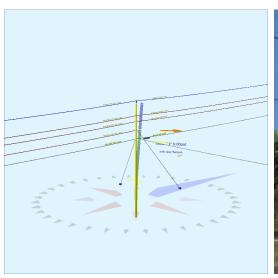
Pole Num:	93350038_P.F4901	Pole Length /	Class:	40 / 5	Code:	NESC	Structure Type:	Gu	yed Tangent
Aux Data 1	Unset	Species:	SOU	THERN PINE	NESC Rule:	Rule 250B	Status G	uy Wir	es Adequate
Aux Data 2	Unset	Setting Depth	n (ft):	6.00	Construction Grade:	C	Pole Strength Facto	r:	0.85
Aux Data 3	Unset	G/L Circumfe	erence (in):	31.00	Loading District:	Light	Transverse Wind LF	:	1.75
Aux Data 4	Unset	G/L Fiber Str	ess (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:		1.30
Aux Data 5	Unset	Allowable Str	ess (psi):	6,800	Wind Speed (mph):	59.29	Vertical LF:		1.90
Aux Data 6	Unset	Fiber Stress	Ht. Reduc:	No	Wind Pressure (psf):	9.00			
Latitude:		0.00000	00 Deg Longit	ude:		0.000000 Deg	Elevation:		0 Feet





Pole Capacity Uti	lization (%)	Height (ft)	Wind Angle (deg)
Maximum	24.6	0.0	54.1
Groundline	24.6	0.0	54.1
Vertical	5.9	21.4	150.0

Pole Moments (ft-	b)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	12,332	35.2	54.1
Groundline	12,332	35.2	54.1
GL Allowable	53,452		

Guy System Component Summary				Load From Angle o	Worst Wind on Pole	Individual Ma	aximum Load
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
Single Helix Anchor	23.0	0.0		0.0	54.1	4.5	230.0
EHS 3/8 (Down)			25.0	0.0	54.1	7.2	230.0
Single Helix Anchor	23.0	300.0		27.6	54.1	29.3	100.0
EHS 3/8 (Down)			22.0	39.8	54.1	46.5	100.0
		System Capac	ity Summary:	Aded	_l uate	Aded	quate

Groundline Load Summary	y - Reporting A	Angle Mode: L	oad - Reportir	ng Angle: 35.2	•					
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	-1,153	-148.4	-28,062	-227.6	-52.5	-3,570	399	5	-3,565	-52.4
Comms	1,914	246.4	42,162	341.9	78.9	5,364	342	4	5,368	78.9
GuyBraces	-347	-44.7	-7,737	-62.7	-14.5	-984	5,774	76	-909	-13.4
Pole	336	43.2	5,255	42.6	9.8	669	1,364	18	686	10.1
Insulators	27	3.4	714	5.8	1.3	91	46	1	91	1.3
Pole Load	777	100.0	12,332	100.0	23.1	1,569	7,925	104	1,672	24.6
Pole Reserve Capacity			41,120		76.9	5,231			5,128	75.4

Load Summary by Owner -	Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 35.2°														
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)					
FPL	-817	-105.1	-22,807	-184.9	-42.7	-2,901	1,763	23	-2,878	-42.3					
AT&T	1,914	246.4	42,162	341.9	78.9	5,364	342	4	5,368	78.9					
<undefined></undefined>	-321	-41.3	-7,023	-57.0	-13.1	-894	5,819	76	-817	-12.0					
Totals:	777	100.0	12,332	100.0	23.1	1,569	7,925	104	1,672	24.6					

Detailed Load Components:

Power		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Primary	FPL	FPL	35.03	3.02	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	44,662	8	611	45,281
Primary	FPL	FPL	35.03	3.02	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-44,662	8	611	-44,042
Secondary	FPL	FPL	29.97	5.25	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	38,207	14	523	38,745
Secondary	FPL	FPL	29.97	5.25	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-38,207	14	523	-37,670
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	35,658	15	488	36,160
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-35,658	15	488	-35,155
Secondary	FPL	FPL	24.97	5.53	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-31,833	15	436	-31,382
											Totals:	-31,833	89	3,681	-28,062

Comm		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	19,749	22	394	20,165
Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	19,749	22	394	20,165

Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	28,008	16	383	28,407
Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-28,008	16	383	-27,609
Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	28,008	16	619	28,642
Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-28,008	16	383	-27,609
											Totals:	39,498	107	2,557	42,162

Insulator		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (Ibs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Deadend	Deadend 12.75"		34.00	0.00	90.0	90.0	3.00	3.80	12.75	1	170	171
Bolt	Deadend 12.75"		30.00	0.00	90.0	90.0	3.00	2.00	15.00	1	93	95
Bolt	Deadend 12.75"		28.00	0.00	90.0	90.0	3.00	2.00	15.00	1	87	88
Bolt	Deadend 12.75"		25.00	0.00	90.0	90.0	3.00	2.00	15.00	2	78	79
Bolt	Deadend 12.75"		22.00	0.00	0.0	0.0	3.00	2.00	15.00	2	68	71
Bolt	Deadend 12.75"		22.00	0.00	0.0	0.0	3.00	2.00	15.00	2	68	71
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	2	68	70
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	2	68	70
									Totals:	13	701	714

Guy Wire and Brace		Owner	Attach Height (ft)	End Height (ft)	Lead/Span Length (ft)	Wire Diameter (in)	Percent Solid (%)	Lead Angle (deg)	Incline Angle (deg)	Wire Weight (lbs/ft)	Rest Length (ft)	Stretch Length (in)
EHS 3/8	Down		25.00	0.00	23.00	0.375	75.00	0.0	47.2	0.273	32.27	0.00
EHS 3/8	Down		22.00	0.00	23.00	0.375	75.00	300.0	43.6	0.273	30.11	1.05

Guy Wire and (Loads and Re		Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (lbs)	Loaded Tension* ² (lbs)	Maximum Tension ² (lbs)	Applied Tension ³ (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL³ (ft-lb)
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	999	908	0	0	0	0	97
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	6,450	5,864	5,519	3,806	3,996	-361	-7,834
									Totals:	3,806	3,996	-361	-7,737

Anchor/Rod Load Summary	Owner	Rod Length AGL (in)	Lead Length (ft)	Lead Angle (deg)	Strength of Assembly (lbs)	Anchor/Rod Strength Factor	Allowable Load (lbs)	Max Load² (lbs)	Load at Pole MCU ³ (lbs)	Max Required Capacity ² (%)
Single Helix Anchor		18.00	23.00	0.0	20,000	1.00	20,000	908	0	4.5
Single Helix Anchor		18.00	23.00	300.0	20,000	1.00	20,000	5,864	5,518	29.3

Pole Buckling													
Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
0.71	21.43	33.66	9.06	12.26	6.05	9.87	1.60e+6	60.00	57.00	34.00	134,139	1343.20	16.95

Notes						
Date	Author	Description				
1/27/2021		Power Company Request				
Power company load data has been requested. Email sent to Elmer Pole						
1/27/2021		General Description				
General Statement: Non-AT&T facilities may not be accurately identified pending attachment information from attaching party.						