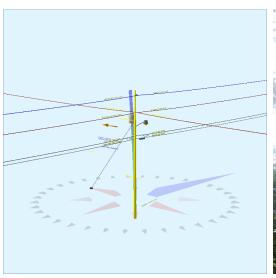
Pole Num:	91458509_P.F2717	Pole Length /	Class:	45 / 4	Code:	NESC	Structure Type:		Junction
Aux Data 1	Unset	Species:	SOU	THERN PINE	NESC Rule:	Rule 250B	Status G	uy Wir	es Adequate
Aux Data 2	Unset	Setting Depth	n (ft):	6.50	Construction Grade:	C	Pole Strength Facto	r:	0.85
Aux Data 3	Unset	G/L Circumfe	rence (in):	34.82	Loading District:	Light	Transverse Wind LF	:	1.75
Aux Data 4	Unset	G/L Fiber Stre	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 I	Ht. Reduc:	No	Wind Pressure (psf):	9.00			
Latitude:		0.00000	00 Deg Longit	ude:		0.000000 Deg	Elevation:		0 Feet





Pole Capacity Utili	zation (%)	Height (ft)	Wind Angle (deg)
Maximum	29.8	0.0	267.0
Groundline	29.8	0.0	267.0
Vertical	1.7	22.3	90.0

Pole Moments (ft-I	b)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	22,181	265.5	267.0
Groundline	22,181	265.5	267.0
GL Allowable	75,750		

Guy System Component Summary				Load From Angle o	Worst Wind on Pole	Individual Maximum Load		
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)	
Single Helix Anchor	270.0		0.0	267.0	5.9	92.7		
EHS 3/8 (Down)	28.0	0.0	267.0	9.4	92.7			
	ity Summary:	Aded	_l uate	Adequate				

Groundline Load Summar	y - Reporting A	Angle Mode: L	oad - Reportii	ng Angle: 265	.5°					
	Shear Load* (Ibs)	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	149	15.1	4,978	22.4	6.6	447	342	4	450	6.6
Comms	246	24.8	5,292	23.9	7.0	475	342	4	479	7.0
GuyBraces	0	0.0	1	0.0	0.0	0	7	0	0	0.0
PowerEquipments	82	8.2	2,459	11.1	3.3	221	636	7	227	3.3
Pole	449	45.3	7,926	35.7	10.5	712	1,928	20	731	10.8
Streetlights	45	4.5	926	4.2	1.2	83	86	1	84	1.2
Insulators	22	2.2	600	2.7	0.8	54	34	0	54	0.8
Pole Load	992	100.0	22,181	100.0	29.3	1,991	3,375	35	2,026	29.8
Pole Reserve Capacity			53,569		70.7	4,809			4,774	70.2

Load Summary by Owner	Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 265.5°														
	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	598	60.3	12,903	58.2	17.0	1,158	2,270	24	1,182	17.4					
CATV	77	7.8	1,708	7.7	2.3	153	114	1	155	2.3					
AT&T	169	17.0	3,584	16.2	4.7	322	228	2	324	4.8					
<undefined></undefined>	148	14.9	3,986	18.0	5.3	358	763	8	366	5.4					
Totals:	992	100.0	22,181	100.0	29.3	1,991	3,375	35	2,026	29.8					

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	36.97	16.18	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-4,543	-16	1,377	-3,182
Primary	FPL	FPL	36.97	16.18	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	4,543	-16	1,377	5,903
Secondary	FPL	FPL	30.97	5.77	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	-48,160	-2	5	-48,158
Secondary	FPL	FPL	30.97	5.77	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	48,160	-2	5	48,163
Secondary	FPL	FPL	30.97	5.77	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-3,805	-27	1,153	-2,679
Secondary	FPL	FPL	30.97	5.77	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	3,805	-27	1,153	4,931
											Totals:	0	-91	5,069	4,978

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)
CATV	CATV	CATV	22.97	6.23	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-2,822	-29	884	-1,968
CATV	CATV	CATV	22.97	6.23	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	2,822	-29	884	3,676
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-2,699	-30	1,249	-1,481
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	2,699	-30	818	3,488
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-2,699	-30	818	-1,911
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	2,699	-30	818	3,488
											Totals:	0	-178	5,470	5,292

PowerEquipme	ent	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Transformer	1PH-15KVA		29.00	20.89	180.0	180.0	335.00	34.00		22.00		87	2,372	2,459
											Totals:	87	2,372	2,459

Streetlight		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
General	Streetlight - 3 ft. Arm		26.00	4.06	75.0	75.0	45.00	24.00	20.00	3.00	36.00	-234	1,160	926
											Totals:	-234	1,160	926

Insulator		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Deadend	Deadend 12.75"		37.00	0.00	90.0	90.0	3.00	3.80	12.75	-8	196	188
Bolt	Deadend 12.75"		31.00	0.00	0.0	0.0	3.00	2.00	15.00	0	102	101
Bolt	Deadend 12.75"		31.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	102	99
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	75	72
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	72	69
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	72	69
									Totals:	-20	619	600

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		28.00	0.00	23.00	0.375	75.00	270.0	50.4	0.273	34.53	0.00

Guy Wire and Brace (Loads and Reactions)		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	1,301	1,183	0	0	0	0	1
									Totals:	0	0	0	1

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 Capacity² (%)
Single Helix Anchor		18.00	23.00	270.0	20,000	1.00	20,000	1,183	0	5.9

Pole Buckl	ing												
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	22.26	33.44	10.23	8.35	6.69	11.09	1.60e+6	60.00	57.00	38.50	202,520	1985.15	58.82

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.									