SPIDACalc

Location: 1, 4757875E

Project: TD2001353
Lead: 1, SHEET 1

Location Properties

Technician: [redacted]
Address: [redacted]
City: [redacted]
County:
Cross Street 1:
Remedy:
Comments:

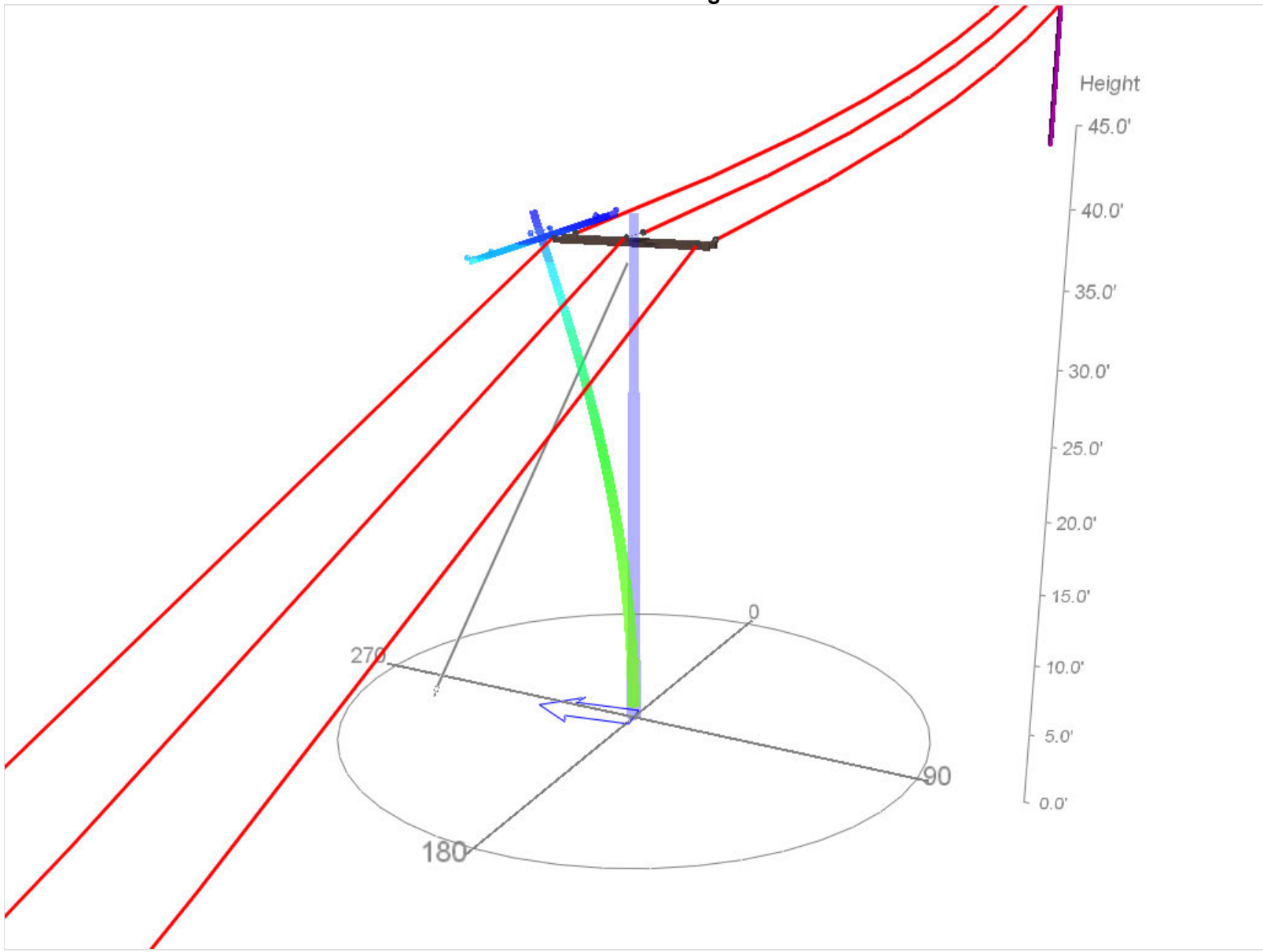
Map Number:
Pole Tags:
State: [redacted]
Zip Code: [redacted]
Cross Street 2:
Summary Notes:

Location Analysis Summary

Layer	Pole Length/Class	Minimum Safety Factor						Pole Strength Remaining	Loading Adjusted by Strength?	Clearance Violations Present?
		Pole	Guy	Anchor	Cross Arm	Insulator	Sidewalk Brace			
As Designed	45'/2	3 31 from stress at 3' 3"	3 96 (Guy#1	No Data	No Data	No Data	No Data	100%	Y	N

SPIDACalc

Theoretical: As Designed



Analysis Results

Loading

Component	In Service, 18 lb, Grade B (Governing Case)			In Service, Heavy, 6 lb, Grade B			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	3 31 from stress at 3' 3"	2293 / 600 lb/in	260 °	11 9 from stress at 3' 3"	638 / 600 lb/in	260 °	600 lb/in
Guy#1	3 96	505 / 20000 lbf	80 °	4	4256 / 20000 lbf	80 °	20000 lbf

Wire End Points and Wires

WEP#1

Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground
Next Pole	None	234'	355 °	Undefined	8 °	N/A	N/A

ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 18 lb, Grade B		In Service, Heavy, 6 lb, Grade B	
										Tension	Sag	Tension	Sag
Wire#2	336.4 ACSR Tree Wire	SCE	Primary	Heavy Full	37' 0"	0' 0"	1	892 lbf	Dynamic	2482.73 lbf	4' 5"	3219.25 lbf	3' 10"
Wire#3	336.4 ACSR Tree Wire	SCE	Primary	Heavy Full	36' 9"	0' 0"	1	892 lbf	Dynamic	2530.96 lbf	4' 4"	3238.44 lbf	3' 10"
Wire#6	336.4 ACSR Tree Wire	SCE	Primary	Heavy Full	36' 9"	0' 0"	1	892 lbf	Dynamic	2434.88 lbf	4' 6"	3200.41 lbf	3' 10"

WEP#2

Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground
Previous Pole	None	490'	1 0 °	Undefined	°	N/A	N/A

ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 18 lb, Grade B		In Service, Heavy, 6 lb, Grade B	
										Tension	Sag	Tension	Sag
Wire#4	336.4 ACSR Oriole	SCE	Primary	Heavy Full	37' 0"	0' 0"	1	1097 lbf	Dynamic	2466.59 lbf	14' 11"	3217.09 lbf	14' 6"
Wire#1	336.4 ACSR Oriole	SCE	Primary	Heavy Full	36' 9"	0' 0"	1	1097 lbf	Dynamic	2458.11 lbf	14' 11"	3214.53 lbf	14' 6"
Wire#5	336.4 ACSR Oriole	SCE	Primary	Heavy Full	36' 9"	0' 0"	1	1097 lbf	Dynamic	2471.67 lbf	14' 10"	3219.58 lbf	14' 6"

WEP#3

Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground
Other Pole	None	532'	240 °	Undefined	12 °	N/A	N/A

Tension value used in an analysis may vary dependent on 'Average Length on Main Span' setting in the Load Case
Tension value is inclusive of environmental and load factors associated with the Load Case
Sag value is inclusive of environmental and load factors associated with the Load Case

Anchors

Anchor#1

Size	Owner	Lead	Direction	Height	Supporting
1 1/4" Triple Eye - Anchor Rod and Plate	SCE	17' 0"	263 °	0' 0"	Other

ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	In Service, 18 lb, Grade B		In Service, Heavy, 6 lb, Grade B	
									Pretension	Tension	Pretension	Tension
Guy#1	7/16" EHS	SCE	35' 0"	26 °	N/A	N/A	N/A	N/A	584.41 lbf	1.98 lbf	584.41 lbf	0.66 lbf

Pretension values are calculated at 60°F (15 5°C and without load factors
Tension value is calculated without load factors or wind

Cross Arms

ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#1	12 Foot Double Cross Arm	36' 6"	Other	26 °	6' 0"	Insulator#1, Insulator#2, Insulator#3, Insulator#4

Insulators

ID	Size	Direction	Offset	Wires
Insulator#1	16 kV Deadend	355 °	0' 6"	Wire#3
Insulator#2	16 kV Deadend	1 0 °	0' 6"	Wire#1
Insulator#3	16 kV Deadend	355 °	11' 6"	Wire#6
Insulator#4	16 kV Deadend	1 0 °	11' 6"	Wire#5
Insulator#5	16 kV Deadend	355 °	3 ' 0"	Wire#2
Insulator#6	16 kV Deadend	1 0 °	3 ' 0"	Wire#4

Location 4757875E Location Forms

SAP

- **Field Inspection Date:** 11/18/2020
- **High Fire:** Extreme
- **Special Project:** No
- **Associated Poles:**
- **Visible Damage:** No
- **Pole Type:** ED
- **District:** 2 Monrovia
- **Region:** ED SE METROEAS
- **Above 3000 Ft Elevation:** Yes
- **As Designed Work Type:** Existing
- **Access Notes:**

Pole Info Form

- **Pole Equipment #:** N/A
- **Previous Inspection Date:** N/A
- **Year Installed:**
- **As Is POA Height:**
- **As Is POA Diameter:**
- **As Designed POA Height:**
- **As Designed POA Diameter:**
- **Thomas Guide/Quadrant:** LA CO 46 6 D6
- **Circuit :** RED BOX 16KV
- **Substation:** RED BOX P T
- **FIM:** 9 84
- **Location:** SEC 22 T3N R11W 1215' W/O E/L 16 5' N/O S/L
- **City:** CLEAN
- **Brand Height:**
- **Date Pole Load Performed:**
- **Comments:**
- **GPS Location:** N/A

QC Comments

- **QC Comments:**