	35	34	69
20	190	2.68	10.432	2.062	2.06	0.330	2.22	0.85	1.00	0.3	10.93	24.26	2.06	774	111	55	35	90
19	183	2.66	3.033	0.684	0.68	0.295	2.31	0.85	1.00	0.3	3.26	7.54	0.68	225	30	17	12	29
18	178	2.65	5.651	1.366	1.37	0.276	2.36	0.85	1.00	0.3	6.17	14.58	1.37	454	59	33	23	56
17	173	2.63	2.822	0.681	0.68	0.276	2.36	0.85	1.00	0.3	3.08	7.28	0.68	226	30	16	11	28
16	170	2.62	2.130	0.486	0.49	0.410	2.04	0.85	1.00	0.2	2.30	4.69	0.49	218	28	10	5	16
15	169	2.62	1.593	0.340	0.34	0.303	2.29	0.85	1.00	0.2	1.69	3.88	0.34	125	15	9	6	14
14	167	2.61	1.593	0.340	0.34	0.303	2.29	0.85	1.00	0.2	1.69	3.88	0.34	124	15	9	6	14
13	165	2.61	1.398	0.340	0.34	0.272	2.37	0.85	1.00	0.2	1.53	3.62	0.34	114	15	8	6	14
12	163	2.60	2.822	0.677	0.68	0.275	2.36	0.85	1.00	0.2	3.08	7.27	0.68	226	29	16	11	27
11	158	2.58	6.526	1.350	1.35	0.309	2.27	0.85	1.00	0.2	6.90	15.67	1.35	478	72	34	22	57
10	148	2.55	11.294	2.682	2.68	0.275	2.37	0.85	1.00	0.2	12.28	29.05	2.68	837	116	63	44	107
9	131	2.48	16.945	3.975	3.98	0.274	2.37	0.85	1.00	0.2	18.38	43.51	3.98	1253	172	92	65	157
8	120	2.44	2.822	0.656	0.66	0.274	2.37	0.85	1.00	0.2	3.05	7.23	0.66	208	28	15	11	26
7	110	2.39	14.706	3.393	3.39	0.284	2.34	0.85	1.00	0.2	15.89	37.16	3.39	1743	200	76	62	137
6	91	2.30	16.945	3.833	3.83	0.272	2.37	0.85	1.00	0.2	18.24	43.26	3.83	2008	221	85	71	156
5	71	2.18	16.945	3.740	3.74	0.271	2.38	0.85	1.00	0.2	18.14	43.10	3.74	2002	215	80	68	148
4	51	2.04	17.820	3.748	3.75	0.283	2.34	0.85	1.00	0.2	18.89	44.27	3.75	1318	165	77	52	129
3	31	1.84	16.945	3.444	3.44	0.267	2.39	0.85	1.00	0.2	17.85	42.59	3.44	1228	147	66	47	114
2	11	1.58	16.813	3.109	3.11	0.262	2.40	0.85	1.00	0.2	17.40	41.82	3.11	1213	131	56	40	96
1	1	1.58	10.128	0.196	0.20	1.000	2.10	0.85	1.00	0.1	8.81	18.49	0.20	1311	58	25	1	12

** = Section Force Exceeds Solidity Ratio Criteria

Totals 24,858 2,982 2,461

1.2D + 1.0Di + 1.0Wi 240°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
36	295	2.95	10.632	2.375	2.38	0.317	2.25	1.00	1.00	0.3	13.01	29.30	2.38	638	58	73	21	94
35	288	2.93	1.593	0.359	0.36	0.306	2.28	1.00	1.00	0.3	1.95	4.45	0.36	117	16	11	6	17
34	287	2.93	1.593	0.359	0.36	0.306	2.28	1.00	1.00	0.3	1.95	4.45	0.36	120	16	11	7	18
33	285	2.93	1.892	0.445	0.44	0.460	1.96	1.00	1.00	0.3	2.34	4.57	0.44	224	36	11	8	19
32	283	2.92	3.224	0.715	0.72	0.310	2.27	1.00	1.00	0.3	3.94	8.94	0.72	361	42	22	20	42
31	271	2.89	19.364	4.275	4.27	0.309	2.27	1.00	1.00	0.3	23.64	53.69	4.27	2168	249	132	119	251
30	251	2.85	15.809	4.242	4.24	0.264	2.39	1.00	1.00	0.3	20.05	48.02	4.24	1361	196	116	83	199
29	238	2.82	5.272	1.407	1.41	0.264	2.40	1.00	1.00	0.3	6.68	16.00	1.41	408	61	38	25	63
28	231	2.80	6.147	1.403	1.40	0.299	2.30	1.00	1.00	0.3	7.55	17.36	1.40	467	75	41	24	66
27	227	2.79	1.308	0.350	0.35	0.262	2.40	1.00	1.00	0.3	1.66	3.98	0.35	102	15	9	6	16
26	225	2.78	1.308	0.350	0.35	0.262	2.40	1.00	1.00	0.3	1.66	3.98	0.35	103	16	9	6	16
25	224	2.78	1.308	0.350	0.35	0.262	2.40	1.00	1.00	0.3	1.66	3.98	0.35	102	15	9	6	16
24	222	2.78	1.832	0.499	0.50	0.368	2.13	1.00	1.00	0.3	2.33	4.97	0.50	176	29	12	6	18
23	218	2.76	5.272	1.394	1.39	0.264	2.40	1.00	1.00	0.3	6.67	15.98	1.39	407	61	38	24	62
22	208	2.74	10.537	2.774	2.77	0.264	2.40	1.00	1.00	0.3	13.31	31.92	2.77	1313	160	74	70	144
21	198	2.71	6.082	1.381	1.38	0.295	2.31	1.00	1.00	0.3	7.46	17.23	1.38	706	80	40	34	74
20	190	2.68	10.432	2.062	2.06	0.330	2.22	1.00	1.00	0.3	12.49	27.74	2.06	774	111	63	35	98
19	183	2.66	3.033	0.684	0.68	0.295	2.31	1.00	1.00	0.3	3.72	8.59	0.68	225	30	19	12	31
18	178	2.65	5.651	1.366	1.37	0.276	2.36	1.00	1.00	0.3	7.02	16.58	1.37	454	59	37	23	60
17	173	2.63	2.822	0.681	0.68	0.276	2.36	1.00	1.00	0.3	3.50	8.28	0.68	226	30	19	11	30
16	170	2.62	2.130	0.486	0.49	0.410	2.04	1.00	1.00	0.2	2.62	5.35	0.49	218	28	12	5	17
15	169	2.62	1.593	0.340	0.34	0.303	2.29	1.00	1.00	0.2	1.93	4.42	0.34	125	15	10	6	16
14	167	2.61	1.593	0.340	0.34	0.303	2.29	1.00	1.00	0.2	1.93	4.42	0.34	124	15	10	6	15
13	165	2.61	1.398	0.340	0.34	0.272	2.37	1.00	1.00	0.2	1.74	4.12	0.34	114	15	9	6	15
12	163	2.60	2.822	0.677	0.68	0.275	2.36	1.00	1.00	0.2	3.50	8.27	0.68	226	29	18	11	30
11	158	2.58	6.526	1.350	1.35	0.309	2.27	1.00	1.00	0.2	7.88	17.89	1.35	478	72	39	22	62
10	148	2.55	11.294	2.682	2.68	0.275	2.37	1.00	1.00	0.2	13.98	33.06	2.68	837	116	72	44	116
9	131	2.48	16.945	3.975	3.98	0.274	2.37	1.00	1.00	0.2	20.92	49.53	3.98	1253	172	105	65	169
8	120	2.44	2.822	0.656	0.66	0.274	2.37	1.00	1.00	0.2	3.48	8.24	0.66	208	28	17	11	28
7	110	2.39	14.706	3.393	3.39	0.284	2.34	1.00	1.00	0.2	18.10	42.32	3.39	1743	200	86	62	148
6	91	2.30	16.945	3.833	3.83	0.272	2.37	1.00	1.00	0.2	20.78	49.29	3.83	2008	221	96	71	168
5	71	2.18	16.945	3.740	3.74	0.271	2.38	1.00	1.00	0.2	20.68	49.14	3.74	2002	215	91	68	159
4	51	2.04	17.820	3.748	3.75	0.283	2.34	1.00	1.00	0.2	21.57	50.53	3.75	1318	165	88	52	140
3	31	1.84	16.945	3.444	3.44	0.267	2.39	1.00	1.00	0.2	20.39	48.65	3.44	1228	147	76	47	123
2	11	1.58	16.813	3.109	3.11	0.262	2.40	1.00	1.00	0.2	19.92	47.88	3.11	1213	131	64	40	104
1	1	1.58	10.128	0.196	0.20	1.000	2.10	1.00	1.00	0.1	10.32	21.68	0.20	1311	58	29	1	12

** = Section Force Exceeds Solidity Ratio Criteria

Totals 24,858 2,982 2,654

1.2D + 1.0Di + 1.0Wi 300°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
36	295	2.95	10.632	2.375	2.38	0.317	2.25	0.80	1.00	0.3	10.88	24.51	2.38	638	58	61	21	82
35	288	2.93	1.593	0.359	0.36	0.306	2.28	0.80	1.00	0.3	1.63	3.72	0.36	117	16	9	6	16
34	287	2.93	1.593	0.359	0.36	0.306	2.28	0.80	1.00	0.3	1.63	3.72	0.36	120	16	9	7	16
33	285	2.93	1.892	0.445	0.44	0.460	1.96	0.80	1.00	0.3	1.96	3.83	0.44	224	36	10	8	17
32	283	2.92	3.224	0.715	0.72	0.310	2.27	0.80	1.00	0.3	3.29	7.48	0.72	361	42	19	20	39
31	271	2.89	19.364	4.275	4.27	0.309	2.27	0.80	1.00	0.3	19.77	44.90	4.27	2168	249	110	119	229

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 300°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
30	251	2.85	15.809	4.242	4.24	0.264	2.39	0.80	1.00	0.3	16.89	40.45	4.24	1361	196	98	83	181
29	238	2.82	5.272	1.407	1.41	0.264	2.40	0.80	1.00	0.3	5.62	13.47	1.41	408	61	32	25	57
28	231	2.80	6.147	1.403	1.40	0.299	2.30	0.80	1.00	0.3	6.32	14.53	1.40	467	75	35	24	59
27	227	2.79	1.308	0.350	0.35	0.262	2.40	0.80	1.00	0.3	1.40	3.36	0.35	102	15	8	6	14
26	225	2.78	1.308	0.350	0.35	0.262	2.40	0.80	1.00	0.3	1.40	3.35	0.35	103	16	8	6	14
25	224	2.78	1.308	0.350	0.35	0.262	2.40	0.80	1.00	0.3	1.40	3.35	0.35	102	15	8	6	14
24	222	2.78	1.832	0.499	0.50	0.368	2.13	0.80	1.00	0.3	1.97	4.19	0.50	176	29	10	6	16
23	218	2.76	5.272	1.394	1.39	0.264	2.40	0.80	1.00	0.3	5.61	13.45	1.39	407	61	32	24	56
22	208	2.74	10.537	2.774	2.77	0.264	2.40	0.80	1.00	0.3	11.20	26.86	2.77	1313	160	62	70	132
21	198	2.71	6.082	1.381	1.38	0.295	2.31	0.80	1.00	0.3	6.25	14.42	1.38	706	80	33	34	68
20	190	2.68	10.432	2.062	2.06	0.330	2.22	0.80	1.00	0.3	10.41	23.11	2.06	774	111	53	35	88
19	183	2.66	3.033	0.684	0.68	0.295	2.31	0.80	1.00	0.3	3.11	7.19	0.68	225	30	16	12	28
18	178	2.65	5.651	1.366	1.37	0.276	2.36	0.80	1.00	0.3	5.89	13.91	1.37	454	59	31	23	54
17	173	2.63	2.822	0.681	0.68	0.276	2.36	0.80	1.00	0.3	2.94	6.94	0.68	226	30	16	11	27
16	170	2.62	2.130	0.486	0.49	0.410	2.04	0.80	1.00	0.2	2.19	4.48	0.49	218	28	10	5	15
15	169	2.62	1.593	0.340	0.34	0.303	2.29	0.80	1.00	0.2	1.61	3.69	0.34	125	15	8	6	14
14	167	2.61	1.593	0.340	0.34	0.303	2.29	0.80	1.00	0.2	1.61	3.69	0.34	124	15	8	6	14
13	165	2.61	1.398	0.340	0.34	0.272	2.37	0.80	1.00	0.2	1.46	3.46	0.34	114	15	8	6	13
12	163	2.60	2.822	0.677	0.68	0.275	2.36	0.80	1.00	0.2	2.93	6.94	0.68	226	29	15	11	27
11	158	2.58	6.526	1.350	1.35	0.309	2.27	0.80	1.00	0.2	6.57	14.93	1.35	478	72	33	22	55
10	148	2.55	11.294	2.682	2.68	0.275	2.37	0.80	1.00	0.2	11.72	27.72	2.68	837	116	60	44	104
9	131	2.48	16.945	3.975	3.98	0.274	2.37	0.80	1.00	0.2	17.53	41.50	3.98	1253	172	88	65	152
8	120	2.44	2.822	0.656	0.66	0.274	2.37	0.80	1.00	0.2	2.91	6.90	0.66	208	28	14	11	25
7	110	2.39	14.706	3.393	3.39	0.284	2.34	0.80	1.00	0.2	15.16	35.44	3.39	1743	200	72	62	134
6	91	2.30	16.945	3.833	3.83	0.272	2.37	0.80	1.00	0.2	17.39	41.25	3.83	2008	221	81	71	152
5	71	2.18	16.945	3.740	3.74	0.271	2.38	0.80	1.00	0.2	17.30	41.09	3.74	2002	215	76	68	144
4	51	2.04	17.820	3.748	3.75	0.283	2.34	0.80	1.00	0.2	18.00	42.18	3.75	1318	165	73	52	126
3	31	1.84	16.945	3.444	3.44	0.267	2.39	0.80	1.00	0.2	17.00	40.56	3.44	1228	147	63	47	110
2	11	1.58	16.813	3.109	3.11	0.262	2.40	0.80	1.00	0.2	16.56	39.80	3.11	1213	131	53	40	93
1	1	1.58	10.128	0.196	0.20	1.000	2.10	0.80	1.00	0.1	8.30	17.43	0.20	1311	58	23	1	12

** = Section Force Exceeds Solidity Ratio Criteria

Totals 24,858 2,982 2,397

1.2D + 1.0Di + 1.0Wi 330°

Gust Response Factor (Gh): 0.85

Ice Importance Factor: 1.00

29.24 mph Wind with 0.212" 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)
36	295	2.95	10.632	2.375	2.38	0.317	2.25	0.85	1.00	0.3	11.41	25.71	2.38	638	58	64	21	85
35	288	2.93	1.593	0.359	0.36	0.306	2.28	0.85	1.00	0.3	1.71	3.91	0.36	117	16	10	6	16
34	287	2.93	1.593	0.359	0.36	0.306	2.28	0.85	1.00	0.3	1.71	3.91	0.36	120	16	10	7	16
33	285	2.93	1.892	0.445	0.44	0.460	1.96	0.85	1.00	0.3	2.05	4.02	0.44	224	36	10	8	18
32	283	2.92	3.224	0.715	0.72	0.310	2.27	0.85	1.00	0.3	3.46	7.85	0.72	361	42	19	20	39
31	271	2.89	19.364	4.275	4.27	0.309	2.27	0.85	1.00	0.3	20.73	47.09	4.27	2168	249	116	119	235
30	251	2.85	15.809	4.242	4.24	0.264	2.39	0.85	1.00	0.3	17.68	42.34	4.24	1361	196	103	83	185
29	238	2.82	5.272	1.407	1.41	0.264	2.40	0.85	1.00	0.3	5.89	14.11	1.41	408	61	34	25	59
28	231	2.80	6.147	1.403	1.40	0.299	2.30	0.85	1.00	0.3	6.63	15.24	1.40	467	75	36	24	61
27	227	2.79	1.308	0.350	0.35	0.262	2.40	0.85	1.00	0.3	1.46	3.51	0.35	102	15	8	6	14
26	225	2.78	1.308	0.350	0.35	0.262	2.40	0.85	1.00	0.3	1.46	3.51	0.35	103	16	8	6	14
25	224	2.78	1.308	0.350	0.35	0.262	2.40	0.85	1.00	0.3	1.46	3.51	0.35	102	15	8	6	14
24	222	2.78	1.832	0.499	0.50	0.368	2.13	0.85	1.00	0.3	2.06	4.38	0.50	176	29	10	6	16
23	218	2.76	5.272	1.394	1.39	0.264	2.40	0.85	1.00	0.3	5.88	14.08	1.39	407	61	33	24	57
22	208	2.74	10.537	2.774	2.77	0.264	2.40	0.85	1.00	0.3	11.73	28.13	2.77	1313	160	65	70	135
21	198	2.71	6.082	1.381	1.38	0.295	2.31	0.85	1.00	0.3	6.55	15.12	1.38	706	80	35	34	69
20	190	2.68	10.432	2.062	2.06	0.330	2.22	0.85	1.00	0.3	10.93	24.26	2.06	774	111	55	35	90
19	183	2.66	3.033	0.684	0.68	0.295	2.31	0.85	1.00	0.3	3.26	7.54	0.68	225	30	17	12	29
18	178	2.65	5.651	1.366	1.37	0.276	2.36	0.85	1.00	0.3	6.17	14.58	1.37	454	59	33	23	56
17	173	2.63	2.822	0.681	0.68	0.276	2.36	0.85	1.00	0.3	3.08	7.28	0.68	226	30	16	11	28
16	170	2.62	2.130	0.486	0.49	0.410	2.04	0.85	1.00	0.2	2.30	4.69	0.49	218	28	10	5	16
15	169	2.62	1.593	0.340	0.34	0.303	2.29	0.85	1.00	0.2	1.69	3.88	0.34	125	15	9	6	14
14	167	2.61	1.593	0.340	0.34	0.303	2.29	0.85	1.00	0.2	1.69	3.88	0.34	124	15	9	6	14
13	165	2.61	1.398	0.340	0.34	0.272	2.37	0.85	1.00	0.2	1.53	3.62	0.34	114	15	8	6	14
12	163	2.60	2.822	0.677	0.68	0.275	2.36	0.85	1.00	0.2	3.08	7.27	0.68	226	29	16	11	27
11	158	2.58	6.526	1.350	1.35	0.309	2.27	0.85	1.00	0.2	6.90	15.67	1.35	478	72	34	22	57
10	148	2.55	11.294	2.682	2.68	0.275	2.37	0.85	1.00	0.2	12.28	29.05	2.68	837	116	63	44	107
9	131	2.48	16.945	3.975	3.98	0.274	2.37	0.85	1.00	0.2	18.38	43.51	3.98	1253	172	92	65	157
8	120	2.44	2.822	0.656	0.66	0.274	2.37	0.85	1.00	0.2	3.05	7.23	0.66	208	28	15	11	26
7	110	2.39	14.706	3.393	3.39	0.284	2.34	0.85	1.00	0.2	15.89	37.16	3.39	1743	200	76	62	137
6	91	2.30	16.945	3.833	3.83	0.272	2.37	0.85	1.00	0.2	18.24	43.26	3.83	2008	221	85	71	156
5	71	2.18	16.945	3.740	3.74	0.271	2.38	0.85	1.00	0.2	18.14	43.10	3.74	2002	215	80	68	148
4	51	2.04	17.820	3.748	3.75	0.283	2.34	0.85	1.00	0.2	18.89	44.27	3.75	1318	165	77	52	129
3	31	1.84	16.945	3.444	3.44	0.267	2.39	0.85	1.00	0.2	17.85	42.59	3.44	1228	147	66	47	114
2	11	1.58	16.813	3.109	3.11	0.262	2.40	0.85	1.00	0.2	17.40	41.82	3.11	1213	131	56	40	96
1	1	1.58	10.128	0.196	0.20	1.000	2.10	0.85	1.00	0.1	8.81	18.49	0.20	1311	58	25	1	12

** = Section Force Exceeds Solidity Ratio Criteria

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.0D + 1.0W Service Normal
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _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)
36	295	12.40	10.632	0.000	0.00	0.262	2.40	1.00	1.00	0.0	10.63	25.54	0.00	483	0	269	73	342
35	288	12.35	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	84	0	41	23	63
34	287	12.33	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	86	0	41	23	64
33	285	12.32	1.892	0.000	0.00	0.377	2.11	1.00	1.00	0.0	1.89	4.00	0.00	157	0	42	30	71
32	283	12.30	3.224	0.000	0.00	0.256	2.42	1.00	1.00	0.0	3.22	7.80	0.00	266	0	82	74	156
31	271	12.19	19.364	0.000	0.00	0.256	2.42	1.00	1.00	0.0	19.36	46.83	0.00	1599	0	485	441	926
30	251	11.99	15.809	0.000	0.00	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	971	0	413	293	706
29	238	11.86	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	289	0	136	87	223
28	231	11.79	6.147	0.000	0.00	0.246	2.45	1.00	1.00	0.0	6.15	15.06	0.00	327	0	151	86	237
27	227	11.74	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	72	0	33	21	55
26	225	11.72	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	72	0	33	21	55
25	224	11.70	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	72	0	33	21	55
24	222	11.69	1.832	0.000	0.00	0.293	2.32	1.00	1.00	0.0	1.83	4.24	0.00	123	0	42	21	64
23	218	11.64	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	289	0	134	85	219
22	208	11.52	10.537	0.000	0.00	0.211	2.56	1.00	1.00	0.0	10.54	26.97	0.00	960	0	264	255	519
21	198	11.41	6.082	0.000	0.00	0.243	2.46	1.00	1.00	0.0	6.08	14.95	0.00	521	0	145	127	272
20	190	11.30	10.432	0.000	0.00	0.278	2.36	1.00	1.00	0.0	10.43	24.95	0.00	553	0	236	126	362
19	183	11.22	3.033	0.000	0.00	0.243	2.46	1.00	1.00	0.0	3.03	7.46	0.00	162	0	71	41	112
18	178	11.15	5.651	0.000	0.00	0.224	2.52	1.00	1.00	0.0	5.65	14.22	0.00	329	0	135	82	216
17	173	11.09	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	164	0	67	40	107
16	170	11.05	2.130	0.000	0.00	0.338	2.20	1.00	1.00	0.0	2.13	4.69	0.00	158	0	44	20	64
15	169	11.03	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	91	0	36	20	56
14	167	11.01	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	91	0	36	20	56
13	165	10.98	1.398	0.000	0.00	0.222	2.53	1.00	1.00	0.0	1.40	3.53	0.00	82	0	33	20	53
12	163	10.95	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	164	0	66	40	106
11	158	10.88	6.526	0.000	0.00	0.259	2.41	1.00	1.00	0.0	6.53	15.73	0.00	338	0	145	79	225
10	148	10.73	11.294	0.000	0.00	0.224	2.52	1.00	1.00	0.0	11.29	28.42	0.00	601	0	259	157	416
9	131	10.46	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	901	0	379	229	608
8	120	10.26	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	150	0	62	37	99
7	110	10.07	14.706	0.000	0.00	0.234	2.49	1.00	1.00	0.0	14.71	36.58	0.00	1286	0	313	224	537
6	91	9.69	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1489	0	351	259	611
5	71	9.20	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1489	0	333	246	580
4	51	8.58	17.820	0.000	0.00	0.236	2.48	1.00	1.00	0.0	17.82	44.20	0.00	961	0	322	189	511
3	31	7.73	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	901	0	280	169	450
2	11	6.63	16.813	0.000	0.00	0.223	2.52	1.00	1.00	0.0	16.81	42.41	0.00	901	0	239	145	385
1	1	6.63	10.128	0.000	0.00	1.000	2.10	1.00	1.00	0.0	10.13	21.27	0.00	1045	0	120	5	48
** = Section Force Exceeds Solidity Ratio Criteria														Totals	18,230	0		9,628

1.0D + 1.0W Service 60°
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _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)
36	295	12.40	10.632	0.000	0.00	0.262	2.40	0.80	1.00	0.0	8.51	20.43	0.00	483	0	215	73	288
35	288	12.35	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	84	0	32	23	55
34	287	12.33	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	86	0	32	23	56
33	285	12.32	1.892	0.000	0.00	0.377	2.11	0.80	1.00	0.0	1.51	3.20	0.00	157	0	33	30	63
32	283	12.30	3.224	0.000	0.00	0.256	2.42	0.80	1.00	0.0	2.58	6.24	0.00	266	0	65	74	139
31	271	12.19	19.364	0.000	0.00	0.256	2.42	0.80	1.00	0.0	15.49	37.47	0.00	1599	0	388	441	829
30	251	11.99	15.809	0.000	0.00	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	971	0	330	293	624
29	238	11.86	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	289	0	109	87	195
28	231	11.79	6.147	0.000	0.00	0.246	2.45	0.80	1.00	0.0	4.92	12.05	0.00	327	0	121	86	207
27	227	11.74	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	72	0	27	21	48
26	225	11.72	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	72	0	27	21	48
25	224	11.70	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	72	0	27	21	48
24	222	11.69	1.832	0.000	0.00	0.293	2.32	0.80	1.00	0.0	1.47	3.39	0.00	123	0	34	21	55
23	218	11.64	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	289	0	107	85	192
22	208	11.52	10.537	0.000	0.00	0.211	2.56	0.80	1.00	0.0	8.43	21.58	0.00	960	0	211	255	466
21	198	11.41	6.082	0.000	0.00	0.243	2.46	0.80	1.00	0.0	4.87	11.96	0.00	521	0	116	127	243
20	190	11.30	10.432	0.000	0.00	0.278	2.36	0.80	1.00	0.0	8.35	19.66	0.00	553	0	189	126	315
19	183	11.22	3.033	0.000	0.00	0.243	2.46	0.80	1.00	0.0	2.43	5.97	0.00	162	0	57	41	98
18	178	11.15	5.651	0.000	0.00	0.224	2.52	0.80	1.00	0.0	4.52	11.38	0.00	329	0	108	82	189
17	173	11.09	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	164	0	54	40	94
16	170	11.05	2.130	0.000	0.00	0.338	2.20	0.80	1.00	0.0	1.70	3.75	0.00	158	0	35	20	55
15	169	11.03	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	91	0	29	20	49
14	167	11.01	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	91	0	29	20	49
13	165	10.98	1.398	0.000	0.00	0.222	2.53	0.80	1.00	0.0	1.12	2.82	0.00	82	0	26	20	46
12	163	10.95	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	164	0	53	40	93
11	158	10.88	6.526	0.000	0.00	0.259	2.41	0.80	1.00	0.0	5.22	12.58	0.00	338	0	116	79	196
10	148	10.73	11.294	0.000	0.00	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	601	0	207	157	364
9	131	10.46	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	901	0	303	229	533
8	120	10.26	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	150	0	50	37	87
7	110	10.07	14.706	0.000	0.00	0.234	2.49	0.80	1.00	0.0	11.77	29.27	0.00	1286	0	251	224	475
6	91	9.69	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1489	0	281	259	540
5	71	9.20	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1489	0	267	246	513
4	51	8.58	17.820	0.000	0.00	0.236	2.48	0.80	1.00	0.0	14.26	35.36	0.00	961	0	258	189	447

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

1.0D + 1.0W Service 60°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
3	31	7.73	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	901	0	224	169	394
2	11	6.63	16.813	0.000	0.00	0.223	2.52	0.80	1.00	0.0	13.45	33.93	0.00	901	0	191	145	337
1	1	6.63	10.128	0.000	0.00	1.000	2.10	0.80	1.00	0.0	8.10	17.02	0.00	1045	0	96	5	48

** = Section Force Exceeds Solidity Ratio Criteria

Totals 18,230 0 8,478

1.0D + 1.0W Service 90°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
36	295	12.40	10.632	0.000	0.00	0.262	2.40	0.85	1.00	0.0	9.04	21.71	0.00	483	0	229	73	302
35	288	12.35	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	84	0	35	23	57
34	287	12.33	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	86	0	34	23	58
33	285	12.32	1.892	0.000	0.00	0.377	2.11	0.85	1.00	0.0	1.61	3.40	0.00	157	0	36	30	65
32	283	12.30	3.224	0.000	0.00	0.256	2.42	0.85	1.00	0.0	2.74	6.63	0.00	266	0	69	74	143
31	271	12.19	19.364	0.000	0.00	0.256	2.42	0.85	1.00	0.0	16.46	39.81	0.00	1599	0	412	441	854
30	251	11.99	15.809	0.000	0.00	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	971	0	351	293	644
29	238	11.86	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	289	0	116	87	202
28	231	11.79	6.147	0.000	0.00	0.246	2.45	0.85	1.00	0.0	5.22	12.80	0.00	327	0	128	86	214
27	227	11.74	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	72	0	28	21	50
26	225	11.72	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	72	0	28	21	50
25	224	11.70	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	72	0	28	21	50
24	222	11.69	1.832	0.000	0.00	0.293	2.32	0.85	1.00	0.0	1.56	3.61	0.00	123	0	36	21	57
23	218	11.64	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	289	0	113	85	199
22	208	11.52	10.537	0.000	0.00	0.211	2.56	0.85	1.00	0.0	8.96	22.93	0.00	960	0	225	255	479
21	198	11.41	6.082	0.000	0.00	0.243	2.46	0.85	1.00	0.0	5.17	12.71	0.00	521	0	123	127	250
20	190	11.30	10.432	0.000	0.00	0.278	2.36	0.85	1.00	0.0	8.87	20.88	0.00	553	0	201	126	326
19	183	11.22	3.033	0.000	0.00	0.243	2.46	0.85	1.00	0.0	2.58	6.34	0.00	162	0	60	41	101
18	178	11.15	5.651	0.000	0.00	0.224	2.52	0.85	1.00	0.0	4.80	12.09	0.00	329	0	115	82	196
17	173	11.09	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	164	0	57	40	97
16	170	11.05	2.130	0.000	0.00	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	158	0	37	20	58
15	169	11.03	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	91	0	31	20	51
14	167	11.01	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	91	0	31	20	51
13	165	10.98	1.398	0.000	0.00	0.222	2.53	0.85	1.00	0.0	1.19	3.00	0.00	82	0	28	20	48
12	163	10.95	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	164	0	56	40	96
11	158	10.88	6.526	0.000	0.00	0.259	2.41	0.85	1.00	0.0	5.55	13.37	0.00	338	0	124	79	203
10	148	10.73	11.294	0.000	0.00	0.224	2.52	0.85	1.00	0.0	9.60	24.16	0.00	601	0	220	157	377
9	131	10.46	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	901	0	322	229	552
8	120	10.26	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	150	0	53	37	90
7	110	10.07	14.706	0.000	0.00	0.234	2.49	0.85	1.00	0.0	12.50	31.10	0.00	1286	0	266	224	490
6	91	9.69	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1489	0	299	259	558
5	71	9.20	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1489	0	283	246	530
4	51	8.58	17.820	0.000	0.00	0.236	2.48	0.85	1.00	0.0	15.15	37.57	0.00	961	0	274	189	463
3	31	7.73	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	901	0	238	169	408
2	11	6.63	16.813	0.000	0.00	0.223	2.52	0.85	1.00	0.0	14.29	36.05	0.00	901	0	203	145	349
1	1	6.63	10.128	0.000	0.00	1.000	2.10	0.85	1.00	0.0	8.61	18.08	0.00	1045	0	102	5	48

** = Section Force Exceeds Solidity Ratio Criteria

Totals 18,230 0 8,765

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)
36	295	12.40	10.632	0.000	0.00	0.262	2.40	1.00	1.00	0.0	10.63	25.54	0.00	483	0	269	73	342
35	288	12.35	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	84	0	41	23	63
34	287	12.33	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	86	0	41	23	64
33	285	12.32	1.892	0.000	0.00	0.377	2.11	1.00	1.00	0.0	1.89	4.00	0.00	157	0	42	30	71
32	283	12.30	3.224	0.000	0.00	0.256	2.42	1.00	1.00	0.0	3.22	7.80	0.00	266	0	82	74	156
31	271	12.19	19.364	0.000	0.00	0.256	2.42	1.00	1.00	0.0	19.36	46.83	0.00	1599	0	485	441	926
30	251	11.99	15.809	0.000	0.00	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	971	0	413	293	706
29	238	11.86	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	289	0	136	87	223
28	231	11.79	6.147	0.000	0.00	0.246	2.45	1.00	1.00	0.0	6.15	15.06	0.00	327	0	151	86	237
27	227	11.74	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	72	0	33	21	55
26	225	11.72	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	72	0	33	21	55
25	224	11.70	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	72	0	33	21	55
24	222	11.69	1.832	0.000	0.00	0.293	2.32	1.00	1.00	0.0	1.83	4.24	0.00	123	0	42	21	64
23	218	11.64	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	289	0	134	85	219
22	208	11.52	10.537	0.000	0.00	0.211	2.56	1.00	1.00	0.0	10.54	26.97	0.00	960	0	264	255	519
21	198	11.41	6.082	0.000	0.00	0.243	2.46	1.00	1.00	0.0	6.08	14.95	0.00	521	0	145	127	272
20	190	11.30	10.432	0.000	0.00	0.278	2.36	1.00	1.00	0.0	10.43	24.57	0.00	553	0	236	126	362
19	183	11.22	3.033	0.000	0.00	0.243	2.46	1.00	1.00	0.0	3.03	7.46	0.00	162	0	71	41	112
18	178	11.15	5.651	0.000	0.00	0.224	2.52	1.00	1.00	0.0	5.65	14.22	0.00	329	0	135	82	216
17	173	11.09	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	164	0	67	40	107
16	170	11.05	2.130	0.000	0.00	0.338	2.20	1.00	1.00	0.0	2.13	4.69	0.00	158	0	44	20	64
15	169	11.03	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	91	0	36	20	56
14	167	11.01	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	91	0	36	20	56
13	165	10.98	1.398	0.000	0.00	0.222	2.53	1.00	1.00	0.0	1.40	3.53	0.00	82	0	33	20	53

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

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)
12	163	10.95	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	164	0	66	40	106
11	158	10.88	6.526	0.000	0.00	0.259	2.41	1.00	1.00	0.0	6.53	15.73	0.00	338	0	145	79	225
10	148	10.73	11.294	0.000	0.00	0.224	2.52	1.00	1.00	0.0	11.29	28.42	0.00	601	0	259	157	416
9	131	10.46	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	901	0	379	229	608
8	120	10.26	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	150	0	62	37	99
7	110	10.07	14.706	0.000	0.00	0.234	2.49	1.00	1.00	0.0	14.71	36.58	0.00	1286	0	313	224	537
6	91	9.69	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1489	0	351	259	611
5	71	9.20	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1489	0	333	246	580
4	51	8.58	17.820	0.000	0.00	0.236	2.48	1.00	1.00	0.0	17.82	44.20	0.00	961	0	322	189	511
3	31	7.73	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	901	0	280	169	450
2	11	6.63	16.813	0.000	0.00	0.223	2.52	1.00	1.00	0.0	16.81	42.41	0.00	901	0	239	145	385
1	1	6.63	10.128	0.000	0.00	1.000	2.10	1.00	1.00	0.0	10.13	21.27	0.00	1045	0	120	5	48

** = Section Force Exceeds Solidity Ratio Criteria

Totals 18,230 0 9,628

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)
36	295	12.40	10.632	0.000	0.00	0.262	2.40	0.80	1.00	0.0	8.51	20.43	0.00	483	0	215	73	288
35	288	12.35	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	84	0	32	23	55
34	287	12.33	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	86	0	32	23	56
33	285	12.32	1.892	0.000	0.00	0.377	2.11	0.80	1.00	0.0	1.51	3.20	0.00	157	0	33	30	63
32	283	12.30	3.224	0.000	0.00	0.256	2.42	0.80	1.00	0.0	2.58	6.24	0.00	266	0	65	74	139
31	271	12.19	19.364	0.000	0.00	0.256	2.42	0.80	1.00	0.0	15.49	37.47	0.00	1599	0	388	441	829
30	251	11.99	15.809	0.000	0.00	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	971	0	330	293	624
29	238	11.86	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	289	0	109	87	195
28	231	11.79	6.147	0.000	0.00	0.246	2.45	0.80	1.00	0.0	4.92	12.05	0.00	327	0	121	86	207
27	227	11.74	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	72	0	27	21	48
26	225	11.72	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	72	0	27	21	48
25	224	11.70	1.308	0.000	0.00	0.209	2.57	0.80	1.00	0.0	1.05	2.69	0.00	72	0	27	21	48
24	222	11.69	1.832	0.000	0.00	0.293	2.32	0.80	1.00	0.0	1.47	3.39	0.00	123	0	34	21	55
23	218	11.64	5.272	0.000	0.00	0.211	2.56	0.80	1.00	0.0	4.22	10.80	0.00	289	0	107	85	192
22	208	11.52	10.537	0.000	0.00	0.211	2.56	0.80	1.00	0.0	8.43	21.58	0.00	960	0	211	255	466
21	198	11.41	6.082	0.000	0.00	0.243	2.46	0.80	1.00	0.0	4.87	11.96	0.00	521	0	116	127	243
20	190	11.30	10.432	0.000	0.00	0.278	2.36	0.80	1.00	0.0	8.35	19.66	0.00	553	0	189	126	315
19	183	11.22	3.033	0.000	0.00	0.243	2.46	0.80	1.00	0.0	2.43	5.97	0.00	162	0	57	41	98
18	178	11.15	5.651	0.000	0.00	0.224	2.52	0.80	1.00	0.0	4.52	11.38	0.00	329	0	108	82	189
17	173	11.09	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	164	0	54	40	94
16	170	11.05	2.130	0.000	0.00	0.338	2.20	0.80	1.00	0.0	1.70	3.75	0.00	158	0	35	20	55
15	169	11.03	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	91	0	29	20	49
14	167	11.01	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	91	0	29	20	49
13	165	10.98	1.398	0.000	0.00	0.222	2.53	0.80	1.00	0.0	1.12	2.82	0.00	82	0	26	20	46
12	163	10.95	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	164	0	53	40	93
11	158	10.88	6.526	0.000	0.00	0.259	2.41	0.80	1.00	0.0	5.22	12.58	0.00	338	0	116	79	196
10	148	10.73	11.294	0.000	0.00	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	601	0	207	157	364
9	131	10.46	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	901	0	303	229	533
8	120	10.26	2.822	0.000	0.00	0.224	2.52	0.80	1.00	0.0	2.26	5.68	0.00	150	0	50	37	87
7	110	10.07	14.706	0.000	0.00	0.234	2.49	0.80	1.00	0.0	11.77	29.27	0.00	1286	0	251	224	475
6	91	9.69	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1489	0	281	259	540
5	71	9.20	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1489	0	267	246	513
4	51	8.58	17.820	0.000	0.00	0.236	2.48	0.80	1.00	0.0	14.26	35.36	0.00	961	0	258	189	447
3	31	7.73	16.945	0.000	0.00	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	901	0	224	169	394
2	11	6.63	16.813	0.000	0.00	0.223	2.52	0.80	1.00	0.0	13.45	33.93	0.00	901	0	191	145	337
1	1	6.63	10.128	0.000	0.00	1.000	2.10	0.80	1.00	0.0	8.10	17.02	0.00	1045	0	96	5	48

** = Section Force Exceeds Solidity Ratio Criteria

Totals 18,230 0 8,478

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)
36	295	12.40	10.632	0.000	0.00	0.262	2.40	0.85	1.00	0.0	9.04	21.71	0.00	483	0	229	73	302
35	288	12.35	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	84	0	35	23	57
34	287	12.33	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	86	0	34	23	58
33	285	12.32	1.892	0.000	0.00	0.377	2.11	0.85	1.00	0.0	1.61	3.40	0.00	157	0	36	30	65
32	283	12.30	3.224	0.000	0.00	0.256	2.42	0.85	1.00	0.0	2.74	6.63	0.00	266	0	69	74	143
31	271	12.19	19.364	0.000	0.00	0.256	2.42	0.85	1.00	0.0	16.46	39.81	0.00	1599	0	412	441	854
30	251	11.99	15.809	0.000	0.00	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	971	0	351	293	644
29	238	11.86	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	289	0	116	87	202
28	231	11.79	6.147	0.000	0.00	0.246	2.45	0.85	1.00	0.0	5.22	12.80	0.00	327	0	128	86	214
27	227	11.74	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	72	0	28	21	50
26	225	11.72	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	72	0	28	21	50
25	224	11.70	1.308	0.000	0.00	0.209	2.57	0.85	1.00	0.0	1.11	2.85	0.00	72	0	28	21	50
24	222	11.69	1.832	0.000	0.00	0.293	2.32	0.85	1.00	0.0	1.56	3.61	0.00	123	0	36	21	57
23	218	11.64	5.272	0.000	0.00	0.211	2.56	0.85	1.00	0.0	4.48	11.47	0.00	289	0	113	85	199
22	208	11.52	10.537	0.000	0.00	0.211	2.56	0.85	1.00	0.0	8.96	22.93	0.00	960	0	225	255	479

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

SECTION FORCES

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 _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)
21	198	11.41	6.082	0.000	0.00	0.243	2.46	0.85	1.00	0.0	5.17	12.71	0.00	521	0	123	127	250
20	190	11.30	10.432	0.000	0.00	0.278	2.36	0.85	1.00	0.0	8.87	20.88	0.00	553	0	201	126	326
19	183	11.22	3.033	0.000	0.00	0.243	2.46	0.85	1.00	0.0	2.58	6.34	0.00	162	0	60	41	101
18	178	11.15	5.651	0.000	0.00	0.224	2.52	0.85	1.00	0.0	4.80	12.09	0.00	329	0	115	82	196
17	173	11.09	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	164	0	57	40	97
16	170	11.05	2.130	0.000	0.00	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	158	0	37	20	58
15	169	11.03	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	91	0	31	20	51
14	167	11.01	1.593	0.000	0.00	0.253	2.43	0.85	1.00	0.0	1.35	3.29	0.00	91	0	31	20	51
13	165	10.98	1.398	0.000	0.00	0.222	2.53	0.85	1.00	0.0	1.19	3.00	0.00	82	0	28	20	48
12	163	10.95	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	164	0	56	40	96
11	158	10.88	6.526	0.000	0.00	0.259	2.41	0.85	1.00	0.0	5.55	13.37	0.00	338	0	124	79	203
10	148	10.73	11.294	0.000	0.00	0.224	2.52	0.85	1.00	0.0	9.60	24.16	0.00	601	0	220	157	377
9	131	10.46	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	901	0	322	229	552
8	120	10.26	2.822	0.000	0.00	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	150	0	53	37	90
7	110	10.07	14.706	0.000	0.00	0.234	2.49	0.85	1.00	0.0	12.50	31.10	0.00	1286	0	266	224	490
6	91	9.69	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1489	0	299	259	558
5	71	9.20	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1489	0	283	246	530
4	51	8.58	17.820	0.000	0.00	0.236	2.48	0.85	1.00	0.0	15.15	37.57	0.00	961	0	274	189	463
3	31	7.73	16.945	0.000	0.00	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	901	0	238	169	408
2	11	6.63	16.813	0.000	0.00	0.223	2.52	0.85	1.00	0.0	14.29	36.05	0.00	901	0	203	145	349
1	1	6.63	10.128	0.000	0.00	1.000	2.10	0.85	1.00	0.0	8.61	18.08	0.00	1045	0	102	5	48

** = Section Force Exceeds Solidity Ratio Criteria

Totals 18,230 0 8,765

1.0D + 1.0W Service 240°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
36	295	12.40	10.632	0.000	0.00	0.262	2.40	1.00	1.00	0.0	10.63	25.54	0.00	483	0	269	73	342
35	288	12.35	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	84	0	41	23	63
34	287	12.33	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	86	0	41	23	64
33	285	12.32	1.892	0.000	0.00	0.377	2.11	1.00	1.00	0.0	1.89	4.00	0.00	157	0	42	30	71
32	283	12.30	3.224	0.000	0.00	0.256	2.42	1.00	1.00	0.0	3.22	7.80	0.00	266	0	82	74	156
31	271	12.19	19.364	0.000	0.00	0.256	2.42	1.00	1.00	0.0	19.36	46.83	0.00	1599	0	485	441	926
30	251	11.99	15.809	0.000	0.00	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	971	0	413	293	706
29	238	11.86	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	289	0	136	87	223
28	231	11.79	6.147	0.000	0.00	0.246	2.45	1.00	1.00	0.0	6.15	15.06	0.00	327	0	151	86	237
27	227	11.74	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	72	0	33	21	55
26	225	11.72	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	72	0	33	21	55
25	224	11.70	1.308	0.000	0.00	0.209	2.57	1.00	1.00	0.0	1.31	3.36	0.00	72	0	33	21	55
24	222	11.69	1.832	0.000	0.00	0.293	2.32	1.00	1.00	0.0	1.83	4.24	0.00	123	0	42	21	64
23	218	11.64	5.272	0.000	0.00	0.211	2.56	1.00	1.00	0.0	5.27	13.50	0.00	289	0	134	85	219
22	208	11.52	10.537	0.000	0.00	0.211	2.56	1.00	1.00	0.0	10.54	26.97	0.00	960	0	264	255	519
21	198	11.41	6.082	0.000	0.00	0.243	2.46	1.00	1.00	0.0	6.08	14.95	0.00	521	0	145	127	272
20	190	11.30	10.432	0.000	0.00	0.278	2.36	1.00	1.00	0.0	10.43	24.57	0.00	553	0	236	126	362
19	183	11.22	3.033	0.000	0.00	0.243	2.46	1.00	1.00	0.0	3.03	7.46	0.00	162	0	71	41	112
18	178	11.15	5.651	0.000	0.00	0.224	2.52	1.00	1.00	0.0	5.65	14.22	0.00	329	0	135	82	216
17	173	11.09	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	164	0	67	40	107
16	170	11.05	2.130	0.000	0.00	0.338	2.20	1.00	1.00	0.0	2.13	4.69	0.00	158	0	44	20	64
15	169	11.03	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	91	0	36	20	56
14	167	11.01	1.593	0.000	0.00	0.253	2.43	1.00	1.00	0.0	1.59	3.87	0.00	91	0	36	20	56
13	165	10.98	1.398	0.000	0.00	0.222	2.53	1.00	1.00	0.0	1.40	3.53	0.00	82	0	33	20	53
12	163	10.95	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	164	0	66	40	106
11	158	10.88	6.526	0.000	0.00	0.259	2.41	1.00	1.00	0.0	6.53	15.73	0.00	338	0	145	79	225
10	148	10.73	11.294	0.000	0.00	0.224	2.52	1.00	1.00	0.0	11.29	28.42	0.00	601	0	259	157	416
9	131	10.46	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	901	0	379	229	608
8	120	10.26	2.822	0.000	0.00	0.224	2.52	1.00	1.00	0.0	2.82	7.10	0.00	150	0	62	37	99
7	110	10.07	14.706	0.000	0.00	0.234	2.49	1.00	1.00	0.0	14.71	36.58	0.00	1286	0	313	224	537
6	91	9.69	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1489	0	351	259	611
5	71	9.20	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1489	0	333	246	580
4	51	8.58	17.820	0.000	0.00	0.236	2.48	1.00	1.00	0.0	17.82	44.20	0.00	961	0	322	189	511
3	31	7.73	16.945	0.000	0.00	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	901	0	280	169	450
2	11	6.63	16.813	0.000	0.00	0.223	2.52	1.00	1.00	0.0	16.81	42.41	0.00	901	0	239	145	385
1	1	6.63	10.128	0.000	0.00	1.000	2.10	1.00	1.00	0.0	10.13	21.27	0.00	1045	0	120	5	48

** = Section Force Exceeds Solidity Ratio Criteria

Totals 18,230 0 9,628

1.0D + 1.0W Service 300°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
36	295	12.40	10.632	0.000	0.00	0.262	2.40	0.80	1.00	0.0	8.51	20.43	0.00	483	0	215	73	288
35	288	12.35	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	84	0	32	23	55
34	287	12.33	1.593	0.000	0.00	0.253	2.43	0.80	1.00	0.0	1.27	3.10	0.00	86	0	32	23	56
33	285	12.32	1.892	0.000	0.00	0.377	2.11	0.80	1.00	0.0	1.51	3.20	0.00	157	0	33	30	63
32	283	12.30	3.224	0.000	0.00	0.256	2.42	0.80	1.00	0.0	2.58	6.24	0.00	266	0	65	74	139
31	271	12.19	19.364	0.000	0.00	0.256	2.42	0.80	1.00	0.0	15.49	37.47	0.00	1599	0	388	441	829

CODE: ANSI/TIA-222-H
PROJECT: 14137966 C3 01

1.0D + 1.0W Service 300°	Gust Response Factor (G _h):	0.85
60 mph Wind with No Ice	Wind Importance Factor (I _w):	1.00

** = Section Force Exceeds Solidity Ratio Criteria

Totals	18,230	0	8,478
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** = Section Force Exceeds Solidity Ratio Criteria

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

EQUIVALENT LATERAL FORCE METHOD

Spectral Response Acceleration for Short Period (S_s):	0.08
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.05
Long-Period Transition Period (T_L – Seconds):	8
Importance Factor (I_e):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.08
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.08
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s :	0.03
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	0.76
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.13
Total Unfactored Dead Load:	22.39 k
Seismic Base Shear (E):	0.87 k

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_2 (lb-ft)	C_v	Horizontal Force (lb)	Vertical Force (lb)
36	294.66	483	298,462	0.039	34	588
35	288.44	84	50,860	0.007	6	103
34	286.78	86	51,583	0.007	6	105
33	285.28	157	93,348	0.012	11	191
32	282.94	266	157,024	0.021	18	324
31	271.28	1,599	899,172	0.118	103	1,946
30	251.28	971	500,839	0.066	58	1,182
29	237.94	289	140,017	0.018	16	351
28	231.28	327	153,340	0.020	18	397
27	227.10	72	33,251	0.004	4	88
26	225.44	72	32,975	0.004	4	88
25	223.76	72	32,699	0.004	4	88
24	222.10	123	54,962	0.007	6	149
23	217.92	289	126,778	0.017	15	351
22	207.92	960	399,924	0.053	46	1,169
21	197.92	521	205,333	0.027	24	635
20	189.59	553	207,429	0.027	24	673
19	182.92	162	58,521	0.008	7	198
18	177.92	329	114,716	0.015	13	400
17	172.92	164	55,466	0.007	6	200
16	170.42	158	52,673	0.007	6	193
15	168.76	91	30,058	0.004	3	111
14	167.08	91	29,722	0.004	3	111
13	165.42	82	26,446	0.004	3	100
12	162.92	164	51,851	0.007	6	200
11	157.92	338	103,232	0.014	12	412
10	147.92	601	170,216	0.022	20	731
9	131.25	901	223,110	0.029	26	1,097
8	119.58	150	33,443	0.004	4	183
7	109.58	1,286	259,655	0.034	30	1,565
6	91.25	1,489	244,480	0.032	28	1,812
5	71.25	1,489	184,848	0.024	21	1,812
4	51.25	961	82,205	0.011	9	1,170
3	31.25	901	44,073	0.006	5	1,097
2	11.25	901	13,891	0.002	2	1,097
1	0.62	1,045	614	0.000	0	1,271
Ericsson 8843 Rev 2	294.00	225	138,580	0.018	16	274
Ericsson Radio 4449 - B13&B5	294.00	210	129,341	0.017	15	256
Raycap RVZDC-6627-PF-48	294.00	64	39,418	0.005	5	78
Ericsson AIR 6449 B77D/ C-Band	294.00	245	150,775	0.020	17	298
Generic Mount Reinforcement	294.00	600	369,546	0.049	42	730
CSS X7-865	294.00	112	68,736	0.009	8	136

ASSET:	416988, Mason SW FL			CODE:	ANSI/TIA-222-H	
CUSTOMER:	ALLTEL COMMUNICATIONS, LLC			PROJECT:	14137966_C3_01	
JMA Wireless MX06FRO860-02	294.00	306	188,469	0.025	22	372
Flat Light Sector Frame	294.00	1,200	739,093	0.097	85	1,460
Torque Arms	287.80	400	240,501	0.032	28	487
Torque Arms	227.00	400	183,925	0.024	21	487
Torque Arms	170.30	400	132,920	0.018	15	487
Totals	22,391	7,598,518	1.000	873	27,252	

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY

Section 1 – 0.0' to 1.25'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear Φ _c P _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L CHN - MC18 x 58	-74.89	1.2D + 1.0W N	2.376	100	100	100	27.95	27.95	825.82	0.00	0.00	0	0	9	Member Y
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
H CHN - MC18 x 58	38.75	1.2D + 1.0W N	50.0	65	769.50	0.00	0.00	0.00	0	0	5	Member			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 2 – 1.2' to 21.25'

Shear																		
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			X	Y	Z	KL/R	F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
L PLA - M46-64 LEG	-44.96	1.2D + 1.0W N	3.333	100	100	100	49.50	49.50			49.50	74.12	149.10	234.00	12	2	60	Member Z
D PLA - M46-Y LACING	-1.48	1.2D + 1.0W N	4.833	50	50	50	0.00	0.00			5.67	0.00	0.00	8.70	1	1	26	User Input
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						
D PLA - M46-Y LACING	1.21	1.2D + 1.0W N	36.0	58	6.53	0.00	0.00	0.00	1	1	18	User Input						
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type												

Section 3 – 21.2' to 41.25'

Shear															
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
L PLA - M46-64 LEG	-45.23	1.2D + 1.0W N	3.333	100	100	100	49.50	49.50	74.12	149.10	234.00	12	2	61	Member Z
D PLA - M46-Y LACING	-0.58	1.2D + 1.0W 60°	4.833	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	10	User Input
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			
D PLA - M46-Y LACING	0.47	1.2D + 1.0W 60°	36.0	58	6.53	0.00	0.00	0.00	1	1	7	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 4 – 41.2' to 61.25'

Shear															
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L PLA - M46-64 LEG	-43.86	1.2D + 1.0W N	3.333	100	100	100	49.50	49.50	74.12	149.10	234.00	12	2	59	Member Z
D PLA - M46-Y LACING	-2.06	1.2D + 1.0W 120°	4.833	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	36	User Input
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	# Bolt	# Hole	Use %	Controls			
	Φ _t P _n (kip)														
D PLA - M46-Y LACING	1.70	1.2D + 1.0W N	36.0	58	6.53	0.00	0.00	0.00	1	1	26	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 5 – 61.2' to 81.25'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	ΦRnv (kip)														
L PLA - M46-64 LEG	-46.03	1.2D + 1.0W N	3.333	100	100	100	0.00	0.00	153.37	0.00	234.00	12	2	30	User Input
D PLA - M46-Y LACING	-1.43	1.2D + 1.0W N	4.833	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	25	User Input

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)					

FORCE/STRESS SUMMARY												
D PLA - M46-Y LACING	1.20	1.2D + 1.0W 90°	36.0	58	6.53	0.00	0.00	0.00	1	1	18	User Input
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type						

Section 6 – 81.2' to 101.25'

Shear															
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z										
L PLA - M46-64 LEG	-46.23	1.2D + 1.0W N	3.333	100	100	100	0.00	0.00	153.37	0.00	234.00	12	2	30	User Input
D PLA - M46-Y LACING	-0.69	1.2D + 1.0W N	4.833	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	12	User Input
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φt Pn (kip)														
D PLA - M46-Y LACING	0.89	1.2D + 1.0W 90°	36.0	58	6.53	0.00	0.00	0.00		1	1	13	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

Section 7 – 101.2' to 117.92'

Member Compression	Pu	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear						
	X			Y	Z	KL/R			Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	# Bolt	# Hole	Use %	Controls	
L PLA - M46-64 LEG	-42.23	1.2D + 1.0W N	3.334	100	100	100	0.00	0.00	153.37	0.00	234.00	12	2	27	User Input
D PLA - M46-Y LACING	-1.78	1.2D + 1.0W N	4.834	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	31	User Input
Member Tension	Pu	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				Use %	Controls		
	Φ _t P _n (kip)							# Bolt	# Hole						
D PLA - M46-Y LACING	1.44	1.2D + 1.0W 330°	36.0	58	6.53	0.00	0.00	0.00	1	1	22	User Input			
Max Splice Forces	Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									

Section 8 – 117.9' to 121.25'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' y (ksi)	Φc Pn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z									
	L PLA - M46-64 LEG	-34.11	1.2D + 1.0W N	3.33	100	100	100	49.46	49.46	74.13	0.00	0.00	0	0	46
D PLA - M46-Y LACING	-0.75	1.2D + 1.0W 60°	4.831	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	13	User Input
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			
	D PLA - M46-Y LACING	0.47	1.2D + 1.0W 60°	36.0	58	6.53	0.00	0.00	0.00	1	1	7	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

Section 9 – 121.2' to 141.25'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z									
L PLA - M46-64 LEG	-34.66	1.2D + 1.0W N	3.333	100	100	100	49.50	49.50	74.12	149.10	234.00	12	2	46	Member Z
D PLA - M46-Y LACING	-0.74	1.2D + 1.0W N	4.833	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	13	User Input
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			
D PLA - M46-Y LACING	0.72	1.2D + 1.0W 240°	36.0	58	6.53	0.00	0.00	0.00	1	1	11	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 10 – 141.2' to 154.58'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z									
L PLA - M46-64 LEG	-39.90	1.2D + 1.0W N	3.333	100	100	100	49.49	49.49	74.12	149.10	234.00	12	2	53	Member Z

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY

Section 10 – 141.2' to 154.58'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear	Bear ΦRn (kip)	#	#	Use %	Controls
	X			Y	Z	ΦRnv (kip)				Bolt		Hole			
D PLA - M46-Y LACING	-1.31	1.2D + 1.0W 120°	4.833	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	23	User Input
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear	ΦRn (kip)	Blk Shear	Φt Pn (kip)	#	#	Use %	Controls		
	ΦRnv (kip)					Φt Pn (kip)		Bolt		Hole					
D PLA - M46-Y LACING	1.46	1.2D + 1.0W N	36.0	58	6.53	0.00	0.00	0.00	0.00	1	1	22	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY

Section 11 – 154.6' to 161.25'

										Shear	Bear	#	#	Use	
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	ΦR _n (kip)	Bolt	Hole	%	Controls
L PLA - M46-64 LEG	-48.34	1.2D + 1.0W N	3.335	50	50	50	24.76	24.76	80.78	0.00	0.00	0	0	59	Member Z
D PLA - M46-Y LACING	-1.71	1.2D + 1.0W N	4.835	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	30	User Input
										Blk Shear					
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)	Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls		
D PLA - M46-Y LACING	2.06	1.2D + 1.0W N	36.0	58	6.53		0.00	0.00	0.00	1	1	31	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 12 – 161.2' to 164.58'

Member Compression	Pu	Load Case	Len	Bracing %			F _y	Φ _c P _n	Shear	Bear	#	#	Use	Controls	
	(kip)		(ft)	X	Y	Z	KL/R	(ksi)	(kip)	ΦR _{nv}	ΦR _n (kip)	Bolt	Hole		%
										(kip)					
L PLA - M46-65 LEG	-51.25	1.2D + 1.0W N	3.33	100	100	100	49.52	49.52	92.42	149.10	292.50	12	2	55	Member Z
D PLA - M46-Y LACING	-2.55	1.2D + 1.0W 120°	4.831	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	45	User Input
Member Tension	Pu	Load Case	F _y	F _u	Φ _c P _n	Shear	Bear	Blk Shear							Controls
	(kip)		(ksi)	(ksi)	(kip)	ΦR _{nv}	ΦR _n	Φ _t P _n	#	#	Use				
						(kip)	(kip)	(kip)	Bolt	Hole	%				
D PLA - M46-Y LACING	1.36	1.2D + 1.0W 90°	36.0	58	6.53	0.00	0.00	0.00	1	1	20				User Input
Max Splice Forces	Pu	Load Case	ΦR _{nt}	Use	Num	Bolt Type									
(kip)			(kip)	%	Bolts										

Section 13 – 164.6' to 166.25'

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 PLA - M46-65 LEG	-59.12	1.2D + 1.0W 120°	1.67	200	200	200	49.67	49.67	92.35	0.00	0.00	0	0	64	Member Z
H DUM - 0.1X0.1X1	-0.03	1.2D + 1.0W 180°	1.75	100	100	100	0.21	0.21	0.45	0.00	0.00	0	0	6	Member X
D PLA - M46-Y LACING	-4.64	1.2D + 1.0W 90°	2.419	100	100	100	0.00	0.00	5.67	0.00	8.70	1	1	81	User Input
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
H DUM - 0.1X0.1X1	0.03	1.2D + 1.0W N	50.0	65	0.45	0.00	0.00	0.00	0	0	5	Member			
D PLA - M46-Y LACING	3.30	1.2D + 1.0W 120°	36.0	58	6.53	0.00	0.00	0.00	1	1	50	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 14 – 166.2' to 167.92'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z									
L PLA - M46-65 LEG	-62.24	1.2D + 1.0W 120°	1.67	200	200	200	49.67	49.67	92.35	0.00	0.00	0	0	67	Member Z
D PLA - M46-T LACING	-4.65	1.2D + 1.0W 90°	2.419	100	100	100	0.00	0.00	10.61	0.00	12.46	1	1	43	User Input
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 PLA - M46-65 LEG	1.52	1.2D + 1.0W 180°	50.0	65	93.15	0.00	0.00	0.00	0	0	1	Member			
D PLA - M46-T LACING	3.35	1.2D + 1.0W 120°	36.0	58	9.34	0.00	0.00	0.00	1	1	35	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

Section 15 – 167.9' to 169.59'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z									
L PLA - M46-65 LEG	-67.70	1.2D + 1.0W 120°	1.67	200	200	200	49.67	49.67	92.35	0.00	0.00	0	0	73	Member Z

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY

Section 15 – 167.9' to 169.59'

	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	Φ _t P _n (kip)					
Member Compression																
H DUM - 0.1X0.1X1	-0.03	1.2D + 1.0W 180°	1.75	100	100	100	0.21	0.21	0.45	0.00	0.00	0.00	0	0	5	Member X
D PLA - M46-T LACING	-3.32	1.2D + 1.0W N	2.419	100	100	100	0.00	0.00	10.61	0.00		12.46	1	1	31	User Input
Member Tension																
L PLA - M46-65 LEG	1.57	1.2D + 1.0W 60°	50.0		65	93.15	0.00	0.00				0	0		1	Member
H DUM - 0.1X0.1X1	0.03	1.2D + 1.0W N	50.0		65	0.45	0.00	0.00		0.00		0	0		7	Member
D PLA - M46-T LACING	4.15	1.2D + 1.0W 60°	36.0		58	9.34	0.00	0.00		0.00		1	1		44	User Input
Max Splice Forces																
	Pu (kip)	Load Case														
			ΦR _{nt} (kip)				Use %		Num Bolts		Bolt Type					

Section 16 – 169.6' to 171.26'

	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	Φ _t P _n (kip)					
Member Compression																
L PLA - M46-65 LEG	-67.53	1.2D + 1.0W 120°	1.67	200	200	200	49.67	49.67	92.35	0.00	0.00	0.00	0	0	73	Member Z
H DAE - 2X2X0.25	-0.60	1.2D + 1.0W N	3.5	100	100	100	115.51	115.51	39.29	27.61		34.80	2	2	2	Bolt Shear
D PLA - M46-T LACING	-3.32	1.2D + 1.0W N	2.419	100	100	100	0.00	0.00	10.61	0.00		12.46	1	1	31	User Input
Member Tension																
L PLA - M46-65 LEG	2.03	1.2D + 1.0W 300°	50.0		65	93.15	0.00	0.00				0	0		2	Member
H DAE - 2X2X0.25	2.60	1.2D + 1.0W N	36.0		58	50.12	27.61	20.88		18.22		2	2		14	Blk Shear
D PLA - M46-T LACING	4.21	1.2D + 1.0W 330°	36.0		58	9.34	0.00	0.00		0.00		1	1		45	User Input
Max Splice Forces																
	Pu (kip)	Load Case														
			ΦR _{nt} (kip)				Use %		Num Bolts		Bolt Type					

Section 17 – 171.3' to 174.59'

	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	Φ _t P _n (kip)					
Member Compression																
L PLA - M46-65 LEG	-59.83	1.2D + 1.0W N	3.33	100	100	100	49.52	49.52	92.42	0.00	0.00	0.00	0	0	64	Member Z
D PLA - M46-Y LACING	-3.19	1.2D + 1.0W N	4.831	50	50	50	0.00	0.00	5.67	0.00		8.70	1	1	56	User Input
Member Tension																
D PLA - M46-Y LACING	1.53	1.2D + 1.0W 60°	36.0		58	6.53	0.00	0.00		0.00		1	1		23	User Input
Max Splice Forces																
	Pu (kip)	Load Case														
			ΦR _{nt} (kip)				Use %		Num Bolts		Bolt Type					

Section 18 – 174.6' to 181.26'

	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear		Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
				X	Y	Z				ΦR _{nv} (kip)	Φ _t P _n (kip)					
Member Compression																
L PLA - M46-65 LEG	-56.78	1.2D + 1.0W N	3.335	100	100	100	49.59	49.59	92.38	0.00	0.00	0.00	0	0	61	Member Z
D PLA - M46-Y LACING	-1.44	1.2D + 1.0W 90°	4.835	50	50	50	0.00	0.00	5.67	0.00		8.70	1	1	25	User Input
Member Tension																
D PLA - M46-Y LACING	1.66	1.2D + 1.0W 90°	36.0		58	6.53	0.00	0.00		0.00		1	1		25	User Input
Max Splice Forces																
	Pu (kip)	Load Case														
			ΦR _{nt} (kip)				Use %		Num Bolts		Bolt Type					

Section 19 – 181.3' to 184.59'

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

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY

Section 19 – 181.3' to 184.59'

Shear																
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %				F' _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls	
L PLA - M46-54 LEG	-49.24	1.2D + 1.0W N	3.33	X	Y	Z	KL/R	55.50	55.50	64.23	149.10	234.00	12	2	76	Member Z
D PLA - M46-T LACING	-1.39	1.2D + 1.0W N	4.831	50	50	50	0.00	0.00	10.61	0.00	12.46	1	1	13	User Input	
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			
D PLA - M46-T LACING	1.25	1.2D + 1.0W 90°	36.0	58	9.34		0.00	0.00	0.00	1	1	13	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type										

Section 20 – 184.6' to 194.59'

										Shear							
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	ΦRnv	Bear	#	#	Use	Controls		
	X			Y	Z	(kip)				ΦRn (kip)	Bolt	Hole	%				
L PLA - M46-54 LEG	-46.64	1.2D + 1.0W 240°	3.333	50	50	50	27.78	27.78	71.71	0.00	0.00	0	0	65	Member Z		
D PLA - M46-T LACING	-1.07	1.2D + 1.0W 90°	4.833	50	50	50	0.00	0.00	10.61	0.00	12.46	1	1	10	User Input		
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear	Bear	Blk Shear		#	#	Use	Controls				
	ΦRnv (kip)					ΦRn (kip)	Φt Pn (kip)	Bolt	Hole	%							
D PLA - M46-T LACING	1.14	1.2D + 1.0W 90°	36.0	58	9.34	0.00	0.00	0.00		1	1	12	User Input				
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type											

Section 21 – 194.6' to 201.26'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z	0.00		0.00	146.77	0.00	0.00	12.46	0	0	
L PLA - M46-54 LEG	-39.68	1.2D + 1.0W N	3.335	100	100	100	0.00	0.00	10.61	0.00	12.46	1	1	5	User Input
D PLA - M46-T LACING	-0.58	1.2D + 1.0W N	4.835	50	50	50	0.00	0.00	10.61	0.00	12.46	1	1	5	User Input
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
	0.00					0.00	0.00	1	1	6					
D PLA - M46-T LACING	0.59	1.2D + 1.0W 90°	36.0	58	9.34	0.00	0.00	0.00	1	1	6	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 22 – 201.3' to 214.59'

										Shear							
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls		
L PLA - M46-54 LEG	-37.62	1.2D + 1.0W N	3.333	100	100	100	0.00	0.00	146.77	0.00	234.00	12	2	25	User Input		
D PLA - M46-Y LACING	-0.66	1.2D + 1.0W 60°	4.833	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	11	User Input		
										Shear	Bear	Blk Shear					
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	ΦRnv (kip)	ΦRn (kip)	Φt Pn (kip)	# Bolt	# Hole	Use %	Controls					
D PLA - M46-Y LACING	0.49	1.2D + 1.0W 60°	36.0	58	6.53	0.00	0.00	0.00	1	1	7	User Input					
										ΦRnt (kip)	Use %	Num Bolts	Bolt Type				
Max Splice Forces	Pu (kip)	Load Case															

Section 23 – 214.6' to 221.26'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear			Use %	Controls	
	X			Y	Z	ΦRnv (kip)				Bear ΦRn (kip)	# Bolt	# Hole			
L PLA - M46-54 LEG	-40.63	1.2D + 1.0W N	3.335	100	100	100	55.58	55.58	64.20	0.00	0.00	0	0	63	Member Z
D PLA - M46-Y LACING	-1.31	1.2D + 1.0W N	4.835	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	23	User Input

Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear		Bear		Blk Shear		Use %	Controls
	ΦRnv (kip)					ΦRn (kip)	Φt Pn (kip)	# Bolt	# Hole				

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY												
D PLA - M46-Y LACING	0.93	1.2D + 1.0W 60°	36.0	58	6.53	0.00	0.00	0.00	1	1	14	User Input
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type						

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY

Section 24 – 221.3' to 222.93'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	ΦR _{nv} (kip)														
L PLA - M46-54 LEG	-44.20	1.2D + 1.0W N	1.67	200	200	200	55.67	55.67	64.17	149.10	234.00	12	2	68	Member Z
H SAE - 2X2X0.25	-9.46	1.2D + 1.0W 120°	1.75	50	50	50	73.43	73.43	35.93	13.81	19.50	1	1	68	Bolt Shear
D PLA - M46-Y LACING	-0.78	1.2D + 1.0W 60°	2.419	100	100	100	0.00	0.00	5.67	0.00	8.70	1	1	13	User Input
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φ _t P _n (kip)														
H SAE - 2X2X0.25	4.21	1.2D + 1.0W 180°	50.0	65	28.08	13.81	11.70	10.21		1	1	41	Blk Shear		
D PLA - M46-Y LACING	1.31	1.2D + 1.0W N	36.0	58	6.53	0.00	0.00	0.00		1	1	20	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 25 – 222.9' to 224.60'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear		# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦRnv (kip)				Bear ΦRn (kip)					
L PLA - M46-54 LEG	-50.23	1.2D + 1.0W 120°	1.67	200	200	200	55.67	55.67	64.17	0.00	0.00	0	0	78	Member Z
D PLA - M46-Y LACING	-1.49	1.2D + 1.0W 330°	2.419	100	100	100	0.00	0.00	5.67	0.00	8.70	1	1	26	User Input
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φt Pn (kip)														
L PLA - M46-54 LEG	11.16	1.2D + 1.0W 180°	50.0	65	66.79	0.00	0.00			0	0	16	Member		
D PLA - M46-Y LACING	2.93	1.2D + 1.0W N	36.0	58	6.53	0.00	0.00	0.00		1	1	44	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

Section 26 – 224.6' to 226.27'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear		Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z	KL/R			ΦRnv (kip)						
L PLA - M46-54 LEG	-54.11	1.2D + 1.0W N	1.67	200	200	200	55.67	55.67	64.17	0.00	0.00	0	0	84	Member Z
H DUM - 0.1X0.1X1	-0.02	1.2D + 1.0W 180°	1.75	100	100	100	0.21	0.21	0.45	0.00	0.00	0	0	5	Member X
D PLA - M46-Y LACING	-0.46	1.2D + 1.0W 330°	2.419	100	100	100	0.00	0.00	5.67	0.00	8.70	1	1	8	User Input
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φt Pn (kip)														
L PLA - M46-54 LEG	10.15	1.2D + 1.0W 60°	50.0	65	66.79	0.00	0.00			0	0	15	Member		
H DUM - 0.1X0.1X1	0.03	1.2D + 1.0W N	50.0	65	0.45	0.00	0.00	0.00		0	0	7	Member		
D PLA - M46-Y LACING	4.15	1.2D + 1.0W 90°	36.0	58	6.53	0.00	0.00	0.00		1	1	63	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

Section 27 – 226.3' to 227.94'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear		Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦRnv (kip)				Blk Shear Φt Pn (kip)						
L PLA - M46-54 LEG	-53.95	1.2D + 1.0W N	1.67	200	200	200	55.67	55.67	64.17	0.00	0.00	0	0	84	Member Z	
D PLA - M46-Y LACING	-0.42	1.2D + 1.0W 330°	2.419	100	100	100	0.00	0.00	5.67	0.00	8.70	1	1	7	User Input	
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls			
	Φt Pn (kip)															
L PLA - M46-54 LEG	10.39	1.2D + 1.0W 60°	50.0	65	66.79	0.00	0.00			0	0	15	Member			
D PLA - M46-Y LACING	4.13	1.2D + 1.0W 90°	36.0	58	6.53	0.00	0.00	0.00		1	1	63	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type										

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY

Section 28 – 227.9' to 234.61'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	ΦR _{nv} (kip)														
L PLA - M46-54 LEG	-44.93	1.2D + 1.0W N	3.335	50	50	50	27.79	27.79	71.71	0.00	0.00	0	0	62	Member Z
D PLA - M46-Y LACING	-2.98	1.2D + 1.0W 90°	4.835	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	52	User Input
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 PLA - M46-54 LEG	8.10	1.2D + 1.0W 60°	50.0	65	66.79	0.00	0.00		0	0	12	Member			
D PLA - M46-Y LACING	2.80	1.2D + 1.0W 330°	36.0	58	6.53	0.00	0.00	0.00	1	1	42	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY

Section 29 – 234.6' to 241.28'

Shear															
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F' _y (ksi)	Φ _c P _n (kip)	ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls	
L PLA - M46-54 LEG	-32.90	1.2D + 1.0W N	3.335	100	100	100	55.58	55.58	64.20	0.00	0.00	0	0	51	Member Z
D PLA - M46-Y LACING	-2.18	1.2D + 1.0W 210°	4.835	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	38	User Input
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		
D PLA - M46-Y LACING	2.43	1.2D + 1.0W 330°	36.0	58	6.53	0.00	0.00	0.00		1	1	37	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 30 – 241.3' to 261.28'

											Shear					
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls	
	X			Y	Z											
L PLA - M46-54 LEG	-24.09	1.2D + 1.0W 60°	3.333	100	100	100	55.56	55.56	64.21	149.10	234.00	12	2	37	Member Z	
D PLA - M46-Y LACING	-1.72	1.2D + 1.0W 90°	4.833	50	50	50	0.00	0.00	5.67	0.00	8.70	1	1	30	User Input	
											Shear	Bear	Blk Shear			
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	ΦRnv (kip)	ΦRn (kip)	Φt Pn (kip)	# Bolt	# Hole	Use %	Controls				
D PLA - M46-Y LACING	1.92	1.2D + 1.0W 90°	36.0	58	6.53	0.00	0.00	0.00	1	1	29	User Input				
											ΦRnt (kip)	Use %	Num Bolts	Bolt Type		
Max Splice Forces	Pu (kip)	Load Case														

Section 31 – 261.3' to 281.28'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear		Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦRnv (kip)				Φt Pn (kip)						
L PLA - M46-64 LEG	-26.38	1.2D + 1.0W 60°	3.333	100	100	100	49.50	49.50	74.12	149.10	234.00	12	2	35	Member Z	
D PLA - M46-T LACING	-1.28	1.2D + 1.0W 330°	4.833	50	50	50	0.00	0.00	10.61	0.00	12.46	1	1	12	User Input	
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls			
	Φt Pn (kip)															
L PLA - M46-64 LEG	0.74	1.2D + 1.0W N	50.0	65	64.17	149.10	226.20			12	2	1	Member			
D PLA - M46-T LACING	2.28	1.2D + 1.0W 60°	36.0	58	9.34	0.00	0.00	0.00		1	1	24	User Input			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type										

Section 32 – 281.3' to 284.61'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear		# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦRnv (kip)				Bear ΦRn (kip)					
L PLA - M46-64 LEG	-17.82	1.2D + 1.0W 60°	3.33	100	100	100	49.46	49.46	74.13	149.10	234.00	12	2	24	Member Z
D PLA - M46-T LACING	-3.64	1.2D + 1.0W 90°	4.831	50	50	50	0.00	0.00	10.61	0.00	12.46	1	1	34	User Input
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φt Pn (kip)														
Max Splice Forces		Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type								

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

FORCE/STRESS SUMMARY

Section 33 – 284.6' to 285.94'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦR _{nv} (kip)									
L PLA - M46-64 LEG	-10.24	1.2D + 1.0W 120°	1.33	100	100	100	19.75	19.75	81.59	0.00	0.00	0	0	12	Member Z
D SAE - 2X2X0.25	-6.10	1.2D + 1.0W 60°	3.744	50	50	50	73.09	73.09	28.16	13.81	17.40	1	1	44	Bolt Shear
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
								Φ _t P _n (kip)							
L PLA - M46-64 LEG	8.79	1.2D + 1.0W 180°	50.0	65	74.70	0.00	0.00			0	0	11	Member		
D SAE - 2X2X0.25	4.21	1.2D + 1.0W 120°	36.0	58	25.06	13.81	10.44	9.11		1	1	46	Blk Shear		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 34 – 285.9' to 287.61'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear					Controls
	X			Y	Z	ΦR _{nv} (kip)				Bear ΦR _n (kip)	# Bolt	# Hole	Use %		
L PLA - M46-64 LEG	-19.32	1.2D + 1.0W N	1.67	200	200	200	49.60	49.60	74.08	0.00	0.00	0	0	26	Member Z
H DUM - 0.1X0.1X1	-0.02	1.2D + 1.0W 180°	1.75	100	100	100	0.21	0.21	0.45	0.00	78.00	1	1	5	Member X
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
	Φ _t P _n (kip)														
L PLA - M46-64 LEG	4.38	1.2D + 1.0W 60°	50.0	65	74.70	0.00	0.00			0	0	5	Member		
H DUM - 0.1X0.1X1	0.04	1.2D + 1.0W N	50.0	65	0.45	0.00	46.80	0.00		1	1	8	Member		
D PLA - M46-T LACING	6.38	1.2D + 1.0W 90°	36.0	58	9.34	0.00	0.00	0.00		1	1	68	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

Section 35 – 287.6' to 289.28'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F'y (ksi)	Φc Pn (kip)	Shear	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	ΦRnv (kip)														
L PLA - M46-64 LEG	-19.12	1.2D + 1.0W N	1.67	200	200	200	49.60	49.60	74.08	0.00	0.00	0	0	25	Member Z
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 PLA - M46-64 LEG	4.70	1.2D + 1.0W 60°	50.0	65	74.70	0.00	0.00			0	0	6	Member		
D PLA - M46-T LACING	6.36	1.2D + 1.0W 90°	36.0	58	9.34	0.00	0.00	0.00		1	1	68	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									

Section 36 – 289.3' to 300.03'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F' _y (ksi)	Φ _c P _n (kip)	Shear		# Bolt	# Hole	Use %	Controls
	X			Y	Z	ΦR _{nv} (kip)				Bear ΦR _n (kip)					
L PLA - M46-64 LEG	-6.35	1.2D + 1.0W N	3.333	100	100	100	49.50	49.50	74.12	0.00	0.00	0	0	8	Member Z
H SAE - 2X2X0.125	-0.52	1.2D + 1.0W 60°	3.5	100	100	100	105.53	105.53	11.23	13.81	8.70	1	1	6	Bolt Bear
D PLA - M46-T LACING	-4.06	1.2D + 1.0W 90°	4.833	50	50	50	0.00	0.00	10.61	0.00	12.46	1	1	38	User Input
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear		# Bolt	# Hole	Use %	Controls		
								Φ _t P _n (kip)							
L PLA - M46-64 LEG	4.89	1.2D + 1.0W 60°	50.0	65	74.70	0.00	0.00			0	0	6	Member		
H SAE - 2X2X0.125	0.46	1.2D + 1.0W N	36.0	58	12.86	13.81	5.22	4.55		1	1	10	Blk Shear		
D PLA - M46-T LACING	2.58	1.2D + 1.0W 210°	36.0	58	9.34	0.00	0.00	0.00		1	1	27	User Input		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W Normal	54.58	7/16 EHS	A1	18	12.48	0.08	1
		7/16 EHS	A1b	18a	12.48	7.33	59
		7/16 EHS	A1a	18b	12.48	7.27	58
	111.25	1/2 EHS	A1	35	16.14	0.25	2
		1/2 EHS	A1b	35a	16.14	7.51	47
		1/2 EHS	A1a	35b	16.14	7.48	46
	169.59	9/16 EHS	A2b	T3	21	7.01	33
		9/16 EHS	A2	T3	21	0.28	1
		9/16 EHS	A2a	T3a	21	6.74	32
		9/16 EHS	A2b	T3a	21	6.74	32
		9/16 EHS	A2a	T3b	21	7.01	33
		9/16 EHS	A2	T3b	21	0.28	1
	226.27	9/16 EHS	A2	T4	21	0.81	4
		9/16 EHS	A2b	T4	21	7.97	38
		9/16 EHS	A2a	T4a	21	8.55	41
		9/16 EHS	A2b	T4a	21	8.52	41
		9/16 EHS	A2a	T4b	21	7.99	38
		9/16 EHS	A2	T4b	21	0.81	4
	287.61	9/16 EHS	A2	T5	21	1.22	6
		9/16 EHS	A2b	T5	21	10.62	51
		9/16 EHS	A2a	T5a	21	11.05	53
		9/16 EHS	A2b	T5a	21	11.03	53
		9/16 EHS	A2a	T5b	21	10.64	51
		9/16 EHS	A2	T5b	21	1.22	6
1.2D + 1.0W 60°	54.58	7/16 EHS	A1	18	12.48	0.92	7
		7/16 EHS	A1b	18a	12.48	0.92	7
		7/16 EHS	A1a	18b	12.48	7.22	58
	111.25	1/2 EHS	A1	35	16.14	1.36	8
		1/2 EHS	A1b	35a	16.14	1.36	8
		1/2 EHS	A1a	35b	16.14	8.74	54
	169.59	9/16 EHS	A2b	T3	21	3.17	15
		9/16 EHS	A2	T3	21	3.2	15
		9/16 EHS	A2a	T3a	21	8.43	40
		9/16 EHS	A2b	T3a	21	3.01	14
		9/16 EHS	A2a	T3b	21	8.41	40
		9/16 EHS	A2	T3b	21	3.03	14
	226.27	9/16 EHS	A2	T4	21	3.32	16
		9/16 EHS	A2b	T4	21	3.3	16
		9/16 EHS	A2a	T4a	21	10.14	48
		9/16 EHS	A2b	T4a	21	3.25	15
		9/16 EHS	A2a	T4b	21	10.14	48
		9/16 EHS	A2	T4b	21	3.27	16
	287.61	9/16 EHS	A2	T5	21	3.61	17
		9/16 EHS	A2b	T5	21	3.58	17
		9/16 EHS	A2a	T5a	21	12.78	61
		9/16 EHS	A2b	T5a	21	3.49	17
		9/16 EHS	A2a	T5b	21	12.77	61
		9/16 EHS	A2	T5b	21	3.5	17
1.2D + 1.0W 90°	54.58	7/16 EHS	A1	18	12.48	4.09	33
		7/16 EHS	A1b	18a	12.48	0.22	2
		7/16 EHS	A1a	18b	12.48	7.72	62
	111.25	1/2 EHS	A1	35	16.14	3.91	24
		1/2 EHS	A1b	35a	16.14	0.52	3
		1/2 EHS	A1a	35b	16.14	8.68	54
	169.59	9/16 EHS	A2	T3	21	5.11	24
		9/16 EHS	A2b	T3	21	1.36	6
		9/16 EHS	A2a	T3a	21	8.03	38
		9/16 EHS	A2b	T3a	21	1.24	6
		9/16 EHS	A2a	T3b	21	7.91	38

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W 120°	226.27	9/16 EHS	A2	T3b	21	4.85	23
		9/16 EHS	A2	T4	21	5.52	26
		9/16 EHS	A2b	T4	21	1.58	8
		9/16 EHS	A2b	T4a	21	1.48	7
		9/16 EHS	A2a	T4a	21	9.42	45
		9/16 EHS	A2a	T4b	21	9.9	47
		9/16 EHS	A2	T4b	21	5.75	27
		9/16 EHS	A2	T5	21	6.96	33
	287.61	9/16 EHS	A2b	T5	21	1.81	9
		9/16 EHS	A2a	T5a	21	12.27	58
		9/16 EHS	A2b	T5a	21	1.72	8
		9/16 EHS	A2	T5b	21	7.11	34
		9/16 EHS	A2a	T5b	21	12.67	60
		7/16 EHS	A1	18	12.48	7.32	59
		7/16 EHS	A1b	18a	12.48	0.08	1
		7/16 EHS	A1a	18b	12.48	7.27	58
	111.25	1/2 EHS	A1	35	16.14	7.52	47
		1/2 EHS	A1b	35a	16.14	0.26	2
		1/2 EHS	A1a	35b	16.14	7.48	46
	169.59	9/16 EHS	A2	T3	21	7.02	33
		9/16 EHS	A2b	T3	21	0.25	1
		9/16 EHS	A2a	T3a	21	6.98	33
		9/16 EHS	A2b	T3a	21	0.25	1
		9/16 EHS	A2	T3b	21	6.75	32
		9/16 EHS	A2a	T3b	21	6.7	32
		9/16 EHS	A2b	T4	21	0.78	4
		9/16 EHS	A2	T4	21	8.01	38
	226.27	9/16 EHS	A2a	T4a	21	7.97	38
		9/16 EHS	A2b	T4a	21	0.78	4
		9/16 EHS	A2	T4b	21	8.55	41
		9/16 EHS	A2a	T4b	21	8.52	41
		9/16 EHS	A2b	T5	21	1.19	6
		9/16 EHS	A2	T5	21	10.67	51
		9/16 EHS	A2a	T5a	21	10.63	51
		9/16 EHS	A2b	T5a	21	1.19	6
1.2D + 1.0W 180°	287.61	9/16 EHS	A2a	T5b	21	11.02	52
		9/16 EHS	A2	T5b	21	11.06	53
		7/16 EHS	A1	18	12.48	7.27	58
	54.58	7/16 EHS	A1b	18a	12.48	0.92	7
		7/16 EHS	A1a	18b	12.48	0.92	7
		1/2 EHS	A1	35	16.14	8.78	54
	111.25	1/2 EHS	A1b	35a	16.14	1.36	8
		1/2 EHS	A1a	35b	16.14	1.34	8
	169.59	9/16 EHS	A2b	T3	21	3.01	14
		9/16 EHS	A2	T3	21	8.46	40
		9/16 EHS	A2a	T3a	21	3.16	15
		9/16 EHS	A2b	T3a	21	3.16	15
		9/16 EHS	A2a	T3b	21	3.01	14
		9/16 EHS	A2	T3b	21	8.46	40
		9/16 EHS	A2	T4	21	10.17	48
		9/16 EHS	A2b	T4	21	3.24	15
	226.27	9/16 EHS	A2a	T4a	21	3.28	16
		9/16 EHS	A2b	T4a	21	3.28	16
		9/16 EHS	A2a	T4b	21	3.25	15
		9/16 EHS	A2	T4b	21	10.17	48
		9/16 EHS	A2	T5	21	12.81	61
	287.61	9/16 EHS	A2b	T5	21	3.48	17
		9/16 EHS	A2a	T5a	21	3.57	17
		9/16 EHS	A2b	T5a	21	3.57	17

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W 210°	54.58	9/16 EHS	A2a	T5b	21	3.48	17
		9/16 EHS	A2	T5b	21	12.81	61
		7/16 EHS	A1	18	12.48	7.77	62
		7/16 EHS	A1b	18a	12.48	4.09	33
		7/16 EHS	A1a	18b	12.48	0.21	2
		1/2 EHS	A1	35	16.14	8.72	54
	111.25	1/2 EHS	A1b	35a	16.14	3.89	24
		1/2 EHS	A1a	35b	16.14	0.51	3
		9/16 EHS	A2	T3	21	7.97	38
	169.59	9/16 EHS	A2b	T3	21	4.82	23
		9/16 EHS	A2b	T3a	21	5.08	24
		9/16 EHS	A2a	T3a	21	1.36	6
		9/16 EHS	A2a	T3b	21	1.25	6
		9/16 EHS	A2	T3b	21	8.07	38
		9/16 EHS	A2b	T4	21	5.73	27
	226.27	9/16 EHS	A2	T4	21	9.94	47
		9/16 EHS	A2a	T4a	21	1.58	8
		9/16 EHS	A2b	T4a	21	5.48	26
		9/16 EHS	A2	T4b	21	9.47	45
		9/16 EHS	A2a	T4b	21	1.49	7
		9/16 EHS	A2	T5	21	12.72	61
	287.61	9/16 EHS	A2b	T5	21	7.09	34
		9/16 EHS	A2a	T5a	21	1.81	9
		9/16 EHS	A2b	T5a	21	6.91	33
		9/16 EHS	A2a	T5b	21	1.73	8
		9/16 EHS	A2	T5b	21	12.32	59
		7/16 EHS	A1	18	12.48	7.32	59
1.2D + 1.0W 240°	54.58	7/16 EHS	A1b	18a	12.48	7.33	59
		7/16 EHS	A1a	18b	12.48	0.09	1
		1/2 EHS	A1	35	16.14	7.51	47
	111.25	1/2 EHS	A1b	35a	16.14	7.5	46
		1/2 EHS	A1a	35b	16.14	0.24	1
		9/16 EHS	A2b	T3	21	6.71	32
	169.59	9/16 EHS	A2	T3	21	6.75	32
		9/16 EHS	A2b	T3a	21	7	33
		9/16 EHS	A2a	T3a	21	0.26	1
		9/16 EHS	A2a	T3b	21	0.26	1
		9/16 EHS	A2	T3b	21	7.03	33
		9/16 EHS	A2b	T4	21	8.5	40
	226.27	9/16 EHS	A2	T4	21	8.56	41
		9/16 EHS	A2b	T4a	21	7.95	38
		9/16 EHS	A2a	T4a	21	0.79	4
		9/16 EHS	A2a	T4b	21	0.79	4
		9/16 EHS	A2	T4b	21	8.02	38
		9/16 EHS	A2	T5	21	11.06	53
	287.61	9/16 EHS	A2b	T5	21	11.01	52
		9/16 EHS	A2b	T5a	21	10.61	51
		9/16 EHS	A2a	T5a	21	1.2	6
		9/16 EHS	A2	T5b	21	10.68	51
		9/16 EHS	A2a	T5b	21	1.2	6
		7/16 EHS	A1	18	12.48	0.91	7
1.2D + 1.0W 300°	54.58	7/16 EHS	A1b	18a	12.48	7.28	58
		7/16 EHS	A1a	18b	12.48	0.9	7
		1/2 EHS	A1	35	16.14	1.35	8
	111.25	1/2 EHS	A1b	35a	16.14	8.74	54
		1/2 EHS	A1a	35b	16.14	1.34	8
		9/16 EHS	A2b	T3	21	8.42	40
	169.59	9/16 EHS	A2	T3	21	3.03	14
		9/16 EHS	A2a	T3a	21	3.02	14

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W 330°	226.27	9/16 EHS	A2b	T3a	21	8.44	40
		9/16 EHS	A2a	T3b	21	3.18	15
		9/16 EHS	A2	T3b	21	3.2	15
		9/16 EHS	A2	T4	21	3.27	16
		9/16 EHS	A2b	T4	21	10.12	48
		9/16 EHS	A2a	T4a	21	3.27	16
		9/16 EHS	A2b	T4a	21	10.12	48
		9/16 EHS	A2a	T4b	21	3.31	16
		9/16 EHS	A2	T4b	21	3.33	16
		9/16 EHS	A2	T5	21	3.51	17
		9/16 EHS	A2b	T5	21	12.76	61
		9/16 EHS	A2a	T5a	21	3.5	17
	287.61	9/16 EHS	A2b	T5a	21	12.77	61
		9/16 EHS	A2a	T5b	21	3.6	17
		9/16 EHS	A2	T5b	21	3.61	17
		7/16 EHS	A1	18	12.48	0.21	2
	54.58	7/16 EHS	A1b	18a	12.48	7.79	62
		7/16 EHS	A1a	18b	12.48	4.06	32
		1/2 EHS	A1	35	16.14	0.51	3
	111.25	1/2 EHS	A1b	35a	16.14	8.7	54
		1/2 EHS	A1a	35b	16.14	3.88	24
		9/16 EHS	A2b	T3	21	8.04	38
	169.59	9/16 EHS	A2	T3	21	1.26	6
		9/16 EHS	A2b	T3a	21	7.95	38
		9/16 EHS	A2a	T3a	21	4.85	23
		9/16 EHS	A2	T3b	21	1.38	7
	226.27	9/16 EHS	A2a	T3b	21	5.1	24
		9/16 EHS	A2b	T4	21	9.41	45
		9/16 EHS	A2	T4	21	1.51	7
		9/16 EHS	A2a	T4a	21	5.76	27
		9/16 EHS	A2b	T4a	21	9.89	47
		9/16 EHS	A2a	T4b	21	5.51	26
		9/16 EHS	A2	T4b	21	1.61	8
		9/16 EHS	A2b	T5	21	12.26	58
		9/16 EHS	A2	T5	21	1.75	8
		9/16 EHS	A2a	T5a	21	7.12	34
	287.61	9/16 EHS	A2b	T5a	21	12.68	60
		9/16 EHS	A2a	T5b	21	6.94	33
		9/16 EHS	A2	T5b	21	1.84	9
		7/16 EHS	A1	18	12.48	2.01	16
1.2D + 1.0Di + 1.0Wi Normal	54.58	7/16 EHS	A1b	18a	12.48	2.51	20
		7/16 EHS	A1a	18b	12.48	2.49	20
		1/2 EHS	A1	35	16.14	1.92	12
	111.25	1/2 EHS	A1b	35a	16.14	2.53	16
		1/2 EHS	A1a	35b	16.14	2.52	16
		9/16 EHS	A2b	T3	21	3.83	18
	169.59	9/16 EHS	A2	T3	21	3.4	16
		9/16 EHS	A2a	T3a	21	3.81	18
		9/16 EHS	A2b	T3a	21	3.8	18
		9/16 EHS	A2	T3b	21	3.4	16
	226.27	9/16 EHS	A2a	T3b	21	3.83	18
		9/16 EHS	A2	T4	21	3.12	15
		9/16 EHS	A2b	T4	21	3.65	17
		9/16 EHS	A2a	T4a	21	3.64	17
		9/16 EHS	A2b	T4a	21	3.63	17
		9/16 EHS	A2	T4b	21	3.12	15
		9/16 EHS	A2a	T4b	21	3.66	17
	287.61	9/16 EHS	A2	T5	21	2.91	14
		9/16 EHS	A2b	T5	21	3.62	17

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Di + 1.0Wi 60°	54.58	9/16 EHS	A2b	T5a	21	3.59	17
		9/16 EHS	A2a	T5a	21	3.59	17
		9/16 EHS	A2	T5b	21	2.91	14
		9/16 EHS	A2a	T5b	21	3.63	17
		7/16 EHS	A1	18	12.48	2.18	17
		7/16 EHS	A1b	18a	12.48	2.19	18
		7/16 EHS	A1a	18b	12.48	2.63	21
		1/2 EHS	A1	35	16.14	2.13	13
	111.25	1/2 EHS	A1b	35a	16.14	2.13	13
		1/2 EHS	A1a	35b	16.14	2.69	17
		9/16 EHS	A2b	T3	21	3.52	17
		9/16 EHS	A2	T3	21	3.54	17
	169.59	9/16 EHS	A2a	T3a	21	3.92	19
		9/16 EHS	A2b	T3a	21	3.49	17
		9/16 EHS	A2a	T3b	21	3.92	19
		9/16 EHS	A2	T3b	21	3.51	17
	226.27	9/16 EHS	A2	T4	21	3.29	16
		9/16 EHS	A2b	T4	21	3.27	16
		9/16 EHS	A2a	T4a	21	3.78	18
		9/16 EHS	A2b	T4a	21	3.25	15
		9/16 EHS	A2a	T4b	21	3.79	18
		9/16 EHS	A2	T4b	21	3.27	16
		9/16 EHS	A2	T5	21	3.15	15
		9/16 EHS	A2b	T5	21	3.14	15
	287.61	9/16 EHS	A2a	T5a	21	3.81	18
		9/16 EHS	A2b	T5a	21	3.1	15
		9/16 EHS	A2a	T5b	21	3.81	18
		9/16 EHS	A2	T5b	21	3.11	15
1.2D + 1.0Di + 1.0Wi 90°	54.58	7/16 EHS	A1	18	12.48	2.34	19
		7/16 EHS	A1b	18a	12.48	2.07	17
		7/16 EHS	A1a	18b	12.48	2.6	21
		1/2 EHS	A1	35	16.14	2.33	14
	111.25	1/2 EHS	A1b	35a	16.14	1.99	12
		1/2 EHS	A1a	35b	16.14	2.65	16
		9/16 EHS	A2	T3	21	3.7	18
		9/16 EHS	A2b	T3	21	3.43	16
	169.59	9/16 EHS	A2b	T3a	21	3.41	16
		9/16 EHS	A2a	T3a	21	3.9	19
		9/16 EHS	A2a	T3b	21	3.9	19
		9/16 EHS	A2	T3b	21	3.66	17
	226.27	9/16 EHS	A2	T4	21	3.48	17
		9/16 EHS	A2b	T4	21	3.15	15
		9/16 EHS	A2a	T4a	21	3.75	18
		9/16 EHS	A2b	T4a	21	3.14	15
		9/16 EHS	A2a	T4b	21	3.75	18
		9/16 EHS	A2	T4b	21	3.46	16
		9/16 EHS	A2	T5	21	3.41	16
		9/16 EHS	A2b	T5	21	2.96	14
	287.61	9/16 EHS	A2a	T5a	21	3.76	18
		9/16 EHS	A2b	T5a	21	2.95	14
		9/16 EHS	A2a	T5b	21	3.75	18
		9/16 EHS	A2	T5b	21	3.36	16
1.2D + 1.0Di + 1.0Wi 120°	54.58	7/16 EHS	A1	18	12.48	2.51	20
		7/16 EHS	A1b	18a	12.48	2.01	16
		7/16 EHS	A1a	18b	12.48	2.49	20
	111.25	1/2 EHS	A1	35	16.14	2.54	16
		1/2 EHS	A1b	35a	16.14	1.92	12
		1/2 EHS	A1a	35b	16.14	2.52	16
	169.59	9/16 EHS	A2	T3	21	3.85	18

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Di + 1.0Wi 180°	226.27	9/16 EHS	A2b	T3	21	3.39	16
		9/16 EHS	A2a	T3a	21	3.83	18
		9/16 EHS	A2b	T3a	21	3.38	16
		9/16 EHS	A2a	T3b	21	3.81	18
		9/16 EHS	A2	T3b	21	3.82	18
		9/16 EHS	A2	T4	21	3.67	17
		9/16 EHS	A2b	T4	21	3.11	15
		9/16 EHS	A2a	T4a	21	3.66	17
		9/16 EHS	A2b	T4a	21	3.1	15
		9/16 EHS	A2	T4b	21	3.65	17
		9/16 EHS	A2a	T4b	21	3.64	17
		9/16 EHS	A2b	T5	21	2.9	14
	287.61	9/16 EHS	A2	T5	21	3.64	17
		9/16 EHS	A2b	T5a	21	2.89	14
		9/16 EHS	A2a	T5a	21	3.63	17
		9/16 EHS	A2a	T5b	21	3.59	17
	54.58	9/16 EHS	A2	T5b	21	3.6	17
		7/16 EHS	A1	18	12.48	2.65	21
		7/16 EHS	A1b	18a	12.48	2.18	18
	111.25	7/16 EHS	A1a	18b	12.48	2.17	17
		1/2 EHS	A1	35	16.14	2.71	17
		1/2 EHS	A1b	35a	16.14	2.13	13
	169.59	1/2 EHS	A1a	35b	16.14	2.12	13
		9/16 EHS	A2b	T3	21	3.5	17
		9/16 EHS	A2	T3	21	3.93	19
		9/16 EHS	A2a	T3a	21	3.52	17
		9/16 EHS	A2b	T3a	21	3.52	17
		9/16 EHS	A2a	T3b	21	3.5	17
		9/16 EHS	A2	T3b	21	3.93	19
		9/16 EHS	A2b	T4	21	3.25	15
		9/16 EHS	A2	T4	21	3.8	18
	226.27	9/16 EHS	A2b	T4a	21	3.26	16
		9/16 EHS	A2a	T4a	21	3.27	16
		9/16 EHS	A2	T4b	21	3.8	18
		9/16 EHS	A2a	T4b	21	3.26	16
	287.61	9/16 EHS	A2b	T5	21	3.1	15
		9/16 EHS	A2	T5	21	3.82	18
		9/16 EHS	A2b	T5a	21	3.13	15
		9/16 EHS	A2a	T5a	21	3.14	15
	54.58	9/16 EHS	A2	T5b	21	3.82	18
		9/16 EHS	A2a	T5b	21	3.1	15
		7/16 EHS	A1	18	12.48	2.61	21
	111.25	7/16 EHS	A1b	18a	12.48	2.34	19
		7/16 EHS	A1a	18b	12.48	2.06	16
		1/2 EHS	A1	35	16.14	2.66	17
1.2D + 1.0Di + 1.0Wi 210°	169.59	1/2 EHS	A1b	35a	16.14	2.32	14
		1/2 EHS	A1a	35b	16.14	1.97	12
		9/16 EHS	A2	T3	21	3.91	19
		9/16 EHS	A2b	T3	21	3.65	17
		9/16 EHS	A2a	T3a	21	3.42	16
		9/16 EHS	A2b	T3a	21	3.67	17
		9/16 EHS	A2	T3b	21	3.92	19
		9/16 EHS	A2a	T3b	21	3.42	16
		9/16 EHS	A2b	T4	21	3.44	16
		9/16 EHS	A2	T4	21	3.76	18
	226.27	9/16 EHS	A2a	T4a	21	3.15	15
		9/16 EHS	A2b	T4a	21	3.46	16
		9/16 EHS	A2a	T4b	21	3.15	15
		9/16 EHS	A2	T4b	21	3.77	18

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Di + 1.0Wi 240°	287.61	9/16 EHS	A2	T5	21	3.76	18
		9/16 EHS	A2b	T5	21	3.34	16
		9/16 EHS	A2a	T5a	21	2.97	14
		9/16 EHS	A2b	T5a	21	3.39	16
		9/16 EHS	A2	T5b	21	3.78	18
		9/16 EHS	A2a	T5b	21	2.95	14
	54.58	7/16 EHS	A1	18	12.48	2.51	20
		7/16 EHS	A1b	18a	12.48	2.51	20
		7/16 EHS	A1a	18b	12.48	2	16
	111.25	1/2 EHS	A1	35	16.14	2.53	16
		1/2 EHS	A1b	35a	16.14	2.53	16
		1/2 EHS	A1a	35b	16.14	1.91	12
	169.59	9/16 EHS	A2b	T3	21	3.81	18
		9/16 EHS	A2	T3	21	3.82	18
		9/16 EHS	A2a	T3a	21	3.39	16
		9/16 EHS	A2b	T3a	21	3.83	18
		9/16 EHS	A2	T3b	21	3.85	18
		9/16 EHS	A2a	T3b	21	3.39	16
	226.27	9/16 EHS	A2b	T4	21	3.64	17
		9/16 EHS	A2	T4	21	3.65	17
		9/16 EHS	A2a	T4a	21	3.11	15
		9/16 EHS	A2b	T4a	21	3.65	17
		9/16 EHS	A2a	T4b	21	3.11	15
		9/16 EHS	A2	T4b	21	3.67	17
	287.61	9/16 EHS	A2	T5	21	3.6	17
		9/16 EHS	A2b	T5	21	3.59	17
		9/16 EHS	A2a	T5a	21	2.9	14
		9/16 EHS	A2b	T5a	21	3.62	17
		9/16 EHS	A2	T5b	21	3.64	17
		9/16 EHS	A2a	T5b	21	2.9	14
	54.58	7/16 EHS	A1	18	12.48	2.18	17
		7/16 EHS	A1b	18a	12.48	2.64	21
		7/16 EHS	A1a	18b	12.48	2.17	17
	111.25	1/2 EHS	A1	35	16.14	2.13	13
		1/2 EHS	A1b	35a	16.14	2.7	17
		1/2 EHS	A1a	35b	16.14	2.12	13
	169.59	9/16 EHS	A2b	T3	21	3.91	19
		9/16 EHS	A2	T3	21	3.52	17
		9/16 EHS	A2a	T3a	21	3.5	17
		9/16 EHS	A2b	T3a	21	3.91	19
		9/16 EHS	A2	T3b	21	3.54	17
		9/16 EHS	A2a	T3b	21	3.53	17
1.2D + 1.0Di + 1.0Wi 300°	226.27	9/16 EHS	A2b	T4	21	3.77	18
		9/16 EHS	A2	T4	21	3.27	16
		9/16 EHS	A2a	T4a	21	3.26	16
		9/16 EHS	A2b	T4a	21	3.77	18
		9/16 EHS	A2	T4b	21	3.29	16
		9/16 EHS	A2a	T4b	21	3.28	16
	287.61	9/16 EHS	A2	T5	21	3.12	15
		9/16 EHS	A2b	T5	21	3.79	18
		9/16 EHS	A2a	T5a	21	3.11	15
		9/16 EHS	A2b	T5a	21	3.79	18
		9/16 EHS	A2a	T5b	21	3.15	15
		9/16 EHS	A2	T5b	21	3.16	15
	54.58	7/16 EHS	A1	18	12.48	2.07	17
		7/16 EHS	A1b	18a	12.48	2.61	21
		7/16 EHS	A1a	18b	12.48	2.32	19
	111.25	1/2 EHS	A1	35	16.14	1.99	12
		1/2 EHS	A1b	35a	16.14	2.66	16

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Ev + 1.0Eh Normal	169.59	1/2 EHS	A1a	35b	16.14	2.31	14
		9/16 EHS	A2	T3	21	3.43	16
		9/16 EHS	A2b	T3	21	3.9	19
		9/16 EHS	A2b	T3a	21	3.89	19
		9/16 EHS	A2a	T3a	21	3.65	17
		9/16 EHS	A2a	T3b	21	3.68	18
		9/16 EHS	A2	T3b	21	3.44	16
		9/16 EHS	A2	T4	21	3.16	15
	226.27	9/16 EHS	A2b	T4	21	3.75	18
		9/16 EHS	A2b	T4a	21	3.74	18
		9/16 EHS	A2a	T4a	21	3.45	16
		9/16 EHS	A2a	T4b	21	3.47	17
		9/16 EHS	A2	T4b	21	3.17	15
		9/16 EHS	A2	T5	21	2.96	14
		9/16 EHS	A2b	T5	21	3.76	18
		9/16 EHS	A2b	T5a	21	3.74	18
	287.61	9/16 EHS	A2a	T5a	21	3.35	16
		9/16 EHS	A2a	T5b	21	3.39	16
		9/16 EHS	A2	T5b	21	2.98	14
		7/16 EHS	A1	18	12.48	1.83	15
	54.58	7/16 EHS	A1b	18a	12.48	1.88	15
		7/16 EHS	A1a	18b	12.48	1.87	15
		1/2 EHS	A1	35	16.14	1.92	12
	111.25	1/2 EHS	A1b	35a	16.14	2	12
		1/2 EHS	A1a	35b	16.14	1.99	12
	169.59	9/16 EHS	A2b	T3	21	3	14
		9/16 EHS	A2	T3	21	2.94	14
		9/16 EHS	A2a	T3a	21	3	14
		9/16 EHS	A2b	T3a	21	3	14
		9/16 EHS	A2a	T3b	21	3.01	14
		9/16 EHS	A2	T3b	21	2.94	14
		9/16 EHS	A2	T4	21	2.78	13
		9/16 EHS	A2b	T4	21	2.9	14
	226.27	9/16 EHS	A2a	T4a	21	2.91	14
		9/16 EHS	A2b	T4a	21	2.9	14
		9/16 EHS	A2a	T4b	21	2.9	14
		9/16 EHS	A2	T4b	21	2.78	13
		9/16 EHS	A2	T5	21	2.64	13
		9/16 EHS	A2b	T5	21	2.9	14
		9/16 EHS	A2a	T5a	21	2.91	14
		9/16 EHS	A2b	T5a	21	2.91	14
	287.61	9/16 EHS	A2a	T5b	21	2.9	14
		9/16 EHS	A2	T5b	21	2.64	13
		7/16 EHS	A1	18	12.48	1.84	15
	54.58	7/16 EHS	A1b	18a	12.48	1.85	15
		7/16 EHS	A1a	18b	12.48	1.88	15
		1/2 EHS	A1	35	16.14	1.95	12
	111.25	1/2 EHS	A1b	35a	16.14	1.94	12
		1/2 EHS	A1a	35b	16.14	2.02	13
	169.59	9/16 EHS	A2	T3	21	2.97	14
		9/16 EHS	A2b	T3	21	2.95	14
		9/16 EHS	A2a	T3a	21	3.03	14
		9/16 EHS	A2b	T3a	21	2.95	14
		9/16 EHS	A2a	T3b	21	3.03	14
		9/16 EHS	A2	T3b	21	2.97	14
		9/16 EHS	A2b	T4	21	2.8	13
		9/16 EHS	A2	T4	21	2.82	13
1.2D + 1.0Ev + 1.0Eh 60°	226.27	9/16 EHS	A2b	T4a	21	2.81	13
		9/16 EHS	A2a	T4a	21	2.95	14
		9/16 EHS	A2a	T4a	21	2.95	14

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Ev + 1.0Eh 90°	287.61	9/16 EHS	A2	T4b	21	2.83	13
		9/16 EHS	A2a	T4b	21	2.95	14
		9/16 EHS	A2b	T5	21	2.71	13
		9/16 EHS	A2	T5	21	2.73	13
		9/16 EHS	A2b	T5a	21	2.72	13
		9/16 EHS	A2a	T5a	21	3	14
		9/16 EHS	A2a	T5b	21	3	14
		9/16 EHS	A2	T5b	21	2.73	13
	54.58	7/16 EHS	A1	18	12.48	1.86	15
		7/16 EHS	A1b	18a	12.48	1.83	15
		7/16 EHS	A1a	18b	12.48	1.88	15
	111.25	1/2 EHS	A1	35	16.14	1.98	12
		1/2 EHS	A1b	35a	16.14	1.92	12
		1/2 EHS	A1a	35b	16.14	2.01	12
	169.59	9/16 EHS	A2	T3	21	2.99	14
		9/16 EHS	A2b	T3	21	2.93	14
		9/16 EHS	A2b	T3a	21	2.93	14
		9/16 EHS	A2a	T3a	21	3.02	14
		9/16 EHS	A2	T3b	21	2.99	14
	226.27	9/16 EHS	A2a	T3b	21	3.03	14
		9/16 EHS	A2	T4	21	2.86	14
		9/16 EHS	A2b	T4	21	2.77	13
		9/16 EHS	A2b	T4a	21	2.77	13
		9/16 EHS	A2a	T4a	21	2.93	14
		9/16 EHS	A2	T4b	21	2.87	14
		9/16 EHS	A2a	T4b	21	2.94	14
		9/16 EHS	A2	T5	21	2.82	13
	287.61	9/16 EHS	A2b	T5	21	2.65	13
		9/16 EHS	A2b	T5a	21	2.65	13
		9/16 EHS	A2a	T5a	21	2.97	14
		9/16 EHS	A2	T5b	21	2.83	13
		9/16 EHS	A2a	T5b	21	2.98	14
	54.58	7/16 EHS	A1	18	12.48	1.88	15
		7/16 EHS	A1b	18a	12.48	1.83	15
		7/16 EHS	A1a	18b	12.48	1.87	15
	111.25	1/2 EHS	A1	35	16.14	2.01	12
		1/2 EHS	A1b	35a	16.14	1.91	12
		1/2 EHS	A1a	35b	16.14	1.99	12
	169.59	9/16 EHS	A2b	T3	21	2.93	14
		9/16 EHS	A2	T3	21	3.02	14
		9/16 EHS	A2b	T3a	21	2.92	14
		9/16 EHS	A2a	T3a	21	3	14
		9/16 EHS	A2	T3b	21	3.02	14
1.2D + 1.0Ev + 1.0Eh 120°	226.27	9/16 EHS	A2a	T3b	21	3.01	14
		9/16 EHS	A2	T4	21	2.91	14
		9/16 EHS	A2b	T4	21	2.76	13
		9/16 EHS	A2b	T4a	21	2.76	13
		9/16 EHS	A2a	T4a	21	2.9	14
		9/16 EHS	A2a	T4b	21	2.91	14
		9/16 EHS	A2	T4b	21	2.92	14
		9/16 EHS	A2	T5	21	2.91	14
	287.61	9/16 EHS	A2b	T5	21	2.63	13
		9/16 EHS	A2b	T5a	21	2.62	12
		9/16 EHS	A2a	T5a	21	2.9	14
		9/16 EHS	A2a	T5b	21	2.91	14
		9/16 EHS	A2	T5b	21	2.92	14
	54.58	7/16 EHS	A1	18	12.48	1.89	15
		7/16 EHS	A1b	18a	12.48	1.85	15
		7/16 EHS	A1a	18b	12.48	1.83	15
1.2D + 1.0Ev + 1.0Eh 180°	54.58	7/16 EHS	A1b	18a	12.48	1.85	15
		7/16 EHS	A1a	18b	12.48	1.83	15
		7/16 EHS	A1a	18b	12.48	1.83	15

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Ev + 1.0Eh 210°	111.25	1/2 EHS	A1	35	16.14	2.04	13
		1/2 EHS	A1b	35a	16.14	1.94	12
		1/2 EHS	A1a	35b	16.14	1.93	12
		9/16 EHS	A2b	T3	21	2.95	14
	169.59	9/16 EHS	A2	T3	21	3.04	14
		9/16 EHS	A2a	T3a	21	2.95	14
		9/16 EHS	A2b	T3a	21	2.95	14
		9/16 EHS	A2a	T3b	21	2.96	14
		9/16 EHS	A2	T3b	21	3.04	14
		9/16 EHS	A2	T4	21	2.96	14
		9/16 EHS	A2b	T4	21	2.81	13
		9/16 EHS	A2a	T4a	21	2.81	13
	226.27	9/16 EHS	A2b	T4a	21	2.8	13
		9/16 EHS	A2a	T4b	21	2.82	13
		9/16 EHS	A2	T4b	21	2.96	14
		9/16 EHS	A2	T5	21	3.01	14
		9/16 EHS	A2b	T5	21	2.72	13
		9/16 EHS	A2a	T5a	21	2.71	13
		9/16 EHS	A2b	T5a	21	2.71	13
		9/16 EHS	A2	T5b	21	3.01	14
	287.61	9/16 EHS	A2a	T5b	21	2.73	13
		7/16 EHS	A1	18	12.48	1.89	15
		7/16 EHS	A1b	18a	12.48	1.86	15
		7/16 EHS	A1a	18b	12.48	1.82	15
	111.25	1/2 EHS	A1	35	16.14	2.03	13
		1/2 EHS	A1b	35a	16.14	1.97	12
		1/2 EHS	A1a	35b	16.14	1.91	12
		9/16 EHS	A2	T3	21	3.04	14
	169.59	9/16 EHS	A2b	T3	21	2.98	14
		9/16 EHS	A2a	T3a	21	2.93	14
		9/16 EHS	A2b	T3a	21	2.97	14
		9/16 EHS	A2a	T3b	21	2.94	14
		9/16 EHS	A2	T3b	21	3.04	14
		9/16 EHS	A2b	T4	21	2.86	14
		9/16 EHS	A2	T4	21	2.95	14
		9/16 EHS	A2a	T4a	21	2.77	13
1.2D + 1.0Ev + 1.0Eh 240°	226.27	9/16 EHS	A2b	T4a	21	2.84	14
		9/16 EHS	A2a	T4b	21	2.78	13
		9/16 EHS	A2	T4b	21	2.95	14
		9/16 EHS	A2	T5	21	2.99	14
	287.61	9/16 EHS	A2b	T5	21	2.82	13
		9/16 EHS	A2a	T5a	21	2.65	13
		9/16 EHS	A2b	T5a	21	2.8	13
		9/16 EHS	A2a	T5b	21	2.66	13
		9/16 EHS	A2	T5b	21	2.98	14
		7/16 EHS	A1	18	12.48	1.88	15
		7/16 EHS	A1b	18a	12.48	1.88	15
		7/16 EHS	A1a	18b	12.48	1.82	15
	111.25	1/2 EHS	A1	35	16.14	2.01	12
		1/2 EHS	A1b	35a	16.14	2	12
		1/2 EHS	A1a	35b	16.14	1.9	12
		9/16 EHS	A2	T3	21	3.02	14
	169.59	9/16 EHS	A2b	T3	21	3	14
		9/16 EHS	A2a	T3a	21	2.93	14
		9/16 EHS	A2b	T3a	21	3	14
		9/16 EHS	A2	T3b	21	3.02	14
		9/16 EHS	A2a	T3b	21	2.93	14
		9/16 EHS	A2	T4	21	2.92	14
		9/16 EHS	A2b	T4	21	2.9	14

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0Ev + 1.0Eh 300°	287.61	9/16 EHS	A2a	T4a	21	2.76	13
		9/16 EHS	A2b	T4a	21	2.89	14
		9/16 EHS	A2a	T4b	21	2.77	13
		9/16 EHS	A2	T4b	21	2.91	14
		9/16 EHS	A2	T5	21	2.92	14
		9/16 EHS	A2b	T5	21	2.91	14
		9/16 EHS	A2b	T5a	21	2.9	14
		9/16 EHS	A2a	T5a	21	2.63	13
		9/16 EHS	A2a	T5b	21	2.63	13
		9/16 EHS	A2	T5b	21	2.91	14
	54.58	7/16 EHS	A1	18	12.48	1.84	15
		7/16 EHS	A1b	18a	12.48	1.9	15
		7/16 EHS	A1a	18b	12.48	1.83	15
	111.25	1/2 EHS	A1	35	16.14	1.95	12
		1/2 EHS	A1b	35a	16.14	2.03	13
		1/2 EHS	A1a	35b	16.14	1.93	12
	169.59	9/16 EHS	A2	T3	21	2.97	14
		9/16 EHS	A2b	T3	21	3.03	14
		9/16 EHS	A2b	T3a	21	3.03	14
		9/16 EHS	A2a	T3a	21	2.95	14
		9/16 EHS	A2a	T3b	21	2.96	14
		9/16 EHS	A2	T3b	21	2.97	14
		9/16 EHS	A2	T4	21	2.83	13
		9/16 EHS	A2b	T4	21	2.95	14
		9/16 EHS	A2b	T4a	21	2.94	14
		9/16 EHS	A2a	T4a	21	2.81	13
	226.27	9/16 EHS	A2	T4b	21	2.82	13
		9/16 EHS	A2a	T4b	21	2.81	13
		9/16 EHS	A2b	T5	21	3	14
		9/16 EHS	A2	T5	21	2.74	13
		9/16 EHS	A2b	T5a	21	3	14
		9/16 EHS	A2a	T5a	21	2.73	13
		9/16 EHS	A2	T5b	21	2.73	13
		9/16 EHS	A2a	T5b	21	2.72	13
		7/16 EHS	A1	18	12.48	1.83	15
		7/16 EHS	A1b	18a	12.48	1.89	15
	54.58	7/16 EHS	A1a	18b	12.48	1.85	15
		1/2 EHS	A1	35	16.14	1.93	12
		1/2 EHS	A1b	35a	16.14	2.02	13
	111.25	1/2 EHS	A1a	35b	16.14	1.96	12
		9/16 EHS	A2b	T3	21	3.02	14
		9/16 EHS	A2	T3	21	2.95	14
	169.59	9/16 EHS	A2b	T3a	21	3.02	14
		9/16 EHS	A2a	T3a	21	2.98	14
		9/16 EHS	A2a	T3b	21	2.98	14
		9/16 EHS	A2	T3b	21	2.95	14
		9/16 EHS	A2	T4	21	2.79	13
1.2D + 1.0Ev + 1.0Eh 330°	226.27	9/16 EHS	A2b	T4	21	2.93	14
		9/16 EHS	A2b	T4a	21	2.93	14
		9/16 EHS	A2a	T4a	21	2.86	14
		9/16 EHS	A2a	T4b	21	2.86	14
		9/16 EHS	A2	T4b	21	2.79	13
		9/16 EHS	A2	T5	21	2.67	13
		9/16 EHS	A2b	T5	21	2.97	14
		9/16 EHS	A2b	T5a	21	2.98	14
		9/16 EHS	A2a	T5a	21	2.82	13
		9/16 EHS	A2	T5b	21	2.66	13
	287.61	9/16 EHS	A2a	T5b	21	2.81	13
		1.0D + 1.0W Service Normal	54.58	7/16 EHS	A1	18	12.48

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.0D + 1.0W Service 60°	111.25	7/16 EHS	A1b	18a	12.48	2.57	21
		7/16 EHS	A1a	18b	12.48	2.55	20
		1/2 EHS	A1	35	16.14	0.61	4
		1/2 EHS	A1b	35a	16.14	2.84	18
		1/2 EHS	A1a	35b	16.14	2.82	17
		9/16 EHS	A2	T3	21	2.1	10
	169.59	9/16 EHS	A2b	T3	21	3.69	18
		9/16 EHS	A2a	T3a	21	3.62	17
		9/16 EHS	A2b	T3a	21	3.62	17
		9/16 EHS	A2	T3b	21	2.1	10
		9/16 EHS	A2a	T3b	21	3.69	18
		9/16 EHS	A2	T4	21	1.76	8
	226.27	9/16 EHS	A2b	T4	21	3.68	18
		9/16 EHS	A2a	T4a	21	3.67	17
		9/16 EHS	A2b	T4a	21	3.66	17
		9/16 EHS	A2a	T4b	21	3.69	18
		9/16 EHS	A2	T4b	21	1.76	8
		9/16 EHS	A2	T5	21	1.31	6
	287.61	9/16 EHS	A2b	T5	21	3.89	19
		9/16 EHS	A2b	T5a	21	3.81	18
		9/16 EHS	A2a	T5a	21	3.82	18
		9/16 EHS	A2a	T5b	21	3.9	19
		9/16 EHS	A2	T5b	21	1.31	6
	54.58	7/16 EHS	A1	18	12.48	1.37	11
		7/16 EHS	A1b	18a	12.48	1.37	11
		7/16 EHS	A1a	18b	12.48	2.98	24
	111.25	1/2 EHS	A1	35	16.14	1.44	9
		1/2 EHS	A1b	35a	16.14	1.44	9
		1/2 EHS	A1a	35b	16.14	3.41	21
	169.59	9/16 EHS	A2b	T3	21	2.69	13
		9/16 EHS	A2	T3	21	2.71	13
		9/16 EHS	A2a	T3a	21	4.05	19
		9/16 EHS	A2b	T3a	21	2.62	12
		9/16 EHS	A2a	T3b	21	4.04	19
		9/16 EHS	A2	T3b	21	2.64	13
	226.27	9/16 EHS	A2	T4	21	2.54	12
		9/16 EHS	A2b	T4	21	2.52	12
		9/16 EHS	A2a	T4a	21	4.3	20
		9/16 EHS	A2b	T4a	21	2.49	12
		9/16 EHS	A2a	T4b	21	4.31	21
		9/16 EHS	A2	T4b	21	2.51	12
	287.61	9/16 EHS	A2	T5	21	2.49	12
		9/16 EHS	A2b	T5	21	2.48	12
		9/16 EHS	A2a	T5a	21	4.85	23
		9/16 EHS	A2b	T5a	21	2.4	11
		9/16 EHS	A2a	T5b	21	4.84	23
		9/16 EHS	A2	T5b	21	2.41	11
	54.58	7/16 EHS	A1	18	12.48	1.93	15
		7/16 EHS	A1b	18a	12.48	0.95	8
		7/16 EHS	A1a	18b	12.48	2.88	23
	111.25	1/2 EHS	A1	35	16.14	2.07	13
		1/2 EHS	A1b	35a	16.14	0.92	6
		1/2 EHS	A1a	35b	16.14	3.26	20
1.0D + 1.0W Service 90°	169.59	9/16 EHS	A2	T3	21	3.19	15
		9/16 EHS	A2b	T3	21	2.3	11
		9/16 EHS	A2a	T3a	21	3.96	19
		9/16 EHS	A2b	T3a	21	2.27	11
		9/16 EHS	A2a	T3b	21	3.94	19
		9/16 EHS	A2	T3b	21	3.1	15

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.0D + 1.0W Service 120°	226.27	9/16 EHS	A2	T4	21	3.1	15
		9/16 EHS	A2b	T4	21	2.01	10
		9/16 EHS	A2b	T4a	21	1.99	9
		9/16 EHS	A2a	T4a	21	4.13	20
		9/16 EHS	A2a	T4b	21	4.14	20
		9/16 EHS	A2	T4b	21	3.06	15
	287.61	9/16 EHS	A2	T5	21	3.2	15
		9/16 EHS	A2b	T5	21	1.76	8
		9/16 EHS	A2a	T5a	21	4.57	22
		9/16 EHS	A2b	T5a	21	1.69	8
		9/16 EHS	A2	T5b	21	3.11	15
		9/16 EHS	A2a	T5b	21	4.56	22
	54.58	7/16 EHS	A1	18	12.48	2.58	21
		7/16 EHS	A1b	18a	12.48	0.74	6
		7/16 EHS	A1a	18b	12.48	2.56	21
	111.25	1/2 EHS	A1	35	16.14	2.85	18
		1/2 EHS	A1b	35a	16.14	0.61	4
		1/2 EHS	A1a	35b	16.14	2.83	18
	169.59	9/16 EHS	A2b	T3	21	2.09	10
		9/16 EHS	A2	T3	21	3.71	18
		9/16 EHS	A2a	T3a	21	3.69	18
		9/16 EHS	A2b	T3a	21	2.08	10
		9/16 EHS	A2	T3b	21	3.64	17
		9/16 EHS	A2a	T3b	21	3.62	17
	226.27	9/16 EHS	A2	T4	21	3.71	18
		9/16 EHS	A2b	T4	21	1.74	8
		9/16 EHS	A2b	T4a	21	1.74	8
		9/16 EHS	A2a	T4a	21	3.69	18
		9/16 EHS	A2	T4b	21	3.68	18
		9/16 EHS	A2a	T4b	21	3.67	17
	287.61	9/16 EHS	A2b	T5	21	1.29	6
		9/16 EHS	A2	T5	21	3.92	19
		9/16 EHS	A2b	T5a	21	1.28	6
		9/16 EHS	A2a	T5a	21	3.9	19
		9/16 EHS	A2a	T5b	21	3.82	18
		9/16 EHS	A2	T5b	21	3.82	18
	54.58	7/16 EHS	A1	18	12.48	3	24
		7/16 EHS	A1b	18a	12.48	1.37	11
		7/16 EHS	A1a	18b	12.48	1.36	11
	111.25	1/2 EHS	A1	35	16.14	3.42	21
		1/2 EHS	A1b	35a	16.14	1.43	9
		1/2 EHS	A1a	35b	16.14	1.42	9
1.0D + 1.0W Service 180°	169.59	9/16 EHS	A2b	T3	21	2.62	12
		9/16 EHS	A2	T3	21	4.06	19
		9/16 EHS	A2a	T3a	21	2.69	13
		9/16 EHS	A2b	T3a	21	2.68	13
		9/16 EHS	A2a	T3b	21	2.63	13
		9/16 EHS	A2	T3b	21	4.06	19
	226.27	9/16 EHS	A2b	T4	21	2.49	12
		9/16 EHS	A2	T4	21	4.32	21
		9/16 EHS	A2a	T4a	21	2.52	12
		9/16 EHS	A2b	T4a	21	2.51	12
		9/16 EHS	A2	T4b	21	4.32	21
		9/16 EHS	A2a	T4b	21	2.5	12
	287.61	9/16 EHS	A2	T5	21	4.86	23
		9/16 EHS	A2b	T5	21	2.4	11
		9/16 EHS	A2a	T5a	21	2.47	12
		9/16 EHS	A2b	T5a	21	2.47	12
		9/16 EHS	A2a	T5b	21	2.4	11

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.0D + 1.0W Service 210°	54.58	9/16 EHS	A2	T5b	21	4.86	23
		7/16 EHS	A1	18	12.48	2.89	23
		7/16 EHS	A1b	18a	12.48	1.93	15
		7/16 EHS	A1a	18b	12.48	0.94	8
	111.25	1/2 EHS	A1	35	16.14	3.27	20
		1/2 EHS	A1b	35a	16.14	2.06	13
		1/2 EHS	A1a	35b	16.14	0.9	6
		9/16 EHS	A2	T3	21	3.95	19
	169.59	9/16 EHS	A2b	T3	21	3.08	15
		9/16 EHS	A2b	T3a	21	3.16	15
		9/16 EHS	A2a	T3a	21	2.29	11
		9/16 EHS	A2a	T3b	21	2.28	11
	226.27	9/16 EHS	A2	T3b	21	3.98	19
		9/16 EHS	A2	T4	21	4.15	20
		9/16 EHS	A2b	T4	21	3.05	15
		9/16 EHS	A2b	T4a	21	3.07	15
	287.61	9/16 EHS	A2a	T4a	21	2.01	10
		9/16 EHS	A2	T4b	21	4.14	20
		9/16 EHS	A2a	T4b	21	2.01	10
		9/16 EHS	A2b	T5	21	3.1	15
	54.58	9/16 EHS	A2	T5	21	4.56	22
		9/16 EHS	A2b	T5a	21	3.18	15
		9/16 EHS	A2a	T5a	21	1.76	8
		9/16 EHS	A2	T5b	21	4.58	22
1.0D + 1.0W Service 240°	54.58	9/16 EHS	A2a	T5b	21	1.7	8
		7/16 EHS	A1	18	12.48	2.57	21
		7/16 EHS	A1b	18a	12.48	2.58	21
		7/16 EHS	A1a	18b	12.48	0.73	6
	111.25	1/2 EHS	A1	35	16.14	2.85	18
		1/2 EHS	A1b	35a	16.14	2.84	18
		1/2 EHS	A1a	35b	16.14	0.6	4
	169.59	9/16 EHS	A2b	T3	21	3.62	17
		9/16 EHS	A2	T3	21	3.64	17
		9/16 EHS	A2a	T3a	21	2.08	10
		9/16 EHS	A2b	T3a	21	3.68	18
	226.27	9/16 EHS	A2a	T3b	21	2.09	10
		9/16 EHS	A2	T3b	21	3.71	18
		9/16 EHS	A2b	T4	21	3.66	17
		9/16 EHS	A2	T4	21	3.68	18
	287.61	9/16 EHS	A2b	T4a	21	3.68	18
		9/16 EHS	A2a	T4a	21	1.74	8
		9/16 EHS	A2a	T4b	21	1.75	8
		9/16 EHS	A2	T4b	21	3.71	18
1.0D + 1.0W Service 300°	111.25	9/16 EHS	A2	T5	21	3.83	18
		9/16 EHS	A2b	T5	21	3.81	18
		9/16 EHS	A2a	T5a	21	1.29	6
		9/16 EHS	A2b	T5a	21	3.89	19
	169.59	9/16 EHS	A2	T5b	21	3.92	19
		9/16 EHS	A2a	T5b	21	1.29	6
		7/16 EHS	A1	18	12.48	1.36	11
		7/16 EHS	A1b	18a	12.48	3	24
	54.58	7/16 EHS	A1a	18b	12.48	1.35	11
		1/2 EHS	A1	35	16.14	1.43	9
		1/2 EHS	A1b	35a	16.14	3.41	21
		1/2 EHS	A1a	35b	16.14	1.42	9
	169.59	9/16 EHS	A2b	T3	21	4.04	19
		9/16 EHS	A2	T3	21	2.64	13
		9/16 EHS	A2a	T3a	21	2.62	12
		9/16 EHS	A2b	T3a	21	4.04	19

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED CABLE FORCES							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.0D + 1.0W Service 330°	226.27	9/16 EHS	A2a	T3b	21	2.7	13
		9/16 EHS	A2	T3b	21	2.71	13
		9/16 EHS	A2	T4	21	2.51	12
		9/16 EHS	A2b	T4	21	4.3	20
		9/16 EHS	A2a	T4a	21	2.5	12
		9/16 EHS	A2b	T4a	21	4.3	20
		9/16 EHS	A2a	T4b	21	2.53	12
		9/16 EHS	A2	T4b	21	2.54	12
		9/16 EHS	A2b	T5	21	4.84	23
		9/16 EHS	A2	T5	21	2.42	12
		9/16 EHS	A2a	T5a	21	2.41	11
		9/16 EHS	A2b	T5a	21	4.84	23
	287.61	9/16 EHS	A2a	T5b	21	2.48	12
		9/16 EHS	A2	T5b	21	2.49	12
		7/16 EHS	A1	18	12.48	0.94	8
		7/16 EHS	A1b	18a	12.48	2.89	23
		7/16 EHS	A1a	18b	12.48	1.91	15
		1/2 EHS	A1	35	16.14	0.91	6
	111.25	1/2 EHS	A1b	35a	16.14	3.26	20
		1/2 EHS	A1a	35b	16.14	2.05	13
		9/16 EHS	A2	T3	21	2.29	11
	169.59	9/16 EHS	A2b	T3	21	3.96	19
		9/16 EHS	A2b	T3a	21	3.94	19
		9/16 EHS	A2a	T3a	21	3.09	15
		9/16 EHS	A2a	T3b	21	3.18	15
		9/16 EHS	A2	T3b	21	2.31	11
		9/16 EHS	A2	T4	21	2.01	10
	226.27	9/16 EHS	A2b	T4	21	4.12	20
		9/16 EHS	A2b	T4a	21	4.14	20
		9/16 EHS	A2a	T4a	21	3.06	15
		9/16 EHS	A2a	T4b	21	3.09	15
		9/16 EHS	A2	T4b	21	2.02	10
		9/16 EHS	A2	T5	21	1.71	8
	287.61	9/16 EHS	A2b	T5	21	4.56	22
		9/16 EHS	A2b	T5a	21	4.56	22
		9/16 EHS	A2a	T5a	21	3.11	15
		9/16 EHS	A2a	T5b	21	3.19	15
		9/16 EHS	A2	T5b	21	1.77	8

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

MAXIMUM CABLE FORCES SUMMARY							
Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allowable Tension (kip)	Applied Tension (kip)	Use (%)
1.2D + 1.0W 90°	54.58	7/16 EHS	A1a	18b	12.48	7.72	62
1.2D + 1.0W 60°	111.25	1/2 EHS	A1a	35b	16.14	8.74	54
1.2D + 1.0W 60°	169.59	9/16 EHS	A2a	T3a	21.00	8.43	40
1.2D + 1.0W 60°	226.27	9/16 EHS	A2a	T4a	21.00	10.14	48
1.2D + 1.0W 60°	287.61	9/16 EHS	A2a	T5a	21.00	12.78	61

MAXIMUM TORQUE ARM STRESS SUMMARY					
Load Case	Elevation (ft)	Member	Type	Compression (%)	Tension (%)
1.2D + 1.0W 120°	55.20	3X2X0.3125	Horiz	0	37
1.2D + 1.0W 120°	111.20	2X2X0.1875	Horiz	0	9
1.2D + 1.0W 210°	170.00	3.5x3.5x0.25	Lower Kicker	26	0
1.2D + 1.0W 90°	170.00	3.5x3.5x0.25	Torque Arm	0	19
1.2D + 1.0W 210°	226.00	3.5x3.5x0.25	Torque Arm	0	27
1.2D + 1.0W 210°	226.00	3.5x3.5x0.25	Lower Kicker	41	0
1.2D + 1.0W 210°	287.80	3.5x3.5x0.25	Lower Kicker	53	0
1.2D + 1.0W 120°	287.80	3.5x3.5x0.25	Torque Arm	0	39

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

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	169.59	0.0731	0.0075	0.0538	0.054
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	226.27	0.1083	0.0168	0.0715	0.0715
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	287.61	0.1938	0.0324	0.0824	0.0885
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	292.61	0.1981	0.0285	0.0787	0.0791
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	169.59	0.0828	-0.0045	0.0502	0.0502
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	226.27	0.1304	-0.0078	0.0866	0.0869
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	287.61	0.2357	0.0148	0.1010	0.1021
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	292.61	0.2415	0.0101	0.0985	0.0988
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	169.59	0.0733	-0.0052	0.0578	0.058
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	226.27	0.0876	-0.0050	0.0417	0.0417
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	287.61	0.1311	-0.0076	0.0389	0.0396
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	292.61	0.1278	-0.0052	0.0555	0.0556
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	169.59	0.076	0.0076	0.0547	0.0548
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	226.27	0.1119	0.0120	0.0710	0.0718
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	287.61	0.197	0.0205	0.0775	0.0782
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	292.61	0.2003	0.0198	0.0823	0.0834
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	169.59	0.0854	-0.0023	0.0465	0.0465
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	226.27	0.1344	-0.0045	0.0879	0.088
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	287.61	0.2404	-0.0053	0.0978	0.0978
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	292.61	0.2456	-0.0035	0.0998	0.0999
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	169.59	0.0738	0.0052	0.0569	0.0571
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	226.27	0.0883	0.0050	0.0415	0.0415
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	287.61	0.1316	0.0075	0.0392	0.04
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	292.61	0.1283	0.0052	0.0560	0.0561
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	169.59	0.0747	0.0125	0.0538	0.0552
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	226.27	0.1106	0.0160	0.0703	0.0721
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	287.61	0.1958	0.0254	0.0781	0.0783
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	292.61	0.1998	0.0240	0.0815	0.085
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	169.59	0.0833	0.0046	0.0520	0.052
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	226.27	0.1317	0.0078	0.0867	0.0871
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	287.61	0.2372	-0.0146	0.1007	0.1018
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	292.61	0.243	-0.0100	0.0981	0.0984
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	169.59	0.0701	0.0017	0.0581	0.0581
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	226.27	0.0836	0.0083	0.0394	0.0403
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	287.61	0.1275	0.0123	0.0431	0.0448
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	292.61	0.1246	0.0090	0.0461	0.0469
1.2D + 1.0Ev + 1.0Eh 330° Seismic	169.59	0.0069	-0.0020	0.0409	0.041
1.2D + 1.0Ev + 1.0Eh 330° Seismic	226.27	0.0141	-0.0019	0.0132	0.0134
1.2D + 1.0Ev + 1.0Eh 330° Seismic	287.61	0.0334	0.0075	0.0447	0.0454
1.2D + 1.0Ev + 1.0Eh 330° Seismic	292.61	0.0321	0.0053	0.0561	0.0561
1.2D + 1.0Ev + 1.0Eh 300° Seismic	169.59	0.0076	-0.0021	0.0413	0.0414
1.2D + 1.0Ev + 1.0Eh 300° Seismic	226.27	0.0144	-0.0018	0.0144	0.0145
1.2D + 1.0Ev + 1.0Eh 300° Seismic	287.61	0.0326	0.0074	0.0472	0.0478
1.2D + 1.0Ev + 1.0Eh 300° Seismic	292.61	0.032	0.0052	0.0602	0.0604
1.2D + 1.0Ev + 1.0Eh 240° Seismic	169.59	0.0095	-0.0021	0.0402	0.0402
1.2D + 1.0Ev + 1.0Eh 240° Seismic	226.27	0.0176	-0.0013	0.0155	0.0156
1.2D + 1.0Ev + 1.0Eh 240° Seismic	287.61	0.0368	0.0069	0.0415	0.0421
1.2D + 1.0Ev + 1.0Eh 240° Seismic	292.61	0.0342	0.0048	0.0674	0.0675
1.2D + 1.0Ev + 1.0Eh 210° Seismic	169.59	0.0095	-0.0021	0.0391	0.0391
1.2D + 1.0Ev + 1.0Eh 210° Seismic	226.27	0.0175	-0.0010	0.0151	0.0151
1.2D + 1.0Ev + 1.0Eh 210° Seismic	287.61	0.0365	0.0067	0.0448	0.0448
1.2D + 1.0Ev + 1.0Eh 210° Seismic	292.61	0.0345	0.0046	0.0646	0.0648
1.2D + 1.0Ev + 1.0Eh 180° Seismic	169.59	0.009	0.0020	0.0394	0.0394
1.2D + 1.0Ev + 1.0Eh 180° Seismic	226.27	0.0166	-0.0009	0.0141	0.0141
1.2D + 1.0Ev + 1.0Eh 180° Seismic	287.61	0.0349	0.0065	0.0465	0.0465
1.2D + 1.0Ev + 1.0Eh 180° Seismic	292.61	0.0345	0.0045	0.0579	0.0581
1.2D + 1.0Ev + 1.0Eh 120° Seismic	169.59	0.01	0.0021	0.0411	0.0411
1.2D + 1.0Ev + 1.0Eh 120° Seismic	226.27	0.0184	0.0013	0.0154	0.0154
1.2D + 1.0Ev + 1.0Eh 120° Seismic	287.61	0.0374	-0.0069	0.0412	0.0417

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh 120° Seismic	292.61	0.0348	-0.0048	0.0670	0.0671
1.2D + 1.0Ev + 1.0Eh 90° Seismic	169.59	0.0094	0.0021	0.0420	0.042
1.2D + 1.0Ev + 1.0Eh 90° Seismic	226.27	0.0174	0.0015	0.0151	0.0152
1.2D + 1.0Ev + 1.0Eh 90° Seismic	287.61	0.036	-0.0072	0.0457	0.0463
1.2D + 1.0Ev + 1.0Eh 90° Seismic	292.61	0.0338	-0.0050	0.0653	0.0655
1.2D + 1.0Ev + 1.0Eh 60° Seismic	169.59	0.0081	0.0021	0.0422	0.0423
1.2D + 1.0Ev + 1.0Eh 60° Seismic	226.27	0.0153	0.0018	0.0143	0.0144
1.2D + 1.0Ev + 1.0Eh 60° Seismic	287.61	0.0334	-0.0074	0.0469	0.0475
1.2D + 1.0Ev + 1.0Eh 60° Seismic	292.61	0.0327	-0.0052	0.0598	0.06
1.2D + 1.0Ev + 1.0Eh Normal Seismic	169.59	0.0073	-0.0020	0.0408	0.0408
1.2D + 1.0Ev + 1.0Eh Normal Seismic	226.27	0.0147	-0.0019	0.0117	0.0118
1.2D + 1.0Ev + 1.0Eh Normal Seismic	287.61	0.0343	0.0074	0.0388	0.0395
1.2D + 1.0Ev + 1.0Eh Normal Seismic	292.61	0.0325	0.0053	0.0583	0.0583
1.2D + 1.0Di + 1.0Wi 330° 29.24 mph Wind with 0.212" Radial Ice	169.59	0.0179	0.0036	0.0498	0.0498
1.2D + 1.0Di + 1.0Wi 330° 29.24 mph Wind with 0.212" Radial Ice	226.27	0.0216	0.0047	0.0119	0.0123
1.2D + 1.0Di + 1.0Wi 330° 29.24 mph Wind with 0.212" Radial Ice	287.61	0.0314	0.0125	0.0353	0.0375
1.2D + 1.0Di + 1.0Wi 330° 29.24 mph Wind with 0.212" Radial Ice	292.61	0.0292	0.0094	0.0571	0.0574
1.2D + 1.0Di + 1.0Wi 300° 29.24 mph Wind with 0.212" Radial Ice	169.59	0.0194	-0.0035	0.0489	0.049
1.2D + 1.0Di + 1.0Wi 300° 29.24 mph Wind with 0.212" Radial Ice	226.27	0.025	-0.0040	0.0142	0.0147
1.2D + 1.0Di + 1.0Wi 300° 29.24 mph Wind with 0.212" Radial Ice	287.61	0.0379	0.0108	0.0344	0.0361
1.2D + 1.0Di + 1.0Wi 300° 29.24 mph Wind with 0.212" Radial Ice	292.61	0.036	0.0075	0.0530	0.0535
1.2D + 1.0Di + 1.0Wi 240° 29.24 mph Wind with 0.212" Radial Ice	169.59	0.0212	-0.0038	0.0535	0.0536
1.2D + 1.0Di + 1.0Wi 240° 29.24 mph Wind with 0.212" Radial Ice	226.27	0.0238	-0.0024	0.0096	0.0099
1.2D + 1.0Di + 1.0Wi 240° 29.24 mph Wind with 0.212" Radial Ice	287.61	0.0281	0.0091	0.0373	0.0383
1.2D + 1.0Di + 1.0Wi 240° 29.24 mph Wind with 0.212" Radial Ice	292.61	0.0228	0.0063	0.0600	0.0603
1.2D + 1.0Di + 1.0Wi 210° 29.24 mph Wind with 0.212" Radial Ice	169.59	0.0213	0.0038	0.0524	0.0524
1.2D + 1.0Di + 1.0Wi 210° 29.24 mph Wind with 0.212" Radial Ice	226.27	0.0259	0.0017	0.0119	0.0119
1.2D + 1.0Di + 1.0Wi 210° 29.24 mph Wind with 0.212" Radial Ice	287.61	0.0351	0.0104	0.0340	0.0348
1.2D + 1.0Di + 1.0Wi 210° 29.24 mph Wind with 0.212" Radial Ice	292.61	0.0323	0.0078	0.0598	0.0603
1.2D + 1.0Di + 1.0Wi 180° 29.24 mph Wind with 0.212" Radial Ice	169.59	0.0222	0.0032	0.0487	0.0488
1.2D + 1.0Di + 1.0Wi 180° 29.24 mph Wind with 0.212" Radial Ice	226.27	0.029	-0.0010	0.0146	0.0146
1.2D + 1.0Di + 1.0Wi 180° 29.24 mph Wind with 0.212" Radial Ice	287.61	0.0422	-0.0093	0.0329	0.0329
1.2D + 1.0Di + 1.0Wi 180° 29.24 mph Wind with 0.212" Radial Ice	292.61	0.0405	-0.0065	0.0548	0.0552
1.2D + 1.0Di + 1.0Wi 120° 29.24 mph Wind with 0.212" Radial Ice	169.59	0.0218	0.0038	0.0526	0.0527
1.2D + 1.0Di + 1.0Wi 120° 29.24 mph Wind with 0.212" Radial Ice	226.27	0.0247	0.0024	0.0094	0.0097
1.2D + 1.0Di + 1.0Wi 120° 29.24 mph Wind with 0.212" Radial Ice	287.61	0.0288	-0.0092	0.0377	0.0387
1.2D + 1.0Di + 1.0Wi 120° 29.24 mph Wind with 0.212" Radial Ice	292.61	0.0234	-0.0063	0.0605	0.0608
1.2D + 1.0Di + 1.0Wi 90° 29.24 mph Wind with 0.212" Radial Ice	169.59	0.0205	0.0048	0.0513	0.0516
1.2D + 1.0Di + 1.0Wi 90° 29.24 mph Wind with 0.212" Radial Ice	226.27	0.025	0.0045	0.0119	0.0127
1.2D + 1.0Di + 1.0Wi 90° 29.24 mph Wind with 0.212" Radial Ice	287.61	0.0339	0.0110	0.0353	0.037
1.2D + 1.0Di + 1.0Wi 90° 29.24 mph Wind with 0.212" Radial Ice	292.61	0.0306	0.0084	0.0558	0.0561
1.2D + 1.0Di + 1.0Wi 60° 29.24 mph Wind with 0.212" Radial Ice	169.59	0.0205	0.0035	0.0477	0.0478
1.2D + 1.0Di + 1.0Wi 60° 29.24 mph Wind with 0.212" Radial Ice	226.27	0.0272	0.0041	0.0147	0.0152
1.2D + 1.0Di + 1.0Wi 60° 29.24 mph Wind with 0.212" Radial Ice	287.61	0.0404	-0.0114	0.0340	0.0359
1.2D + 1.0Di + 1.0Wi 60° 29.24 mph Wind with 0.212" Radial Ice	292.61	0.0384	-0.0080	0.0525	0.053
1.2D + 1.0Di + 1.0Wi Normal 29.24 mph Wind with 0.212" Radial Ice	169.59	0.0184	0.0028	0.0510	0.051
1.2D + 1.0Di + 1.0Wi Normal 29.24 mph Wind with 0.212" Radial Ice	226.27	0.0204	0.0042	0.0061	0.0074
1.2D + 1.0Di + 1.0Wi Normal 29.24 mph Wind with 0.212" Radial Ice	287.61	0.0251	0.0106	0.0381	0.0381
1.2D + 1.0Di + 1.0Wi Normal 29.24 mph Wind with 0.212" Radial Ice	292.61	0.0206	0.0075	0.0566	0.0571
1.2D + 1.0W 330° 116.96 mph Wind with No Ice	169.59	0.489	0.0394	0.1323	0.1379
1.2D + 1.0W 330° 116.96 mph Wind with No Ice	226.27	0.8301	-0.0404	0.6326	0.6339
1.2D + 1.0W 330° 116.96 mph Wind with No Ice	287.61	1.6406	0.0817	0.6867	0.6915
1.2D + 1.0W 330° 116.96 mph Wind with No Ice	292.61	1.6949	-0.0741	0.7502	0.7518
1.2D + 1.0W 300° 116.96 mph Wind with No Ice	169.59	0.4484	-0.0251	0.1602	0.1603
1.2D + 1.0W 300° 116.96 mph Wind with No Ice	226.27	0.7204	-0.0298	0.4492	0.4502
1.2D + 1.0W 300° 116.96 mph Wind with No Ice	287.61	1.2637	0.0879	0.4575	0.4659
1.2D + 1.0W 300° 116.96 mph Wind with No Ice	292.61	1.3027	0.0596	0.4210	0.4217
1.2D + 1.0W 240° 116.96 mph Wind with No Ice	169.59	0.5713	-0.0195	0.1285	0.1285
1.2D + 1.0W 240° 116.96 mph Wind with No Ice	226.27	0.9904	-0.0120	0.7781	0.7781

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DEFLECTIONS AND ROTATIONS					
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 240° 116.96 mph Wind with No Ice	287.61	1.9886	-0.0824	0.7908	0.7916
1.2D + 1.0W 240° 116.96 mph Wind with No Ice	292.61	2.0553	-0.0485	0.9177	0.9177
1.2D + 1.0W 210° 116.96 mph Wind with No Ice	169.59	0.4969	0.0470	0.1308	0.139
1.2D + 1.0W 210° 116.96 mph Wind with No Ice	226.27	0.8451	-0.0243	0.6388	0.6389
1.2D + 1.0W 210° 116.96 mph Wind with No Ice	287.61	1.6632	-0.0710	0.6816	0.6852
1.2D + 1.0W 210° 116.96 mph Wind with No Ice	292.61	1.7164	-0.0530	0.7771	0.7776
1.2D + 1.0W 180° 116.96 mph Wind with No Ice	169.59	0.4563	-0.0053	0.1540	0.154
1.2D + 1.0W 180° 116.96 mph Wind with No Ice	226.27	0.7357	-0.0226	0.4589	0.4594
1.2D + 1.0W 180° 116.96 mph Wind with No Ice	287.61	1.2852	-0.0111	0.4504	0.4504
1.2D + 1.0W 180° 116.96 mph Wind with No Ice	292.61	1.3219	-0.0105	0.4353	0.4354
1.2D + 1.0W 120° 116.96 mph Wind with No Ice	169.59	0.5697	0.0200	0.1344	0.1344
1.2D + 1.0W 120° 116.96 mph Wind with No Ice	226.27	0.9926	0.0115	0.7804	0.7804
1.2D + 1.0W 120° 116.96 mph Wind with No Ice	287.61	1.9928	0.0817	0.7920	0.7928
1.2D + 1.0W 120° 116.96 mph Wind with No Ice	292.61	2.0596	0.0478	0.9188	0.9188
1.2D + 1.0W 90° 116.96 mph Wind with No Ice	169.59	0.4905	0.0705	0.1439	0.152
1.2D + 1.0W 90° 116.96 mph Wind with No Ice	226.27	0.8368	0.0130	0.6348	0.6348
1.2D + 1.0W 90° 116.96 mph Wind with No Ice	287.61	1.6514	-0.0969	0.6896	0.6964
1.2D + 1.0W 90° 116.96 mph Wind with No Ice	292.61	1.7062	-0.0740	0.7563	0.7564
1.2D + 1.0W 60° 116.96 mph Wind with No Ice	169.59	0.4492	0.0255	0.1679	0.168
1.2D + 1.0W 60° 116.96 mph Wind with No Ice	226.27	0.7256	0.0305	0.4511	0.4521
1.2D + 1.0W 60° 116.96 mph Wind with No Ice	287.61	1.2705	-0.0872	0.4581	0.4663
1.2D + 1.0W 60° 116.96 mph Wind with No Ice	292.61	1.3098	-0.0588	0.4213	0.422
1.2D + 1.0W Normal 116.96 mph Wind with No Ice	169.59	0.5664	-0.0040	0.1215	0.1215
1.2D + 1.0W Normal 116.96 mph Wind with No Ice	226.27	0.9829	0.0423	0.7726	0.7738
1.2D + 1.0W Normal 116.96 mph Wind with No Ice	287.61	1.9749	0.1009	0.7839	0.7904
1.2D + 1.0W Normal 116.96 mph Wind with No Ice	292.61	2.0414	0.0783	0.9031	0.9031

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0W Normal	0.00	0.00		1	0.00	119.51	-1.02
	118.00	1.00	0	A1	0.00	-0.17	0.18
	119.00	2.00	240	A1a	-10.38	-7.94	-6.24
	119.00	0.00	120	A1b	10.37	-8.12	-6.23
	240.00	0.00	0	A2	0.00	-3.04	2.16
	240.00	2.00	240	A2a	-31.36	-34.57	-20.12
	240.00	3.00	120	A2b	31.37	-34.42	-20.12
1.2D + 1.0W 60°	0.00	0.00		1	-0.86	109.31	-0.50
	118.00	1.00	0	A1	-0.16	-1.27	1.75
	119.00	2.00	240	A1a	-11.26	-8.76	-6.50
	119.00	0.00	120	A1b	1.44	-1.28	-1.02
	240.00	0.00	0	A2	-1.64	-13.15	13.52
	240.00	2.00	240	A2a	-39.15	-41.68	-22.60
	240.00	3.00	120	A2b	10.90	-12.98	-8.18
1.2D + 1.0W 90°	0.00	0.00		1	-1.00	113.89	-0.04
	118.00	1.00	0	A1	-0.22	-4.31	6.52
	119.00	2.00	240	A1a	-11.67	-8.92	-6.62
	119.00	0.00	120	A1b	0.39	-0.42	-0.31
	240.00	0.00	0	A2	-2.08	-23.46	24.83
	240.00	2.00	240	A2a	-37.97	-40.04	-20.92
	240.00	3.00	120	A2b	4.47	-6.01	-3.48
1.2D + 1.0W 120°	0.00	0.00		1	-0.88	119.60	0.51
	118.00	1.00	0	A1	-0.21	-8.10	12.11
	119.00	2.00	240	A1a	-10.59	-7.94	-5.87
	119.00	0.00	120	A1b	0.16	-0.17	-0.09
	240.00	0.00	0	A2	-1.75	-34.77	37.12
	240.00	2.00	240	A2a	-33.00	-34.46	-17.04
	240.00	3.00	120	A2b	1.79	-2.90	-1.03
1.2D + 1.0W 180°	0.00	0.00		1	0.00	109.55	0.99
	118.00	1.00	0	A1	0.00	-8.93	12.99
	119.00	2.00	240	A1a	-1.60	-1.24	-0.74
	119.00	0.00	120	A1b	1.59	-1.27	-0.73
	240.00	0.00	0	A2	0.00	-41.99	45.17
	240.00	2.00	240	A2a	-12.48	-12.98	-5.31
	240.00	3.00	120	A2b	12.48	-12.92	-5.32
1.2D + 1.0W 210°	0.00	0.00		1	0.46	114.16	0.88
	118.00	1.00	0	A1	0.11	-9.10	13.41
	119.00	2.00	240	A1a	-0.46	-0.40	-0.18
	119.00	0.00	120	A1b	5.74	-4.32	-3.06
	240.00	0.00	0	A2	0.87	-40.40	43.38
	240.00	2.00	240	A2a	-5.24	-6.04	-2.13
	240.00	3.00	120	A2b	22.55	-23.17	-10.63
1.2D + 1.0W 240°	0.00	0.00		1	0.88	119.74	0.51
	118.00	1.00	0	A1	0.21	-8.09	12.10
	119.00	2.00	240	A1a	-0.16	-0.16	-0.09
	119.00	0.00	120	A1b	10.58	-8.12	-5.86
	240.00	0.00	0	A2	1.75	-34.80	37.16
	240.00	2.00	240	A2a	-1.81	-2.95	-1.05
	240.00	3.00	120	A2b	33.05	-34.35	-17.07
1.2D + 1.0W 300°	0.00	0.00		1	0.86	109.38	-0.50
	118.00	1.00	0	A1	0.16	-1.26	1.73
	119.00	2.00	240	A1a	-1.42	-1.23	-1.01
	119.00	0.00	120	A1b	11.22	-8.94	-6.48
	240.00	0.00	0	A2	1.64	-13.17	13.54
	240.00	2.00	240	A2a	-10.91	-13.06	-8.19
	240.00	3.00	120	A2b	39.18	-41.53	-22.62
1.2D + 1.0W 330°	0.00	0.00		1	0.53	113.92	-0.85
	118.00	1.00	0	A1	0.07	-0.41	0.48
	119.00	2.00	240	A1a	-5.52	-4.21	-3.44

ASSET: 416988, Mason SW FL

CODE: ANSI/TIA-222-H

CUSTOMER: ALLTEL COMMUNICATIONS, LLC

PROJECT: 14137966_C3_01

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Di + 1.0Wi Normal	119.00	0.00	120	A1b	11.54	-9.12	-6.79
	240.00	0.00	0	A2	0.78	-6.17	5.67
	240.00	2.00	240	A2a	-20.54	-23.34	-14.26
	240.00	3.00	120	A2b	37.19	-39.95	-22.48
	0.00	0.00		1	0.00	82.37	-0.10
	118.00	1.00	0	A1	0.00	-2.05	3.17
	119.00	2.00	240	A1a	-3.52	-2.61	-2.05
	119.00	0.00	120	A1b	3.51	-2.67	-2.05
	240.00	0.00	0	A2	0.00	-11.57	13.24
	240.00	2.00	240	A2a	-13.56	-13.67	-8.04
1.2D + 1.0Di + 1.0Wi 60°	240.00	3.00	120	A2b	13.57	-13.61	-8.05
	0.00	0.00		1	-0.08	81.95	-0.05
	118.00	1.00	0	A1	-0.02	-2.27	3.48
	119.00	2.00	240	A1a	-3.75	-2.78	-2.17
	119.00	0.00	120	A1b	3.00	-2.27	-1.76
	240.00	0.00	0	A2	-0.19	-12.25	13.97
	240.00	2.00	240	A2a	-14.19	-14.24	-8.19
	240.00	3.00	120	A2b	12.01	-12.08	-7.15
	0.00	0.00		1	-0.09	82.17	0.00
	118.00	1.00	0	A1	-0.02	-2.46	3.77
1.2D + 1.0Di + 1.0Wi 90°	119.00	2.00	240	A1a	-3.70	-2.74	-2.13
	119.00	0.00	120	A1b	2.83	-2.13	-1.64
	240.00	0.00	0	A2	-0.23	-13.02	14.86
	240.00	2.00	240	A2a	-14.11	-14.10	-8.04
	240.00	3.00	120	A2b	11.60	-11.60	-6.80
	0.00	0.00		1	-0.09	82.39	0.05
	118.00	1.00	0	A1	-0.02	-2.67	4.08
	119.00	2.00	240	A1a	-3.54	-2.61	-2.02
	119.00	0.00	120	A1b	2.74	-2.05	-1.58
	240.00	0.00	0	A2	-0.19	-13.78	15.75
1.2D + 1.0Di + 1.0Wi 120°	240.00	2.00	240	A2a	-13.74	-13.67	-7.72
	240.00	3.00	120	A2b	11.48	-11.42	-6.63
	0.00	0.00		1	0.00	81.96	0.09
	118.00	1.00	0	A1	0.00	-2.84	4.33
	119.00	2.00	240	A1a	-3.02	-2.21	-1.72
	119.00	0.00	120	A1b	3.02	-2.27	-1.72
	240.00	0.00	0	A2	0.00	-14.36	16.38
	240.00	2.00	240	A2a	-12.19	-12.13	-6.82
	240.00	3.00	120	A2b	12.20	-12.08	-6.83
	0.00	0.00		1	0.05	82.18	0.08
1.2D + 1.0Di + 1.0Wi 180°	118.00	1.00	0	A1	0.01	-2.80	4.26
	119.00	2.00	240	A1a	-2.84	-2.07	-1.63
	119.00	0.00	120	A1b	3.27	-2.46	-1.86
	240.00	0.00	0	A2	0.09	-14.22	16.23
	240.00	2.00	240	A2a	-11.68	-11.65	-6.64
	240.00	3.00	120	A2b	13.00	-12.85	-7.24
	0.00	0.00		1	0.09	82.39	0.05
	118.00	1.00	0	A1	0.02	-2.67	4.07
	119.00	2.00	240	A1a	-2.74	-2.00	-1.58
	119.00	0.00	120	A1b	3.53	-2.67	-2.02
1.2D + 1.0Di + 1.0Wi 240°	240.00	0.00	0	A2	0.19	-13.78	15.75
	240.00	2.00	240	A2a	-11.47	-11.47	-6.62
	240.00	3.00	120	A2b	13.75	-13.61	-7.72
	0.00	0.00		1	0.08	81.95	-0.05
	118.00	1.00	0	A1	0.02	-2.26	3.48
	119.00	2.00	240	A1a	-3.01	-2.21	-1.76
	119.00	0.00	120	A1b	3.74	-2.84	-2.16
	240.00	0.00	0	A2	0.19	-12.26	13.98
	240.00	2.00	240	A2a	-12.02	-12.15	-7.16

ASSET: 416988, Mason SW FL

CODE: ANSI/TIA-222-H

CUSTOMER: ALLTEL COMMUNICATIONS, LLC

PROJECT: 14137966_C3_01

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Di + 1.0Wi 330°	240.00	3.00	120	A2b	14.17	-14.15	-8.18
	0.00	0.00		1	0.05	82.15	-0.08
	118.00	1.00	0	A1	0.01	-2.12	3.27
	119.00	2.00	240	A1a	-3.25	-2.40	-1.90
	119.00	0.00	120	A1b	3.68	-2.80	-2.14
	240.00	0.00	0	A2	0.09	-11.76	13.43
	240.00	2.00	240	A2a	-12.77	-12.91	-7.64
	240.00	3.00	120	A2b	14.03	-14.04	-8.20
1.2D + 1.0Ev + 1.0Eh Normal	0.00	0.00		1	0.00	69.61	0.00
	118.00	1.00	0	A1	0.00	-2.00	3.02
	119.00	2.00	240	A1a	-2.71	-2.04	-1.56
	119.00	0.00	120	A1b	2.71	-2.08	-1.56
	240.00	0.00	0	A2	0.00	-10.40	11.83
	240.00	2.00	240	A2a	-10.84	-11.02	-6.26
	240.00	3.00	120	A2b	10.84	-10.97	-6.26
	0.00	0.00		1	0.00	69.61	0.00
1.2D + 1.0Ev + 1.0Eh 60°	118.00	1.00	0	A1	0.00	-2.03	3.06
	119.00	2.00	240	A1a	-2.74	-2.06	-1.58
	119.00	0.00	120	A1b	2.64	-2.03	-1.53
	240.00	0.00	0	A2	0.00	-10.64	12.05
	240.00	2.00	240	A2a	-11.04	-11.25	-6.37
	240.00	3.00	120	A2b	10.45	-10.50	-6.03
	0.00	0.00		1	0.00	69.61	0.00
	118.00	1.00	0	A1	0.00	-2.05	3.09
1.2D + 1.0Ev + 1.0Eh 90°	119.00	2.00	240	A1a	-2.73	-2.06	-1.58
	119.00	0.00	120	A1b	2.62	-2.01	-1.51
	240.00	0.00	0	A2	0.00	-10.87	12.28
	240.00	2.00	240	A2a	-10.98	-11.19	-6.34
	240.00	3.00	120	A2b	10.31	-10.33	-5.95
	0.00	0.00		1	0.00	69.61	0.00
	118.00	1.00	0	A1	0.00	-2.08	3.13
	119.00	2.00	240	A1a	-2.71	-2.04	-1.56
1.2D + 1.0Ev + 1.0Eh 120°	119.00	0.00	120	A1b	2.61	-2.00	-1.51
	240.00	0.00	0	A2	0.00	-11.11	12.51
	240.00	2.00	240	A2a	-10.84	-11.01	-6.26
	240.00	3.00	120	A2b	10.25	-10.27	-5.92
	0.00	0.00		1	0.00	69.61	0.00
	118.00	1.00	0	A1	0.00	-2.11	3.17
	119.00	2.00	240	A1a	-2.65	-1.98	-1.53
	119.00	0.00	120	A1b	2.64	-2.03	-1.53
1.2D + 1.0Ev + 1.0Eh 180°	240.00	0.00	0	A2	0.00	-11.35	12.74
	240.00	2.00	240	A2a	-10.44	-10.54	-6.03
	240.00	3.00	120	A2b	10.45	-10.50	-6.03
	0.00	0.00		1	0.00	69.61	0.00
	118.00	1.00	0	A1	0.00	-2.10	3.16
	119.00	2.00	240	A1a	-2.62	-1.96	-1.51
	119.00	0.00	120	A1b	2.67	-2.06	-1.54
	240.00	0.00	0	A2	0.00	-11.29	12.67
1.2D + 1.0Ev + 1.0Eh 210°	240.00	2.00	240	A2a	-10.30	-10.37	-5.95
	240.00	3.00	120	A2b	10.64	-10.73	-6.15
	0.00	0.00		1	0.00	69.61	0.00
	118.00	1.00	0	A1	0.00	-2.08	3.13
	119.00	2.00	240	A1a	-2.61	-1.95	-1.51
	119.00	0.00	120	A1b	2.71	-2.08	-1.56
	240.00	0.00	0	A2	0.00	-11.11	12.51
	240.00	2.00	240	A2a	-10.25	-10.31	-5.92
1.2D + 1.0Ev + 1.0Eh 240°	240.00	3.00	120	A2b	10.84	-10.97	-6.26
	0.00	0.00		1	0.00	69.61	0.00
	118.00	1.00	0	A1	0.00	-2.03	3.06
	119.00	2.00	240	A1a	-2.61	-1.95	-1.51
	119.00	0.00	120	A1b	2.71	-2.08	-1.56
	240.00	0.00	0	A2	0.00	-11.11	12.51
	240.00	2.00	240	A2a	-10.25	-10.31	-5.92
	240.00	3.00	120	A2b	10.84	-10.97	-6.26
1.2D + 1.0Ev + 1.0Eh 300°	0.00	0.00		1	0.00	69.61	0.00
	118.00	1.00	0	A1	0.00	-2.03	3.06

ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966_C3_01

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Ev + 1.0Eh 330°	119.00	2.00	240	A1a	-2.65	-1.98	-1.53
	119.00	0.00	120	A1b	2.74	-2.11	-1.58
	240.00	0.00	0	A2	0.00	-10.64	12.05
	240.00	2.00	240	A2a	-10.45	-10.55	-6.03
	240.00	3.00	120	A2b	11.04	-11.21	-6.38
	0.00	0.00		1	0.00	69.61	0.00
	118.00	1.00	0	A1	0.00	-2.01	3.03
	119.00	2.00	240	A1a	-2.68	-2.01	-1.55
	119.00	0.00	120	A1b	2.73	-2.10	-1.58
	240.00	0.00	0	A2	0.00	-10.47	11.89
1.0D + 1.0W Service Normal	240.00	2.00	240	A2a	-10.64	-10.78	-6.14
	240.00	3.00	120	A2b	10.99	-11.14	-6.35
	0.00	0.00		1	0.00	67.34	-0.39
	118.00	1.00	0	A1	0.00	-0.66	1.07
	119.00	2.00	240	A1a	-3.76	-2.87	-2.22
	119.00	0.00	120	A1b	3.76	-2.94	-2.22
	240.00	0.00	0	A2	0.00	-6.15	7.14
	240.00	2.00	240	A2a	-13.67	-14.18	-8.38
	240.00	3.00	120	A2b	13.67	-14.11	-8.39
	0.00	0.00		1	-0.29	68.53	-0.17
1.0D + 1.0W Service 60°	118.00	1.00	0	A1	-0.04	-1.49	2.25
	119.00	2.00	240	A1a	-4.50	-3.44	-2.60
	119.00	0.00	120	A1b	1.92	-1.49	-1.16
	240.00	0.00	0	A2	-0.43	-9.57	10.67
	240.00	2.00	240	A2a	-16.37	-16.95	-9.45
	240.00	3.00	120	A2b	9.03	-9.44	-5.71
	0.00	0.00		1	-0.35	68.00	0.01
	118.00	1.00	0	A1	-0.05	-2.15	3.23
	119.00	2.00	240	A1a	-4.33	-3.30	-2.48
	119.00	0.00	120	A1b	1.27	-0.96	-0.76
1.0D + 1.0W Service 90°	240.00	0.00	0	A2	-0.53	-11.85	13.25
	240.00	2.00	240	A2a	-15.80	-16.17	-8.88
	240.00	3.00	120	A2b	7.14	-7.27	-4.36
	0.00	0.00		1	-0.34	67.40	0.19
	118.00	1.00	0	A1	-0.04	-2.95	4.39
	119.00	2.00	240	A1a	-3.82	-2.88	-2.16
	119.00	0.00	120	A1b	0.93	-0.66	-0.54
	240.00	0.00	0	A2	-0.43	-14.30	16.02
	240.00	2.00	240	A2a	-14.09	-14.17	-7.64
	240.00	3.00	120	A2b	6.14	-6.02	-3.55
1.0D + 1.0W Service 120°	0.00	0.00		1	0.00	68.57	0.33
	118.00	1.00	0	A1	0.00	-3.51	5.19
	119.00	2.00	240	A1a	-1.96	-1.45	-1.09
	119.00	0.00	120	A1b	1.96	-1.49	-1.08
	240.00	0.00	0	A2	0.00	-17.08	18.88
	240.00	2.00	240	A2a	-9.44	-9.46	-4.96
	240.00	3.00	120	A2b	9.44	-9.42	-4.96
	0.00	0.00		1	0.18	68.01	0.30
	118.00	1.00	0	A1	0.02	-3.36	4.98
	119.00	2.00	240	A1a	-1.29	-0.93	-0.72
1.0D + 1.0W Service 210°	119.00	0.00	120	A1b	2.81	-2.14	-1.56
	240.00	0.00	0	A2	0.21	-16.28	18.09
	240.00	2.00	240	A2a	-7.35	-7.31	-4.01
	240.00	3.00	120	A2b	11.74	-11.69	-6.17
	0.00	0.00		1	0.34	67.41	0.19
	118.00	1.00	0	A1	0.04	-2.94	4.38
	119.00	2.00	240	A1a	-0.92	-0.63	-0.53
	119.00	0.00	120	A1b	3.81	-2.94	-2.15
	240.00	0.00	0	A2	0.43	-14.30	16.03

DETAILED REACTIONS							
Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.0D + 1.0W Service 300°	240.00	2.00	240	A2a	-6.14	-6.05	-3.55
	240.00	3.00	120	A2b	14.10	-14.11	-7.65
	0.00	0.00		1	0.29	68.54	-0.17
	118.00	1.00	0	A1	0.04	-1.48	2.24
	119.00	2.00	240	A1a	-1.91	-1.45	-1.15
	119.00	0.00	120	A1b	4.48	-3.51	-2.58
	240.00	0.00	0	A2	0.43	-9.57	10.67
	240.00	2.00	240	A2a	-9.03	-9.49	-5.71
	240.00	3.00	120	A2b	16.38	-16.88	-9.46
	0.00	0.00		1	0.17	67.97	-0.31
1.0D + 1.0W Service 330°	118.00	1.00	0	A1	0.02	-0.95	1.47
	119.00	2.00	240	A1a	-2.75	-2.09	-1.65
	119.00	0.00	120	A1b	4.29	-3.36	-2.50
	240.00	0.00	0	A2	0.21	-7.39	8.37
	240.00	2.00	240	A2a	-11.23	-11.76	-7.09
	240.00	3.00	120	A2b	15.61	-16.12	-9.25

MAXIMUM GUY ANCHOR REACTIONS				
Radius (ft)	Drop (ft)	Azimuth (deg)	Uplift (kip)	Shear (kip)
118.00	1.00	0	9.10	13.41
119.00	0.00	120	9.12	13.39
119.00	2.00	240	8.92	13.42
240.00	0.00	0	41.99	45.17
240.00	3.00	120	41.53	45.24
240.00	2.00	240	41.68	45.20

MAXIMUM REACTIONS SUMMARY		
Base / Anchor Group	Vertical Load (Compression for Base; Uplift for Anchor)	Horizontal Shear
Base	119.74 (kip)	1.02 (kip)
A1	9.12 (kip)	13.42 (kip)
A2	41.99 (kip)	45.24 (kip)

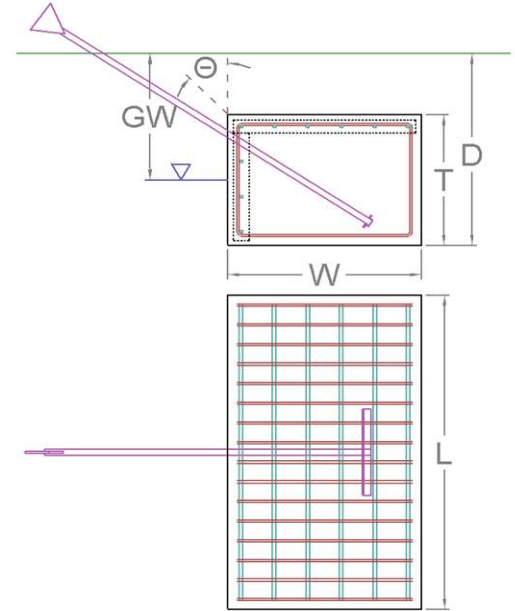
GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A1a @ r = 119 ft)

APPLIED REACTIONS

Uplift (k)	Shear (k)
8.92	13.42

FOUNDATION PARAMETERS

Base Depth:	D	6	ft
Block Width:	W	2.3	ft
Block Length:	L	10.6	ft
Block Thickness:	T	3	ft
Anchor Rod Quantity & Shape:	(1) Flat Plate		
Anchor Rod Area (gross/net):	1.875 // 1.870		
Anchor Rod Strength (fy/fu):	50 // 65		



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		100	pcf
Friction Angle:		28	°
Cohesion:		0	psf
Ultimate Skin Friction		0	psf
Coefficient of Shear Friction:		0.3	
Uplift Pullout Angle:	θ	30	°
Uplift at ____ of Anchor:		Top	

SOIL STRENGTH ANALYSIS

Uplift Strength Reduction Factor, Φ_u	Shear Strength Reduction Factor, Φ_v	Dead Load Factor
0.75	0.75	0.9

SOIL UPLIFT ANALYSIS

Uplift Resistance from Skin Friction and Soil Shear (k)	Additional Uplift Resistance (k)	Uplift Capacity, ΦT_n (k)	Soil Uplift Usage, $T_u / \Phi T_n$	
0.00	0	22.19	40.2%	✓

SOIL SHEAR ANALYSIS

Skin Friction Resistance (k)	Normal Force Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Additional Shear Resistance (k)	Shear Capacity, ΦV_n (k)	Soil Shear Usage, $V_u / \Phi V_n$	
0.00	2.26	1,246.42	39.64	0	31.42	42.7%	✓

ANCHOR ROD STRENGTH ANALYSIS

Yield Strength Reduction Factor, Φ_y	Tensile Strength Reduction Factor, Φ_t	Resultant Tensile Load, T_u (k)	Tensile Capacity, ΦT_n (k-ft)	Anchor Rod Tensile Usage, $T_u / \Phi T_n$	
0.8	0.65	16.1	75.00	21.5%	✓

GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A1 @ r = 118 ft)

APPLIED REACTIONS

Uplift (k)

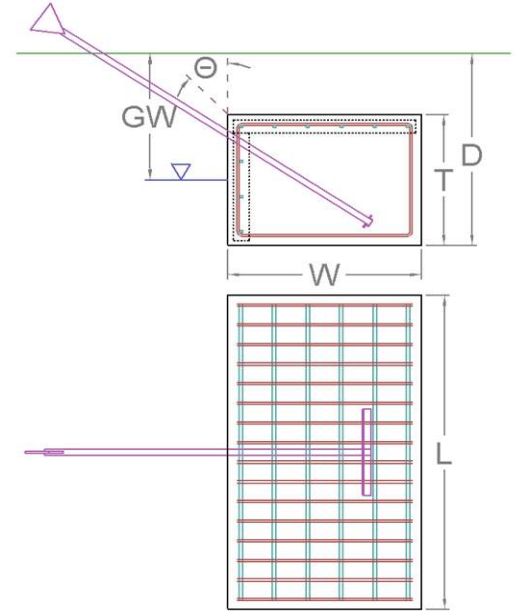
9.10

Shear (k)

13.41

FOUNDATION PARAMETERS

Base Depth:	D	6	ft
Block Width:	W	2.3	ft
Block Length:	L	10.6	ft
Block Thickness:	T	3	ft
Anchor Rod Quantity & Shape:	(1) Flat Plate		
Anchor Rod Area (gross/net):	1.875 // 1.870		
Anchor Rod Strength (fy/fu):	50 // 65		



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		100	pcf
Friction Angle:		28	°
Cohesion:		0	psf
Ultimate Skin Friction		0	psf
Coefficient of Shear Friction:		0.3	
Uplift Pullout Angle:	θ	30	°
Uplift at ____ of Anchor:		Top	

SOIL STRENGTH ANALYSIS

Uplift Strength Reduction Factor, Φ_u

0.75

Shear Strength Reduction Factor, Φ_v

0.75

Dead Load Factor

0.9

SOIL UPLIFT ANALYSIS

Uplift Resistance from Skin Friction and Soil Shear (k)

0.00

Additional Uplift Resistance (k)

0

Uplift Capacity, ΦT_n (k)

22.19

Soil Uplift Usage, $T_u / \Phi T_n$

41.0%



SOIL SHEAR ANALYSIS

Skin Friction Resistance (k)

0.00

Normal Force Resistance (k)

2.21

Passive Pressure (psf)

1,246.42

Passive Pressure Resistance (k)

39.64

Additional Shear Resistance (k)

0

Shear Capacity, ΦV_n (k)

31.38

Soil Shear Usage, $V_u / \Phi V_n$

42.7%



ANCHOR ROD STRENGTH ANALYSIS

Yield Strength Reduction Factor, Φ_y

0.8

Tensile Strength Reduction Factor, Φ_t

0.65

Resultant Tensile Load, T_u (k)

16.2

Tensile Capacity, ΦT_n (k-ft)

75.00

Anchor Rod Tensile Usage, $T_u / \Phi T_n$

21.6%



GUY ANCHOR BLOCK FOUNDATION ANALYSIS (NODE A1b @ r = 119 ft)

APPLIED REACTIONS

Uplift (k)

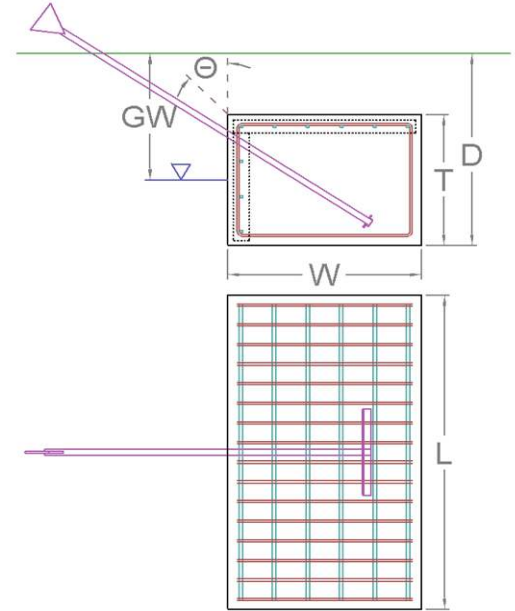
9.12

Shear (k)

13.39

FOUNDATION PARAMETERS

Base Depth:	D	6	ft
Block Width:	W	2.3	ft
Block Length:	L	10.6	ft
Block Thickness:	T	3	ft
Anchor Rod Quantity & Shape:	(1) Flat Plate		
Anchor Rod Area (gross/net):	1.875 // 1.870		
Anchor Rod Strength (fy/fu):	50 // 65		



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Soil Unit Weight:		100	pcf
Friction Angle:		28	°
Cohesion:		0	psf
Ultimate Skin Friction		0	psf
Coefficient of Shear Friction:		0.3	
Uplift Pullout Angle:	θ	30	°
Uplift at ____ of Anchor:		Top	

SOIL STRENGTH ANALYSIS

Uplift Strength Reduction Factor, Φ_u

0.75

Shear Strength Reduction Factor, Φ_v

0.75

Dead Load Factor

0.9

SOIL UPLIFT ANALYSIS

Uplift Resistance from Skin Friction and Soil Shear (k)

0.00

Additional Uplift Resistance (k)

0

Uplift Capacity, ΦT_n (k)

22.19

Soil Uplift Usage, $T_u / \Phi T_n$

41.1%



SOIL SHEAR ANALYSIS

Skin Friction Resistance (k)

0.00

Normal Force Resistance (k)

2.20

Passive Pressure (psf)

1,246.42

Passive Pressure Resistance (k)

39.64

Additional Shear Resistance (k)

0

Shear Capacity, ΦV_n (k)

31.38

Soil Shear Usage, $V_u / \Phi V_n$

42.7%



ANCHOR ROD STRENGTH ANALYSIS

Yield Strength Reduction Factor, Φ_y

0.8

Tensile Strength Reduction Factor, Φ_t

0.65

Resultant Tensile Load, T_u (k)

16.2

Tensile Capacity, ΦT_n (k-ft)

75.00

Anchor Rod Tensile Usage, $T_u / \Phi T_n$

21.6%



ASSET: 416988, Mason SW FL
CUSTOMER: ALLTEL COMMUNICATIONS, LLC

CODE: ANSI/TIA-222-H
PROJECT: 14137966

PIER ANCHOR FOUNDATION ANALYSIS (NODE A2a @ r = 240 ft)

APPLIED REACTIONS

Uplift (k)	Shear (k)
41.68	45.20

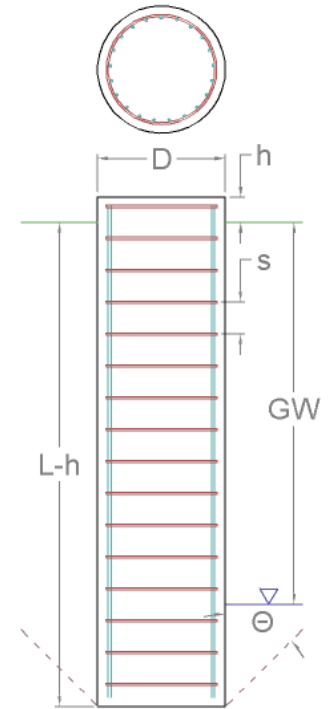
FOUNDATION PARAMETERS

Pier Diameter:	D	4.00	ft
Pier Embedment Depth:	L-h	24.3	ft
Pier Height above Grade:	h	0.70	ft

SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Uplift Pullout Angle:	θ	30	°
Uplift Skin Friction Factor:		1.000	

Layer Depth (ft)		Unit Weight pcf	Cohesion psf	Friction Angle °	Ultimate Skin Friction psf	Ultimate Net Bearing psf
Top	Bottom					
0	3	100	0	0	0	0
3	6	100	0	28	254	0
6	8	115	0	33	768	0
8	13.5	110	0	30	740	0
13.5	18.5	115	0	33	1,202	0
18.5	25.3	120	3,250	0	1,776	0



SOIL STRENGTH ANALYSIS

Volume of Concrete (ft³)	Buoyant Weight of Concrete (k)	Skin Friction Resistance (k)	Inflection Point [BGL] (ft)
314.16	47.12	284.99	18.64

SOIL MOMENT ANALYSIS

Total Lateral Resistance (k)	Moment at Inflection Point, M_u (k-ft)	Additional Resistance (k-ft)	Nominal Moment Capacity, ϕM_n (k-ft)	Soil Moment Usage, $M_u / \phi M_n$
1,179.87	874.15	0.00	3,765.49	23.2%

SOIL UPLIFT ANALYSIS

Soil Pullout Weight (k)	Uplift Force, T_u (k)	Additional Resistance (k)	Nominal Uplift Capacity, ϕT_n (k)	Soil Uplift Usage, $T_u / \phi T_n$
796.30	0.00	0.00	213.74	0.0%

PIER ANCHOR FOUNDATION ANALYSIS (NODE A2b @ r = 240 ft)

APPLIED REACTIONS

Uplift (k)	Shear (k)
41.53	45.24

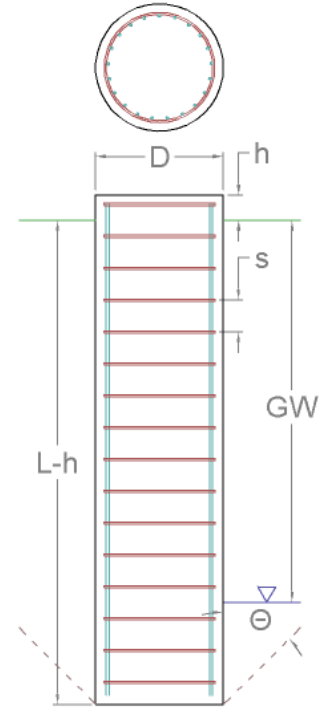
FOUNDATION PARAMETERS

Pier Diameter:	D	4.00	ft
Pier Embedment Depth:	L-h	24.3	ft
Pier Height above Grade:	h	0.70	ft

SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Uplift Pullout Angle:	θ	30	°
Uplift Skin Friction Factor:		1.000	

Layer Depth (ft)		Unit Weight pcf	Cohesion psf	Friction Angle °	Ultimate Skin Friction psf	Ultimate Net Bearing psf
Top	Bottom					
0	3	100	0	0	0	0
3	6	100	0	28	254	0
6	8	115	0	33	768	0
8	13.5	110	0	30	740	0
13.5	18.5	115	0	33	1,202	0
18.5	25.3	120	3,250	0	1,776	0



SOIL STRENGTH ANALYSIS

Volume of Concrete (ft ³)	Buoyant Weight of Concrete (k)	Skin Friction Resistance (k)	Inflection Point [BGL] (ft)
314.16	47.12	284.99	18.64

SOIL MOMENT ANALYSIS

Total Lateral Resistance (k)	Moment at Inflection Point, M_u (k-ft)	Additional Resistance (k-ft)	Nominal Moment Capacity, ϕM_n (k-ft)	Soil Moment Usage, $M_u / \phi M_n$
1,179.87	874.92	0.00	3,765.49	23.2%

SOIL UPLIFT ANALYSIS

Soil Pullout Weight (k)	Uplift Force, T_u (k)	Additional Resistance (k)	Nominal Uplift Capacity, ϕT_n (k)	Soil Uplift Usage, $T_u / \phi T_n$
796.30	0.00	0.00	213.74	0.0%

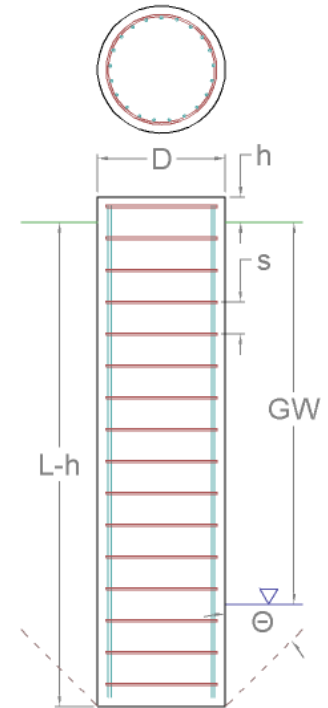
FOUNDATION PARAMETERS

Pier Diameter:	D	4.00	ft
Pier Embedment Depth:	L-h	27.7	ft
Pier Height above Grade:	h	0.30	ft

SOIL PARAMETERS

Water Table Depth [BGL]: GW - ft

Layer Depth (ft)		Unit Weight	Cohesion	Friction Angle	Ultimate Skin Friction	Ultimate Net Bearing
Top	Bottom	pcf	psf	°	psf	psf
0	3	100	0	0	0	0
3	6	100	500	0	276	0
6	8	115	2,750	0	1,512	0
8	13.5	120	3,800	0	1,978	0
13.5	18.5	125	0	37	1,572	0
18.5	23.5	110	2,600	0	1,430	0
23.5	28.7	115	0	33	1,608	24,000



SOIL STRENGTH ANALYSIS

Volume of Concrete (ft ³)	Buoyant Weight of Concrete (k)	Skin Friction Resistance (k)	Inflection Point [BGL] (ft)
351.86	52.78	458.60	16.51

SOIL MOMENT ANALYSIS

Total Lateral Resistance (k)	Moment at Inflection Point, M_u (k-ft)	Additional Resistance (k-ft)	Nominal Moment Capacity, ΦM_n (k-ft)	Soil Moment Usage, $M_u / \Phi M_n$
2,194.45	16.98	0.00	9,679.43	0.2%

SOIL COMPRESSION ANALYSIS

Compressive Bearing Resistance (k)	Compressive Force, P_u (k)	Additional Resistance (k)	Nominal Compressive Capacity, ΦP_n (k)	Soil Compressive Usage, $P_u / \Phi P_n$
301.59	134.93	0.00	524.91	25.7%

PIER ANCHOR FOUNDATION ANALYSIS (NODE A2 @ r = 240 ft)

APPLIED REACTIONS

Uplift (k)	Shear (k)
41.99	45.17

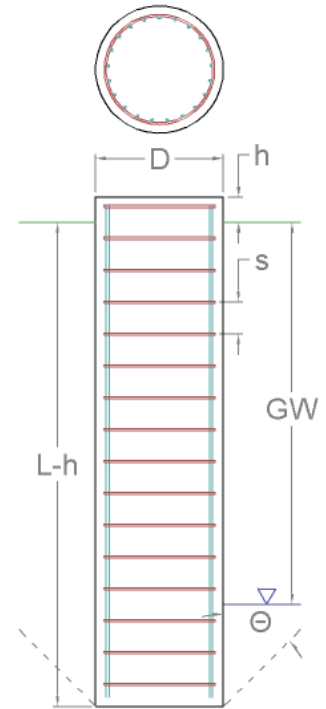
FOUNDATION PARAMETERS

Pier Diameter:	D	4.00	ft
Pier Embedment Depth:	L-h	24.3	ft
Pier Height above Grade:	h	0.70	ft

SOIL PARAMETERS

Water Table Depth [BGL]:	GW	-	ft
Uplift Pullout Angle:	θ	30	°
Uplift Skin Friction Factor:		1.000	

Layer Depth (ft)		Unit Weight pcf	Cohesion psf	Friction Angle °	Ultimate Skin Friction psf	Ultimate Net Bearing psf
Top	Bottom					
0	3	100	0	0	0	0
3	6	100	0	28	254	0
6	8	115	0	33	768	0
8	13.5	110	0	30	740	0
13.5	18.5	115	0	33	1,202	0
18.5	25.3	120	3,250	0	1,776	0



SOIL STRENGTH ANALYSIS

Volume of Concrete (ft³)	Buoyant Weight of Concrete (k)	Skin Friction Resistance (k)	Inflection Point [BGL] (ft)
314.16	47.12	284.99	18.64

SOIL MOMENT ANALYSIS

Total Lateral Resistance (k)	Moment at Inflection Point, M_u (k-ft)	Additional Resistance (k-ft)	Nominal Moment Capacity, ϕM_n (k-ft)	Soil Moment Usage, $M_u / \phi M_n$
1,179.87	873.57	0.00	3,765.49	23.2%

SOIL UPLIFT ANALYSIS

Soil Pullout Weight (k)	Uplift Force, T_u (k)	Additional Resistance (k)	Nominal Uplift Capacity, ϕT_n (k)	Soil Uplift Usage, $T_u / \phi T_n$
796.30	0.00	0.00	213.74	0.0%