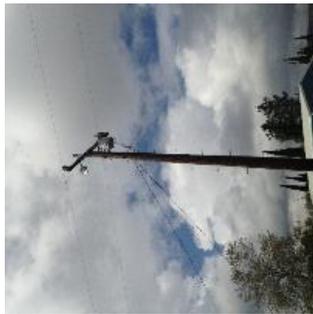


Location Properties

Technician:	Map Number:
Address:	Pole Tags:
City:	State:
County:	Zip Code:
Cross Street 1:	Cross Street 2:
Remedy:	Summary Notes:
Comments:	

Location Analysis Summary

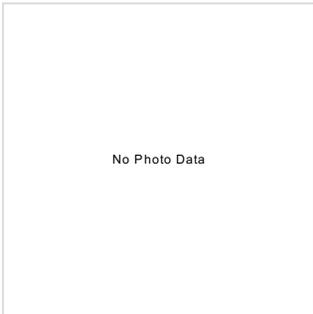
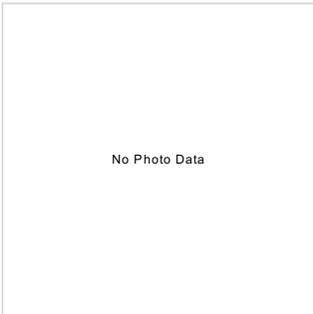
Layer	Pole Length/Class	Minimum Safety Factor						Pole Strength Remaining	Loading Adjusted by Strength?	Clearance Violations Present?
		Pole	Guy	Anchor	Cross Arm	Insulator	Sidewalk Brace			
As Is	40/4	3.85 from stress at 3' 3"	No Data	No Data	No Data	No Data	No Data	100%	Y	N
As Designed	45/1	3.53 from stress at 3' 3"	11.22 (SpanGuy#1)	No Data	No Data	No Data	No Data	100%	Y	N



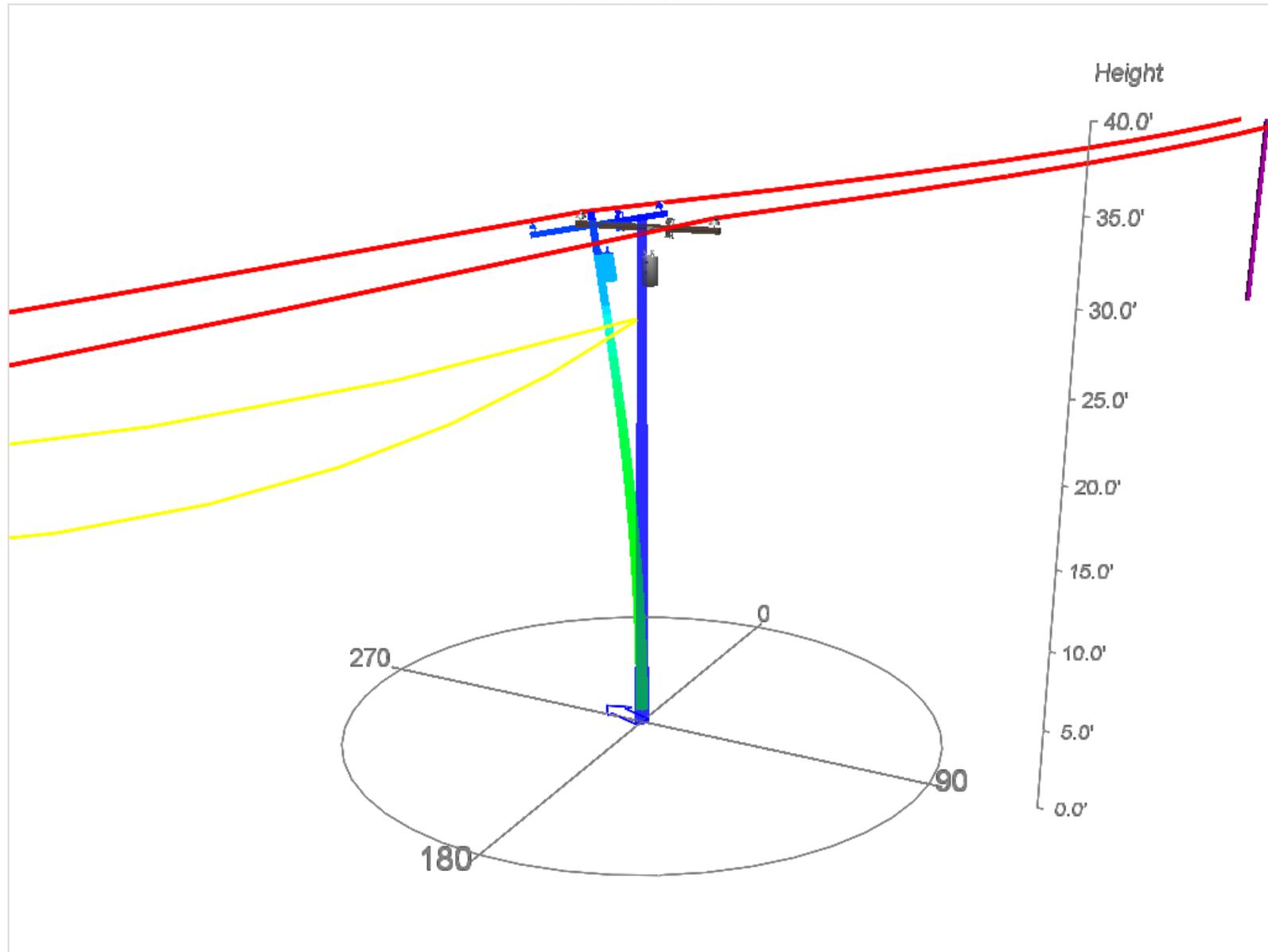
N/A



N/A



Measured: As Is



Analysis Results

Loading

Component	In Service, 18 lb, Grade B (Governing Case)			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	3.85 from stress at 3' 3"	2076 / 8000 lb/in ²	290 °	8000 lb/in ²

Wire End Points and Wires

WEP#1											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Next Pole	Street	225'	4 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 18 lb, Grade B	
Wire#1	6 Copperweld Type A	SCE	Primary	Light Full	33' 11"	0' 0"	1	681 lb*	Dynamic	Tension	Sag
Wire#3	6 Copperweld Type A	SCE	Primary	Light Full	33' 11"	0' 0"	1	681 lb*	Dynamic	908.31 lb**	2' 4****
										891.18 lb**	2' 5****

WEP#2											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Previous Pole	Street	297'	184 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 18 lb, Grade B	
Wire#2	6 Copperweld Type A	SCE	Primary	Light Full	33' 11"	0' 0"	1	667 lb*	Dynamic	Tension	Sag
Wire#4	6 Copperweld Type A	SCE	Primary	Light Full	33' 11"	0' 0"	1	667 lb*	Dynamic	916.9 lb**	4' 0****
										928.17 lb**	4' 0****

WEP#4											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Other Pole	Street	62'	195 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 18 lb, Grade B	
Wire#5	4 Al. Triplex Service	SCE	Utility Service	Service	27' 6"	0' 0"	1	16 lb*	Dynamic	Tension	Sag
										88.06 lb**	5' 4****

WEP#3											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Building	Street	120'	235 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, 18 lb, Grade B	
Wire#6	4 Al. Triplex Service	SCE	Utility Service	Service	27' 6"	0' 0"	1	40 lb*	Dynamic	Tension	Sag
										151.2 lb**	8' 0****

*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.

Equipment

ID	Size	Owner	Type	Height	Bottom Height	Direction
Equip#2	Fuse Arm with 2 Cutouts	SCE	Cutout Arrestor	33' 2"	33' 2"	90 °
Equip#1	37.5 kVA Transformer	SCE	Transformer	31' 0"	31' 0"	0 °

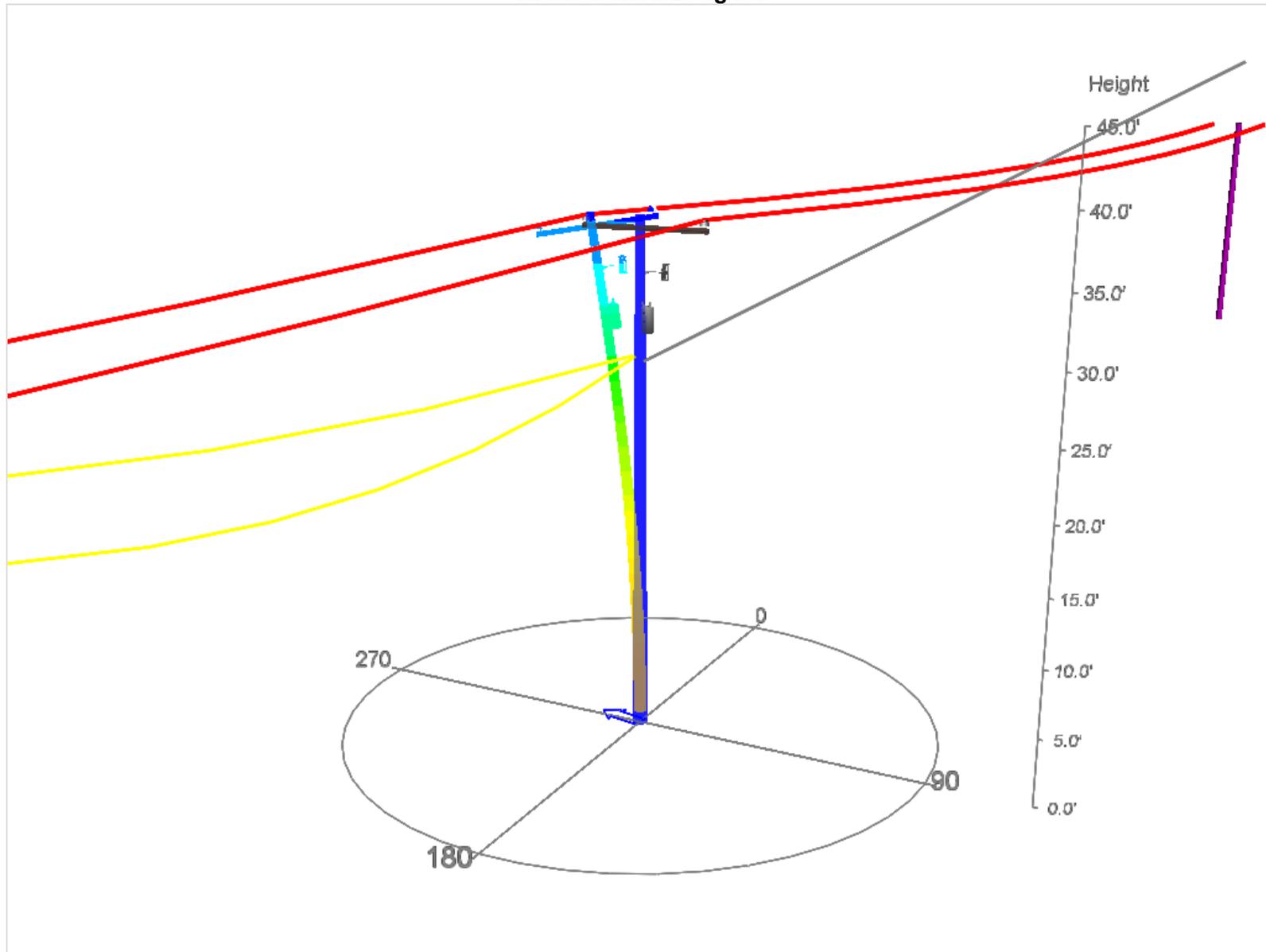
Cross Arms

ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#1	10 Foot Cross Arm	33' 2"	Other	90 °	5' 0"	Insulator#1, Insulator#2

Insulators

ID	Size	Direction	Offset	Wires
Insulator#1	12 kV Pin (Cross Arm)	4 °	0' 4"	Wire#3, Wire#4
Insulator#2	12 kV Pin (Cross Arm)	4 °	9' 8"	Wire#1, Wire#2

Theoretical: As Designed



Analysis Results

Loading

Component	New, 18 lb, Grade B (Governing Case)			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	3.53 from stress at 3' 3"	2269 / 8000 lbf/in ²	280 °	8000 lbf/in ²
SpanGuy#1	11.22	798 / 8950 lbf	130 °	8950 lbf

Wire End Points and Wires

WEP#1											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Next Pole	Street	225'	4 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, 18 lb, Grade B	
Wire#1	1/0 ACSR Tree Wire XLPE	SCE	Primary	Light Full	38' 3"	0' 0"	1	868 lbF*	Dynamic	1842.11 lbF**	3' 10****
Wire#3	1/0 ACSR Tree Wire XLPE	SCE	Primary	Light Full	38' 3"	0' 0"	1	868 lbF*	Dynamic	1819.12 lbF**	3' 11****
ID	Size	Owner	Height	Midspan	Height @ WEP	New, 18 lb, Grade B					
SpanGuy#1	9/32" EHS	SCE	28' 0"	29' 0"	50' 0"	0 lbF†	-24.88 lbF**				

WEP#2											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Previous Pole	Street	296'	184 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, 18 lb, Grade B	
Wire#2	1/0 ACSR Tree Wire XLPE	SCE	Primary	Light Full	38' 3"	0' 0"	1	829 lbF*	Dynamic	1862.69 lbF**	6' 7****
Wire#4	1/0 ACSR Tree Wire XLPE	SCE	Primary	Light Full	38' 3"	0' 0"	1	829 lbF*	Dynamic	1876.15 lbF**	6' 6****

WEP#4											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Other Pole	Street	62'	195 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, 18 lb, Grade B	
Wire#5	4 Al. Triplex Service	SCE	Utility Service	Service	28' 6"	0' 0"	1	16 lbF*	Dynamic	88.06 lbF**	5' 4****

WEP#3											
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground				
Building	Street	120'	235 °	Undefined.	0 °	N/A	N/A				
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	New, 18 lb, Grade B	
Wire#6	4 Al. Triplex Service	SCE	Utility Service	Service	28' 6"	0' 0"	1	40 lbF*	Dynamic	116.13 lbF**	8' 0****

*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.
 † Pretension values are calculated at 60°F (15.5°C) and without load factors.

Equipment

ID	Size	Owner	Type	Height	Bottom Height	Direction
Equip#2	Fuse Arm with 2 Cutouts	SCE	Cutout Arrestor	34' 6"	34' 6"	90 °
Equip#1	37.5 kVA Transformer	SCE	Transformer	31' 6"	31' 6"	0 °

Cross Arms

ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#1	10 Foot Cross Arm	37' 6"	Other	90 °	5' 0"	Insulator#1, Insulator#2

Insulators

ID	Size	Direction	Offset	Wires
Insulator#1	12 kV Pin (Cross Arm)	4 °	0' 4"	Wire#3, Wire#4
Insulator#2	12 kV Pin (Cross Arm)	4 °	9' 8"	Wire#1, Wire#2

Location 4960235E Location Forms

SAP

- Field Inspection Date: 10/19/2016
- High Fire: Elevated
- Special Project: No
- Associated Poles:
- Visible Damage: No
- Pole Type: ED
- District: 31 - Redlands
- Region: ED-SE-DESERT RE
- Above 3000 Ft Elevation: No
- As Designed Work Type: Replace
- Access Notes:

Pole Info Form

- Pole Equipment #: 200264135
- Previous Inspection Date: 2015
- Year Installed: 1972
- As Is POA Height: 30.3
- As Is POA Diameter: 9"
- As Designed POA Height: 30.3
- As Designed POA Diameter: 9"
- Thomas Guide/Quadrant:
- Circuit : Norwood12
- Substation: Shandin
- FIM: 258-2184-1
- Location: 18910 Cajon
- City: San Bernardino
- Brand Height:
- Date Pole Load Performed: 4/15/19
- Comments:
- GPS Location: N/A

QC Comments

- QC Comments: