



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by



Structural Analysis Report

Structure : 300 ft Guyed Tower
ATC Site Name : HIGHWAY 441 NORTH, FL
ATC Asset Number : 97139
Engineering Number : 13686693_C3_02
Proposed Carrier : ALLTEL COMMUNICATIONS, LLC
Carrier Site Name : HIGHWAY 441
Carrier Site Number : 228804
Site Location : 22535 N US HIGHWAY 441
WHITE SPRINGS, FL 32096-7100
30.506400,-82.666500
County : Columbia
Date : June 7, 2021
Max Usage : 81%
Result : Pass

Prepared By:
Temitope Olaniyan
CLS

Reviewed By:



Tyler M. Barker
Old Sorrell Engineering PLLC
PE # 77105 Exp. 2/28/2023
COA # 34924

Digitally signed by
Tyler M. Barker PE
Date: 2021.06.08
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06/08/2021

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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 Drawings	Andrew Drawing # GI-95232, dated January 26, 1995
Foundation Drawing	Andrew Drawing # GTF-713, dated March 10, 1987 Andrew Drawing # AF95232-1, dated June 26, 1995 Andrew Drawing # AF95232-2, dated June 26, 1995
Geotechnical Report	Universal Engineering Report # 11453, dated November 9, 1994
Modifications	ATC Project #50755532, dated February 11, 2012

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:	116 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	30 mph (3-Second Gust) w/ 1/4" radial ice concurrent
Code:	ANSI/TIA-222-H / 2018 IBC / 7th Ed. (2020) Florida Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.09$, $S_1 = 0.05$
Site Class:	D - Stiff Soil

Conclusion

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

If you have any questions or require additional information, please 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 and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
298.0	6	Commscope NHH-65C-R2B	Sector Frame	(10) 1 5/8" Coax	ALLTEL COMMUNICATIONS, LLC

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
298.0	6	Andrew CBC78-DF-8-DCB	-	(2) 1 5/8" Coax	ALLTEL COMMUNICATIONS, LLC
	6	ADC DD800			
	6	Amphenol Antel RWA-80016			
175.0	1	Andrew Microwaves UHX6-59W		(1) EW52	
150.0	1	Andrew Microwaves UHX6-59W		(1) EW52	
140.0	1	Commscope VHLPX4-11W		(2) EW90	

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
298.0	5	Commscope CBC1921x-DS-2X	Sector Frame	(2) 1 5/8" Hybriflex (1) 3" conduit	ALLTEL COMMUNICATIONS, LLC
	3	Ericsson 8843 Rev 2			
	3	Ericsson Radio 4449 - B13&B5			
	3	Commscope TD-850B-LTE78-43			
	2	Raycap RVZDC-6627-PF-48			
	3	Ericsson AIR 6449 B77D/ C-Band			

¹ 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	Controlling Usage	Pass/Fail
Legs	45%	Pass
Diagonals	71%	Pass
Horizontals	81%	Pass
Guys	48%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Base Axial (kips)	178.9	241.5	106.4	44%
A1 Uplift (kips)	32.4	43.7	15.7	36%
A1 Shear (kips)	48.9	66.0	24.0	36%
A2 Uplift (kips)	47.9	64.7	29.3	45%
A2 Shear (kips)	47.3	63.9	28.7	45%
* The design reactions are factored by 1.35 per ANSI/TIA-222-H, Sec. 15.6.2				

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
298.0	Commscope CBC1921x-DS-2X	ALLTEL COMMUNICATIONS, LLC	0.160	0.001	0.045
	Commscope TD-850B-LTE78-43				
	Ericsson 8843 Rev 2				
	Ericsson AIR 6449 B77D/ C-Band				
	Ericsson Radio 4449 - B13&B5				
	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.

Quadrant 1

300.00

290.00 Sect 33

280.00

Sect 27

260.00

Sect 26

240.00

Sect 25

230.00

220.00

Sect 19

200.00

Sect 18

180.00

Sect 17

160.00

Sect 16

140.00

Sect 15

120.00

Sect 14

110.00

100.00

Sect 8

80.00

Sect 7

60.00

Sect 6

40.00

Sect 5

20.00

22.00

Sect 2

2.00



(2) 9/16 EHS
IT = 10%

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Loads: 116 mph no ice
30 mph w/ 1/4" radial ice
Site Class: D Ss: 0.09 S1: 0.05
60 mph Serviceability

(2) 5/8 EHS @ 228.3
IT = 10%

5/8 EHS @ 170.0
IT = 10%

(2) 1/2 EHS @ 108.3
IT = 10%

9/16 EHS @ 50.0
IT = 10%

R: 170.00

R: 241.00

Job Information

Client : ALLTEL COMMUNICATIONS, LLC

Tower : 97139

Location : HIGHWAY 441

Base Width : 3.50 ft

Code : ANSI/TIA-222-H

Topo Method: Method 1

Risk Cat : II

Topo: 1

Tower Ht : 300.00 ft

Exposure : B

Shape : Triangle

Sections Properties

Section	Leg Members	Diagonal Members	Horizontal Members
1	CHN 50 ksi C6 x 10.5		CHN 36 ksi C6 x 10.5
2 - 3	PLA 50 ksi M46-65 LEG	PLA 36 ksi M46-Y LACING	
4	PLA 50 ksi M46-65 LEG	PLA 36 ksi M46-LN LACING	
5	PLA 50 ksi M46-65 LEG	PLA 36 ksi M46-Y LACING	
6	PLA 50 ksi M46-66 LEG	PLA 36 ksi M46-Y LACING	
7 - 8	PLA 50 ksi M46-65 LEG	PLA 36 ksi M46-Y LACING	
9 - 14	PLA 50 ksi M46-76 LEG	PLA 36 ksi M46-T LACING	
15 - 16	PLA 50 ksi M46-65 LEG	PLA 36 ksi M46-Y LACING	
17	PLA 50 ksi M46-64 LEG	PLA 36 ksi M46-Y LACING	
18 - 19	PLA 50 ksi M46-54 LEG	PLA 36 ksi M46-Y LACING	
20 - 24	PLA 50 ksi M46-65 LEG	PLA 36 ksi M46-T LACING	SAE 36 ksi 2X2X0.375
25	PLA 50 ksi M46-65 LEG	PLA 36 ksi M46-T LACING	
26 - 27	PLA 50 ksi M46-64 LEG	PLA 36 ksi M46-Y LACING	
28 - 32	PLA 50 ksi M46-54 LEG	PLA 36 ksi M46-Y LACING	SAE 36 ksi 2X2X0.375
33	PLA 50 ksi M46-54 LEG	PLA 36 ksi M46-Y LACING	

Discrete Appurtenance

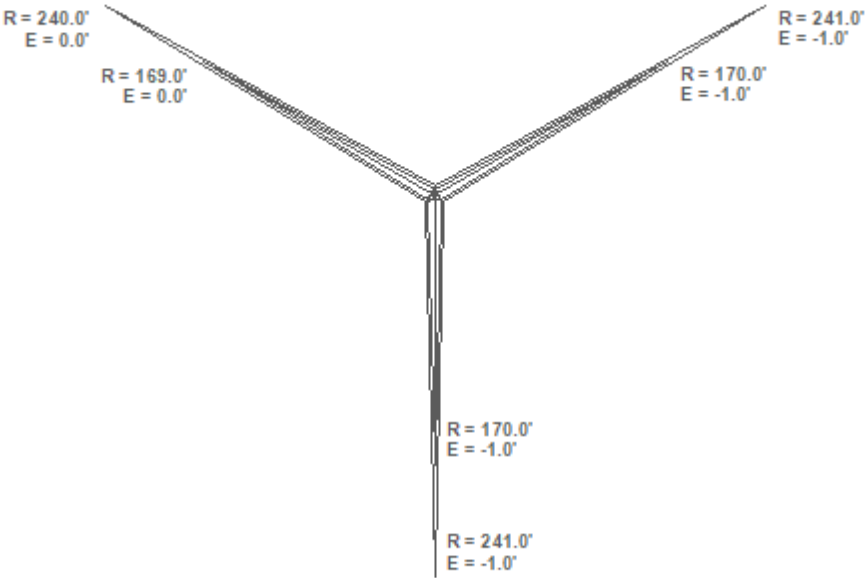
Elev (ft)	Type	Qty	Description
298.00	Mounting Frame	3	Round Sector Frame
298.00	Panel	6	Commscope NHH-65C-R2B
298.00	Panel	3	Ericsson AIR 6449 B77D/ C-Band
298.00		2	Raycap RVZDC-6627-PF-48
298.00		3	Commscope TD-850B-LTE78-43
298.00		3	Ericsson Radio 4449 - B13&B5
298.00		3	Ericsson 8843 Rev 2
298.00		5	Commscope CBC1921x-DS-2X
288.00	Other	1	Torque Arms
228.00	Other	1	Torque Arms
108.00	Other	1	Torque Arms

Linear Appurtenance

Elev (ft)	From	To	Qty	Description
	0.00	300.00	1	Climbing Ladder
	0.00	298.00	1	3" conduit
	0.00	298.00	2	1 5/8" Hybriflex
	0.00	298.00	10	1 5/8" Coax

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Job Information		
Client : ALLTEL COMMUNICATIONS, LLC		
Tower : 97139	Location : HIGHWAY 441	Base Width : 3.50 ft
Code : ANSI/TIA-222-H	Topo Method: Method 1	
Risk Cat : II	Topo: 1	Tower Ht : 300.00 ft
	Exposure : B	Shape : Triangle



Guy Anchor Design Loads				
Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (kip)	Shear (kip)
170.00	-1.00	0	15.65	23.93
169.00	0.00	240	15.62	23.97
170.00	-1.00	120	15.64	23.93
241.00	-1.00	0	29.32	28.66
240.00	0.00	240	29.32	28.66
241.00	-1.00	120	29.29	28.63

Global Base Foundation Design Loads	
Vertical (kip)	Horizontal (kip)
106.41	0.89

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Analysis Parameters

Location:	Columbia County, FL	Height (ft):	300
Code:	ANSI/TIA-222-H	Base Elevation (ft):	0.00
Shape:	Triangle	Bottom Face Width (ft):	3.50
Tower Manufacturer:	Andrew Corp	Top Face Width (ft):	3.50
Tower Type:	Guyed		
Kd:	0.85		
Ke:	1.00		

Ice & Wind Parameters

Exposure Category:	B	Design Windspeed Without Ice:	116 mph
Risk Category:	II	Design Windspeed With Ice:	30 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	1	Design Ice Thickness:	0.25 in
Crest Height:	0 ft	HMSL:	123.00 ft

Seismic Parameters

Analysis Method: Equivalent Lateral Force Method

Site Class: D - Stiff Soil

Period Based on Rayleigh Method (sec): 0.66

T_L (sec):	8	p:	1.3	C_S :	0.033
S_S :	0.094	S_1 :	0.054	C_S , Max:	0.043
F_a :	1.600	F_v :	2.400	C_S , Min:	0.030
S_{ds} :	0.100	S_{d1} :	0.086		

Load Cases

1.2D + 1.0W Normal	116 mph Normal with No Ice
1.2D + 1.0W 60 deg	116 mph 60 degree with No Ice
1.2D + 1.0W 90 deg	116 mph 90 degree with No Ice
1.2D + 1.0W 120 deg	116 mph 120 degree with No Ice
1.2D + 1.0W 180 deg	116 mph 180 degree with No Ice
1.2D + 1.0W 210 deg	116 mph 210 degree with No Ice
1.2D + 1.0W 240 deg	116 mph 240 degree with No Ice
1.2D + 1.0W 300 deg	116 mph 300 degree with No Ice
1.2D + 1.0W 330 deg	116 mph 330 degree with No Ice
1.2D + 1.0Di + 1.0Wi Normal	30 mph Normal with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 60 deg	30 mph 60 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 90 deg	30 mph 90 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 120 deg	30 mph 120 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 180 deg	30 mph 180 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 210 deg	30 mph 210 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 240 deg	30 mph 240 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 300 deg	30 mph 300 deg with 0.25 in Radial Ice
1.2D + 1.0Di + 1.0Wi 330 deg	30 mph 330 deg with 0.25 in Radial Ice

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Analysis Parameters

1.2D + 1.0Ev + 1.0Eh Normal	Seismic Normal
1.2D + 1.0Ev + 1.0Eh 60 deg	Seismic 60 deg
1.2D + 1.0Ev + 1.0Eh 90 deg	Seismic 90 deg
1.2D + 1.0Ev + 1.0Eh 120 deg	Seismic 120 deg
1.2D + 1.0Ev + 1.0Eh 180 deg	Seismic 180 deg
1.2D + 1.0Ev + 1.0Eh 210 deg	Seismic 210 deg
1.2D + 1.0Ev + 1.0Eh 240 deg	Seismic 240 deg
1.2D + 1.0Ev + 1.0Eh 300 deg	Seismic 300 deg
1.2D + 1.0Ev + 1.0Eh 330 deg	Seismic 330 deg
1.0D + 1.0W Service Normal	Serviceability - 60 mph Wind Normal
1.0D + 1.0W Service 60 deg	Serviceability - 60 mph Wind 60 deg
1.0D + 1.0W Service 90 deg	Serviceability - 60 mph Wind 90 deg
1.0D + 1.0W Service 120 deg	Serviceability - 60 mph Wind 120 deg
1.0D + 1.0W Service 180 deg	Serviceability - 60 mph Wind 180 deg
1.0D + 1.0W Service 210 deg	Serviceability - 60 mph Wind 210 deg
1.0D + 1.0W Service 240 deg	Serviceability - 60 mph Wind 240 deg
1.0D + 1.0W Service 300 deg	Serviceability - 60 mph Wind 300 deg
1.0D + 1.0W Service 330 deg	Serviceability - 60 mph Wind 330 deg

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Tower Loading**Discrete Appurtenance Properties** 1.2D + 1.0W

Elevation (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)
298.0	Commscope	5	16	0.5	0.6	7.6	5.5	0.80	0.50	0.0	0.0	39.35	32	98
298.0	Commscope NHH-	6	52	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.0	39.35	1280	372
298.0	Commscope TD-	3	53	2.0	1.3	15.3	6.4	0.80	0.50	0.0	0.0	39.35	79	191
298.0	Ericsson 8843 Rev 2	3	75	1.6	1.3	13.2	11.1	0.80	0.50	0.0	0.0	39.35	66	270
298.0	Ericsson AIR 6449	3	82	4.0	2.5	15.9	10.6	0.80	0.70	0.0	0.0	39.35	226	294
298.0	Ericsson Radio 4449	3	70	1.6	1.3	13.2	9.3	0.80	0.50	0.0	0.0	39.35	66	252
298.0	Raycap RVZDC-6627-	2	32	3.8	2.4	15.7	10.3	0.80	0.77	0.0	0.0	39.35	156	77
298.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	39.35	813	1080
288.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	38.97	497	600
228.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	36.46	465	600
108.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	29.45	375	600
Totals		31	3694	194.4									4056	4433

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elevation (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)
298.0	Commscope	5	20	0.6	0.6	7.6	5.5	0.80	0.50	0.0	0.0	2.63	3	114
298.0	Commscope NHH-	6	92	12.0	8.0	11.9	7.1	0.80	0.70	0.0	0.0	2.63	90	617
298.0	Commscope TD-	3	63	2.1	1.3	15.3	6.4	0.80	0.50	0.0	0.0	2.63	6	219
298.0	Ericsson 8843 Rev 2	3	86	1.8	1.3	13.2	11.1	0.80	0.50	0.0	0.0	2.63	5	303
298.0	Ericsson AIR 6449	3	102	4.3	2.5	15.9	10.6	0.80	0.70	0.0	0.0	2.63	16	356
298.0	Ericsson Radio 4449	3	80	1.8	1.3	13.2	9.3	0.80	0.50	0.0	0.0	2.63	5	282
298.0	Raycap RVZDC-6627-	2	52	4.0	2.4	15.7	10.3	0.80	0.77	0.0	0.0	2.63	11	116
298.0	Round Sector Frame	3	366	17.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	2.63	66	1277
288.0	Torque Arms	1	562	16.9	0.0	0.0	0.0	1.00	1.00	0.0	0.0	2.61	37	662
228.0	Torque Arms	1	561	16.8	0.0	0.0	0.0	1.00	1.00	0.0	0.0	2.44	35	661
108.0	Torque Arms	1	556	16.7	0.0	0.0	0.0	1.00	1.00	0.0	0.0	1.97	28	656
Totals		31	4525	215.1									301	5264

Discrete Appurtenance Properties 1.0D + 1.0W Service

Elevation (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)
298.0	Commscope	5	16	0.5	0.6	7.6	5.5	0.80	0.50	0.0	0.0	10.53	9	82
298.0	Commscope NHH-	6	52	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.0	10.53	342	310
298.0	Commscope TD-	3	53	2.0	1.3	15.3	6.4	0.80	0.50	0.0	0.0	10.53	21	159
298.0	Ericsson 8843 Rev 2	3	75	1.6	1.3	13.2	11.1	0.80	0.50	0.0	0.0	10.53	18	225
298.0	Ericsson AIR 6449	3	82	4.0	2.5	15.9	10.6	0.80	0.70	0.0	0.0	10.53	61	245
298.0	Ericsson Radio 4449	3	70	1.6	1.3	13.2	9.3	0.80	0.50	0.0	0.0	10.53	18	210
298.0	Raycap RVZDC-6627-	2	32	3.8	2.4	15.7	10.3	0.80	0.77	0.0	0.0	10.53	42	64
298.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	10.53	217	900
288.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	10.43	133	500
228.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	9.75	124	500
108.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	7.88	100	500
Totals		31	3694	194.4									1085	3694

Site Number: 97139

Code: ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Tower Loading

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	300.0	Climbing Ladder	1	2.00	6.90	100	2	Individual	0.00	N	1.00	1.00	0.00
0.00	298.0	1 5/8" Coax	10	1.98	0.82	80	1	Block	0.00	N	1.00	1.00	0.00
0.00	298.0	1 5/8" Hybriflex	2	1.98	1.30	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	298.0	3" conduit	1	3.50	7.58	100	1	Individual	0.00	N	1.00	1.00	0.00

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces**LoadCase 1.2D + 1.0W Normal****116 mph Normal with No Ice**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	39.24	7.905	0.000	0.000	0.211	2.56	1.00	1.00	0.0	7.90	20.23	0.00	566	0	675	514	1189
32	289.17	39.02	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	161	0	141	105	246
31	287.50	38.95	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	161	0	140	105	245
30	285.83	38.89	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	161	0	141	104	245
29	284.17	38.82	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	161	0	140	104	244
28	281.67	38.73	3.174	0.000	0.000	0.254	2.43	1.00	1.00	0.0	3.17	7.70	0.00	263	0	253	208	461
27	270.00	38.26	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1263	0	1387	1233	2620
26	250.00	37.43	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1263	0	1357	1206	2563
25	235.00	36.77	9.680	0.000	0.000	0.256	2.42	1.00	1.00	0.0	9.68	23.41	0.00	748	0	732	592	1324
24	229.17	36.51	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	184	0	145	98	243
23	227.50	36.43	2.102	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.64	0.00	184	0	144	98	242
22	225.83	36.36	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	184	0	145	98	242
21	224.17	36.28	2.103	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.65	0.00	184	0	143	97	241
20	221.67	36.16	3.768	0.000	0.000	0.299	2.30	1.00	1.00	0.0	3.77	8.66	0.00	309	0	266	194	460
19	210.00	35.61	15.809	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	1221	0	1225	1148	2372
18	190.00	34.61	15.806	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.46	0.00	1221	0	1190	1115	2305
17	170.00	33.52	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1304	0	1245	1080	2325
16	150.00	32.35	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1364	0	1172	1042	2215
15	130.00	31.05	16.941	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.64	0.00	1364	0	1125	1001	2126
14	115.00	29.98	10.315	0.000	0.000	0.271	2.38	1.00	1.00	0.0	10.31	24.52	0.00	836	0	625	483	1108
13	109.17	29.54	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	102	79	181
12	107.50	29.41	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	101	79	180
11	105.83	29.28	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	101	79	179
10	104.17	29.15	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	100	78	179
9	101.67	28.94	3.443	0.000	0.000	0.271	2.38	1.00	1.00	0.0	3.44	8.18	0.00	279	0	201	155	357
8	90.00	27.95	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1364	0	1013	834	1848
7	70.00	26.02	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1364	0	943	776	1720
6	50.00	23.63	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1506	0	878	705	1583
5	33.33	21.05	11.296	0.000	0.000	0.224	2.52	1.00	1.00	0.0	11.30	28.43	0.00	909	0	509	419	927
4	26.00	20.41	0.738	0.746	0.000	0.295	2.31	1.00	1.00	0.0	1.22	2.82	0.00	107	0	49	41	89
3	23.67	20.41	2.824	0.000	0.000	0.224	2.52	1.00	1.00	0.0	2.82	7.11	0.00	227	0	123	101	225
2	12.00	20.41	16.921	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.92	42.60	0.00	1364	0	739	609	1348
1	1.00	20.41	4.343	0.000	0.000	0.965	2.03	1.00	1.00	0.0	4.34	8.82	0.00	300	0	153	15	164
														21079	0			
																	31996	**

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0W 60 deg**116 mph 60 degree with No Ice**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	39.24	7.905	0.000	0.000	0.211	2.56	0.80	1.00	0.0	6.32	16.19	0.00	566	0	540	514	1054
32	289.17	39.02	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	161	0	113	105	218
31	287.50	38.95	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	161	0	112	105	217
30	285.83	38.89	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	161	0	113	104	217
29	284.17	38.82	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	161	0	112	104	216
28	281.67	38.73	3.174	0.000	0.000	0.254	2.43	0.80	1.00	0.0	2.54	6.16	0.00	263	0	203	208	411
27	270.00	38.26	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1263	0	1110	1233	2342
26	250.00	37.43	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1263	0	1085	1206	2291
25	235.00	36.77	9.680	0.000	0.000	0.256	2.42	0.80	1.00	0.0	7.74	18.73	0.00	748	0	585	592	1178
24	229.17	36.51	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	184	0	116	98	214

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:26:59 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

23	227.50	36.43	2.102	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	184	0	115	98	213
22	225.83	36.36	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	184	0	116	98	213
21	224.17	36.28	2.103	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	184	0	115	97	212
20	221.67	36.16	3.768	0.000	0.000	0.299	2.30	0.80	1.00	0.0	3.01	6.93	0.00	309	0	213	194	407
19	210.00	35.61	15.809	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	1221	0	980	1148	2127
18	190.00	34.61	15.806	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.64	32.37	0.00	1221	0	952	1115	2067
17	170.00	33.52	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1304	0	996	1080	2076
16	150.00	32.35	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1364	0	938	1042	1980
15	130.00	31.05	16.941	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.55	34.11	0.00	1364	0	900	1001	1901
14	115.00	29.98	10.315	0.000	0.000	0.271	2.38	0.80	1.00	0.0	8.25	19.61	0.00	836	0	500	483	983
13	109.17	29.54	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	81	79	161
12	107.50	29.41	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	81	79	160
11	105.83	29.28	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	81	79	159
10	104.17	29.15	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	80	78	159
9	101.67	28.94	3.443	0.000	0.000	0.271	2.38	0.80	1.00	0.0	2.75	6.54	0.00	279	0	161	155	316
8	90.00	27.95	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1364	0	811	834	1645
7	70.00	26.02	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1364	0	754	776	1531
6	50.00	23.63	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1506	0	702	705	1407
5	33.33	21.05	11.296	0.000	0.000	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	909	0	407	419	826
4	26.00	20.41	0.738	0.746	0.000	0.295	2.31	0.80	1.00	0.0	1.07	2.47	0.00	107	0	43	41	84
3	23.67	20.41	2.824	0.000	0.000	0.224	2.52	0.80	1.00	0.0	2.26	5.69	0.00	227	0	99	101	200
2	12.00	20.41	16.921	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.54	34.08	0.00	1364	0	591	609	1200
1	1.00	20.41	4.343	0.000	0.000	0.965	2.03	0.80	1.00	0.0	3.47	7.06	0.00	300	0	122	15	138
														21079	0	28524		

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0W 90 deg

116 mph 90 degree with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	39.24	7.905	0.000	0.000	0.211	2.56	0.85	1.00	0.0	6.72	17.20	0.00	566	0	574	514	1087
32	289.17	39.02	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	161	0	120	105	225
31	287.50	38.95	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	161	0	119	105	224
30	285.83	38.89	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	161	0	120	104	224
29	284.17	38.82	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	161	0	119	104	223
28	281.67	38.73	3.174	0.000	0.000	0.254	2.43	0.85	1.00	0.0	2.70	6.54	0.00	263	0	215	208	423
27	270.00	38.26	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1263	0	1179	1233	2412
26	250.00	37.43	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1263	0	1153	1206	2359
25	235.00	36.77	9.680	0.000	0.000	0.256	2.42	0.85	1.00	0.0	8.23	19.90	0.00	748	0	622	592	1215
24	229.17	36.51	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	184	0	123	98	221
23	227.50	36.43	2.102	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	184	0	122	98	220
22	225.83	36.36	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	184	0	123	98	221
21	224.17	36.28	2.103	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	184	0	122	97	219
20	221.67	36.16	3.768	0.000	0.000	0.299	2.30	0.85	1.00	0.0	3.20	7.36	0.00	309	0	226	194	420
19	210.00	35.61	15.809	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	1221	0	1041	1148	2189
18	190.00	34.61	15.806	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.39	0.00	1221	0	1012	1115	2127
17	170.00	33.52	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1304	0	1058	1080	2138
16	150.00	32.35	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1364	0	997	1042	2039
15	130.00	31.05	16.941	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.24	0.00	1364	0	957	1001	1957
14	115.00	29.98	10.315	0.000	0.000	0.271	2.38	0.85	1.00	0.0	8.77	20.84	0.00	836	0	531	483	1014
13	109.17	29.54	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	86	79	166
12	107.50	29.41	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	86	79	165
11	105.83	29.28	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	86	79	164
10	104.17	29.15	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	85	78	164
9	101.67	28.94	3.443	0.000	0.000	0.271	2.38	0.85	1.00	0.0	2.93	6.95	0.00	279	0	171	155	327
8	90.00	27.95	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1364	0	861	834	1696
7	70.00	26.02	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1364	0	802	776	1578
6	50.00	23.63	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1506	0	746	705	1451

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

5	33.33	21.05	11.296	0.000	0.000	0.224	2.52	0.85	1.00	0.0	9.60	24.17	0.00	909	0	432	419	851
4	26.00	20.41	0.738	0.746	0.000	0.295	2.31	0.85	1.00	0.0	1.11	2.56	0.00	107	0	44	41	85
3	23.67	20.41	2.824	0.000	0.000	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	227	0	105	101	206
2	12.00	20.41	16.921	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.38	36.21	0.00	1364	0	628	609	1237
1	1.00	20.41	4.343	0.000	0.000	0.965	2.03	0.85	1.00	0.0	3.69	7.50	0.00	300	0	130	15	145

** = Section Force Exceeds Solidity Ratio Criteria

21079 0 29393

LoadCase 1.2D + 1.0W 120 deg

116 mph 120 degree with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33 295.00	39.24	7.905	0.000	0.000	0.211	2.56	1.00	1.00	0.0	7.90	20.23	0.00	566	0	675	514	1189
32 289.17	39.02	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	161	0	141	105	246
31 287.50	38.95	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	161	0	140	105	245
30 285.83	38.89	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	161	0	141	104	245
29 284.17	38.82	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	161	0	140	104	244
28 281.67	38.73	3.174	0.000	0.000	0.254	2.43	1.00	1.00	0.0	3.17	7.70	0.00	263	0	253	208	461
27 270.00	38.26	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1263	0	1387	1233	2620
26 250.00	37.43	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1263	0	1357	1206	2563
25 235.00	36.77	9.680	0.000	0.000	0.256	2.42	1.00	1.00	0.0	9.68	23.41	0.00	748	0	732	592	1324
24 229.17	36.51	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	184	0	145	98	243
23 227.50	36.43	2.102	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.64	0.00	184	0	144	98	242
22 225.83	36.36	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	184	0	145	98	242
21 224.17	36.28	2.103	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.65	0.00	184	0	143	97	241
20 221.67	36.16	3.768	0.000	0.000	0.299	2.30	1.00	1.00	0.0	3.77	8.66	0.00	309	0	266	194	460
19 210.00	35.61	15.809	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	1221	0	1225	1148	2372
18 190.00	34.61	15.806	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.46	0.00	1221	0	1190	1115	2305
17 170.00	33.52	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1304	0	1245	1080	2325
16 150.00	32.35	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1364	0	1172	1042	2215
15 130.00	31.05	16.941	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.64	0.00	1364	0	1125	1001	2126
14 115.00	29.98	10.315	0.000	0.000	0.271	2.38	1.00	1.00	0.0	10.31	24.52	0.00	836	0	625	483	1108
13 109.17	29.54	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	102	79	181
12 107.50	29.41	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	101	79	180
11 105.83	29.28	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	101	79	179
10 104.17	29.15	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	100	78	179
9 101.67	28.94	3.443	0.000	0.000	0.271	2.38	1.00	1.00	0.0	3.44	8.18	0.00	279	0	201	155	357
8 90.00	27.95	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1364	0	1013	834	1848
7 70.00	26.02	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1364	0	943	776	1720
6 50.00	23.63	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1506	0	878	705	1583
5 33.33	21.05	11.296	0.000	0.000	0.224	2.52	1.00	1.00	0.0	11.30	28.43	0.00	909	0	509	419	927
4 26.00	20.41	0.738	0.746	0.000	0.295	2.31	1.00	1.00	0.0	1.22	2.82	0.00	107	0	49	41	89
3 23.67	20.41	2.824	0.000	0.000	0.224	2.52	1.00	1.00	0.0	2.82	7.11	0.00	227	0	123	101	225
2 12.00	20.41	16.921	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.92	42.60	0.00	1364	0	739	609	1348
1 1.00	20.41	4.343	0.000	0.000	0.965	2.03	1.00	1.00	0.0	4.34	8.82	0.00	300	0	153	15	164

** = Section Force Exceeds Solidity Ratio Criteria

21079 0 31996

LoadCase 1.2D + 1.0W 180 deg

116 mph 180 degree with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33 295.00	39.24	7.905	0.000	0.000	0.211	2.56	0.80	1.00	0.0	6.32	16.19	0.00	566	0	540	514	1054
32 289.17	39.02	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	161	0	113	105	218

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

31	287.50	38.95	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	161	0	112	105	217
30	285.83	38.89	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	161	0	113	104	217
29	284.17	38.82	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	161	0	112	104	216
28	281.67	38.73	3.174	0.000	0.000	0.254	2.43	0.80	1.00	0.0	2.54	6.16	0.00	263	0	203	208	411
27	270.00	38.26	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1263	0	1110	1233	2342
26	250.00	37.43	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1263	0	1085	1206	2291
25	235.00	36.77	9.680	0.000	0.000	0.256	2.42	0.80	1.00	0.0	7.74	18.73	0.00	748	0	585	592	1178
24	229.17	36.51	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	184	0	116	98	214
23	227.50	36.43	2.102	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	184	0	115	98	213
22	225.83	36.36	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	184	0	116	98	213
21	224.17	36.28	2.103	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	184	0	115	97	212
20	221.67	36.16	3.768	0.000	0.000	0.299	2.30	0.80	1.00	0.0	3.01	6.93	0.00	309	0	213	194	407
19	210.00	35.61	15.809	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	1221	0	980	1148	2127
18	190.00	34.61	15.806	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.64	32.37	0.00	1221	0	952	1115	2067
17	170.00	33.52	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1304	0	996	1080	2076
16	150.00	32.35	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1364	0	938	1042	1980
15	130.00	31.05	16.941	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.55	34.11	0.00	1364	0	900	1001	1901
14	115.00	29.98	10.315	0.000	0.000	0.271	2.38	0.80	1.00	0.0	8.25	19.61	0.00	836	0	500	483	983
13	109.17	29.54	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	81	79	161
12	107.50	29.41	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	81	79	160
11	105.83	29.28	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	81	79	159
10	104.17	29.15	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	80	78	159
9	101.67	28.94	3.443	0.000	0.000	0.271	2.38	0.80	1.00	0.0	2.75	6.54	0.00	279	0	161	155	316
8	90.00	27.95	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1364	0	811	834	1645
7	70.00	26.02	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1364	0	754	776	1531
6	50.00	23.63	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1506	0	702	705	1407
5	33.33	21.05	11.296	0.000	0.000	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	909	0	407	419	826
4	26.00	20.41	0.738	0.746	0.000	0.295	2.31	0.80	1.00	0.0	1.07	2.47	0.00	107	0	43	41	84
3	23.67	20.41	2.824	0.000	0.000	0.224	2.52	0.80	1.00	0.0	2.26	5.69	0.00	227	0	99	101	200
2	12.00	20.41	16.921	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.54	34.08	0.00	1364	0	591	609	1200
1	1.00	20.41	4.343	0.000	0.000	0.965	2.03	0.80	1.00	0.0	3.47	7.06	0.00	300	0	122	15	138
														21079	0	28524		

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0W 210 deg

116 mph 210 degree with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	39.24	7.905	0.000	0.000	0.211	2.56	0.85	1.00	0.0	6.72	17.20	0.00	566	0	574	514	1087
32	289.17	39.02	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	161	0	120	105	225
31	287.50	38.95	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	161	0	119	105	224
30	285.83	38.89	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	161	0	120	104	224
29	284.17	38.82	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	161	0	119	104	223
28	281.67	38.73	3.174	0.000	0.000	0.254	2.43	0.85	1.00	0.0	2.70	6.54	0.00	263	0	215	208	423
27	270.00	38.26	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1263	0	1179	1233	2412
26	250.00	37.43	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1263	0	1153	1206	2359
25	235.00	36.77	9.680	0.000	0.000	0.256	2.42	0.85	1.00	0.0	8.23	19.90	0.00	748	0	622	592	1215
24	229.17	36.51	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	184	0	123	98	221
23	227.50	36.43	2.102	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	184	0	122	98	220
22	225.83	36.36	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	184	0	123	98	221
21	224.17	36.28	2.103	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	184	0	122	97	219
20	221.67	36.16	3.768	0.000	0.000	0.299	2.30	0.85	1.00	0.0	3.20	7.36	0.00	309	0	226	194	420
19	210.00	35.61	15.809	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	1221	0	1041	1148	2189
18	190.00	34.61	15.806	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.39	0.00	1221	0	1012	1115	2127
17	170.00	33.52	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1304	0	1058	1080	2138
16	150.00	32.35	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1364	0	997	1042	2039
15	130.00	31.05	16.941	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.24	0.00	1364	0	957	1001	1957
14	115.00	29.98	10.315	0.000	0.000	0.271	2.38	0.85	1.00	0.0	8.77	20.84	0.00	836	0	531	483	1014

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

13	109.17	29.54	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	86	79	166
12	107.50	29.41	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	86	79	165
11	105.83	29.28	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	86	79	164
10	104.17	29.15	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	85	78	164
9	101.67	28.94	3.443	0.000	0.000	0.271	2.38	0.85	1.00	0.0	2.93	6.95	0.00	279	0	171	155	327
8	90.00	27.95	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1364	0	861	834	1696
7	70.00	26.02	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1364	0	802	776	1578
6	50.00	23.63	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1506	0	746	705	1451
5	33.33	21.05	11.296	0.000	0.000	0.224	2.52	0.85	1.00	0.0	9.60	24.17	0.00	909	0	432	419	851
4	26.00	20.41	0.738	0.746	0.000	0.295	2.31	0.85	1.00	0.0	1.11	2.56	0.00	107	0	44	41	85
3	23.67	20.41	2.824	0.000	0.000	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	227	0	105	101	206
2	12.00	20.41	16.921	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.38	36.21	0.00	1364	0	628	609	1237
1	1.00	20.41	4.343	0.000	0.000	0.965	2.03	0.85	1.00	0.0	3.69	7.50	0.00	300	0	130	15	145
														21079	0			29393

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0W 240 deg

116 mph 240 degree with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	39.24	7.905	0.000	0.000	0.211	2.56	1.00	1.00	0.0	7.90	20.23	0.00	566	0	675	514	1189
32	289.17	39.02	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	161	0	141	105	246
31	287.50	38.95	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	161	0	140	105	245
30	285.83	38.89	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	161	0	141	104	245
29	284.17	38.82	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	161	0	140	104	244
28	281.67	38.73	3.174	0.000	0.000	0.254	2.43	1.00	1.00	0.0	3.17	7.70	0.00	263	0	253	208	461
27	270.00	38.26	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1263	0	1387	1233	2620
26	250.00	37.43	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1263	0	1357	1206	2563
25	235.00	36.77	9.680	0.000	0.000	0.256	2.42	1.00	1.00	0.0	9.68	23.41	0.00	748	0	732	592	1324
24	229.17	36.51	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	184	0	145	98	243
23	227.50	36.43	2.102	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.64	0.00	184	0	144	98	242
22	225.83	36.36	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	184	0	145	98	242
21	224.17	36.28	2.103	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.65	0.00	184	0	143	97	241
20	221.67	36.16	3.768	0.000	0.000	0.299	2.30	1.00	1.00	0.0	3.77	8.66	0.00	309	0	266	194	460
19	210.00	35.61	15.809	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	1221	0	1225	1148	2372
18	190.00	34.61	15.806	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.46	0.00	1221	0	1190	1115	2305
17	170.00	33.52	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1304	0	1245	1080	2325
16	150.00	32.35	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1364	0	1172	1042	2215
15	130.00	31.05	16.941	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.64	0.00	1364	0	1125	1001	2126
14	115.00	29.98	10.315	0.000	0.000	0.271	2.38	1.00	1.00	0.0	10.31	24.52	0.00	836	0	625	483	1108
13	109.17	29.54	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	102	79	181
12	107.50	29.41	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	101	79	180
11	105.83	29.28	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	101	79	179
10	104.17	29.15	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	139	0	100	78	179
9	101.67	28.94	3.443	0.000	0.000	0.271	2.38	1.00	1.00	0.0	3.44	8.18	0.00	279	0	201	155	357
8	90.00	27.95	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1364	0	1013	834	1848
7	70.00	26.02	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1364	0	943	776	1720
6	50.00	23.63	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1506	0	878	705	1583
5	33.33	21.05	11.296	0.000	0.000	0.224	2.52	1.00	1.00	0.0	11.30	28.43	0.00	909	0	509	419	927
4	26.00	20.41	0.738	0.746	0.000	0.295	2.31	1.00	1.00	0.0	1.22	2.82	0.00	107	0	49	41	89
3	23.67	20.41	2.824	0.000	0.000	0.224	2.52	1.00	1.00	0.0	2.82	7.11	0.00	227	0	123	101	225
2	12.00	20.41	16.921	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.92	42.60	0.00	1364	0	739	609	1348
1	1.00	20.41	4.343	0.000	0.000	0.965	2.03	1.00	1.00	0.0	4.34	8.82	0.00	300	0	153	15	164
														21079	0			31996

** = Section Force Exceeds Solidity Ratio Criteria

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces**LoadCase 1.2D + 1.0W 300 deg**

116 mph 300 degree with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	39.24	7.905	0.000	0.000	0.211	2.56	0.80	1.00	0.0	6.32	16.19	0.00	566	0	540	514	1054
32	289.17	39.02	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	161	0	113	105	218
31	287.50	38.95	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	161	0	112	105	217
30	285.83	38.89	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	161	0	113	104	217
29	284.17	38.82	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	161	0	112	104	216
28	281.67	38.73	3.174	0.000	0.000	0.254	2.43	0.80	1.00	0.0	2.54	6.16	0.00	263	0	203	208	411
27	270.00	38.26	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1263	0	1110	1233	2342
26	250.00	37.43	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1263	0	1085	1206	2291
25	235.00	36.77	9.680	0.000	0.000	0.256	2.42	0.80	1.00	0.0	7.74	18.73	0.00	748	0	585	592	1178
24	229.17	36.51	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	184	0	116	98	214
23	227.50	36.43	2.102	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	184	0	115	98	213
22	225.83	36.36	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	184	0	116	98	213
21	224.17	36.28	2.103	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	184	0	115	97	212
20	221.67	36.16	3.768	0.000	0.000	0.299	2.30	0.80	1.00	0.0	3.01	6.93	0.00	309	0	213	194	407
19	210.00	35.61	15.809	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	1221	0	980	1148	2127
18	190.00	34.61	15.806	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.64	32.37	0.00	1221	0	952	1115	2067
17	170.00	33.52	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1304	0	996	1080	2076
16	150.00	32.35	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1364	0	938	1042	1980
15	130.00	31.05	16.941	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.55	34.11	0.00	1364	0	900	1001	1901
14	115.00	29.98	10.315	0.000	0.000	0.271	2.38	0.80	1.00	0.0	8.25	19.61	0.00	836	0	500	483	983
13	109.17	29.54	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	81	79	161
12	107.50	29.41	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	81	79	160
11	105.83	29.28	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	81	79	159
10	104.17	29.15	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	139	0	80	78	159
9	101.67	28.94	3.443	0.000	0.000	0.271	2.38	0.80	1.00	0.0	2.75	6.54	0.00	279	0	161	155	316
8	90.00	27.95	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1364	0	811	834	1645
7	70.00	26.02	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1364	0	754	776	1531
6	50.00	23.63	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1506	0	702	705	1407
5	33.33	21.05	11.296	0.000	0.000	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	909	0	407	419	826
4	26.00	20.41	0.738	0.746	0.000	0.295	2.31	0.80	1.00	0.0	1.07	2.47	0.00	107	0	43	41	84
3	23.67	20.41	2.824	0.000	0.000	0.224	2.52	0.80	1.00	0.0	2.26	5.69	0.00	227	0	99	101	200
2	12.00	20.41	16.921	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.54	34.08	0.00	1364	0	591	609	1200
1	1.00	20.41	4.343	0.000	0.000	0.965	2.03	0.80	1.00	0.0	3.47	7.06	0.00	300	0	122	15	138
															21079	0		28524

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0W 330 deg

116 mph 330 degree with No Ice

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	39.24	7.905	0.000	0.000	0.211	2.56	0.85	1.00	0.0	6.72	17.20	0.00	566	0	574	514	1087
32	289.17	39.02	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	161	0	120	105	225
31	287.50	38.95	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	161	0	119	105	224
30	285.83	38.89	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	161	0	120	104	224
29	284.17	38.82	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	161	0	119	104	223
28	281.67	38.73	3.174	0.000	0.000	0.254	2.43	0.85	1.00	0.0	2.70	6.54	0.00	263	0	215	208	423
27	270.00	38.26	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1263	0	1179	1233	2412
26	250.00	37.43	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1263	0	1153	1206	2359
25	235.00	36.77	9.680	0.000	0.000	0.256	2.42	0.85	1.00	0.0	8.23	19.90	0.00	748	0	622	592	1215
24	229.17	36.51	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	184	0	123	98	221

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

23	227.50	36.43	2.102	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	184	0	122	98	220
22	225.83	36.36	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	184	0	123	98	221
21	224.17	36.28	2.103	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	184	0	122	97	219
20	221.67	36.16	3.768	0.000	0.000	0.299	2.30	0.85	1.00	0.0	3.20	7.36	0.00	309	0	226	194	420
19	210.00	35.61	15.809	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	1221	0	1041	1148	2189
18	190.00	34.61	15.806	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.39	0.00	1221	0	1012	1115	2127
17	170.00	33.52	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1304	0	1058	1080	2138
16	150.00	32.35	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1364	0	997	1042	2039
15	130.00	31.05	16.941	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.24	0.00	1364	0	957	1001	1957
14	115.00	29.98	10.315	0.000	0.000	0.271	2.38	0.85	1.00	0.0	8.77	20.84	0.00	836	0	531	483	1014
13	109.17	29.54	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	86	79	166
12	107.50	29.41	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	86	79	165
11	105.83	29.28	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	86	79	164
10	104.17	29.15	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	139	0	85	78	164
9	101.67	28.94	3.443	0.000	0.000	0.271	2.38	0.85	1.00	0.0	2.93	6.95	0.00	279	0	171	155	327
8	90.00	27.95	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1364	0	861	834	1696
7	70.00	26.02	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1364	0	802	776	1578
6	50.00	23.63	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1506	0	746	705	1451
5	33.33	21.05	11.296	0.000	0.000	0.224	2.52	0.85	1.00	0.0	9.60	24.17	0.00	909	0	432	419	851
4	26.00	20.41	0.738	0.746	0.000	0.295	2.31	0.85	1.00	0.0	1.11	2.56	0.00	107	0	44	41	85
3	23.67	20.41	2.824	0.000	0.000	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	227	0	105	101	206
2	12.00	20.41	16.921	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.38	36.21	0.00	1364	0	628	609	1237
1	1.00	20.41	4.343	0.000	0.000	0.965	2.03	0.85	1.00	0.0	3.69	7.50	0.00	300	0	130	15	145
														21079	0	29393		

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi Normal**30 mph Normal with 0.25 in Radial Ice**

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor 1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	2.62	7.905	2.542	2.542	0.275	2.36	1.00	1.00	0.3	10.45	24.70	2.54	670	104	55	48	103
32	289.17	2.61	1.848	0.604	0.604	0.387	2.09	1.00	1.00	0.3	2.45	5.12	0.60	193	32	11	9	20
31	287.50	2.61	1.830	0.604	0.604	0.384	2.10	1.00	1.00	0.3	2.43	5.10	0.60	193	32	11	9	20
30	285.83	2.60	1.848	0.603	0.603	0.387	2.09	1.00	1.00	0.3	2.45	5.12	0.60	193	32	11	9	20
29	284.17	2.60	1.830	0.603	0.603	0.384	2.10	1.00	1.00	0.3	2.43	5.10	0.60	193	32	11	9	20
28	281.67	2.59	3.174	1.024	1.024	0.332	2.22	1.00	1.00	0.3	4.20	9.30	1.02	316	53	20	19	39
27	270.00	2.56	16.945	5.038	5.038	0.287	2.33	1.00	1.00	0.3	21.98	51.24	5.04	1516	253	111	114	225
26	250.00	2.50	16.945	5.000	5.000	0.287	2.33	1.00	1.00	0.3	21.94	51.18	5.00	1514	251	109	111	220
25	235.00	2.46	9.680	2.485	2.485	0.318	2.25	1.00	1.00	0.3	12.16	27.37	2.48	872	125	57	54	111
24	229.17	2.44	2.127	0.590	0.590	0.426	2.01	1.00	1.00	0.3	2.72	5.47	0.59	215	31	11	7	19
23	227.50	2.44	2.102	0.590	0.590	0.422	2.02	1.00	1.00	0.3	2.69	5.44	0.59	215	31	11	8	19
22	225.83	2.43	2.127	0.589	0.589	0.426	2.01	1.00	1.00	0.3	2.72	5.47	0.59	215	31	11	7	19
21	224.17	2.43	2.103	0.589	0.589	0.422	2.02	1.00	1.00	0.3	2.69	5.44	0.59	215	31	11	8	19
20	221.67	2.42	3.768	1.000	1.000	0.374	2.12	1.00	1.00	0.3	4.77	10.10	1.00	360	52	21	16	37
19	210.00	2.38	15.809	4.913	4.913	0.273	2.37	1.00	1.00	0.3	20.72	49.13	4.91	1467	246	99	106	206
18	190.00	2.31	15.806	4.865	4.865	0.272	2.37	1.00	1.00	0.3	20.67	49.04	4.86	1464	243	96	103	200
17	170.00	2.24	17.528	4.983	4.983	0.294	2.31	1.00	1.00	0.3	22.51	52.03	4.98	1554	251	99	99	198
16	150.00	2.16	16.945	4.751	4.751	0.284	2.34	1.00	1.00	0.3	21.70	50.78	4.75	1601	237	93	96	189
15	130.00	2.08	16.941	4.683	4.683	0.283	2.34	1.00	1.00	0.3	21.62	50.67	4.68	1597	233	89	92	181
14	115.00	2.01	10.315	2.313	2.313	0.327	2.23	1.00	1.00	0.3	12.63	28.11	2.31	951	115	48	43	91
13	109.17	1.98	1.696	0.383	0.383	0.324	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
12	107.50	1.97	1.696	0.383	0.383	0.323	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
11	105.83	1.96	1.696	0.382	0.382	0.323	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
10	104.17	1.95	1.696	0.382	0.382	0.323	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
9	101.67	1.94	3.443	0.762	0.762	0.327	2.23	1.00	1.00	0.3	4.20	9.36	0.76	316	38	15	14	29
8	90.00	1.87	16.945	4.514	4.514	0.281	2.35	1.00	1.00	0.3	21.46	50.40	4.51	1588	224	80	82	163
7	70.00	1.74	16.945	4.402	4.402	0.279	2.35	1.00	1.00	0.3	21.35	50.22	4.40	1582	218	74	77	151
6	50.00	1.58	17.528	4.409	4.409	0.287	2.33	1.00	1.00	0.3	21.94	51.13	4.41	1724	219	69	69	138

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

5	33.33	1.41	11.296	2.725	2.725	0.275	2.36	1.00	1.00	0.3	14.02	33.14	2.72	1043	134	40	41	81
4	26.00	1.36	0.738	1.159	0.413	0.373	2.12	1.00	1.00	0.2	1.50	3.18	0.41	130	23	4	4	7
3	23.67	1.36	2.824	0.658	0.658	0.274	2.37	1.00	1.00	0.2	3.48	8.25	0.66	260	32	10	10	20
2	12.00	1.36	16.921	3.690	3.690	0.270	2.38	1.00	1.00	0.2	20.61	49.02	3.69	1543	179	57	60	116
1	1.00	1.36	4.343	0.270	0.270	1.000	2.10	1.00	1.00	0.2	4.61	9.69	0.27	340	40	11	0	11
														24678	3598			2728

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 60 deg

30 mph 60 deg with 0.25 in Radial Ice

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor 1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	2.62	7.905	2.542	2.542	0.275	2.36	0.80	1.00	0.3	8.87	20.96	2.54	670	104	47	48	94
32	289.17	2.61	1.848	0.604	0.604	0.387	2.09	0.80	1.00	0.3	2.08	4.35	0.60	193	32	10	9	18
31	287.50	2.61	1.830	0.604	0.604	0.384	2.10	0.80	1.00	0.3	2.07	4.33	0.60	193	32	10	9	18
30	285.83	2.60	1.848	0.603	0.603	0.387	2.09	0.80	1.00	0.3	2.08	4.35	0.60	193	32	10	9	18
29	284.17	2.60	1.830	0.603	0.603	0.384	2.10	0.80	1.00	0.3	2.07	4.33	0.60	193	32	10	9	18
28	281.67	2.59	3.174	1.024	1.024	0.332	2.22	0.80	1.00	0.3	3.56	7.89	1.02	316	53	17	19	36
27	270.00	2.56	16.945	5.038	5.038	0.287	2.33	0.80	1.00	0.3	18.59	43.34	5.04	1516	253	94	114	208
26	250.00	2.50	16.945	5.000	5.000	0.287	2.33	0.80	1.00	0.3	18.56	43.27	5.00	1514	251	92	111	203
25	235.00	2.46	9.680	2.485	2.485	0.318	2.25	0.80	1.00	0.3	10.23	23.01	2.48	872	125	48	54	102
24	229.17	2.44	2.127	0.590	0.590	0.426	2.01	0.80	1.00	0.3	2.29	4.62	0.59	215	31	10	7	17
23	227.50	2.44	2.102	0.590	0.590	0.422	2.02	0.80	1.00	0.3	2.27	4.59	0.59	215	31	10	8	17
22	225.83	2.43	2.127	0.589	0.589	0.426	2.01	0.80	1.00	0.3	2.29	4.62	0.59	215	31	10	7	17
21	224.17	2.43	2.103	0.589	0.589	0.422	2.02	0.80	1.00	0.3	2.27	4.59	0.59	215	31	9	8	17
20	221.67	2.42	3.768	1.000	1.000	0.374	2.12	0.80	1.00	0.3	4.01	8.50	1.00	360	52	17	16	34
19	210.00	2.38	15.809	4.913	4.913	0.273	2.37	0.80	1.00	0.3	17.56	41.63	4.91	1467	246	84	106	190
18	190.00	2.31	15.806	4.865	4.865	0.272	2.37	0.80	1.00	0.3	17.51	41.54	4.86	1464	243	82	103	185
17	170.00	2.24	17.528	4.983	4.983	0.294	2.31	0.80	1.00	0.3	19.00	43.93	4.98	1554	251	84	99	182
16	150.00	2.16	16.945	4.751	4.751	0.284	2.34	0.80	1.00	0.3	18.31	42.85	4.75	1601	237	79	96	174
15	130.00	2.08	16.941	4.683	4.683	0.283	2.34	0.80	1.00	0.3	18.24	42.73	4.68	1597	233	75	92	167
14	115.00	2.01	10.315	2.313	2.313	0.327	2.23	0.80	1.00	0.3	10.56	23.51	2.31	951	115	40	43	83
13	109.17	1.98	1.696	0.383	0.383	0.324	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	7	7	14
12	107.50	1.97	1.696	0.383	0.383	0.323	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	7	7	14
11	105.83	1.96	1.696	0.382	0.382	0.323	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	6	7	13
10	104.17	1.95	1.696	0.382	0.382	0.323	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	6	7	13
9	101.67	1.94	3.443	0.762	0.762	0.327	2.23	0.80	1.00	0.3	3.52	7.83	0.76	316	38	13	14	27
8	90.00	1.87	16.945	4.514	4.514	0.281	2.35	0.80	1.00	0.3	18.07	42.44	4.51	1588	224	67	82	150
7	70.00	1.74	16.945	4.402	4.402	0.279	2.35	0.80	1.00	0.3	17.96	42.25	4.40	1582	218	62	77	139
6	50.00	1.58	17.528	4.409	4.409	0.287	2.33	0.80	1.00	0.3	18.43	42.96	4.41	1724	219	58	69	127
5	33.33	1.41	11.296	2.725	2.725	0.275	2.36	0.80	1.00	0.3	11.76	27.80	2.72	1043	134	33	41	74
4	26.00	1.36	0.738	1.159	0.413	0.373	2.12	0.80	1.00	0.2	1.35	2.87	0.41	130	23	3	4	7
3	23.67	1.36	2.824	0.658	0.658	0.274	2.37	0.80	1.00	0.2	2.92	6.91	0.66	260	32	8	10	18
2	12.00	1.36	16.921	3.690	3.690	0.270	2.38	0.80	1.00	0.2	17.23	40.97	3.69	1543	179	48	60	107
1	1.00	1.36	4.343	0.270	0.270	1.000	2.10	0.80	1.00	0.2	3.74	7.86	0.27	340	40	9	0	9
														24678	3598			2512

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 90 deg

30 mph 90 deg with 0.25 in Radial Ice

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor 1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33 295.00	2.62	7.905	2.542	2.542	0.275	2.36	0.85	1.00	0.3	9.26	21.90	2.54	670	104	49	48	97
32 289.17	2.61	1.848	0.604	0.604	0.387	2.09	0.85	1.00	0.3	2.17	4.55	0.60	193	32	10	9	19

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

31	287.50	2.61	1.830	0.604	0.604	0.384	2.10	0.85	1.00	0.3	2.16	4.53	0.60	193	32	10	9	19
30	285.83	2.60	1.848	0.603	0.603	0.387	2.09	0.85	1.00	0.3	2.17	4.54	0.60	193	32	10	9	19
29	284.17	2.60	1.830	0.603	0.603	0.384	2.10	0.85	1.00	0.3	2.16	4.52	0.60	193	32	10	9	19
28	281.67	2.59	3.174	1.024	1.024	0.332	2.22	0.85	1.00	0.3	3.72	8.25	1.02	316	53	18	19	37
27	270.00	2.56	16.945	5.038	5.038	0.287	2.33	0.85	1.00	0.3	19.44	45.31	5.04	1516	253	99	114	212
26	250.00	2.50	16.945	5.000	5.000	0.287	2.33	0.85	1.00	0.3	19.40	45.25	5.00	1514	251	96	111	207
25	235.00	2.46	9.680	2.485	2.485	0.318	2.25	0.85	1.00	0.3	10.71	24.10	2.48	872	125	50	54	104
24	229.17	2.44	2.127	0.590	0.590	0.426	2.01	0.85	1.00	0.3	2.40	4.83	0.59	215	31	10	7	18
23	227.50	2.44	2.102	0.590	0.590	0.422	2.02	0.85	1.00	0.3	2.38	4.80	0.59	215	31	10	8	17
22	225.83	2.43	2.127	0.589	0.589	0.426	2.01	0.85	1.00	0.3	2.40	4.83	0.59	215	31	10	7	17
21	224.17	2.43	2.103	0.589	0.589	0.422	2.02	0.85	1.00	0.3	2.38	4.81	0.59	215	31	10	8	17
20	221.67	2.42	3.768	1.000	1.000	0.374	2.12	0.85	1.00	0.3	4.20	8.90	1.00	360	52	18	16	34
19	210.00	2.38	15.809	4.913	4.913	0.273	2.37	0.85	1.00	0.3	18.35	43.51	4.91	1467	246	88	106	194
18	190.00	2.31	15.806	4.865	4.865	0.272	2.37	0.85	1.00	0.3	18.30	43.42	4.86	1464	243	85	103	188
17	170.00	2.24	17.528	4.983	4.983	0.294	2.31	0.85	1.00	0.3	19.88	45.96	4.98	1554	251	88	99	186
16	150.00	2.16	16.945	4.751	4.751	0.284	2.34	0.85	1.00	0.3	19.15	44.83	4.75	1601	237	82	96	178
15	130.00	2.08	16.941	4.683	4.683	0.283	2.34	0.85	1.00	0.3	19.08	44.71	4.68	1597	233	79	92	171
14	115.00	2.01	10.315	2.313	2.313	0.327	2.23	0.85	1.00	0.3	11.08	24.66	2.31	951	115	42	43	85
13	109.17	1.98	1.696	0.383	0.383	0.324	2.24	0.85	1.00	0.3	1.83	4.08	0.38	158	19	7	7	14
12	107.50	1.97	1.696	0.383	0.383	0.323	2.24	0.85	1.00	0.3	1.82	4.08	0.38	158	19	7	7	14
11	105.83	1.96	1.696	0.382	0.382	0.323	2.24	0.85	1.00	0.3	1.82	4.08	0.38	158	19	7	7	14
10	104.17	1.95	1.696	0.382	0.382	0.323	2.24	0.85	1.00	0.3	1.82	4.08	0.38	158	19	7	7	14
9	101.67	1.94	3.443	0.762	0.762	0.327	2.23	0.85	1.00	0.3	3.69	8.21	0.76	316	38	14	14	27
8	90.00	1.87	16.945	4.514	4.514	0.281	2.35	0.85	1.00	0.3	18.92	44.43	4.51	1588	224	71	82	153
7	70.00	1.74	16.945	4.402	4.402	0.279	2.35	0.85	1.00	0.3	18.81	44.24	4.40	1582	218	65	77	142
6	50.00	1.58	17.528	4.409	4.409	0.287	2.33	0.85	1.00	0.3	19.31	45.00	4.41	1724	219	60	69	130
5	33.33	1.41	11.296	2.725	2.725	0.275	2.36	0.85	1.00	0.3	12.33	29.13	2.72	1043	134	35	41	76
4	26.00	1.36	0.738	1.159	0.413	0.373	2.12	0.85	1.00	0.2	1.39	2.94	0.41	130	23	3	4	7
3	23.67	1.36	2.824	0.658	0.658	0.274	2.37	0.85	1.00	0.2	3.06	7.24	0.66	260	32	8	10	18
2	12.00	1.36	16.921	3.690	3.690	0.270	2.38	0.85	1.00	0.2	18.07	42.98	3.69	1543	179	50	60	109
1	1.00	1.36	4.343	0.270	0.270	1.000	2.10	0.85	1.00	0.2	3.96	8.32	0.27	340	40	10	0	10

** = Section Force Exceeds Solidity Ratio Criteria

24678 3598 2566

LoadCase 1.2D + 1.0Di + 1.0Wi 120 deg

30 mph 120 deg with 0.25 in Radial Ice

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor 1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	2.62	7.905	2.542	2.542	0.275	2.36	1.00	1.00	0.3	10.45	24.70	2.54	670	104	55	48	103
32	289.17	2.61	1.848	0.604	0.604	0.387	2.09	1.00	1.00	0.3	2.45	5.12	0.60	193	32	11	9	20
31	287.50	2.61	1.830	0.604	0.604	0.384	2.10	1.00	1.00	0.3	2.43	5.10	0.60	193	32	11	9	20
30	285.83	2.60	1.848	0.603	0.603	0.387	2.09	1.00	1.00	0.3	2.45	5.12	0.60	193	32	11	9	20
29	284.17	2.60	1.830	0.603	0.603	0.384	2.10	1.00	1.00	0.3	2.43	5.10	0.60	193	32	11	9	20
28	281.67	2.59	3.174	1.024	1.024	0.332	2.22	1.00	1.00	0.3	4.20	9.30	1.02	316	53	20	19	39
27	270.00	2.56	16.945	5.038	5.038	0.287	2.33	1.00	1.00	0.3	21.98	51.24	5.04	1516	253	111	114	225
26	250.00	2.50	16.945	5.000	5.000	0.287	2.33	1.00	1.00	0.3	21.94	51.18	5.00	1514	251	109	111	220
25	235.00	2.46	9.680	2.485	2.485	0.318	2.25	1.00	1.00	0.3	12.16	27.37	2.48	872	125	57	54	111
24	229.17	2.44	2.127	0.590	0.590	0.426	2.01	1.00	1.00	0.3	2.72	5.47	0.59	215	31	11	7	19
23	227.50	2.44	2.102	0.590	0.590	0.422	2.02	1.00	1.00	0.3	2.69	5.44	0.59	215	31	11	8	19
22	225.83	2.43	2.127	0.589	0.589	0.426	2.01	1.00	1.00	0.3	2.72	5.47	0.59	215	31	11	7	19
21	224.17	2.43	2.103	0.589	0.589	0.422	2.02	1.00	1.00	0.3	2.69	5.44	0.59	215	31	11	8	19
20	221.67	2.42	3.768	1.000	1.000	0.374	2.12	1.00	1.00	0.3	4.77	10.10	1.00	360	52	21	16	37
19	210.00	2.38	15.809	4.913	4.913	0.273	2.37	1.00	1.00	0.3	20.72	49.13	4.91	1467	246	99	106	206
18	190.00	2.31	15.806	4.865	4.865	0.272	2.37	1.00	1.00	0.3	20.67	49.04	4.86	1464	243	96	103	200
17	170.00	2.24	17.528	4.983	4.983	0.294	2.31	1.00	1.00	0.3	22.51	52.03	4.98	1554	251	99	99	198
16	150.00	2.16	16.945	4.751	4.751	0.284	2.34	1.00	1.00	0.3	21.70	50.78	4.75	1601	237	93	96	189
15	130.00	2.08	16.941	4.683	4.683	0.283	2.34	1.00	1.00	0.3	21.62	50.67	4.68	1597	233	89	92	181
14	115.00	2.01	10.315	2.313	2.313	0.327	2.23	1.00	1.00	0.3	12.63	28.11	2.31	951	115	48	43	91

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

13	109.17	1.98	1.696	0.383	0.383	0.324	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
12	107.50	1.97	1.696	0.383	0.383	0.323	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
11	105.83	1.96	1.696	0.382	0.382	0.323	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
10	104.17	1.95	1.696	0.382	0.382	0.323	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
9	101.67	1.94	3.443	0.762	0.762	0.327	2.23	1.00	1.00	0.3	4.20	9.36	0.76	316	38	15	14	29
8	90.00	1.87	16.945	4.514	4.514	0.281	2.35	1.00	1.00	0.3	21.46	50.40	4.51	1588	224	80	82	163
7	70.00	1.74	16.945	4.402	4.402	0.279	2.35	1.00	1.00	0.3	21.35	50.22	4.40	1582	218	74	77	151
6	50.00	1.58	17.528	4.409	4.409	0.287	2.33	1.00	1.00	0.3	21.94	51.13	4.41	1724	219	69	69	138
5	33.33	1.41	11.296	2.725	2.725	0.275	2.36	1.00	1.00	0.3	14.02	33.14	2.72	1043	134	40	41	81
4	26.00	1.36	0.738	1.159	0.413	0.373	2.12	1.00	1.00	0.2	1.50	3.18	0.41	130	23	4	4	7
3	23.67	1.36	2.824	0.658	0.658	0.274	2.37	1.00	1.00	0.2	3.48	8.25	0.66	260	32	10	10	20
2	12.00	1.36	16.921	3.690	3.690	0.270	2.38	1.00	1.00	0.2	20.61	49.02	3.69	1543	179	57	60	116
1	1.00	1.36	4.343	0.270	0.270	1.000	2.10	1.00	1.00	0.2	4.61	9.69	0.27	340	40	11	0	11
														24678	3598			2728

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 180 deg**30 mph 180 deg with 0.25 in Radial Ice**

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor 1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	2.62	7.905	2.542	2.542	0.275	2.36	0.80	1.00	0.3	8.87	20.96	2.54	670	104	47	48	94
32	289.17	2.61	1.848	0.604	0.604	0.387	2.09	0.80	1.00	0.3	2.08	4.35	0.60	193	32	10	9	18
31	287.50	2.61	1.830	0.604	0.604	0.384	2.10	0.80	1.00	0.3	2.07	4.33	0.60	193	32	10	9	18
30	285.83	2.60	1.848	0.603	0.603	0.387	2.09	0.80	1.00	0.3	2.08	4.35	0.60	193	32	10	9	18
29	284.17	2.60	1.830	0.603	0.603	0.384	2.10	0.80	1.00	0.3	2.07	4.33	0.60	193	32	10	9	18
28	281.67	2.59	3.174	1.024	1.024	0.332	2.22	0.80	1.00	0.3	3.56	7.89	1.02	316	53	17	19	36
27	270.00	2.56	16.945	5.038	5.038	0.287	2.33	0.80	1.00	0.3	18.59	43.34	5.04	1516	253	94	114	208
26	250.00	2.50	16.945	5.000	5.000	0.287	2.33	0.80	1.00	0.3	18.56	43.27	5.00	1514	251	92	111	203
25	235.00	2.46	9.680	2.485	2.485	0.318	2.25	0.80	1.00	0.3	10.23	23.01	2.48	872	125	48	54	102
24	229.17	2.44	2.127	0.590	0.590	0.426	2.01	0.80	1.00	0.3	2.29	4.62	0.59	215	31	10	7	17
23	227.50	2.44	2.102	0.590	0.590	0.422	2.02	0.80	1.00	0.3	2.27	4.59	0.59	215	31	10	8	17
22	225.83	2.43	2.127	0.589	0.589	0.426	2.01	0.80	1.00	0.3	2.29	4.62	0.59	215	31	10	7	17
21	224.17	2.43	2.103	0.589	0.589	0.422	2.02	0.80	1.00	0.3	2.27	4.59	0.59	215	31	9	8	17
20	221.67	2.42	3.768	1.000	1.000	0.374	2.12	0.80	1.00	0.3	4.01	8.50	1.00	360	52	17	16	34
19	210.00	2.38	15.809	4.913	4.913	0.273	2.37	0.80	1.00	0.3	17.56	41.63	4.91	1467	246	84	106	190
18	190.00	2.31	15.806	4.865	4.865	0.272	2.37	0.80	1.00	0.3	17.51	41.54	4.86	1464	243	82	103	185
17	170.00	2.24	17.528	4.983	4.983	0.294	2.31	0.80	1.00	0.3	19.00	43.93	4.98	1554	251	84	99	182
16	150.00	2.16	16.945	4.751	4.751	0.284	2.34	0.80	1.00	0.3	18.31	42.85	4.75	1601	237	79	96	174
15	130.00	2.08	16.941	4.683	4.683	0.283	2.34	0.80	1.00	0.3	18.24	42.73	4.68	1597	233	75	92	167
14	115.00	2.01	10.315	2.313	2.313	0.327	2.23	0.80	1.00	0.3	10.56	23.51	2.31	951	115	40	43	83
13	109.17	1.98	1.696	0.383	0.383	0.324	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	7	7	14
12	107.50	1.97	1.696	0.383	0.383	0.323	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	7	7	14
11	105.83	1.96	1.696	0.382	0.382	0.323	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	6	7	13
10	104.17	1.95	1.696	0.382	0.382	0.323	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	6	7	13
9	101.67	1.94	3.443	0.762	0.762	0.327	2.23	0.80	1.00	0.3	3.52	7.83	0.76	316	38	13	14	27
8	90.00	1.87	16.945	4.514	4.514	0.281	2.35	0.80	1.00	0.3	18.07	42.44	4.51	1588	224	67	82	150
7	70.00	1.74	16.945	4.402	4.402	0.279	2.35	0.80	1.00	0.3	17.96	42.25	4.40	1582	218	62	77	139
6	50.00	1.58	17.528	4.409	4.409	0.287	2.33	0.80	1.00	0.3	18.43	42.96	4.41	1724	219	58	69	127
5	33.33	1.41	11.296	2.725	2.725	0.275	2.36	0.80	1.00	0.3	11.76	27.80	2.72	1043	134	33	41	74
4	26.00	1.36	0.738	1.159	0.413	0.373	2.12	0.80	1.00	0.2	1.35	2.87	0.41	130	23	3	4	7
3	23.67	1.36	2.824	0.658	0.658	0.274	2.37	0.80	1.00	0.2	2.92	6.91	0.66	260	32	8	10	18
2	12.00	1.36	16.921	3.690	3.690	0.270	2.38	0.80	1.00	0.2	17.23	40.97	3.69	1543	179	48	60	107
1	1.00	1.36	4.343	0.270	0.270	1.000	2.10	0.80	1.00	0.2	3.74	7.86	0.27	340	40	9	0	9
														24678	3598			2512

** = Section Force Exceeds Solidity Ratio Criteria

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces**LoadCase 1.2D + 1.0Di + 1.0Wi 210 deg**

30 mph 210 deg with 0.25 in Radial Ice

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor 1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	2.62	7.905	2.542	2.542	0.275	2.36	0.85	1.00	0.3	9.26	21.90	2.54	670	104	49	48	97
32	289.17	2.61	1.848	0.604	0.604	0.387	2.09	0.85	1.00	0.3	2.17	4.55	0.60	193	32	10	9	19
31	287.50	2.61	1.830	0.604	0.604	0.384	2.10	0.85	1.00	0.3	2.16	4.53	0.60	193	32	10	9	19
30	285.83	2.60	1.848	0.603	0.603	0.387	2.09	0.85	1.00	0.3	2.17	4.54	0.60	193	32	10	9	19
29	284.17	2.60	1.830	0.603	0.603	0.384	2.10	0.85	1.00	0.3	2.16	4.52	0.60	193	32	10	9	19
28	281.67	2.59	3.174	1.024	1.024	0.332	2.22	0.85	1.00	0.3	3.72	8.25	1.02	316	53	18	19	37
27	270.00	2.56	16.945	5.038	5.038	0.287	2.33	0.85	1.00	0.3	19.44	45.31	5.04	1516	253	99	114	212
26	250.00	2.50	16.945	5.000	5.000	0.287	2.33	0.85	1.00	0.3	19.40	45.25	5.00	1514	251	96	111	207
25	235.00	2.46	9.680	2.485	2.485	0.318	2.25	0.85	1.00	0.3	10.71	24.10	2.48	872	125	50	54	104
24	229.17	2.44	2.127	0.590	0.590	0.426	2.01	0.85	1.00	0.3	2.40	4.83	0.59	215	31	10	7	18
23	227.50	2.44	2.102	0.590	0.590	0.422	2.02	0.85	1.00	0.3	2.38	4.80	0.59	215	31	10	8	17
22	225.83	2.43	2.127	0.589	0.589	0.426	2.01	0.85	1.00	0.3	2.40	4.83	0.59	215	31	10	7	17
21	224.17	2.43	2.103	0.589	0.589	0.422	2.02	0.85	1.00	0.3	2.38	4.81	0.59	215	31	10	8	17
20	221.67	2.42	3.768	1.000	1.000	0.374	2.12	0.85	1.00	0.3	4.20	8.90	1.00	360	52	18	16	34
19	210.00	2.38	15.809	4.913	4.913	0.273	2.37	0.85	1.00	0.3	18.35	43.51	4.91	1467	246	88	106	194
18	190.00	2.31	15.806	4.865	4.865	0.272	2.37	0.85	1.00	0.3	18.30	43.42	4.86	1464	243	85	103	188
17	170.00	2.24	17.528	4.983	4.983	0.294	2.31	0.85	1.00	0.3	19.88	45.96	4.98	1554	251	88	99	186
16	150.00	2.16	16.945	4.751	4.751	0.284	2.34	0.85	1.00	0.3	19.15	44.83	4.75	1601	237	82	96	178
15	130.00	2.08	16.941	4.683	4.683	0.283	2.34	0.85	1.00	0.3	19.08	44.71	4.68	1597	233	79	92	171
14	115.00	2.01	10.315	2.313	2.313	0.327	2.23	0.85	1.00	0.3	11.08	24.66	2.31	951	115	42	43	85
13	109.17	1.98	1.696	0.383	0.383	0.324	2.24	0.85	1.00	0.3	1.83	4.08	0.38	158	19	7	7	14
12	107.50	1.97	1.696	0.383	0.383	0.323	2.24	0.85	1.00	0.3	1.82	4.08	0.38	158	19	7	7	14
11	105.83	1.96	1.696	0.382	0.382	0.323	2.24	0.85	1.00	0.3	1.82	4.08	0.38	158	19	7	7	14
10	104.17	1.95	1.696	0.382	0.382	0.323	2.24	0.85	1.00	0.3	1.82	4.08	0.38	158	19	7	7	14
9	101.67	1.94	3.443	0.762	0.762	0.327	2.23	0.85	1.00	0.3	3.69	8.21	0.76	316	38	14	14	27
8	90.00	1.87	16.945	4.514	4.514	0.281	2.35	0.85	1.00	0.3	18.92	44.43	4.51	1588	224	71	82	153
7	70.00	1.74	16.945	4.402	4.402	0.279	2.35	0.85	1.00	0.3	18.81	44.24	4.40	1582	218	65	77	142
6	50.00	1.58	17.528	4.409	4.409	0.287	2.33	0.85	1.00	0.3	19.31	45.00	4.41	1724	219	60	69	130
5	33.33	1.41	11.296	2.725	2.725	0.275	2.36	0.85	1.00	0.3	12.33	29.13	2.72	1043	134	35	41	76
4	26.00	1.36	0.738	1.159	0.413	0.373	2.12	0.85	1.00	0.2	1.39	2.94	0.41	130	23	3	4	7
3	23.67	1.36	2.824	0.658	0.658	0.274	2.37	0.85	1.00	0.2	3.06	7.24	0.66	260	32	8	10	18
2	12.00	1.36	16.921	3.690	3.690	0.270	2.38	0.85	1.00	0.2	18.07	42.98	3.69	1543	179	50	60	109
1	1.00	1.36	4.343	0.270	0.270	1.000	2.10	0.85	1.00	0.2	3.96	8.32	0.27	340	40	10	0	10
														24678	3598			2566

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 240 deg

30 mph 240 deg with 0.25 in Radial Ice

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor 1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	2.62	7.905	2.542	2.542	0.275	2.36	1.00	1.00	0.3	10.45	24.70	2.54	670	104	55	48	103
32	289.17	2.61	1.848	0.604	0.604	0.387	2.09	1.00	1.00	0.3	2.45	5.12	0.60	193	32	11	9	20
31	287.50	2.61	1.830	0.604	0.604	0.384	2.10	1.00	1.00	0.3	2.43	5.10	0.60	193	32	11	9	20
30	285.83	2.60	1.848	0.603	0.603	0.387	2.09	1.00	1.00	0.3	2.45	5.12	0.60	193	32	11	9	20
29	284.17	2.60	1.830	0.603	0.603	0.384	2.10	1.00	1.00	0.3	2.43	5.10	0.60	193	32	11	9	20
28	281.67	2.59	3.174	1.024	1.024	0.332	2.22	1.00	1.00	0.3	4.20	9.30	1.02	316	53	20	19	39
27	270.00	2.56	16.945	5.038	5.038	0.287	2.33	1.00	1.00	0.3	21.98	51.24	5.04	1516	253	111	114	225
26	250.00	2.50	16.945	5.000	5.000	0.287	2.33	1.00	1.00	0.3	21.94	51.18	5.00	1514	251	109	111	220
25	235.00	2.46	9.680	2.485	2.485	0.318	2.25	1.00	1.00	0.3	12.16	27.37	2.48	872	125	57	54	111
24	229.17	2.44	2.127	0.590	0.590	0.426	2.01	1.00	1.00	0.3	2.72	5.47	0.59	215	31	11	7	19

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

23	227.50	2.44	2.102	0.590	0.590	0.422	2.02	1.00	1.00	0.3	2.69	5.44	0.59	215	31	11	8	19
22	225.83	2.43	2.127	0.589	0.589	0.426	2.01	1.00	1.00	0.3	2.72	5.47	0.59	215	31	11	7	19
21	224.17	2.43	2.103	0.589	0.589	0.422	2.02	1.00	1.00	0.3	2.69	5.44	0.59	215	31	11	8	19
20	221.67	2.42	3.768	1.000	1.000	0.374	2.12	1.00	1.00	0.3	4.77	10.10	1.00	360	52	21	16	37
19	210.00	2.38	15.809	4.913	4.913	0.273	2.37	1.00	1.00	0.3	20.72	49.13	4.91	1467	246	99	106	206
18	190.00	2.31	15.806	4.865	4.865	0.272	2.37	1.00	1.00	0.3	20.67	49.04	4.86	1464	243	96	103	200
17	170.00	2.24	17.528	4.983	4.983	0.294	2.31	1.00	1.00	0.3	22.51	52.03	4.98	1554	251	99	99	198
16	150.00	2.16	16.945	4.751	4.751	0.284	2.34	1.00	1.00	0.3	21.70	50.78	4.75	1601	237	93	96	189
15	130.00	2.08	16.941	4.683	4.683	0.283	2.34	1.00	1.00	0.3	21.62	50.67	4.68	1597	233	89	92	181
14	115.00	2.01	10.315	2.313	2.313	0.327	2.23	1.00	1.00	0.3	12.63	28.11	2.31	951	115	48	43	91
13	109.17	1.98	1.696	0.383	0.383	0.324	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
12	107.50	1.97	1.696	0.383	0.383	0.323	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
11	105.83	1.96	1.696	0.382	0.382	0.323	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
10	104.17	1.95	1.696	0.382	0.382	0.323	2.24	1.00	1.00	0.3	2.08	4.65	0.38	158	19	8	7	15
9	101.67	1.94	3.443	0.762	0.762	0.327	2.23	1.00	1.00	0.3	4.20	9.36	0.76	316	38	15	14	29
8	90.00	1.87	16.945	4.514	4.514	0.281	2.35	1.00	1.00	0.3	21.46	50.40	4.51	1588	224	80	82	163
7	70.00	1.74	16.945	4.402	4.402	0.279	2.35	1.00	1.00	0.3	21.35	50.22	4.40	1582	218	74	77	151
6	50.00	1.58	17.528	4.409	4.409	0.287	2.33	1.00	1.00	0.3	21.94	51.13	4.41	1724	219	69	69	138
5	33.33	1.41	11.296	2.725	2.725	0.275	2.36	1.00	1.00	0.3	14.02	33.14	2.72	1043	134	40	41	81
4	26.00	1.36	0.738	1.159	0.413	0.373	2.12	1.00	1.00	0.2	1.50	3.18	0.41	130	23	4	4	7
3	23.67	1.36	2.824	0.658	0.658	0.274	2.37	1.00	1.00	0.2	3.48	8.25	0.66	260	32	10	10	20
2	12.00	1.36	16.921	3.690	3.690	0.270	2.38	1.00	1.00	0.2	20.61	49.02	3.69	1543	179	57	60	116
1	1.00	1.36	4.343	0.270	0.270	1.000	2.10	1.00	1.00	0.2	4.61	9.69	0.27	340	40	11	0	11
													24678	3598				2728

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 300 deg**30 mph 300 deg with 0.25 in Radial Ice**

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor 1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	2.62	7.905	2.542	2.542	0.275	2.36	0.80	1.00	0.3	8.87	20.96	2.54	670	104	47	48	94
32	289.17	2.61	1.848	0.604	0.604	0.387	2.09	0.80	1.00	0.3	2.08	4.35	0.60	193	32	10	9	18
31	287.50	2.61	1.830	0.604	0.604	0.384	2.10	0.80	1.00	0.3	2.07	4.33	0.60	193	32	10	9	18
30	285.83	2.60	1.848	0.603	0.603	0.387	2.09	0.80	1.00	0.3	2.08	4.35	0.60	193	32	10	9	18
29	284.17	2.60	1.830	0.603	0.603	0.384	2.10	0.80	1.00	0.3	2.07	4.33	0.60	193	32	10	9	18
28	281.67	2.59	3.174	1.024	1.024	0.332	2.22	0.80	1.00	0.3	3.56	7.89	1.02	316	53	17	19	36
27	270.00	2.56	16.945	5.038	5.038	0.287	2.33	0.80	1.00	0.3	18.59	43.34	5.04	1516	253	94	114	208
26	250.00	2.50	16.945	5.000	5.000	0.287	2.33	0.80	1.00	0.3	18.56	43.27	5.00	1514	251	92	111	203
25	235.00	2.46	9.680	2.485	2.485	0.318	2.25	0.80	1.00	0.3	10.23	23.01	2.48	872	125	48	54	102
24	229.17	2.44	2.127	0.590	0.590	0.426	2.01	0.80	1.00	0.3	2.29	4.62	0.59	215	31	10	7	17
23	227.50	2.44	2.102	0.590	0.590	0.422	2.02	0.80	1.00	0.3	2.27	4.59	0.59	215	31	10	8	17
22	225.83	2.43	2.127	0.589	0.589	0.426	2.01	0.80	1.00	0.3	2.29	4.62	0.59	215	31	10	7	17
21	224.17	2.43	2.103	0.589	0.589	0.422	2.02	0.80	1.00	0.3	2.27	4.59	0.59	215	31	9	8	17
20	221.67	2.42	3.768	1.000	1.000	0.374	2.12	0.80	1.00	0.3	4.01	8.50	1.00	360	52	17	16	34
19	210.00	2.38	15.809	4.913	4.913	0.273	2.37	0.80	1.00	0.3	17.56	41.63	4.91	1467	246	84	106	190
18	190.00	2.31	15.806	4.865	4.865	0.272	2.37	0.80	1.00	0.3	17.51	41.54	4.86	1464	243	82	103	185
17	170.00	2.24	17.528	4.983	4.983	0.294	2.31	0.80	1.00	0.3	19.00	43.93	4.98	1554	251	84	99	182
16	150.00	2.16	16.945	4.751	4.751	0.284	2.34	0.80	1.00	0.3	18.31	42.85	4.75	1601	237	79	96	174
15	130.00	2.08	16.941	4.683	4.683	0.283	2.34	0.80	1.00	0.3	18.24	42.73	4.68	1597	233	75	92	167
14	115.00	2.01	10.315	2.313	2.313	0.327	2.23	0.80	1.00	0.3	10.56	23.51	2.31	951	115	40	43	83
13	109.17	1.98	1.696	0.383	0.383	0.324	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	7	7	14
12	107.50	1.97	1.696	0.383	0.383	0.323	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	7	7	14
11	105.83	1.96	1.696	0.382	0.382	0.323	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	6	7	13
10	104.17	1.95	1.696	0.382	0.382	0.323	2.24	0.80	1.00	0.3	1.74	3.89	0.38	158	19	6	7	13
9	101.67	1.94	3.443	0.762	0.762	0.327	2.23	0.80	1.00	0.3	3.52	7.83	0.76	316	38	13	14	27
8	90.00	1.87	16.945	4.514	4.514	0.281	2.35	0.80	1.00	0.3	18.07	42.44	4.51	1588	224	67	82	150
7	70.00	1.74	16.945	4.402	4.402	0.279	2.35	0.80	1.00	0.3	17.96	42.25	4.40	1582	218	62	77	139
6	50.00	1.58	17.528	4.409	4.409	0.287	2.33	0.80	1.00	0.3	18.43	42.96	4.41	1724	219	58	69	127

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:00 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

5	33.33	1.41	11.296	2.725	2.725	0.275	2.36	0.80	1.00	0.3	11.76	27.80	2.72	1043	134	33	41	74
4	26.00	1.36	0.738	1.159	0.413	0.373	2.12	0.80	1.00	0.2	1.35	2.87	0.41	130	23	3	4	7
3	23.67	1.36	2.824	0.658	0.658	0.274	2.37	0.80	1.00	0.2	2.92	6.91	0.66	260	32	8	10	18
2	12.00	1.36	16.921	3.690	3.690	0.270	2.38	0.80	1.00	0.2	17.23	40.97	3.69	1543	179	48	60	107
1	1.00	1.36	4.343	0.270	0.270	1.000	2.10	0.80	1.00	0.2	3.74	7.86	0.27	340	40	9	0	9
														24678	3598			2512

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 330 deg

30 mph 330 deg with 0.25 in Radial Ice

Gust Response Factor (Gh): 0.85

Ice Dead Load Factor 1.00

Ice Importance Factor :1.00

Wind Importance Factor (Iw) : 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)
33	295.00	2.62	7.905	2.542	2.542	0.275	2.36	0.85	1.00	0.3	9.26	21.90	2.54	670	104	49	48	97
32	289.17	2.61	1.848	0.604	0.604	0.387	2.09	0.85	1.00	0.3	2.17	4.55	0.60	193	32	10	9	19
31	287.50	2.61	1.830	0.604	0.604	0.384	2.10	0.85	1.00	0.3	2.16	4.53	0.60	193	32	10	9	19
30	285.83	2.60	1.848	0.603	0.603	0.387	2.09	0.85	1.00	0.3	2.17	4.54	0.60	193	32	10	9	19
29	284.17	2.60	1.830	0.603	0.603	0.384	2.10	0.85	1.00	0.3	2.16	4.52	0.60	193	32	10	9	19
28	281.67	2.59	3.174	1.024	1.024	0.332	2.22	0.85	1.00	0.3	3.72	8.25	1.02	316	53	18	19	37
27	270.00	2.56	16.945	5.038	5.038	0.287	2.33	0.85	1.00	0.3	19.44	45.31	5.04	1516	253	99	114	212
26	250.00	2.50	16.945	5.000	5.000	0.287	2.33	0.85	1.00	0.3	19.40	45.25	5.00	1514	251	96	111	207
25	235.00	2.46	9.680	2.485	2.485	0.318	2.25	0.85	1.00	0.3	10.71	24.10	2.48	872	125	50	54	104
24	229.17	2.44	2.127	0.590	0.590	0.426	2.01	0.85	1.00	0.3	2.40	4.83	0.59	215	31	10	7	18
23	227.50	2.44	2.102	0.590	0.590	0.422	2.02	0.85	1.00	0.3	2.38	4.80	0.59	215	31	10	8	17
22	225.83	2.43	2.127	0.589	0.589	0.426	2.01	0.85	1.00	0.3	2.40	4.83	0.59	215	31	10	7	17
21	224.17	2.43	2.103	0.589	0.589	0.422	2.02	0.85	1.00	0.3	2.38	4.81	0.59	215	31	10	8	17
20	221.67	2.42	3.768	1.000	1.000	0.374	2.12	0.85	1.00	0.3	4.20	8.90	1.00	360	52	18	16	34
19	210.00	2.38	15.809	4.913	4.913	0.273	2.37	0.85	1.00	0.3	18.35	43.51	4.91	1467	246	88	106	194
18	190.00	2.31	15.806	4.865	4.865	0.272	2.37	0.85	1.00	0.3	18.30	43.42	4.86	1464	243	85	103	188
17	170.00	2.24	17.528	4.983	4.983	0.294	2.31	0.85	1.00	0.3	19.88	45.96	4.98	1554	251	88	99	186
16	150.00	2.16	16.945	4.751	4.751	0.284	2.34	0.85	1.00	0.3	19.15	44.83	4.75	1601	237	82	96	178
15	130.00	2.08	16.941	4.683	4.683	0.283	2.34	0.85	1.00	0.3	19.08	44.71	4.68	1597	233	79	92	171
14	115.00	2.01	10.315	2.313	2.313	0.327	2.23	0.85	1.00	0.3	11.08	24.66	2.31	951	115	42	43	85
13	109.17	1.98	1.696	0.383	0.383	0.324	2.24	0.85	1.00	0.3	1.83	4.08	0.38	158	19	7	7	14
12	107.50	1.97	1.696	0.383	0.383	0.323	2.24	0.85	1.00	0.3	1.82	4.08	0.38	158	19	7	7	14
11	105.83	1.96	1.696	0.382	0.382	0.323	2.24	0.85	1.00	0.3	1.82	4.08	0.38	158	19	7	7	14
10	104.17	1.95	1.696	0.382	0.382	0.323	2.24	0.85	1.00	0.3	1.82	4.08	0.38	158	19	7	7	14
9	101.67	1.94	3.443	0.762	0.762	0.327	2.23	0.85	1.00	0.3	3.69	8.21	0.76	316	38	14	14	27
8	90.00	1.87	16.945	4.514	4.514	0.281	2.35	0.85	1.00	0.3	18.92	44.43	4.51	1588	224	71	82	153
7	70.00	1.74	16.945	4.402	4.402	0.279	2.35	0.85	1.00	0.3	18.81	44.24	4.40	1582	218	65	77	142
6	50.00	1.58	17.528	4.409	4.409	0.287	2.33	0.85	1.00	0.3	19.31	45.00	4.41	1724	219	60	69	130
5	33.33	1.41	11.296	2.725	2.725	0.275	2.36	0.85	1.00	0.3	12.33	29.13	2.72	1043	134	35	41	76
4	26.00	1.36	0.738	1.159	0.413	0.373	2.12	0.85	1.00	0.2	1.39	2.94	0.41	130	23	3	4	7
3	23.67	1.36	2.824	0.658	0.658	0.274	2.37	0.85	1.00	0.2	3.06	7.24	0.66	260	32	8	10	18
2	12.00	1.36	16.921	3.690	3.690	0.270	2.38	0.85	1.00	0.2	18.07	42.98	3.69	1543	179	50	60	109
1	1.00	1.36	4.343	0.270	0.270	1.000	2.10	0.85	1.00	0.2	3.96	8.32	0.27	340	40	10	0	10
														24678	3598			2566
** - Section Force Exceeds Solidity Ratio Criteria																		

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.0D + 1.0W Service Normal

Serviceability - 60 mph Wind Normal

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ei} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33 295.00	10.50	7.905	0.000	0.000	0.211	2.56	1.00	1.00	0.0	7.90	20.23	0.00	472	0	181	127	308

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:01 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

32	289.17	10.44	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	134	0	38	26	64
31	287.50	10.42	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	134	0	38	26	63
30	285.83	10.40	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	134	0	38	26	64
29	284.17	10.39	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	134	0	37	26	63
28	281.67	10.36	3.174	0.000	0.000	0.254	2.43	1.00	1.00	0.0	3.17	7.70	0.00	219	0	68	52	119
27	270.00	10.24	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1053	0	371	305	677
26	250.00	10.01	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1053	0	363	299	662
25	235.00	9.84	9.680	0.000	0.000	0.256	2.42	1.00	1.00	0.0	9.68	23.41	0.00	623	0	196	147	343
24	229.17	9.77	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	153	0	39	24	63
23	227.50	9.75	2.102	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.64	0.00	153	0	38	24	63
22	225.83	9.73	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	153	0	39	24	63
21	224.17	9.71	2.103	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.65	0.00	153	0	38	24	62
20	221.67	9.68	3.768	0.000	0.000	0.299	2.30	1.00	1.00	0.0	3.77	8.66	0.00	257	0	71	48	119
19	210.00	9.53	15.809	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	1017	0	328	284	612
18	190.00	9.26	15.806	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.46	0.00	1017	0	318	276	595
17	170.00	8.97	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1086	0	333	268	601
16	150.00	8.65	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1137	0	314	258	572
15	130.00	8.31	16.941	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.64	0.00	1137	0	301	248	549
14	115.00	8.02	10.315	0.000	0.000	0.271	2.38	1.00	1.00	0.0	10.31	24.52	0.00	697	0	167	120	287
13	109.17	7.90	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	20	47
12	107.50	7.87	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	20	47
11	105.83	7.83	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	19	46
10	104.17	7.80	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	19	46
9	101.67	7.74	3.443	0.000	0.000	0.271	2.38	1.00	1.00	0.0	3.44	8.18	0.00	232	0	54	39	92
8	90.00	7.48	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1137	0	271	223	494
7	70.00	6.96	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1137	0	252	208	460
6	50.00	6.32	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1255	0	235	189	423
5	33.33	5.63	11.296	0.000	0.000	0.224	2.52	1.00	1.00	0.0	11.30	28.43	0.00	758	0	136	112	248
4	26.00	5.46	0.738	0.746	0.000	0.295	2.31	1.00	1.00	0.0	1.22	2.82	0.00	89	0	13	11	24
3	23.67	5.46	2.824	0.000	0.000	0.224	2.52	1.00	1.00	0.0	2.82	7.11	0.00	189	0	33	27	60
2	12.00	5.46	16.921	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.92	42.60	0.00	1137	0	198	163	361
1	1.00	5.46	4.343	0.000	0.000	0.965	2.03	1.00	1.00	0.0	4.34	8.82	0.00	250	0	41	1	42
														17566	0	8339		

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.0D + 1.0W Service 60 deg**Serviceability - 60 mph Wind 60 deg**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	10.50	7.905	0.000	0.000	0.211	2.56	0.80	1.00	0.0	6.32	16.19	0.00	472	0	144	127	272
32	289.17	10.44	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	134	0	30	26	56
31	287.50	10.42	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	134	0	30	26	56
30	285.83	10.40	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	134	0	30	26	56
29	284.17	10.39	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	134	0	30	26	56
28	281.67	10.36	3.174	0.000	0.000	0.254	2.43	0.80	1.00	0.0	2.54	6.16	0.00	219	0	54	52	106
27	270.00	10.24	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1053	0	297	305	602
26	250.00	10.01	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1053	0	290	299	589
25	235.00	9.84	9.680	0.000	0.000	0.256	2.42	0.80	1.00	0.0	7.74	18.73	0.00	623	0	157	147	303
24	229.17	9.77	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	153	0	31	24	55
23	227.50	9.75	2.102	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	153	0	31	24	55
22	225.83	9.73	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	153	0	31	24	55
21	224.17	9.71	2.103	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	153	0	31	24	55
20	221.67	9.68	3.768	0.000	0.000	0.299	2.30	0.80	1.00	0.0	3.01	6.93	0.00	257	0	57	48	105
19	210.00	9.53	15.809	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	1017	0	262	284	547
18	190.00	9.26	15.806	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.64	32.37	0.00	1017	0	255	276	531
17	170.00	8.97	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1086	0	266	268	534
16	150.00	8.65	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1137	0	251	258	509
15	130.00	8.31	16.941	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.55	34.11	0.00	1137	0	241	248	489

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:01 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

14	115.00	8.02	10.315	0.000	0.000	0.271	2.38	0.80	1.00	0.0	8.25	19.61	0.00	697	0	134	120	253
13	109.17	7.90	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	22	20	41
12	107.50	7.87	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	22	20	41
11	105.83	7.83	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	22	19	41
10	104.17	7.80	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	21	19	41
9	101.67	7.74	3.443	0.000	0.000	0.271	2.38	0.80	1.00	0.0	2.75	6.54	0.00	232	0	43	39	82
8	90.00	7.48	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1137	0	217	223	440
7	70.00	6.96	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1137	0	202	208	410
6	50.00	6.32	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1255	0	188	189	377
5	33.33	5.63	11.296	0.000	0.000	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	758	0	109	112	221
4	26.00	5.46	0.738	0.746	0.000	0.295	2.31	0.80	1.00	0.0	1.07	2.47	0.00	89	0	11	11	22
3	23.67	5.46	2.824	0.000	0.000	0.224	2.52	0.80	1.00	0.0	2.26	5.69	0.00	189	0	26	27	54
2	12.00	5.46	16.921	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.54	34.08	0.00	1137	0	158	163	321
1	1.00	5.46	4.343	0.000	0.000	0.965	2.03	0.80	1.00	0.0	3.47	7.06	0.00	250	0	33	1	34
														17566	0			7409

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.0D + 1.0W Service 90 deg**Serviceability - 60 mph Wind 90 deg**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	10.50	7.905	0.000	0.000	0.211	2.56	0.85	1.00	0.0	6.72	17.20	0.00	472	0	153	127	281
32	289.17	10.44	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	134	0	32	26	58
31	287.50	10.42	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	134	0	32	26	58
30	285.83	10.40	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	134	0	32	26	58
29	284.17	10.39	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	134	0	32	26	58
28	281.67	10.36	3.174	0.000	0.000	0.254	2.43	0.85	1.00	0.0	2.70	6.54	0.00	219	0	58	52	109
27	270.00	10.24	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1053	0	315	305	621
26	250.00	10.01	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1053	0	309	299	607
25	235.00	9.84	9.680	0.000	0.000	0.256	2.42	0.85	1.00	0.0	8.23	19.90	0.00	623	0	166	147	313
24	229.17	9.77	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	153	0	33	24	57
23	227.50	9.75	2.102	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	153	0	33	24	57
22	225.83	9.73	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	153	0	33	24	57
21	224.17	9.71	2.103	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	153	0	33	24	57
20	221.67	9.68	3.768	0.000	0.000	0.299	2.30	0.85	1.00	0.0	3.20	7.36	0.00	257	0	61	48	109
19	210.00	9.53	15.809	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	1017	0	279	284	563
18	190.00	9.26	15.806	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.39	0.00	1017	0	271	276	547
17	170.00	8.97	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1086	0	283	268	551
16	150.00	8.65	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1137	0	267	258	525
15	130.00	8.31	16.941	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.24	0.00	1137	0	256	248	504
14	115.00	8.02	10.315	0.000	0.000	0.271	2.38	0.85	1.00	0.0	8.77	20.84	0.00	697	0	142	120	262
13	109.17	7.90	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	20	43
12	107.50	7.87	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	20	43
11	105.83	7.83	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	19	42
10	104.17	7.80	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	19	42
9	101.67	7.74	3.443	0.000	0.000	0.271	2.38	0.85	1.00	0.0	2.93	6.95	0.00	232	0	46	39	84
8	90.00	7.48	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1137	0	230	223	454
7	70.00	6.96	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1137	0	214	208	422
6	50.00	6.32	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1255	0	200	189	388
5	33.33	5.63	11.296	0.000	0.000	0.224	2.52	0.85	1.00	0.0	9.60	24.17	0.00	758	0	116	112	228
4	26.00	5.46	0.738	0.746	0.000	0.295	2.31	0.85	1.00	0.0	1.11	2.56	0.00	89	0	12	11	23
3	23.67	5.46	2.824	0.000	0.000	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	189	0	28	27	55
2	12.00	5.46	16.921	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.38	36.21	0.00	1137	0	168	163	331
1	1.00	5.46	4.343	0.000	0.000	0.965	2.03	0.85	1.00	0.0	3.69	7.50	0.00	250	0	35	1	36
														17566	0			7642
** - Section Force Exceeds Solidity Ratio Criteria																		

** = Section Force Exceeds Solidity Ratio Criteria

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:01 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces**LoadCase 1.0D + 1.0W Service 120 deg****Serviceability - 60 mph Wind 120 deg**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33 295.00	10.50	7.905	0.000	0.000	0.211	2.56	1.00	1.00	0.0	7.90	20.23	0.00	472	0	181	127	308
32 289.17	10.44	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	134	0	38	26	64
31 287.50	10.42	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	134	0	38	26	63
30 285.83	10.40	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	134	0	38	26	64
29 284.17	10.39	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	134	0	37	26	63
28 281.67	10.36	3.174	0.000	0.000	0.254	2.43	1.00	1.00	0.0	3.17	7.70	0.00	219	0	68	52	119
27 270.00	10.24	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1053	0	371	305	677
26 250.00	10.01	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1053	0	363	299	662
25 235.00	9.84	9.680	0.000	0.000	0.256	2.42	1.00	1.00	0.0	9.68	23.41	0.00	623	0	196	147	343
24 229.17	9.77	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	153	0	39	24	63
23 227.50	9.75	2.102	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.64	0.00	153	0	38	24	63
22 225.83	9.73	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	153	0	39	24	63
21 224.17	9.71	2.103	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.65	0.00	153	0	38	24	62
20 221.67	9.68	3.768	0.000	0.000	0.299	2.30	1.00	1.00	0.0	3.77	8.66	0.00	257	0	71	48	119
19 210.00	9.53	15.809	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	1017	0	328	284	612
18 190.00	9.26	15.806	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.46	0.00	1017	0	318	276	595
17 170.00	8.97	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1086	0	333	268	601
16 150.00	8.65	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1137	0	314	258	572
15 130.00	8.31	16.941	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.64	0.00	1137	0	301	248	549
14 115.00	8.02	10.315	0.000	0.000	0.271	2.38	1.00	1.00	0.0	10.31	24.52	0.00	697	0	167	120	287
13 109.17	7.90	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	20	47
12 107.50	7.87	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	20	47
11 105.83	7.83	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	19	46
10 104.17	7.80	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	19	46
9 101.67	7.74	3.443	0.000	0.000	0.271	2.38	1.00	1.00	0.0	3.44	8.18	0.00	232	0	54	39	92
8 90.00	7.48	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1137	0	271	223	494
7 70.00	6.96	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1137	0	252	208	460
6 50.00	6.32	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1255	0	235	189	423
5 33.33	5.63	11.296	0.000	0.000	0.224	2.52	1.00	1.00	0.0	11.30	28.43	0.00	758	0	136	112	248
4 26.00	5.46	0.738	0.746	0.000	0.295	2.31	1.00	1.00	0.0	1.22	2.82	0.00	89	0	13	11	24
3 23.67	5.46	2.824	0.000	0.000	0.224	2.52	1.00	1.00	0.0	2.82	7.11	0.00	189	0	33	27	60
2 12.00	5.46	16.921	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.92	42.60	0.00	1137	0	198	163	361
1 1.00	5.46	4.343	0.000	0.000	0.965	2.03	1.00	1.00	0.0	4.34	8.82	0.00	250	0	41	1	42

** = Section Force Exceeds Solidity Ratio Criteria

17566 0

8339

LoadCase 1.0D + 1.0W Service 180 deg**Serviceability - 60 mph Wind 180 deg**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33 295.00	10.50	7.905	0.000	0.000	0.211	2.56	0.80	1.00	0.0	6.32	16.19	0.00	472	0	144	127	272
32 289.17	10.44	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	134	0	30	26	56
31 287.50	10.42	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	134	0	30	26	56
30 285.83	10.40	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	134	0	30	26	56
29 284.17	10.39	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	134	0	30	26	56
28 281.67	10.36	3.174	0.000	0.000	0.254	2.43	0.80	1.00	0.0	2.54	6.16	0.00	219	0	54	52	106
27 270.00	10.24	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1053	0	297	305	602
26 250.00	10.01	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1053	0	290	299	589
25 235.00	9.84	9.680	0.000	0.000	0.256	2.42	0.80	1.00	0.0	7.74	18.73	0.00	623	0	157	147	303
24 229.17	9.77	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	153	0	31	24	55

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:01 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

23	227.50	9.75	2.102	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	153	0	31	24	55
22	225.83	9.73	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	153	0	31	24	55
21	224.17	9.71	2.103	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	153	0	31	24	55
20	221.67	9.68	3.768	0.000	0.000	0.299	2.30	0.80	1.00	0.0	3.01	6.93	0.00	257	0	57	48	105
19	210.00	9.53	15.809	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	1017	0	262	284	547
18	190.00	9.26	15.806	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.64	32.37	0.00	1017	0	255	276	531
17	170.00	8.97	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1086	0	266	268	534
16	150.00	8.65	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1137	0	251	258	509
15	130.00	8.31	16.941	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.55	34.11	0.00	1137	0	241	248	489
14	115.00	8.02	10.315	0.000	0.000	0.271	2.38	0.80	1.00	0.0	8.25	19.61	0.00	697	0	134	120	253
13	109.17	7.90	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	22	20	41
12	107.50	7.87	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	22	20	41
11	105.83	7.83	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	22	19	41
10	104.17	7.80	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	21	19	41
9	101.67	7.74	3.443	0.000	0.000	0.271	2.38	0.80	1.00	0.0	2.75	6.54	0.00	232	0	43	39	82
8	90.00	7.48	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1137	0	217	223	440
7	70.00	6.96	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1137	0	202	208	410
6	50.00	6.32	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1255	0	188	189	377
5	33.33	5.63	11.296	0.000	0.000	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	758	0	109	112	221
4	26.00	5.46	0.738	0.746	0.000	0.295	2.31	0.80	1.00	0.0	1.07	2.47	0.00	89	0	11	11	22
3	23.67	5.46	2.824	0.000	0.000	0.224	2.52	0.80	1.00	0.0	2.26	5.69	0.00	189	0	26	27	54
2	12.00	5.46	16.921	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.54	34.08	0.00	1137	0	158	163	321
1	1.00	5.46	4.343	0.000	0.000	0.965	2.03	0.80	1.00	0.0	3.47	7.06	0.00	250	0	33	1	34
														17566	0			7409

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.0D + 1.0W Service 210 deg**Serviceability - 60 mph Wind 210 deg**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	10.50	7.905	0.000	0.000	0.211	2.56	0.85	1.00	0.0	6.72	17.20	0.00	472	0	153	127	281
32	289.17	10.44	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	134	0	32	26	58
31	287.50	10.42	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	134	0	32	26	58
30	285.83	10.40	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	134	0	32	26	58
29	284.17	10.39	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	134	0	32	26	58
28	281.67	10.36	3.174	0.000	0.000	0.254	2.43	0.85	1.00	0.0	2.70	6.54	0.00	219	0	58	52	109
27	270.00	10.24	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1053	0	315	305	621
26	250.00	10.01	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1053	0	309	299	607
25	235.00	9.84	9.680	0.000	0.000	0.256	2.42	0.85	1.00	0.0	8.23	19.90	0.00	623	0	166	147	313
24	229.17	9.77	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	153	0	33	24	57
23	227.50	9.75	2.102	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	153	0	33	24	57
22	225.83	9.73	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	153	0	33	24	57
21	224.17	9.71	2.103	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	153	0	33	24	57
20	221.67	9.68	3.768	0.000	0.000	0.299	2.30	0.85	1.00	0.0	3.20	7.36	0.00	257	0	61	48	109
19	210.00	9.53	15.809	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	1017	0	279	284	563
18	190.00	9.26	15.806	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.39	0.00	1017	0	271	276	547
17	170.00	8.97	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1086	0	283	268	551
16	150.00	8.65	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1137	0	267	258	525
15	130.00	8.31	16.941	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.24	0.00	1137	0	256	248	504
14	115.00	8.02	10.315	0.000	0.000	0.271	2.38	0.85	1.00	0.0	8.77	20.84	0.00	697	0	142	120	262
13	109.17	7.90	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	20	43
12	107.50	7.87	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	20	43
11	105.83	7.83	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	19	42
10	104.17	7.80	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	19	42
9	101.67	7.74	3.443	0.000	0.000	0.271	2.38	0.85	1.00	0.0	2.93	6.95	0.00	232	0	46	39	84
8	90.00	7.48	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1137	0	230	223	454
7	70.00	6.96	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1137	0	214	208	422
6	50.00	6.32	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1255	0	200	189	388

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:01 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

5	33.33	5.63	11.296	0.000	0.000	0.224	2.52	0.85	1.00	0.0	9.60	24.17	0.00	758	0	116	112	228
4	26.00	5.46	0.738	0.746	0.000	0.295	2.31	0.85	1.00	0.0	1.11	2.56	0.00	89	0	12	11	23
3	23.67	5.46	2.824	0.000	0.000	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	189	0	28	27	55
2	12.00	5.46	16.921	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.38	36.21	0.00	1137	0	168	163	331
1	1.00	5.46	4.343	0.000	0.000	0.965	2.03	0.85	1.00	0.0	3.69	7.50	0.00	250	0	35	1	36

** = Section Force Exceeds Solidity Ratio Criteria

17566 0 7642

LoadCase 1.0D + 1.0W Service 240 deg**Serviceability - 60 mph Wind 240 deg**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33 295.00	10.50	7.905	0.000	0.000	0.211	2.56	1.00	1.00	0.0	7.90	20.23	0.00	472	0	181	127	308
32 289.17	10.44	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	134	0	38	26	64
31 287.50	10.42	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	134	0	38	26	63
30 285.83	10.40	1.848	0.000	0.000	0.296	2.31	1.00	1.00	0.0	1.85	4.26	0.00	134	0	38	26	64
29 284.17	10.39	1.830	0.000	0.000	0.293	2.31	1.00	1.00	0.0	1.83	4.24	0.00	134	0	37	26	63
28 281.67	10.36	3.174	0.000	0.000	0.254	2.43	1.00	1.00	0.0	3.17	7.70	0.00	219	0	68	52	119
27 270.00	10.24	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1053	0	371	305	677
26 250.00	10.01	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1053	0	363	299	662
25 235.00	9.84	9.680	0.000	0.000	0.256	2.42	1.00	1.00	0.0	9.68	23.41	0.00	623	0	196	147	343
24 229.17	9.77	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	153	0	39	24	63
23 227.50	9.75	2.102	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.64	0.00	153	0	38	24	63
22 225.83	9.73	2.127	0.000	0.000	0.338	2.20	1.00	1.00	0.0	2.13	4.68	0.00	153	0	39	24	63
21 224.17	9.71	2.103	0.000	0.000	0.334	2.21	1.00	1.00	0.0	2.10	4.65	0.00	153	0	38	24	62
20 221.67	9.68	3.768	0.000	0.000	0.299	2.30	1.00	1.00	0.0	3.77	8.66	0.00	257	0	71	48	119
19 210.00	9.53	15.809	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.47	0.00	1017	0	328	284	612
18 190.00	9.26	15.806	0.000	0.000	0.211	2.56	1.00	1.00	0.0	15.81	40.46	0.00	1017	0	318	276	595
17 170.00	8.97	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1086	0	333	268	601
16 150.00	8.65	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1137	0	314	258	572
15 130.00	8.31	16.941	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.64	0.00	1137	0	301	248	549
14 115.00	8.02	10.315	0.000	0.000	0.271	2.38	1.00	1.00	0.0	10.31	24.52	0.00	697	0	167	120	287
13 109.17	7.90	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	20	47
12 107.50	7.87	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	20	47
11 105.83	7.83	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	19	46
10 104.17	7.80	1.696	0.000	0.000	0.267	2.39	1.00	1.00	0.0	1.70	4.05	0.00	116	0	27	19	46
9 101.67	7.74	3.443	0.000	0.000	0.271	2.38	1.00	1.00	0.0	3.44	8.18	0.00	232	0	54	39	92
8 90.00	7.48	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1137	0	271	223	494
7 70.00	6.96	16.945	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.94	42.65	0.00	1137	0	252	208	460
6 50.00	6.32	17.528	0.000	0.000	0.232	2.49	1.00	1.00	0.0	17.53	43.69	0.00	1255	0	235	189	423
5 33.33	5.63	11.296	0.000	0.000	0.224	2.52	1.00	1.00	0.0	11.30	28.43	0.00	758	0	136	112	248
4 26.00	5.46	0.738	0.746	0.000	0.295	2.31	1.00	1.00	0.0	1.22	2.82	0.00	89	0	13	11	24
3 23.67	5.46	2.824	0.000	0.000	0.224	2.52	1.00	1.00	0.0	2.82	7.11	0.00	189	0	33	27	60
2 12.00	5.46	16.921	0.000	0.000	0.224	2.52	1.00	1.00	0.0	16.92	42.60	0.00	1137	0	198	163	361
1 1.00	5.46	4.343	0.000	0.000	0.965	2.03	1.00	1.00	0.0	4.34	8.82	0.00	250	0	41	1	42

** = Section Force Exceeds Solidity Ratio Criteria

17566 0 8339

LoadCase 1.0D + 1.0W Service 300 deg**Serviceability - 60 mph Wind 300 deg**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{bi} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33 295.00	10.50	7.905	0.000	0.000	0.211	2.56	0.80	1.00	0.0	6.32	16.19	0.00	472	0	144	127	272
32 289.17	10.44	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	134	0	30	26	56

Site Number: 97139

Code:

ANSI/TIA-222-H

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

6/7/2021 2:27:01 PM

Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

31	287.50	10.42	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	134	0	30	26	56
30	285.83	10.40	1.848	0.000	0.000	0.296	2.31	0.80	1.00	0.0	1.48	3.41	0.00	134	0	30	26	56
29	284.17	10.39	1.830	0.000	0.000	0.293	2.31	0.80	1.00	0.0	1.46	3.39	0.00	134	0	30	26	56
28	281.67	10.36	3.174	0.000	0.000	0.254	2.43	0.80	1.00	0.0	2.54	6.16	0.00	219	0	54	52	106
27	270.00	10.24	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1053	0	297	305	602
26	250.00	10.01	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1053	0	290	299	589
25	235.00	9.84	9.680	0.000	0.000	0.256	2.42	0.80	1.00	0.0	7.74	18.73	0.00	623	0	157	147	303
24	229.17	9.77	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	153	0	31	24	55
23	227.50	9.75	2.102	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	153	0	31	24	55
22	225.83	9.73	2.127	0.000	0.000	0.338	2.20	0.80	1.00	0.0	1.70	3.74	0.00	153	0	31	24	55
21	224.17	9.71	2.103	0.000	0.000	0.334	2.21	0.80	1.00	0.0	1.68	3.72	0.00	153	0	31	24	55
20	221.67	9.68	3.768	0.000	0.000	0.299	2.30	0.80	1.00	0.0	3.01	6.93	0.00	257	0	57	48	105
19	210.00	9.53	15.809	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.65	32.38	0.00	1017	0	262	284	547
18	190.00	9.26	15.806	0.000	0.000	0.211	2.56	0.80	1.00	0.0	12.64	32.37	0.00	1017	0	255	276	531
17	170.00	8.97	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1086	0	266	268	534
16	150.00	8.65	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1137	0	251	258	509
15	130.00	8.31	16.941	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.55	34.11	0.00	1137	0	241	248	489
14	115.00	8.02	10.315	0.000	0.000	0.271	2.38	0.80	1.00	0.0	8.25	19.61	0.00	697	0	134	120	253
13	109.17	7.90	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	22	20	41
12	107.50	7.87	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	22	20	41
11	105.83	7.83	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	22	19	41
10	104.17	7.80	1.696	0.000	0.000	0.267	2.39	0.80	1.00	0.0	1.36	3.24	0.00	116	0	21	19	41
9	101.67	7.74	3.443	0.000	0.000	0.271	2.38	0.80	1.00	0.0	2.75	6.54	0.00	232	0	43	39	82
8	90.00	7.48	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1137	0	217	223	440
7	70.00	6.96	16.945	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.56	34.12	0.00	1137	0	202	208	410
6	50.00	6.32	17.528	0.000	0.000	0.232	2.49	0.80	1.00	0.0	14.02	34.95	0.00	1255	0	188	189	377
5	33.33	5.63	11.296	0.000	0.000	0.224	2.52	0.80	1.00	0.0	9.04	22.74	0.00	758	0	109	112	221
4	26.00	5.46	0.738	0.746	0.000	0.295	2.31	0.80	1.00	0.0	1.07	2.47	0.00	89	0	11	11	22
3	23.67	5.46	2.824	0.000	0.000	0.224	2.52	0.80	1.00	0.0	2.26	5.69	0.00	189	0	26	27	54
2	12.00	5.46	16.921	0.000	0.000	0.224	2.52	0.80	1.00	0.0	13.54	34.08	0.00	1137	0	158	163	321
1	1.00	5.46	4.343	0.000	0.000	0.965	2.03	0.80	1.00	0.0	3.47	7.06	0.00	250	0	33	1	34
														17566	0	7409		

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.0D + 1.0W Service 330 deg**Serviceability - 60 mph Wind 330 deg**

Gust Response Factor (Gh): 0.85

Wind Importance Factor (Iw) : 1.00

Section	Elev. (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt. (lb)	Ice Wt. (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
33	295.00	10.50	7.905	0.000	0.000	0.211	2.56	0.85	1.00	0.0	6.72	17.20	0.00	472	0	153	127	281
32	289.17	10.44	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	134	0	32	26	58
31	287.50	10.42	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	134	0	32	26	58
30	285.83	10.40	1.848	0.000	0.000	0.296	2.31	0.85	1.00	0.0	1.57	3.62	0.00	134	0	32	26	58
29	284.17	10.39	1.830	0.000	0.000	0.293	2.31	0.85	1.00	0.0	1.56	3.60	0.00	134	0	32	26	58
28	281.67	10.36	3.174	0.000	0.000	0.254	2.43	0.85	1.00	0.0	2.70	6.54	0.00	219	0	58	52	109
27	270.00	10.24	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1053	0	315	305	621
26	250.00	10.01	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1053	0	309	299	607
25	235.00	9.84	9.680	0.000	0.000	0.256	2.42	0.85	1.00	0.0	8.23	19.90	0.00	623	0	166	147	313
24	229.17	9.77	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	153	0	33	24	57
23	227.50	9.75	2.102	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	153	0	33	24	57
22	225.83	9.73	2.127	0.000	0.000	0.338	2.20	0.85	1.00	0.0	1.81	3.98	0.00	153	0	33	24	57
21	224.17	9.71	2.103	0.000	0.000	0.334	2.21	0.85	1.00	0.0	1.79	3.95	0.00	153	0	33	24	57
20	221.67	9.68	3.768	0.000	0.000	0.299	2.30	0.85	1.00	0.0	3.20	7.36	0.00	257	0	61	48	109
19	210.00	9.53	15.809	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.40	0.00	1017	0	279	284	563
18	190.00	9.26	15.806	0.000	0.000	0.211	2.56	0.85	1.00	0.0	13.44	34.39	0.00	1017	0	271	276	547
17	170.00	8.97	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1086	0	283	268	551
16	150.00	8.65	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1137	0	267	258	525
15	130.00	8.31	16.941	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.24	0.00	1137	0	256	248	504
14	115.00	8.02	10.315	0.000	0.000	0.271	2.38	0.85	1.00	0.0	8.77	20.84	0.00	697	0	142	120	262

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Section Forces

13	109.17	7.90	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	20	43
12	107.50	7.87	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	20	43
11	105.83	7.83	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	19	42
10	104.17	7.80	1.696	0.000	0.000	0.267	2.39	0.85	1.00	0.0	1.44	3.44	0.00	116	0	23	19	42
9	101.67	7.74	3.443	0.000	0.000	0.271	2.38	0.85	1.00	0.0	2.93	6.95	0.00	232	0	46	39	84
8	90.00	7.48	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1137	0	230	223	454
7	70.00	6.96	16.945	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.40	36.25	0.00	1137	0	214	208	422
6	50.00	6.32	17.528	0.000	0.000	0.232	2.49	0.85	1.00	0.0	14.90	37.13	0.00	1255	0	200	189	388
5	33.33	5.63	11.296	0.000	0.000	0.224	2.52	0.85	1.00	0.0	9.60	24.17	0.00	758	0	116	112	228
4	26.00	5.46	0.738	0.746	0.000	0.295	2.31	0.85	1.00	0.0	1.11	2.56	0.00	89	0	12	11	23
3	23.67	5.46	2.824	0.000	0.000	0.224	2.52	0.85	1.00	0.0	2.40	6.04	0.00	189	0	28	27	55
2	12.00	5.46	16.921	0.000	0.000	0.224	2.52	0.85	1.00	0.0	14.38	36.21	0.00	1137	0	168	163	331
1	1.00	5.46	4.343	0.000	0.000	0.965	2.03	0.85	1.00	0.0	3.69	7.50	0.00	250	0	35	1	36

** = Section Force Exceeds Solidity Ratio Criteria

17566 0 7642

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Equivalent Lateral Force Method

Spectral Response Acceleration for Short Period (S_s):	0.09
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.05
Long-Period Transition Period (T_L - Seconds):	8
Importance Factor (I_e):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.10
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s :	0.04
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	0.66
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.08
Total Unfactored Dead Load:	21.26 k
Seismic Base Shear (E):	0.92 k

LoadCase 1.2D + 1.0Ev + 1.0Eh**Seismic**

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
33	295.00	472	222,201	0.040	37	576
32	289.17	134	61,810	0.011	10	164
31	287.50	134	61,425	0.011	10	164
30	285.83	134	61,039	0.011	10	164
29	284.17	134	60,654	0.011	10	164
28	281.67	219	98,039	0.018	16	267
27	270.00	1,053	450,389	0.082	75	1,284
26	250.00	1,053	414,397	0.075	69	1,284
25	235.00	623	229,416	0.042	38	760
24	229.17	153	54,884	0.010	9	187
23	227.50	153	54,452	0.010	9	187
22	225.83	153	54,021	0.010	9	187
21	224.17	153	53,601	0.010	9	187
20	221.67	257	88,841	0.016	15	314
19	210.00	1,017	331,602	0.060	56	1,241
18	190.00	1,017	297,562	0.054	50	1,241
17	170.00	1,086	281,681	0.051	47	1,325
16	150.00	1,137	257,435	0.047	43	1,387
15	130.00	1,137	220,501	0.040	37	1,387
14	115.00	697	118,346	0.021	20	850
13	109.17	116	18,642	0.003	3	142
12	107.50	116	18,336	0.003	3	142
11	105.83	116	18,027	0.003	3	142
10	104.17	116	17,721	0.003	3	142

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Site Name: HIGHWAY 441 NORTH, FL

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Customer: ALLTEL COMMUNICATIONS, LLC

Equivalent Lateral Force Method

9	101.67	232	34,523	0.006	6	283
8	90.00	1,137	148,109	0.027	25	1,387
7	70.00	1,137	112,840	0.020	19	1,387
6	50.00	1,255	86,546	0.016	14	1,531
5	33.33	758	33,702	0.006	6	925
4	26.00	89	3,019	0.001	1	108
3	23.67	189	5,816	0.001	1	231
2	12.00	1,137	16,733	0.003	3	1,387
1	1.00	250	250	0.000	0	305
Commscope CBC1921x-DS-2X	298.00	81	38,795	0.007	6	99
Commscope NHH-65C-R2B	298.00	310	147,374	0.027	25	378
Commscope TD-850B-LTE78-43	298.00	159	75,686	0.014	13	194
Ericsson 8843 Rev 2	298.00	225	107,103	0.019	18	275
Ericsson AIR 6449 B77D/ C-Band	298.00	245	116,528	0.021	20	299
Ericsson Radio 4449 - B13&B5	298.00	210	99,963	0.018	17	256
Raycap RVZDC-6627-PF-48	298.00	64	30,465	0.006	5	78
Round Sector Frame	298.00	900	428,412	0.078	72	1,098
Torque Arms	288.00	500	229,375	0.042	38	610
Torque Arms	228.00	500	178,135	0.032	30	610
Torque Arms	108.00	500	79,352	0.014	13	610
		21,260	5,517,751	1.000	924	25,938

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 1		Base	Bot Elev (ft): 0.00					Height (ft): 2.000								
			Pu		Len	Bracing %			F'y	Phic	Pn Num	Num	Shear	Bear	Use	
Max Compression Member			(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv (kip)	phiRn (kip)	% Controls
LEG	CHN - C6 x 10.5		-50.97	1.2D + 1.0W Normal	2.84	100	100	100	64.5	50.0	126.43	0	0	0.00	0.00	40 Member Y
HORIZ			0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG			0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	
			Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear		
Max Tension Member			(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	Holes	phiRnv (kip)		phiRn (kip)	phit Pn (kip)	Use %	Controls
LEG			0.00		0	0	0.00	0	0	0	0.00		0.00		0	
HORIZ	CHN - C6 x 10.5		21.08	1.2D + 1.0W Normal	36	58	100.12	0	0	0	0.00		0.00	0.00	21	Member
DIAG			0.00		0	0	0.00	0	0	0	0.00		0.00	0.00	0	

Section: 2		4-165	Bot Elev (ft): 2.00					Height (ft): 20.000								
			Pu		Len	Bracing %			F'y	Phic	Pn Num	Num	Shear	Bear	Use	
Max Compression Member			(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv (kip)	phiRn (kip)	% Controls
LEG	PLA - M46-65 LEG		-38.92	1.2D + 1.0W 60 deg	3.33	100	100	100	49.6	50.0	92.39	0	0	0.00	0.00	42 Member Z
HORIZ			0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	PLA - M46-Y LACING		-0.70	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	12 User Input
			Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear		
Max Tension Member			(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	Holes	phiRnv (kip)		phiRn (kip)	phit Pn (kip)	Use %	Controls
LEG			0.00		0	0	0.00	0	0	0	0.00		0.00		0	
HORIZ			0.00		0	0	0.00	0	0	0	0.00		0.00	0.00	0	
DIAG	PLA - M46-Y LACING		0.59	1.2D + 1.0W 60 deg	36	58	6.53	1	1	1	0.00		0.00	0.00	9	User Input

Section: 3		4-865 - bot	Bot Elev (ft): 22.00					Height (ft): 3.333								
			Pu		Len	Bracing %			F'y	Phic	Pn Num	Num	Shear	Bear	Use	
Max Compression Member			(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv (kip)	phiRn (kip)	% Controls
LEG	PLA - M46-65 LEG		-37.85	1.2D + 1.0W 60 deg	3.33	100	100	100	49.6	50.0	92.40	0	0	0.00	0.00	40 Member Z
HORIZ			0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	PLA - M46-Y LACING		-0.52	1.2D + 1.0W 120 deg	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	9 User Input
			Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear		
Max Tension Member			(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	Holes	phiRnv (kip)		phiRn (kip)	phit Pn (kip)	Use %	Controls
LEG			0.00		0	0	0.00	0	0	0	0.00		0.00		0	
HORIZ			0.00		0	0	0.00	0	0	0	0.00		0.00	0.00	0	
DIAG			0.00		0	0	0.00	0	0	0	0.00		0.00	0.00	0	

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Site Name: HIGHWAY 441 NORTH, FL

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 4		4-865 - mid	Bot Elev (ft): 25.33				Height (ft): 1.333									
		Pu			Len	Bracing %			F'y	Phic Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	PLA - M46-65 LEG	-38.33	1.2D + 1.0W 60 deg	1.33	100	100	100	19.8	50.0	101.72	0	0	0.00	0.00	37	Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00		
		Pu			Fy	Fu	Phit Pn	Num	Num	Shear		Bear	Blk Shear		Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	phiRnv	(kip)	phiRn	phit Pn	(kip)	%	Controls
LEG		0.00		0	0	0.00	0	0	0.00	0.00		0.00			0	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00		0.00	0.00		0	
DIAG	PLA - M46-LN	0.53	1.2D + 1.0W 210 deg	36	58	6.53	1	1	0.00	0.00		0.00	0.00		8	User Input

Section: 5		4-865 - top	Bot Elev (ft): 26.67				Height (ft): 13.333									
		Pu			Len	Bracing %			F'y	Phic Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	PLA - M46-65 LEG	-37.21	1.2D + 1.0W 60 deg	3.33	100	100	100	49.6	50.0	92.40	0	0	0.00	0.00	40	Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-Y LACING	-0.64	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	11	User Input
		Pu			Fy	Fu	Phit Pn	Num	Num	Shear		Bear	Blk Shear		Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	phiRnv	(kip)	phiRn	phit Pn	(kip)	%	Controls
LEG		0.00		0	0	0.00	0	0	0.00	0.00		0.00			0	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00		0.00	0.00		0	
DIAG	PLA - M46-Y LACING	0.71	1.2D + 1.0W 90 deg	36	58	6.53	1	1	0.00	0.00		0.00	0.00		10	User Input

Section: 6		4-6166	Bot Elev (ft): 40.00				Height (ft): 20.000									
		Pu			Len	Bracing %			F'y	Phic Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	PLA - M46-66 LEG	-38.76	1.2D + 1.0W Normal	3.33	100	100	100	49.6	50.0	110.70	0	0	0.00	0.00	35	Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-Y LACING	-1.22	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	21	User Input
		Pu			Fy	Fu	Phit Pn	Num	Num	Shear		Bear	Blk Shear		Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	phiRnv	(kip)	phiRn	phit Pn	(kip)	%	Controls
LEG		0.00		0	0	0.00	0	0	0.00	0.00		0.00			0	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00		0.00	0.00		0	
DIAG	PLA - M46-Y LACING	0.99	1.2D + 1.0W 90 deg	36	58	6.53	1	1	0.00	0.00		0.00	0.00		15	User Input

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 7		4-165	Bot Elev (ft): 60.00				Height (ft): 20.000								
		Pu			Len	Bracing %			F'y	Phic Pn	Num	Shear		Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	
LEG	PLA - M46-65 LEG	-34.20	1.2D + 1.0W 60 deg	3.33	100	100	100	49.6	50.0	92.39	0	0	0.00	0.00	37 Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	PLA - M46-Y LACING	-0.53	1.2D + 1.0W 330 deg	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	9 User Input
		Pu			Fy	Fu	Phit Pn	Num	Num	Shear	Bear		Blk Shear	Use	Controls
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phiRn	phiRn	phiRn		
LEG		0.00		0	0	0.00	0	0	0.00	0.00				0	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00			0.00	0	
DIAG	PLA - M46-Y LACING	0.56	1.2D + 1.0W 90 deg	36	58	6.53	1	1	0.00	0.00			0.00	8	User Input

Section: 8		4-165	Bot Elev (ft): 80.00				Height (ft): 20.000								
		Pu			Len	Bracing %			F'y	Phic Pn	Num	Shear		Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	
LEG	PLA - M46-65 LEG	-38.16	1.2D + 1.0W Normal	3.33	100	100	100	49.6	50.0	92.39	0	0	0.00	0.00	41 Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	PLA - M46-Y LACING	-1.54	1.2D + 1.0W 330 deg	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	27 User Input
		Pu			Fy	Fu	Phit Pn	Num	Num	Shear	Bear		Blk Shear	Use	Controls
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phiRn	phiRn	phiRn		
LEG		0.00		0	0	0.00	0	0	0.00	0.00				0	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00			0.00	0	
DIAG	PLA - M46-Y LACING	2.68	1.2D + 1.0W 120 deg	36	58	6.53	1	1	0.00	0.00			0.00	41	User Input

Section: 9		4-476	Bot Elev (ft): 100.0				Height (ft): 3.333								
		Pu			Len	Bracing %			F'y	Phic Pn	Num	Shear		Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	
LEG	PLA - M46-76 LEG	-42.33	1.2D + 1.0W Normal	3.33	100	100	100	44.0	50.0	127.73	0	0	0.00	0.00	33 Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	PLA - M46-T LACING	-2.89	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	10.61	1	1	0.00	12.46	27 User Input
		Pu			Fy	Fu	Phit Pn	Num	Num	Shear	Bear		Blk Shear	Use	Controls
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phiRn	phiRn	phiRn		
LEG		0.00		0	0	0.00	0	0	0.00	0.00				0	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00			0.00	0	
DIAG	PLA - M46-T LACING	1.55	1.2D + 1.0W Normal	36	58	9.34	1	1	0.00	0.00			0.00	16	User Input

Site Number: 97139

Code:

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 10		4-476		Bot Elev (ft): 103.3				Height (ft): 1.667										
Max Compression Member				Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn Num	Num	Shear phiRnv	Bear phiRn	Use			
							X	Y	Z	KL/R	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls	
LEG	PLA - M46-76 LEG			-43.66	1.2D + 1.0W Normal	1.67	200	200	200	44.0	50.0	127.73	0	0	0.00	0.00	34	Member Z
HORIZ				0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-T LACING			-0.85	1.2D + 1.0W 210 deg	2.417	100	100	100	0.0	0.0	10.61	1	1	0.00	12.46	8	User Input
Max Tension Member				Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn	Pn Num	Num	Shear phiRnv	Bear phiRn	Blk Shear phit Pn	Use				
								(kip)	Bolts	Holes	(kip)	(kip)	(kip)	%			Controls	
LEG				0.00		0	0	0.00	0	0	0.00	0.00			0			
HORIZ				0.00		0	0	0.00	0	0	0.00	0.00	0.00		0			
DIAG	PLA - M46-T LACING			1.13	1.2D + 1.0W 90 deg	36	58	9.34	1	1	0.00	0.00	0.00		12		User Input	

Section: 11		4-476		Bot Elev (ft): 105.0				Height (ft): 1.666										
Max Compression Member				Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn Num	Num	Shear phiRnv	Bear phiRn	Use			
							X	Y	Z	KL/R	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls	
LEG	PLA - M46-76 LEG			-46.05	1.2D + 1.0W Normal	1.67	200	200	200	44.0	50.0	127.73	0	0	0.00	0.00	36	Member Z
HORIZ				0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-T LACING			-0.86	1.2D + 1.0W 210 deg	2.417	100	100	100	0.0	0.0	10.61	1	1	0.00	12.46	8	User Input
Max Tension Member				Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn	Pn Num	Num	Shear phiRnv	Bear phiRn	Blk Shear phit Pn	Use				
								(kip)	Bolts	Holes	(kip)	(kip)	(kip)	%			Controls	
LEG				0.00		0	0	0.00	0	0	0.00	0.00			0			
HORIZ				0.00		0	0	0.00	0	0	0.00	0.00	0.00		0			
DIAG	PLA - M46-T LACING			1.16	1.2D + 1.0W 90 deg	36	58	9.34	1	1	0.00	0.00	0.00		12		User Input	

Section: 12		4-476		Bot Elev (ft): 106.6				Height (ft): 1.667										
Max Compression Member				Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn Num	Num	Shear phiRnv	Bear phiRn	Use			
							X	Y	Z	KL/R	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls	
LEG	PLA - M46-76 LEG			-48.00	1.2D + 1.0W 120 deg	1.67	200	200	200	44.0	50.0	127.73	0	0	0.00	0.00	37	Member Z
HORIZ				0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-T LACING			-0.53	1.2D + 1.0W 60 deg	2.417	100	100	100	0.0	0.0	10.61	1	1	0.00	12.46	5	User Input
Max Tension Member				Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn	Pn Num	Num	Shear phiRnv	Bear phiRn	Blk Shear phit Pn	Use				
								(kip)	Bolts	Holes	(kip)	(kip)	(kip)	%			Controls	
LEG				0.00		0	0	0.00	0	0	0.00	0.00			0			
HORIZ				0.00		0	0	0.00	0	0	0.00	0.00	0.00		0			
DIAG	PLA - M46-T LACING			2.15	1.2D + 1.0W 60 deg	36	58	9.34	1	1	0.00	0.00	0.00		23		User Input	

Site Number: 97139

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 13			4-476		Bot Elev (ft): 108.3				Height (ft): 1.666													
					Pu				Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear			
					(kip)	Load Case		(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	phiRnv	phiRn	Use	
Max Compression Member																					Controls	
LEG	PLA - M46-76 LEG				-47.78	1.2D + 1.0W 120 deg	1.67	200	200	200	44.0	50.0	127.73	0	0	0	0	0.00	0.00	37	Member Z	
HORIZ					0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0	0	0.00	0.00	0		
DIAG	PLA - M46-T LACING				-0.59	1.2D + 1.0W 90 deg	2.417	100	100	100	0.0	0.0	10.61	1	1	1	1	0.00	12.46	5	User Input	
					Pu				Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear				
					(kip)	Load Case		(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	(kip)	phiRnv	phiRn	phit	Pn	Use
Max Tension Member																					Controls	
LEG					0.00		0	0	0.00	0	0	0	0.00	0	0	0	0	0.00	0.00	0		
HORIZ					0.00		0	0	0.00	0	0	0	0.00	0	0	0	0	0.00	0.00	0		
DIAG	PLA - M46-T LACING				2.17	1.2D + 1.0W 60 deg	36	58	9.34	1	1	1	0.00	0	0	0	0	0.00	0.00	23	User Input	

Section: 14			4-476		Bot Elev (ft): 110.0				Height (ft): 10.000													
					Pu				Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear			
					(kip)	Load Case		(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	phiRnv	phiRn	Use	
Max Compression Member																					Controls	
LEG	PLA - M46-76 LEG				-45.11	1.2D + 1.0W Normal	3.33	100	100	100	44.0	50.0	127.73	0	0	0	0	0.00	0.00	35	Member Z	
HORIZ					0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0	0	0.00	0.00	0		
DIAG	PLA - M46-T LACING				-3.86	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	10.61	1	1	1	1	0.00	12.46	36	User Input	
					Pu				Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear				
					(kip)	Load Case		(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	(kip)	phiRnv	phiRn	phit	Pn	Use
Max Tension Member																					Controls	
LEG					0.00		0	0	0.00	0	0	0	0.00	0	0	0	0	0.00	0.00	0		
HORIZ					0.00		0	0	0.00	0	0	0	0.00	0	0	0	0	0.00	0.00	0		
DIAG	PLA - M46-T LACING				3.36	1.2D + 1.0W Normal	36	58	9.34	1	1	1	0.00	0	0	0	0	0.00	0.00	36	User Input	

Section: 15			4-165		Bot Elev (ft): 120.0				Height (ft): 20.000													
					Pu				Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear			
					(kip)	Load Case		(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	phiRnv	phiRn	Use	
Max Compression Member																					Controls	
LEG	PLA - M46-65 LEG				-31.42	1.2D + 1.0W Normal	3.33	100	100	100	49.6	50.0	92.39	0	0	0	0	0.00	0.00	34	Member Z	
HORIZ					0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0	0	0.00	0.00	0		
DIAG	PLA - M46-Y LACING				-1.29	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	5.67	1	1	1	1	0.00	8.70	22	User Input	
					Pu				Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear				
					(kip)	Load Case		(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	(kip)	phiRnv	phiRn	phit	Pn	Use
Max Tension Member																					Controls	
LEG					0.00		0	0	0.00	0	0	0	0.00	0	0	0	0	0.00	0.00	0		
HORIZ					0.00		0	0	0.00	0	0	0	0.00	0	0	0	0	0.00	0.00	0		
DIAG	PLA - M46-Y LACING				1.38	1.2D + 1.0W 60 deg	36	58	6.53	1	1	1	0.00	0	0	0	0	0.00	0.00	21	User Input	

Site Number: 97139

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 16		4-165		Bot Elev (ft): 140.0				Height (ft): 20.000												
				Pu				Len	Bracing %			F'y	Phic Pn	Num	Num	Shear	Bear	Use		
Max Compression Member				(kip)	Load Case			(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	PLA - M46-65 LEG			-32.39	1.2D + 1.0W 60 deg			3.33	100	100	100	49.6	50.0	92.39	0	0	0.00	0.00	35	Member Z
HORIZ				0.00				0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-Y LACING			-0.53	1.2D + 1.0W 90 deg			4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	9	User Input
				Pu				Fy	Fu	Phit Pn	Num	Num	Shear		Bear	Blk Shear		Use		
Max Tension Member				(kip)	Load Case			(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	(kip)	phiRn	(kip)	phit Pn	(kip)	%	Controls
LEG				0.00				0	0	0.00	0	0	0.00		0.00				0	
HORIZ				0.00				0	0	0.00	0	0	0.00		0.00		0.00		0	
DIAG	PLA - M46-Y LACING			0.73	1.2D + 1.0W 90 deg			36	58	6.53	1	1	0.00		0.00		0.00		11	User Input

Section: 17		4-6164		Bot Elev (ft): 160.0				Height (ft): 20.000												
				Pu				Len	Bracing %			F'y	Phic Pn	Num	Num	Shear	Bear	Use		
Max Compression Member				(kip)	Load Case			(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	PLA - M46-64 LEG			-28.58	1.2D + 1.0W Normal			3.33	100	100	100	49.5	50.0	74.12	0	0	0.00	0.00	38	Member Z
HORIZ				0.00				0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-Y LACING			-1.44	1.2D + 1.0W 210 deg			4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	25	User Input
				Pu				Fy	Fu	Phit Pn	Num	Num	Shear		Bear	Blk Shear		Use		
Max Tension Member				(kip)	Load Case			(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	(kip)	phiRn	(kip)	phit Pn	(kip)	%	Controls
LEG				0.00				0	0	0.00	0	0	0.00		0.00				0	
HORIZ				0.00				0	0	0.00	0	0	0.00		0.00		0.00		0	
DIAG	PLA - M46-Y LACING			1.19	1.2D + 1.0W 210 deg			36	58	6.53	1	1	0.00		0.00		0.00		18	User Input

Section: 18		4-154		Bot Elev (ft): 180.0				Height (ft): 20.000												
				Pu				Len	Bracing %			F'y	Phic Pn	Num	Num	Shear	Bear	Use		
Max Compression Member				(kip)	Load Case			(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	PLA - M46-54 LEG			-23.98	1.2D + 1.0W Normal			3.33	100	100	100	55.6	50.0	64.21	0	0	0.00	0.00	37	Member Z
HORIZ				0.00				0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-Y LACING			-0.57	1.2D + 1.0W 210 deg			4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	10	User Input
				Pu				Fy	Fu	Phit Pn	Num	Num	Shear		Bear	Blk Shear		Use		
Max Tension Member				(kip)	Load Case			(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	(kip)	phiRn	(kip)	phit Pn	(kip)	%	Controls
LEG				0.00				0	0	0.00	0	0	0.00		0.00				0	
HORIZ				0.00				0	0	0.00	0	0	0.00		0.00		0.00		0	
DIAG	PLA - M46-Y LACING			0.67	1.2D + 1.0W 90 deg			36	58	6.53	1	1	0.00		0.00		0.00		10	User Input

Site Number: 97139

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Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 19			4-154		Bot Elev (ft): 200.0					Height (ft): 20.000											
					Pu				Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear		
					(kip)	Load Case		(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	phiRnv	phiRn	Use
Max Compression Member																					Controls
LEG	PLA - M46-54 LEG				-29.08	1.2D + 1.0W Normal	3.33	100	100	100	55.6	50.0	64.21	0	0	0	0.00	0.00	45	Member Z	
HORIZ					0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0	0.00	0.00	0		
DIAG	PLA - M46-Y LACING				-1.17	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	5.67	1	1	1	0.00	8.70	20	User Input	
					Pu				Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear			
					(kip)	Load Case		(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	(kip)	phit	Pn	Use	Controls
Max Tension Member																					
LEG					0.00		0	0	0.00	0	0	0	0.00			0.00			0		
HORIZ					0.00		0	0	0.00	0	0	0	0.00			0.00		0.00	0		
DIAG	PLA - M46-Y LACING				1.33	1.2D + 1.0W Normal	36	58	6.53	1	1	1	0.00			0.00		0.00	20	User Input	

Section: 20			4-465		Bot Elev (ft): 220.0					Height (ft): 3.333											
					Pu				Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear		
					(kip)	Load Case		(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	phiRnv	phiRn	Use
Max Compression Member																					Controls
LEG	PLA - M46-65 LEG				-31.99	1.2D + 1.0W Normal	3.33	100	100	100	49.6	50.0	92.40	0	0	0	0.00	0.00	34	Member Z	
HORIZ	SAE - 2X2X0.375				-1.11	1.2D + 1.0W Normal	3.500	100	100	100	108.0	36.0	31.01	1	1	1	13.81	26.10	8	Bolt Shear	
DIAG	PLA - M46-T LACING				-1.62	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	10.61	1	1	1	0.00	12.46	15	User Input	
					Pu				Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear			
					(kip)	Load Case		(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	(kip)	phit	Pn	Use	Controls
Max Tension Member																					
LEG					0.00		0	0	0.00	0	0	0	0.00			0.00			0		
HORIZ					0.00		0	0	0.00	0	0	0	0.00			0.00		0.00	0		
DIAG	PLA - M46-T LACING				1.27	1.2D + 1.0W 90 deg	36	58	9.34	1	1	1	0.00			0.00		0.00	13	User Input	

Section: 21			4-465		Bot Elev (ft): 223.3					Height (ft): 1.667											
					Pu				Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear		
					(kip)	Load Case		(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	phiRnv	phiRn	Use
Max Compression Member																					Controls
LEG	PLA - M46-65 LEG				-36.98	1.2D + 1.0W Normal	1.67	200	200	200	49.6	50.0	92.39	0	0	0	0.00	0.00	40	Member Z	
HORIZ	SAE - 2X2X0.375				-3.60	1.2D + 1.0W 60 deg	1.750	50	50	50	27.0	36.0	47.84	1	1	1	13.81	26.10	26	Bolt Shear	
DIAG	PLA - M46-T LACING				-0.86	1.2D + 1.0W Normal	2.417	100	100	100	0.0	0.0	10.61	1	1	1	0.00	12.46	8	User Input	
					Pu				Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk	Shear			
					(kip)	Load Case		(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	(kip)	phit	Pn	Use	Controls
Max Tension Member																					
LEG					0.00		0	0	0.00	0	0	0	0.00			0.00			0		
HORIZ	SAE - 2X2X0.375				0.39	1.2D + 1.0W Normal	36	58	35.96	1	1	1	13.81			15.66		13.66	2	Blk Shear	
DIAG	PLA - M46-T LACING				2.62	1.2D + 1.0W 90 deg	36	58	9.34	1	1	1	0.00			0.00		0.00	28	User Input	

Site Number: 97139

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 22			4-465		Bot Elev (ft): 225.0				Height (ft): 1.666							
			Pu		Len	Bracing %			F'y	Phic	Pn Num	Num	Shear phiRnv	Bear phiRn	Use	
Max Compression Member			(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	% Controls
LEG	PLA - M46-65 LEG		-36.26	1.2D + 1.0W Normal	1.67	200	200	200	49.6	50.0	92.40	0	0	0.00	0.00	39 Member Z
HORIZ	SAE - 2X2X0.375		-4.18	1.2D + 1.0W Normal	3.500	100	100	100	108.0	36.0	31.01	1	1	13.81	26.10	30 Bolt Shear
DIAG	PLA - M46-T LACING		-3.12	1.2D + 1.0W Normal	2.416	100	100	100	0.0	0.0	10.61	1	1	0.00	12.46	29 User Input
			Pu		Fy	Fu	Phit	Pn Num	Num	Shear phiRnv	Bear phiRn	Blk Shear phit	Pn Num	Use		
Max Tension Member			(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)		% Controls		
LEG	PLA - M46-65 LEG		4.99	1.2D + 1.0W 60 deg	50	65	93.15	0	0	0.00	0.00			5 Member		
HORIZ	SAE - 2X2X0.375		1.79	1.2D + 1.0W 180 deg	36	58	35.96	1	1	13.81	15.66	13.66		13 Blk Shear		
DIAG	PLA - M46-T LACING		5.05	1.2D + 1.0W 90 deg	36	58	9.34	1	1	0.00	0.00	0.00		54 User Input		

Section: 23			4-465		Bot Elev (ft): 226.6				Height (ft): 1.666							
			Pu		Len	Bracing %			F'y	Phic	Pn Num	Num	Shear phiRnv	Bear phiRn	Use	
Max Compression Member			(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	% Controls
LEG	PLA - M46-65 LEG		-41.67	1.2D + 1.0W 120 deg	1.67	200	200	200	49.6	50.0	92.40	0	0	0.00	0.00	45 Member Z
HORIZ	SAE - 2X2X0.375		-5.23	1.2D + 1.0W 90 deg	1.750	50	50	50	27.0	36.0	47.84	1	1	13.81	26.10	37 Bolt Shear
DIAG	PLA - M46-T LACING		-4.91	1.2D + 1.0W 120 deg	2.416	100	100	100	0.0	0.0	10.61	1	1	0.00	12.46	46 User Input
			Pu		Fy	Fu	Phit	Pn Num	Num	Shear phiRnv	Bear phiRn	Blk Shear phit	Pn Num	Use		
Max Tension Member			(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)		% Controls		
LEG	PLA - M46-65 LEG		14.74	1.2D + 1.0W 60 deg	50	65	93.15	0	0	0.00	0.00			15 Member		
HORIZ	SAE - 2X2X0.375		11.13	1.2D + 1.0W 90 deg	36	58	35.96	1	1	13.81	15.66	13.66		81 Blk Shear		
DIAG	PLA - M46-T LACING		3.35	1.2D + 1.0W 90 deg	36	58	9.34	1	1	0.00	0.00	0.00		35 User Input		

Section: 24			4-465		Bot Elev (ft): 228.3				Height (ft): 1.666							
			Pu		Len	Bracing %			F'y	Phic	Pn Num	Num	Shear phiRnv	Bear phiRn	Use	
Max Compression Member			(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	% Controls
LEG	PLA - M46-65 LEG		-41.23	1.2D + 1.0W Normal	1.67	200	200	200	49.6	50.0	92.40	0	0	0.00	0.00	44 Member Z
HORIZ	SAE - 2X2X0.375		-2.92	1.2D + 1.0W Normal	3.500	100	100	100	108.0	36.0	31.01	1	1	13.81	26.10	21 Bolt Shear
DIAG	PLA - M46-T LACING		-3.57	1.2D + 1.0W 120 deg	2.416	100	100	100	0.0	0.0	10.61	1	1	0.00	12.46	33 User Input
			Pu		Fy	Fu	Phit	Pn Num	Num	Shear phiRnv	Bear phiRn	Blk Shear phit	Pn Num	Use		
Max Tension Member			(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)		% Controls		
LEG	PLA - M46-65 LEG		14.99	1.2D + 1.0W 60 deg	50	65	93.15	0	0	0.00	0.00			16 Member		
HORIZ	SAE - 2X2X0.375		2.75	1.2D + 1.0W 60 deg	36	58	35.96	1	1	13.81	15.66	13.66		20 Blk Shear		
DIAG	PLA - M46-T LACING		2.76	1.2D + 1.0W 120 deg	36	58	9.34	1	1	0.00	0.00	0.00		29 User Input		

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 25		4-465		Bot Elev (ft): 230.0				Height (ft): 10.000								
		Pu		Len	Bracing %			F'y	Phic Pn	Num	Num	Shear	Bear	Use		
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	PLA - M46-65 LEG	-38.43	1.2D + 1.0W Normal	3.33	100	100	100	49.6	50.0	92.39	0	0	0.00	0.00	41	Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-T LACING	-2.62	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	10.61	1	1	0.00	12.46	24	User Input
		Pu		Fy	Fu	Phit Pn	Num	Num	Shear	Bear	Blk Shear	Use				
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phit Pn	%	Controls			
LEG	PLA - M46-65 LEG	10.69	1.2D + 1.0W 60 deg	50	65	93.15	0	0	0.00	0.00		11	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00	0				
DIAG	PLA - M46-T LACING	2.14	1.2D + 1.0W 90 deg	36	58	9.34	1	1	0.00	0.00	0.00	22	User Input			

Section: 26		4-164		Bot Elev (ft): 240.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic Pn	Num	Num	Shear	Bear	Use		
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	PLA - M46-64 LEG	-23.64	1.2D + 1.0W Normal	3.33	100	100	100	49.5	50.0	74.12	0	0	0.00	0.00	31	Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-Y LACING	-1.61	1.2D + 1.0W 90 deg	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	28	User Input
		Pu		Fy	Fu	Phit Pn	Num	Num	Shear	Bear	Blk Shear	Use				
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phit Pn	%	Controls			
LEG		0.00		0	0	0.00	0	0	0.00	0.00		0				
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00	0				
DIAG	PLA - M46-Y LACING	1.67	1.2D + 1.0W 90 deg	36	58	6.53	1	1	0.00	0.00	0.00	25	User Input			

Section: 27		4-164		Bot Elev (ft): 260.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic Pn	Num	Num	Shear	Bear	Use		
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	PLA - M46-64 LEG	-18.15	1.2D + 1.0W 60 deg	3.33	100	100	100	49.5	50.0	74.12	0	0	0.00	0.00	24	Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	PLA - M46-Y LACING	-0.59	1.2D + 1.0W Normal	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	10	User Input
		Pu		Fy	Fu	Phit Pn	Num	Num	Shear	Bear	Blk Shear	Use				
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phit Pn	%	Controls			
LEG		0.00		0	0	0.00	0	0	0.00	0.00		0				
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00	0				
DIAG	PLA - M46-Y LACING	0.55	1.2D + 1.0W 60 deg	36	58	6.53	1	1	0.00	0.00	0.00	8	User Input			

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 28		4-454		Bot Elev (ft): 280.0				Height (ft): 3.333								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	PLA - M46-54 LEG	-15.57	1.2D + 1.0W 60 deg	3.33	100	100	100	55.6	50.0	64.21	0	0	0.00	0.00	24	Member Z
HORIZ	SAE - 2X2X0.375	-0.97	1.2D + 1.0W 90 deg	3.500	100	100	100	108.0	36.0	31.01	1	1	13.81	26.10	7	Bolt Shear
DIAG	PLA - M46-Y LACING	-0.75	1.2D + 1.0W 210 deg	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	13	User Input
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear		Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit Pn		%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ		0.00		0	0	0.00	0	0		0.00		0.00	0.00		0	
DIAG	PLA - M46-Y LACING	0.39	1.2D + 1.0W 90 deg	36	58	6.53	1	1		0.00		0.00	0.00		6	User Input

Section: 29		4-454		Bot Elev (ft): 283.3				Height (ft): 1.667								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	PLA - M46-54 LEG	-15.86	1.2D + 1.0W 60 deg	1.67	200	200	200	55.6	50.0	64.21	0	0	0.00	0.00	24	Member Z
HORIZ	SAE - 2X2X0.375	-3.73	1.2D + 1.0W 60 deg	1.750	50	50	50	27.0	36.0	47.84	1	1	13.81	26.10	27	Bolt Shear
DIAG		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00		
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear		Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit Pn		%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ		0.00		0	0	0.00	0	0		0.00		0.00	0.00		0	
DIAG	PLA - M46-Y LACING	2.14	1.2D + 1.0W 90 deg	36	58	6.53	1	1		0.00		0.00	0.00		32	User Input

Section: 30		4-454		Bot Elev (ft): 285.0				Height (ft): 1.667								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	PLA - M46-54 LEG	-5.83	1.2D + 1.0W Normal	1.67	200	200	200	55.6	50.0	64.21	0	0	0.00	0.00	9	Member Z
HORIZ	SAE - 2X2X0.375	-2.90	1.2D + 1.0W 210 deg	3.500	100	100	100	108.0	36.0	31.01	1	1	13.81	26.10	21	Bolt Shear
DIAG	PLA - M46-Y LACING	-1.93	1.2D + 1.0W 210 deg	2.417	100	100	100	0.0	0.0	5.67	1	1	0.00	8.70	34	User Input
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk Shear		Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit Pn		%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SAE - 2X2X0.375	0.00	1.2D + 1.0W 60 deg	36	58	35.96	1	1		13.81		15.66	13.66		0	Blk Shear
DIAG	PLA - M46-Y LACING	4.66	1.2D + 1.0W 90 deg	36	58	6.53	1	1		0.00		0.00	0.00		71	User Input

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Force/Stress Summary

Section: 31		4-454		Bot Elev (ft): 286.6				Height (ft): 1.667							
		Pu			Len	Bracing %			F'y	Phic Pn	Num	Num	Shear phiRnv	Bear phiRn	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	% Controls
LEG	PLA - M46-54 LEG	-11.19	1.2D + 1.0W Normal	1.67	200	200	200	55.6	50.0	64.21	0	0	0.00	0.00	17 Member Z
HORIZ	SAE - 2X2X0.375	-4.03	1.2D + 1.0W 90 deg	1.750	50	50	50	27.0	36.0	47.84	1	1	13.81	26.10	29 Bolt Shear
DIAG	PLA - M46-Y LACING	-3.23	1.2D + 1.0W 90 deg	2.417	100	100	100	0.0	0.0	5.67	1	1	0.00	8.70	57 User Input
		Pu			Fy	Fu	Phit Pn	Num	Num	Shear phiRnv	Bear phiRn	Blk Shear phit Pn	Use		
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	%	Controls	
LEG	PLA - M46-54 LEG	8.04	1.2D + 1.0W 60 deg	50	65	66.79	0	0	0.00	0.00			12	Member	
HORIZ	SAE - 2X2X0.375	9.83	1.2D + 1.0W 90 deg	36	58	35.96	1	1	13.81	15.66		13.66	71	Blk Shear	
DIAG	PLA - M46-Y LACING	3.12	1.2D + 1.0W 60 deg	36	58	6.53	1	1	0.00	0.00		0.00	47	User Input	

Section: 32		4-454		Bot Elev (ft): 288.3				Height (ft): 1.667							
		Pu			Len	Bracing %			F'y	Phic Pn	Num	Num	Shear phiRnv	Bear phiRn	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	% Controls
LEG	PLA - M46-54 LEG	-10.96	1.2D + 1.0W Normal	1.67	200	200	200	55.6	50.0	64.21	0	0	0.00	0.00	17 Member Z
HORIZ	SAE - 2X2X0.375	-1.54	1.2D + 1.0W 210 deg	3.500	100	100	100	108.0	36.0	31.01	1	1	13.81	26.10	11 Bolt Shear
DIAG	PLA - M46-Y LACING	-1.77	1.2D + 1.0W 120 deg	2.417	100	100	100	0.0	0.0	5.67	1	1	0.00	8.70	31 User Input
		Pu			Fy	Fu	Phit Pn	Num	Num	Shear phiRnv	Bear phiRn	Blk Shear phit Pn	Use		
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	%	Controls	
LEG	PLA - M46-54 LEG	8.30	1.2D + 1.0W 60 deg	50	65	66.79	0	0	0.00	0.00			12	Member	
HORIZ	SAE - 2X2X0.375	0.68	1.2D + 1.0W 60 deg	36	58	35.96	1	1	13.81	15.66		13.66	4	Blk Shear	
DIAG	PLA - M46-Y LACING	2.22	1.2D + 1.0W 210 deg	36	58	6.53	1	1	0.00	0.00		0.00	33	User Input	

Section: 33		4-454		Bot Elev (ft): 290.0				Height (ft): 10.000							
		Pu			Len	Bracing %			F'y	Phic Pn	Num	Num	Shear phiRnv	Bear phiRn	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	% Controls
LEG	PLA - M46-54 LEG	-7.57	1.2D + 1.0W Normal	3.33	100	100	100	55.6	50.0	64.21	0	0	0.00	0.00	11 Member Z
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	PLA - M46-Y LACING	-1.88	1.2D + 1.0W 330 deg	4.833	50	50	50	0.0	0.0	5.67	1	1	0.00	8.70	33 User Input
		Pu			Fy	Fu	Phit Pn	Num	Num	Shear phiRnv	Bear phiRn	Blk Shear phit Pn	Use		
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	(kip)	(kip)	%	Controls	
LEG	PLA - M46-54 LEG	5.35	1.2D + 1.0W 60 deg	50	65	66.79	0	0	0.00	0.00			8	Member	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00		0.00	0		
DIAG	PLA - M46-Y LACING	1.85	1.2D + 1.0W 210 deg	36	58	6.53	1	1	0.00	0.00		0.00	28	User Input	

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Detailed Reactions

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.2D + 1.0W Normal	0.00	00.00		1	0.00	106.41	-0.88	
	170.00	-01.00	0	A1	0.00	-0.54	1.17	
	169.00	00.00	240	A1a	-16.72	-12.66	-10.20	
	170.00	-01.00	120	A1b	16.72	-12.70	-10.20	
	241.00	-01.00	0	A2	0.00	-2.72	1.91	
	240.00	00.00	240	A2a	-19.42	-23.69	-12.53	
	241.00	-01.00	120	A2b	19.42	-23.68	-12.53	
1.2D + 1.0W 60 deg	0.00	00.00		1	-0.75	103.58	-0.43	
	170.00	-01.00	0	A1	-0.45	-4.44	7.15	
	169.00	00.00	240	A1a	-20.76	-15.62	-11.98	
	170.00	-01.00	120	A1b	5.97	-4.44	-3.96	
	241.00	-01.00	0	A2	-1.09	-10.10	9.16	
	240.00	00.00	240	A2a	-24.82	-29.32	-14.33	
	241.00	-01.00	120	A2b	7.39	-10.10	-5.52	
1.2D + 1.0W 90 deg	0.00	00.00		1	-0.83	104.23	-0.07	
	170.00	-01.00	0	A1	-0.58	-8.14	12.77	
	169.00	00.00	240	A1a	-19.85	-14.85	-11.21	
	170.00	-01.00	120	A1b	2.48	-1.77	-1.66	
	241.00	-01.00	0	A2	-1.36	-16.54	15.79	
	240.00	00.00	240	A2a	-23.89	-27.87	-13.13	
	241.00	-01.00	120	A2b	3.34	-5.07	-2.54	
1.2D + 1.0W 120 deg	0.00	00.00		1	-0.77	106.41	0.44	
	170.00	-01.00	0	A1	-0.47	-12.69	19.58	
	169.00	00.00	240	A1a	-17.19	-12.66	-9.38	
	170.00	-01.00	120	A1b	1.02	-0.54	-0.59	
	241.00	-01.00	0	A2	-1.14	-23.68	23.08	
	240.00	00.00	240	A2a	-20.56	-23.70	-10.56	
	241.00	-01.00	120	A2b	1.66	-2.72	-0.96	
1.2D + 1.0W 180 deg	0.00	00.00		1	0.00	103.51	0.87	
	170.00	-01.00	0	A1	0.00	-15.65	23.93	
	169.00	00.00	240	A1a	-6.39	-4.41	-3.17	
	170.00	-01.00	120	A1b	6.39	-4.42	-3.17	
	241.00	-01.00	0	A2	0.00	-29.32	28.66	
	240.00	00.00	240	A2a	-8.46	-10.07	-3.63	
	241.00	-01.00	120	A2b	8.46	-10.07	-3.63	
1.2D + 1.0W 210 deg	0.00	00.00		1	0.35	104.24	0.76	
	170.00	-01.00	0	A1	0.22	-14.88	22.77	
	169.00	00.00	240	A1a	-2.65	-1.74	-1.30	
	170.00	-01.00	120	A1b	11.34	-8.14	-5.88	
	241.00	-01.00	0	A2	0.58	-27.87	27.28	
	240.00	00.00	240	A2a	-3.85	-5.04	-1.61	
	241.00	-01.00	120	A2b	14.38	-16.57	-6.73	
1.2D + 1.0W 240 deg	0.00	00.00		1	0.77	106.41	0.44	
	170.00	-01.00	0	A1	0.47	-12.69	19.57	
	169.00	00.00	240	A1a	-1.01	-0.53	-0.58	
	170.00	-01.00	120	A1b	17.19	-12.69	-9.38	
	241.00	-01.00	0	A2	1.14	-23.68	23.08	
	240.00	00.00	240	A2a	-1.65	-2.71	-0.95	
	241.00	-01.00	120	A2b	20.55	-23.68	-10.55	
1.2D + 1.0W 300 deg	0.00	00.00		1	0.75	103.48	-0.43	
	170.00	-01.00	0	A1	0.45	-4.42	7.11	
	169.00	00.00	240	A1a	-5.94	-4.41	-3.94	
	170.00	-01.00	120	A1b	20.73	-15.64	-11.97	
	241.00	-01.00	0	A2	1.09	-10.08	9.14	

Site Number: 97139

Code:

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

	240.00	00.00	240	A2a	-7.37	-10.08	-5.51
	241.00	-01.00	120	A2b	24.80	-29.29	-14.32
1.2D + 1.0W 330 deg	0.00	00.00		1	0.48	104.19	-0.68
	170.00	-01.00	0	A1	0.20	-1.76	2.96
	169.00	00.00	240	A1a	-10.76	-8.11	-6.88
	170.00	-01.00	120	A1b	19.63	-14.88	-11.58
	241.00	-01.00	0	A2	0.53	-5.06	4.16
	240.00	00.00	240	A2a	-12.99	-16.54	-9.07
	241.00	-01.00	120	A2b	23.31	-27.84	-14.12
1.2D + 1.0Di + 1.0Wi Normal	0.00	00.00		1	0.00	88.30	-0.10
	170.00	-01.00	0	A1	0.00	-6.10	10.56
	169.00	00.00	240	A1a	-10.57	-7.19	-6.17
	170.00	-01.00	120	A1b	10.57	-7.21	-6.17
	241.00	-01.00	0	A2	0.00	-9.26	9.20
	240.00	00.00	240	A2a	-9.53	-11.07	-5.66
	241.00	-01.00	120	A2b	9.53	-11.06	-5.66
1.2D + 1.0Di + 1.0Wi 60 deg	0.00	00.00		1	-0.08	87.88	-0.04
	170.00	-01.00	0	A1	-0.06	-6.48	11.12
	169.00	00.00	240	A1a	-10.97	-7.48	-6.33
	170.00	-01.00	120	A1b	9.60	-6.48	-5.61
	241.00	-01.00	0	A2	-0.14	-9.81	9.76
	240.00	00.00	240	A2a	-10.01	-11.53	-5.78
	241.00	-01.00	120	A2b	8.38	-9.81	-5.00
1.2D + 1.0Di + 1.0Wi 90 deg	0.00	00.00		1	-0.09	88.09	0.00
	170.00	-01.00	0	A1	-0.07	-6.83	11.66
	169.00	00.00	240	A1a	-10.90	-7.41	-6.26
	170.00	-01.00	120	A1b	9.29	-6.23	-5.39
	241.00	-01.00	0	A2	-0.17	-10.42	10.40
	240.00	00.00	240	A2a	-9.96	-11.43	-5.67
	241.00	-01.00	120	A2b	8.07	-9.42	-4.74
1.2D + 1.0Di + 1.0Wi 120 deg	0.00	00.00		1	-0.08	88.30	0.05
	170.00	-01.00	0	A1	-0.06	-7.21	12.24
	169.00	00.00	240	A1a	-10.63	-7.19	-6.07
	170.00	-01.00	120	A1b	9.15	-6.10	-5.28
	241.00	-01.00	0	A2	-0.14	-11.06	11.08
	240.00	00.00	240	A2a	-9.67	-11.07	-5.42
	241.00	-01.00	120	A2b	7.97	-9.26	-4.60
1.2D + 1.0Di + 1.0Wi 180 deg	0.00	00.00		1	0.00	87.88	0.09
	170.00	-01.00	0	A1	0.00	-7.50	12.66
	169.00	00.00	240	A1a	-9.65	-6.45	-5.51
	170.00	-01.00	120	A1b	9.65	-6.48	-5.51
	241.00	-01.00	0	A2	0.00	-11.53	11.56
	240.00	00.00	240	A2a	-8.52	-9.82	-4.76
	241.00	-01.00	120	A2b	8.52	-9.81	-4.76
1.2D + 1.0Di + 1.0Wi 210 deg	0.00	00.00		1	0.05	88.08	0.08
	170.00	-01.00	0	A1	0.03	-7.43	12.56
	169.00	00.00	240	A1a	-9.31	-6.20	-5.35
	170.00	-01.00	120	A1b	10.13	-6.83	-5.76
	241.00	-01.00	0	A2	0.07	-11.42	11.46
	240.00	00.00	240	A2a	-8.14	-9.43	-4.62
	241.00	-01.00	120	A2b	9.10	-10.42	-5.05
1.2D + 1.0Di + 1.0Wi 240 deg	0.00	00.00		1	0.09	88.29	0.05
	170.00	-01.00	0	A1	0.06	-7.21	12.23
	169.00	00.00	240	A1a	-9.15	-6.08	-5.28
	170.00	-01.00	120	A1b	10.62	-7.21	-6.07
	241.00	-01.00	0	A2	0.14	-11.06	11.08
	240.00	00.00	240	A2a	-7.97	-9.27	-4.60
	241.00	-01.00	120	A2b	9.67	-11.06	-5.42
1.2D + 1.0Di + 1.0Wi 300 deg	0.00	00.00		1	0.08	87.88	-0.04

Site Number: 97139

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

	170.00	-01.00	0	A1	0.06	-6.48	11.11
	169.00	00.00	240	A1a	-9.59	-6.45	-5.61
	170.00	-01.00	120	A1b	10.96	-7.50	-6.33
	241.00	-01.00	0	A2	0.14	-9.81	9.76
	240.00	00.00	240	A2a	-8.38	-9.82	-5.00
	241.00	-01.00	120	A2b	10.01	-11.53	-5.78
1.2D + 1.0Di + 1.0Wi 330 deg	0.00	00.00		1	0.05	88.08	-0.08
	170.00	-01.00	0	A1	0.03	-6.22	10.74
	169.00	00.00	240	A1a	-10.06	-6.81	-5.89
	170.00	-01.00	120	A1b	10.87	-7.43	-6.30
	241.00	-01.00	0	A2	0.07	-9.42	9.36
	240.00	00.00	240	A2a	-8.92	-10.43	-5.35
	241.00	-01.00	120	A2b	9.89	-11.42	-5.79
1.2D + 1.0Ev + 1.0Eh Normal M1	0.00	00.00		1	0.00	73.53	0.00
	170.00	-01.00	0	A1	0.00	-5.51	9.27
	169.00	00.00	240	A1a	-8.26	-5.70	-4.77
	170.00	-01.00	120	A1b	8.26	-5.72	-4.77
	241.00	-01.00	0	A2	0.00	-8.25	8.18
	240.00	00.00	240	A2a	-7.65	-8.97	-4.42
	241.00	-01.00	120	A2b	7.65	-8.96	-4.42
1.2D + 1.0Ev + 1.0Eh 60 deg M1	0.00	00.00		1	0.00	73.53	0.00
	170.00	-01.00	0	A1	0.00	-5.58	9.36
	169.00	00.00	240	A1a	-8.34	-5.77	-4.82
	170.00	-01.00	120	A1b	8.10	-5.58	-4.68
	241.00	-01.00	0	A2	0.00	-8.49	8.40
	240.00	00.00	240	A2a	-7.84	-9.21	-4.53
	241.00	-01.00	120	A2b	7.28	-8.49	-4.20
1.2D + 1.0Ev + 1.0Eh 90 deg M1	0.00	00.00		1	0.00	73.53	0.00
	170.00	-01.00	0	A1	0.00	-5.65	9.45
	169.00	00.00	240	A1a	-8.32	-5.75	-4.80
	170.00	-01.00	120	A1b	8.05	-5.53	-4.65
	241.00	-01.00	0	A2	0.00	-8.72	8.62
	240.00	00.00	240	A2a	-7.79	-9.14	-4.50
	241.00	-01.00	120	A2b	7.14	-8.31	-4.12
1.2D + 1.0Ev + 1.0Eh 120 deg M1	0.00	00.00		1	0.00	73.53	0.00
	170.00	-01.00	0	A1	0.00	-5.72	9.54
	169.00	00.00	240	A1a	-8.26	-5.70	-4.77
	170.00	-01.00	120	A1b	8.02	-5.51	-4.63
	241.00	-01.00	0	A2	0.00	-8.96	8.84
	240.00	00.00	240	A2a	-7.65	-8.97	-4.42
	241.00	-01.00	120	A2b	7.09	-8.25	-4.09
1.2D + 1.0Ev + 1.0Eh 180 deg M1	0.00	00.00		1	0.00	73.52	0.00
	170.00	-01.00	0	A1	0.00	-5.79	9.63
	169.00	00.00	240	A1a	-8.10	-5.56	-4.68
	170.00	-01.00	120	A1b	8.10	-5.58	-4.68
	241.00	-01.00	0	A2	0.00	-9.20	9.05
	240.00	00.00	240	A2a	-7.28	-8.49	-4.20
	241.00	-01.00	120	A2b	7.28	-8.48	-4.20
1.2D + 1.0Ev + 1.0Eh 210 deg M1	0.00	00.00		1	0.00	73.52	0.00
	170.00	-01.00	0	A1	0.00	-5.77	9.61
	169.00	00.00	240	A1a	-8.05	-5.51	-4.64
	170.00	-01.00	120	A1b	8.18	-5.65	-4.72
	241.00	-01.00	0	A2	0.00	-9.14	8.99
	240.00	00.00	240	A2a	-7.14	-8.31	-4.12
	241.00	-01.00	120	A2b	7.46	-8.72	-4.31
1.2D + 1.0Ev + 1.0Eh 240 deg M1	0.00	00.00		1	0.00	73.52	0.00
	170.00	-01.00	0	A1	0.00	-5.72	9.54
	169.00	00.00	240	A1a	-8.02	-5.49	-4.63
	170.00	-01.00	120	A1b	8.26	-5.72	-4.77
	241.00	-01.00	0	A2	0.00	-8.96	8.83
	240.00	00.00	240	A2a	-7.09	-8.25	-4.09

Site Number: 97139

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

	241.00	-01.00	120	A2b	7.65	-8.96	-4.42
1.2D + 1.0Ev + 1.0Eh 300 deg M1	0.00	00.00		1	0.00	73.52	0.00
	170.00	-01.00	0	A1	0.00	-5.58	9.36
	169.00	00.00	240	A1a	-8.10	-5.56	-4.68
	170.00	-01.00	120	A1b	8.34	-5.79	-4.82
	241.00	-01.00	0	A2	0.00	-8.48	8.40
	240.00	00.00	240	A2a	-7.28	-8.49	-4.20
	241.00	-01.00	120	A2b	7.84	-9.20	-4.53
1.2D + 1.0Ev + 1.0Eh 330 deg M1	0.00	00.00		1	0.00	73.52	0.00
	170.00	-01.00	0	A1	0.00	-5.53	9.29
	169.00	00.00	240	A1a	-8.18	-5.63	-4.72
	170.00	-01.00	120	A1b	8.32	-5.77	-4.80
	241.00	-01.00	0	A2	0.00	-8.31	8.24
	240.00	00.00	240	A2a	-7.46	-8.73	-4.31
	241.00	-01.00	120	A2b	7.79	-9.14	-4.50
1.0D + 1.0W Service Normal	0.00	00.00		1	0.00	70.95	-0.32
	170.00	-01.00	0	A1	0.00	-3.61	6.40
	169.00	00.00	240	A1a	-9.75	-6.89	-5.77
	170.00	-01.00	120	A1b	9.75	-6.91	-5.77
	241.00	-01.00	0	A2	0.00	-5.62	5.48
	240.00	00.00	240	A2a	-9.30	-11.03	-5.70
	241.00	-01.00	120	A2b	9.30	-11.03	-5.71
1.0D + 1.0W Service 60 deg	0.00	00.00		1	-0.24	71.38	-0.14
	170.00	-01.00	0	A1	-0.12	-4.83	8.18
	169.00	00.00	240	A1a	-10.90	-7.75	-6.29
	170.00	-01.00	120	A1b	7.02	-4.83	-4.19
	241.00	-01.00	0	A2	-0.29	-7.77	7.55
	240.00	00.00	240	A2a	-10.93	-12.79	-6.31
	241.00	-01.00	120	A2b	6.40	-7.77	-4.03
1.0D + 1.0W Service 90 deg	0.00	00.00		1	-0.29	71.15	0.00
	170.00	-01.00	0	A1	-0.15	-5.80	9.66
	169.00	00.00	240	A1a	-10.65	-7.52	-6.09
	170.00	-01.00	120	A1b	6.08	-4.07	-3.57
	241.00	-01.00	0	A2	-0.35	-9.35	9.18
	240.00	00.00	240	A2a	-10.57	-12.26	-5.94
	241.00	-01.00	120	A2b	5.31	-6.41	-3.23
1.0D + 1.0W Service 120 deg	0.00	00.00		1	-0.27	70.95	0.16
	170.00	-01.00	0	A1	-0.12	-6.91	11.33
	169.00	00.00	240	A1a	-9.87	-6.89	-5.56
	170.00	-01.00	120	A1b	5.55	-3.61	-3.20
	241.00	-01.00	0	A2	-0.29	-11.02	10.91
	240.00	00.00	240	A2a	-9.59	-11.03	-5.20
	241.00	-01.00	120	A2b	4.76	-5.63	-2.75
1.0D + 1.0W Service 180 deg	0.00	00.00		1	0.00	71.36	0.28
	170.00	-01.00	0	A1	0.00	-7.76	12.57
	169.00	00.00	240	A1a	-7.13	-4.81	-3.98
	170.00	-01.00	120	A1b	7.13	-4.83	-3.98
	241.00	-01.00	0	A2	0.00	-12.78	12.61
	240.00	00.00	240	A2a	-6.68	-7.77	-3.52
	241.00	-01.00	120	A2b	6.68	-7.77	-3.52
1.0D + 1.0W Service 210 deg	0.00	00.00		1	0.15	71.14	0.25
	170.00	-01.00	0	A1	0.05	-7.54	12.26
	169.00	00.00	240	A1a	-6.12	-4.04	-3.47
	170.00	-01.00	120	A1b	8.43	-5.80	-4.69
	241.00	-01.00	0	A2	0.14	-12.25	12.12
	240.00	00.00	240	A2a	-5.45	-6.41	-2.98
	241.00	-01.00	120	A2b	8.13	-9.35	-4.28
1.0D + 1.0W Service 240 deg	0.00	00.00		1	0.28	70.95	0.16
	170.00	-01.00	0	A1	0.12	-6.90	11.31

Site Number: 97139

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

	169.00	00.00	240	A1a	-5.54	-3.60	-3.20
	170.00	-01.00	120	A1b	9.86	-6.90	-5.55
	241.00	-01.00	0	A2	0.29	-11.02	10.90
	240.00	00.00	240	A2a	-4.77	-5.65	-2.75
	241.00	-01.00	120	A2b	9.58	-11.02	-5.20
1.0D + 1.0W Service 300 deg	0.00	00.00		1	0.24	71.36	-0.14
	170.00	-01.00	0	A1	0.12	-4.83	8.17
	169.00	00.00	240	A1a	-7.01	-4.81	-4.19
	170.00	-01.00	120	A1b	10.89	-7.76	-6.29
	241.00	-01.00	0	A2	0.29	-7.77	7.55
	240.00	00.00	240	A2a	-6.39	-7.77	-4.02
	241.00	-01.00	120	A2b	10.92	-12.78	-6.31
1.0D + 1.0W Service 330 deg	0.00	00.00		1	0.14	71.14	-0.25
	170.00	-01.00	0	A1	0.05	-4.06	7.03
	169.00	00.00	240	A1a	-8.28	-5.78	-4.96
	170.00	-01.00	120	A1b	10.60	-7.55	-6.18
	241.00	-01.00	0	A2	0.14	-6.38	6.19
	240.00	00.00	240	A2a	-7.76	-9.34	-4.89
	241.00	-01.00	120	A2b	10.45	-12.28	-6.20

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Site Name: HIGHWAY 441 NORTH, FL

Engineering Number: 13686693_C3_02

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Customer: ALLTEL COMMUNICATIONS, LLC

Guy Anchor Design Loads

Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (kip)	Shear (kip)
170.00	-1.00	0	15.65	23.93
169.00	0.00	240	15.62	23.97
170.00	-1.00	120	15.64	23.93
241.00	-1.00	0	29.32	28.66
240.00	0.00	240	29.32	28.66
241.00	-1.00	120	29.29	28.63

Maximum Cable Forces Summary

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allow Tension (kip)	Applied Tension (kip)	Use %
1.2D + 1.0W 60 deg	49.99	9/16 EHS	A1a	17b	21.00	6.56	31
1.2D + 1.0W 60 deg	108.33	1/2 EHS	A1a	T2a	16.14	6.05	38
1.2D + 1.0W 60 deg	169.99	5/8 EHS	A1a	55b	25.44	10.72	42
1.2D + 1.0W 60 deg	228.33	5/8 EHS	A2a	T4a	25.44	10.72	42
1.2D + 1.0W 60 deg	288.33	9/16 EHS	A2a	T5a	21.00	10.18	48

Maximum Torque Arm Stress Summary

Load Case	Elevation (ft)	Member	Type	Compression %	Tension %
1.2D + 1.0W Normal	49.99	2X2X0.25	Horiz		11
1.2D + 1.0W Normal	108.33	3X3X0.25	Horiz		11
1.2D + 1.0W 60 deg	108.33	3X3X0.25	Kicker	15	
1.2D + 1.0W Normal	169.99	2X2X0.25	Horiz		13
1.2D + 1.0W 90 deg	228.33	3X3X0.25	Horiz		32
1.2D + 1.0W 60 deg	228.33	3X3X0.25	Kicker	36	
1.2D + 1.0W 90 deg	288.33	3X3X0.25	Horiz		31
1.2D + 1.0W 60 deg	288.33	3X3X0.25	Kicker	37	

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Customer: ALLTEL COMMUNICATIONS, LLC

Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
116 mph Normal with No Ice	108.33	0.343	0.1034	0.5194	0.5297
116 mph Normal with No Ice	228.33	0.768	0.0143	0.2192	0.2197
116 mph Normal with No Ice	288.33	1.134	0.0061	0.2964	0.2965
116 mph Normal with No Ice	296.67	1.185	0.0059	0.3480	0.3481
116 mph 60 degree with No Ice	108.33	0.263	-0.0140	0.3701	0.3709
116 mph 60 degree with No Ice	228.33	0.588	-0.0019	0.2071	0.2072
116 mph 60 degree with No Ice	288.33	0.902	-0.0016	0.2460	0.2460
116 mph 60 degree with No Ice	296.67	0.945	-0.0014	0.2934	0.2934
116 mph 90 degree with No Ice	108.33	0.280	-0.0339	0.4213	0.4227
116 mph 90 degree with No Ice	228.33	0.659	-0.0045	0.2116	0.2116
116 mph 90 degree with No Ice	288.33	0.996	-0.0014	0.2725	0.2725
116 mph 90 degree with No Ice	296.67	1.044	-0.0013	0.3242	0.3242
116 mph 120 degree with No Ice	108.33	0.341	-0.0674	0.4644	0.4692
116 mph 120 degree with No Ice	228.33	0.768	0.0061	0.2206	0.2207
116 mph 120 degree with No Ice	288.33	1.135	0.0058	0.2980	0.2981
116 mph 120 degree with No Ice	296.67	1.185	0.0058	0.3503	0.3503
116 mph 180 degree with No Ice	108.33	0.259	0.0065	0.2907	0.2907
116 mph 180 degree with No Ice	228.33	0.590	0.0004	0.2072	0.2072
116 mph 180 degree with No Ice	288.33	0.904	0.0012	0.2454	0.2454
116 mph 180 degree with No Ice	296.67	0.946	0.0013	0.2918	0.2918
116 mph 210 degree with No Ice	108.33	0.281	0.1365	0.3987	0.3988
116 mph 210 degree with No Ice	228.33	0.662	0.1133	0.2121	0.2405
116 mph 210 degree with No Ice	288.33	1.000	0.1099	0.2728	0.2941
116 mph 210 degree with No Ice	296.67	1.048	0.1098	0.3227	0.3365
116 mph 240 degree with No Ice	108.33	0.342	0.0675	0.4646	0.4695
116 mph 240 degree with No Ice	228.33	0.768	0.0048	0.2196	0.2197
116 mph 240 degree with No Ice	288.33	1.134	-0.0002	0.2969	0.2970
116 mph 240 degree with No Ice	296.67	1.184	-0.0003	0.3491	0.3491
116 mph 300 degree with No Ice	108.33	0.264	0.0254	0.3701	0.3710
116 mph 300 degree with No Ice	228.33	0.589	0.0028	0.2067	0.2067
116 mph 300 degree with No Ice	288.33	0.903	0.0029	0.2456	0.2456
116 mph 300 degree with No Ice	296.67	0.945	0.0028	0.2930	0.2930
116 mph 330 degree with No Ice	108.33	0.284	0.0899	0.4754	0.4839
116 mph 330 degree with No Ice	228.33	0.661	0.0147	0.2108	0.2108
116 mph 330 degree with No Ice	288.33	0.998	0.0088	0.2714	0.2714
116 mph 330 degree with No Ice	296.67	1.045	0.0086	0.3222	0.3223
30 mph Normal with 0.25 in Radial Ice	108.33	0.019	0.0008	0.0322	0.0322
30 mph Normal with 0.25 in Radial Ice	228.33	0.024	0.0009	0.0125	0.0125
30 mph Normal with 0.25 in Radial Ice	288.33	0.015	0.0008	0.0223	0.0223
30 mph Normal with 0.25 in Radial Ice	296.67	0.013	0.0007	0.0166	0.0166
30 mph 60 deg with 0.25 in Radial Ice	108.33	0.017	0.0014	0.0224	0.0224
30 mph 60 deg with 0.25 in Radial Ice	228.33	0.028	0.0012	0.0053	0.0054
30 mph 60 deg with 0.25 in Radial Ice	288.33	0.030	0.0010	0.0095	0.0096
30 mph 60 deg with 0.25 in Radial Ice	296.67	0.029	0.0010	0.0039	0.0040
30 mph 90 deg with 0.25 in Radial Ice	108.33	0.017	0.0013	0.0272	0.0272
30 mph 90 deg with 0.25 in Radial Ice	228.33	0.025	0.0007	0.0110	0.0110
30 mph 90 deg with 0.25 in Radial Ice	288.33	0.024	0.0006	0.0177	0.0177
30 mph 90 deg with 0.25 in Radial Ice	296.67	0.023	0.0005	0.0123	0.0123
30 mph 120 deg with 0.25 in Radial Ice	108.33	0.019	0.0013	0.0296	0.0296
30 mph 120 deg with 0.25 in Radial Ice	228.33	0.023	0.0010	0.0129	0.0129
30 mph 120 deg with 0.25 in Radial Ice	288.33	0.016	0.0009	0.0224	0.0224
30 mph 120 deg with 0.25 in Radial Ice	296.67	0.013	0.0009	0.0165	0.0165
30 mph 180 deg with 0.25 in Radial Ice	108.33	0.017	0.0011	0.0193	0.0193
30 mph 180 deg with 0.25 in Radial Ice	228.33	0.027	0.0010	0.0054	0.0055
30 mph 180 deg with 0.25 in Radial Ice	288.33	0.028	0.0008	0.0096	0.0096

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30 mph 180 deg with 0.25 in Radial Ice	296.67	0.028	0.0008	0.0044	0.0045
30 mph 210 deg with 0.25 in Radial Ice	108.33	0.017	0.0010	0.0261	0.0261
30 mph 210 deg with 0.25 in Radial Ice	228.33	0.024	0.0007	0.0113	0.0114
30 mph 210 deg with 0.25 in Radial Ice	288.33	0.022	0.0006	0.0181	0.0181
30 mph 210 deg with 0.25 in Radial Ice	296.67	0.022	0.0005	0.0128	0.0128
30 mph 240 deg with 0.25 in Radial Ice	108.33	0.019	0.0007	0.0281	0.0281
30 mph 240 deg with 0.25 in Radial Ice	228.33	0.022	-0.0165	0.0132	0.0182
30 mph 240 deg with 0.25 in Radial Ice	288.33	0.014	-0.0331	0.0227	0.0376
30 mph 240 deg with 0.25 in Radial Ice	296.67	0.012	-0.0340	0.0169	0.0368
30 mph 300 deg with 0.25 in Radial Ice	108.33	0.017	0.0014	0.0218	0.0218
30 mph 300 deg with 0.25 in Radial Ice	228.33	0.027	0.0013	0.0057	0.0058
30 mph 300 deg with 0.25 in Radial Ice	288.33	0.028	0.0012	0.0102	0.0102
30 mph 300 deg with 0.25 in Radial Ice	296.67	0.028	0.0012	0.0045	0.0046
30 mph 330 deg with 0.25 in Radial Ice	108.33	0.017	0.0013	0.0293	0.0293
30 mph 330 deg with 0.25 in Radial Ice	228.33	0.024	0.0009	0.0106	0.0106
30 mph 330 deg with 0.25 in Radial Ice	288.33	0.022	0.0008	0.0177	0.0177
30 mph 330 deg with 0.25 in Radial Ice	296.67	0.022	0.0008	0.0125	0.0125
Seismic Normal M1	108.33	0.004	0.0010	0.0065	0.0065
Seismic Normal M1	228.33	0.015	0.0008	0.0130	0.0130
Seismic Normal M1	288.33	0.031	0.0007	0.0172	0.0172
Seismic Normal M1	296.67	0.034	0.0007	0.0187	0.0188
Seismic 60 deg M1	108.33	0.004	0.0009	0.0063	0.0063
Seismic 60 deg M1	228.33	0.015	0.0007	0.0144	0.0144
Seismic 60 deg M1	288.33	0.031	0.0006	0.0183	0.0184
Seismic 60 deg M1	296.67	0.033	0.0006	0.0186	0.0187
Seismic 90 deg M1	108.33	0.004	0.0009	0.0074	0.0074
Seismic 90 deg M1	228.33	0.015	0.0007	0.0143	0.0144
Seismic 90 deg M1	288.33	0.031	0.0006	0.0184	0.0184
Seismic 90 deg M1	296.67	0.034	0.0006	0.0189	0.0189
Seismic 120 deg M1	108.33	0.004	0.0009	0.0076	0.0076
Seismic 120 deg M1	228.33	0.015	0.0007	0.0137	0.0137
Seismic 120 deg M1	288.33	0.031	0.0006	0.0178	0.0178
Seismic 120 deg M1	296.67	0.034	0.0006	0.0190	0.0190
Seismic 180 deg M1	108.33	0.004	0.0008	0.0062	0.0063
Seismic 180 deg M1	228.33	0.014	0.0007	0.0139	0.0139
Seismic 180 deg M1	288.33	0.030	0.0006	0.0181	0.0181
Seismic 180 deg M1	296.67	0.032	0.0006	0.0185	0.0185
Seismic 210 deg M1	108.33	0.004	0.0007	0.0075	0.0075
Seismic 210 deg M1	228.33	0.014	0.0006	0.0137	0.0137
Seismic 210 deg M1	288.33	0.030	0.0005	0.0179	0.0179
Seismic 210 deg M1	296.67	0.033	0.0005	0.0186	0.0186
Seismic 240 deg M1	108.33	0.004	0.0008	0.0074	0.0075
Seismic 240 deg M1	228.33	0.014	0.0007	0.0134	0.0134
Seismic 240 deg M1	288.33	0.030	0.0006	0.0175	0.0175
Seismic 240 deg M1	296.67	0.033	0.0006	0.0187	0.0187
Seismic 300 deg M1	108.33	0.004	0.0009	0.0060	0.0060
Seismic 300 deg M1	228.33	0.014	0.0008	0.0142	0.0143
Seismic 300 deg M1	288.33	0.030	0.0007	0.0181	0.0181
Seismic 300 deg M1	296.67	0.032	0.0007	0.0184	0.0184
Seismic 330 deg M1	108.33	0.004	0.0009	0.0062	0.0062
Seismic 330 deg M1	228.33	0.015	0.0022	0.0139	0.0140
Seismic 330 deg M1	288.33	0.031	0.0035	0.0179	0.0179
Seismic 330 deg M1	296.67	0.033	0.0035	0.0186	0.0187
Serviceability - 60 mph Wind Normal	108.33	0.057	0.0037	0.0999	0.1000
Serviceability - 60 mph Wind Normal	228.33	0.076	0.0000	0.0141	0.0141
Serviceability - 60 mph Wind Normal	288.33	0.076	0.0002	0.0284	0.0284
Serviceability - 60 mph Wind Normal	296.67	0.074	0.0002	0.0146	0.0146
Serviceability - 60 mph Wind 60 deg	108.33	0.053	-0.0001	0.0729	0.0729
Serviceability - 60 mph Wind 60 deg	228.33	0.103	0.0003	0.0312	0.0312
Serviceability - 60 mph Wind 60 deg	288.33	0.153	0.0002	0.0347	0.0347
Serviceability - 60 mph Wind 60 deg	296.67	0.160	0.0002	0.0454	0.0454
Serviceability - 60 mph Wind 90 deg	108.33	0.052	0.0008	0.0798	0.0798

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Serviceability - 60 mph Wind 90 deg	228.33	0.086	0.0003	0.0231	0.0231
Serviceability - 60 mph Wind 90 deg	288.33	0.119	0.0002	0.0257	0.0257
Serviceability - 60 mph Wind 90 deg	296.67	0.124	0.0002	0.0305	0.0305
Serviceability - 60 mph Wind 120 deg	108.33	0.057	-0.0017	0.0861	0.0861
Serviceability - 60 mph Wind 120 deg	228.33	0.076	0.0004	0.0144	0.0144
Serviceability - 60 mph Wind 120 deg	288.33	0.076	0.0003	0.0283	0.0283
Serviceability - 60 mph Wind 120 deg	296.67	0.074	0.0003	0.0143	0.0143
Serviceability - 60 mph Wind 180 deg	108.33	0.053	0.0001	0.0637	0.0637
Serviceability - 60 mph Wind 180 deg	228.33	0.102	0.0004	0.0307	0.0307
Serviceability - 60 mph Wind 180 deg	288.33	0.153	0.0003	0.0343	0.0343
Serviceability - 60 mph Wind 180 deg	296.67	0.159	0.0002	0.0448	0.0448
Serviceability - 60 mph Wind 210 deg	108.33	0.052	0.0011	0.0765	0.0765
Serviceability - 60 mph Wind 210 deg	228.33	0.086	0.0002	0.0229	0.0229
Serviceability - 60 mph Wind 210 deg	288.33	0.119	-0.0001	0.0257	0.0257
Serviceability - 60 mph Wind 210 deg	296.67	0.123	-0.0001	0.0303	0.0303
Serviceability - 60 mph Wind 240 deg	108.33	0.057	0.0013	0.0853	0.0853
Serviceability - 60 mph Wind 240 deg	228.33	0.074	0.0002	0.0145	0.0145
Serviceability - 60 mph Wind 240 deg	288.33	0.074	0.0001	0.0279	0.0279
Serviceability - 60 mph Wind 240 deg	296.67	0.072	0.0000	0.0140	0.0140
Serviceability - 60 mph Wind 300 deg	108.33	0.054	0.0012	0.0727	0.0727
Serviceability - 60 mph Wind 300 deg	228.33	0.102	0.0007	0.0310	0.0310
Serviceability - 60 mph Wind 300 deg	288.33	0.153	0.0007	0.0344	0.0344
Serviceability - 60 mph Wind 300 deg	296.67	0.159	0.0007	0.0450	0.0450
Serviceability - 60 mph Wind 330 deg	108.33	0.052	0.0045	0.0935	0.0936
Serviceability - 60 mph Wind 330 deg	228.33	0.087	0.0009	0.0238	0.0238
Serviceability - 60 mph Wind 330 deg	288.33	0.120	0.0010	0.0259	0.0259
Serviceability - 60 mph Wind 330 deg	296.67	0.125	0.0010	0.0304	0.0304

Maximum Reactions Summary

Anchor Group	UpLift	Shear
Base	106.41	0.89
A1	15.65	23.97
A2	29.32	28.66