

Location Properties

Technician:
 Address:
 City:
 County:
 Cross Street 1:
 Remedy:
 Comments:

Map Number:
 Pole Tags:
 State:
 Zip Code:
 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 Is	4573	5.06 from stress at 0' 1"	2.41 (Guy#4)	No Data	No Data	No Data	15.81 (Brace#1)	82.93%	Y	N
As Designed	4573	4.29 from stress at 0' 1"	2.43 (Guy#4)	No Data	No Data	No Data	14.62 (Brace#1)	83.0%	Y	N



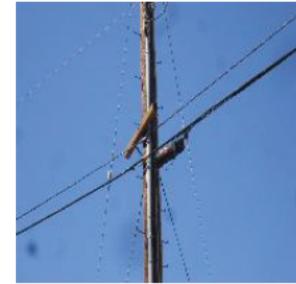
N/A



N/A



N/A



N/A



N/A



N/A

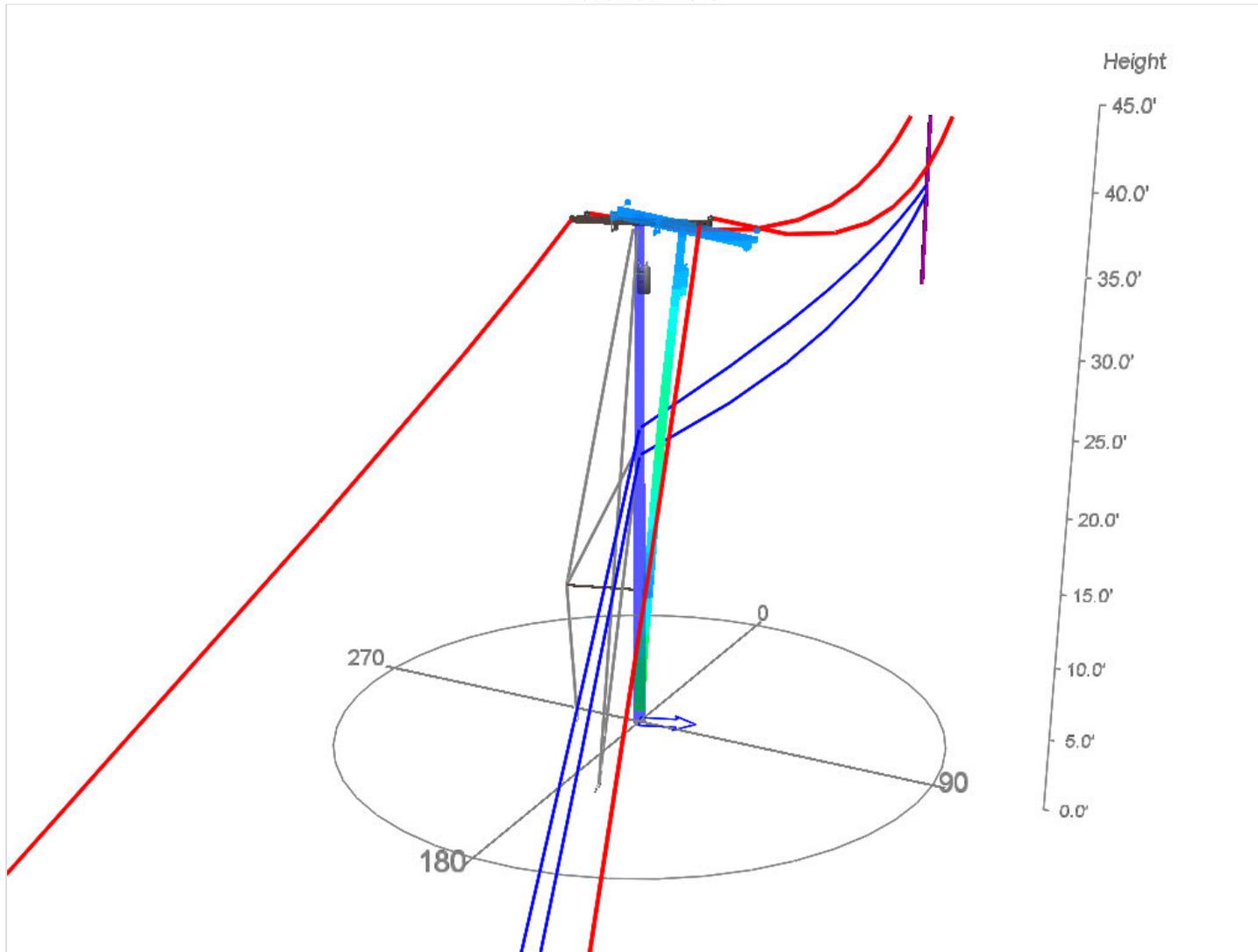


N/A



No Photo Data

Measured: As Is



Analysis Results

Loading

Component	In Service, Heavy, 6 lb, Grade A (Governing Case)			In Service, 12 lb, Grade A			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	5.06 from stress at 0'1"	1581 / 8000 lbf/in	0	6.41 from stress at 0'1"	124 / 8000 lbf/in	0	8000 lbf/in
Guy#1	∞	0 / 11200 lbf	0	∞	0 / 11200 lbf	0	11200 lbf
Guy#2	∞	0 / 8950 lbf	0	∞	0 / 8950 lbf	0	8950 lbf
Guy#3	2.54	3523 / 8950 lbf	0	3.46	2588 / 8950 lbf	0	8950 lbf
Guy#4	2.41	4641 / 11200 lbf	0	3.22	3483 / 11200 lbf	0	11200 lbf
Brace#1	15.81	2.5 / 43600 lbf	0	21.4	2031 / 43600 lbf	0	43600 lbf

Wire End Points and Wires

WEP#2														
Type	Environment			Distance	Direction		GPS Point		Inclination		Measured Between		Measured to Ground	
Next Pole	None			245'	348		Undefined		0		N/A		N/A	
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, Heavy, 6 lb, Grade A		In Service, 12 lb, Grade A		
Wire#5	4 ACSR	SCE	Primary	Heavy Full	37' 2"	0' 0"	1	45 lb*	Dynamic	Tension	Sag	Tension	Sag	
Wire#6	4 ACSR	SCE	Primary	Heavy Full	37' 2"	0' 0"	1	45 lb*	Dynamic	613.27 lb**	9' 11"***	202.25 lb**	9' 4"***	
Wire#	5" CATV 1/4" Messenger	Verizon California	Communication	Heavy Full	22' 6"	0' 0"	1	660 lb*	Dynamic	1 05 4 lb**	5' 1"***	10 2 lb**	3' 11"***	
Wire#8	1 25" TELCO 5/16" Messenger	Verizon California	Communication	Heavy Full	20' 6"	0' 0"	1	1029 lb*	Dynamic	2489 93 lb**	6' 9"***	1 69 85 lb**	6' 4"***	

WEP#1														
Type	Environment			Distance	Direction		GPS Point		Inclination		Measured Between		Measured to Ground	
Previous Pole	None			1 3'	156		Undefined		0		N/A		N/A	
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, Heavy, 6 lb, Grade A		In Service, 12 lb, Grade A		
Wire#1	1/0 ACSR	SCE	Primary	Heavy Full	37' 2"	0' 0"	1	312 lb*	Dynamic	Tension	Sag	Tension	Sag	
Wire#2	1/0 ACSR	SCE	Primary	Heavy Full	37' 2"	0' 0"	1	312 lb*	Dynamic	801.76 lb**	4' 7"***	362.98 lb**	4' 4"***	
Wire#3	5" CATV 1/4" Messenger	Verizon California	Communication	Heavy Full	22' 6"	0' 0"	1	665 lb*	Dynamic	829.25 lb**	4' 6"***	369.02 lb**	4' 3"***	
Wire#4	1 25" TELCO 5/16" Messenger	Verizon California	Communication	Heavy Full	20' 6"	0' 0"	1	1263 lb*	Dynamic	1363 81 lb**	3' 2"***	823 49 lb**	2' 1"***	
									Dynamic	2203 28 lb**	3' 10"***	1559 25 lb**	3' 8"***	

*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#1	Fuse Arm with 2 Cutouts	SCE	Cutout Arrestor	37' 0"	37' 0"	266 °
Equip#2	25 kVA Transformer	SCE	Transformer	33' 6"	33' 6"	348 °

Anchors

Anchor#2												
Size	Owner			Lead	Direction		Height	Supporting				
1" Triple Eye Anchor Rod and Plate	SCE			4' 10"	254 °		0' 0"	Other				
ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	In Service, Heavy, 6 lb, Grade A		In Service, 12 lb, Grade A	
Guy#3	9/32" EHS	SCE	36' 6"	11 °	Brace#1	2" Schedule 40	5' 0"	254 °	Pretension	Tension	Pretension	Tension
Guy#4	5/16" EHS	Unknown	20' 6"	26	Brace#1	2" Schedule 40	5' 0"	254	8 9 1 lb*	0 82 lb**	8 9 1 lb*	1 63 lb**

* Pretension values are calculated at 60 F (15.5 C) and without load factors
 ** Tension value is calculated without load factors or wind

Anchor#1												
Size	Owner			Lead	Direction		Height	Supporting				
3/4" Double Eye Anchor Rod and Plate	SCE			10' 6"	168 °		0' 0"	Other				
ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	In Service, Heavy, 6 lb, Grade A		In Service, 12 lb, Grade A	
Guy#2	9/32" EHS	SCE	36' 6"	16 °	N/A	N/A	N/A	N/A	Pretension	Tension	Pretension	Tension
Guy#1	5/16" EHS	Unknown	20' 6"	2	N/A	N/A	N/A	N/A	0 lb*	1 61 lb**	0 lb*	3 22 lb**

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 ** Tension value is calculated without load factors or wind

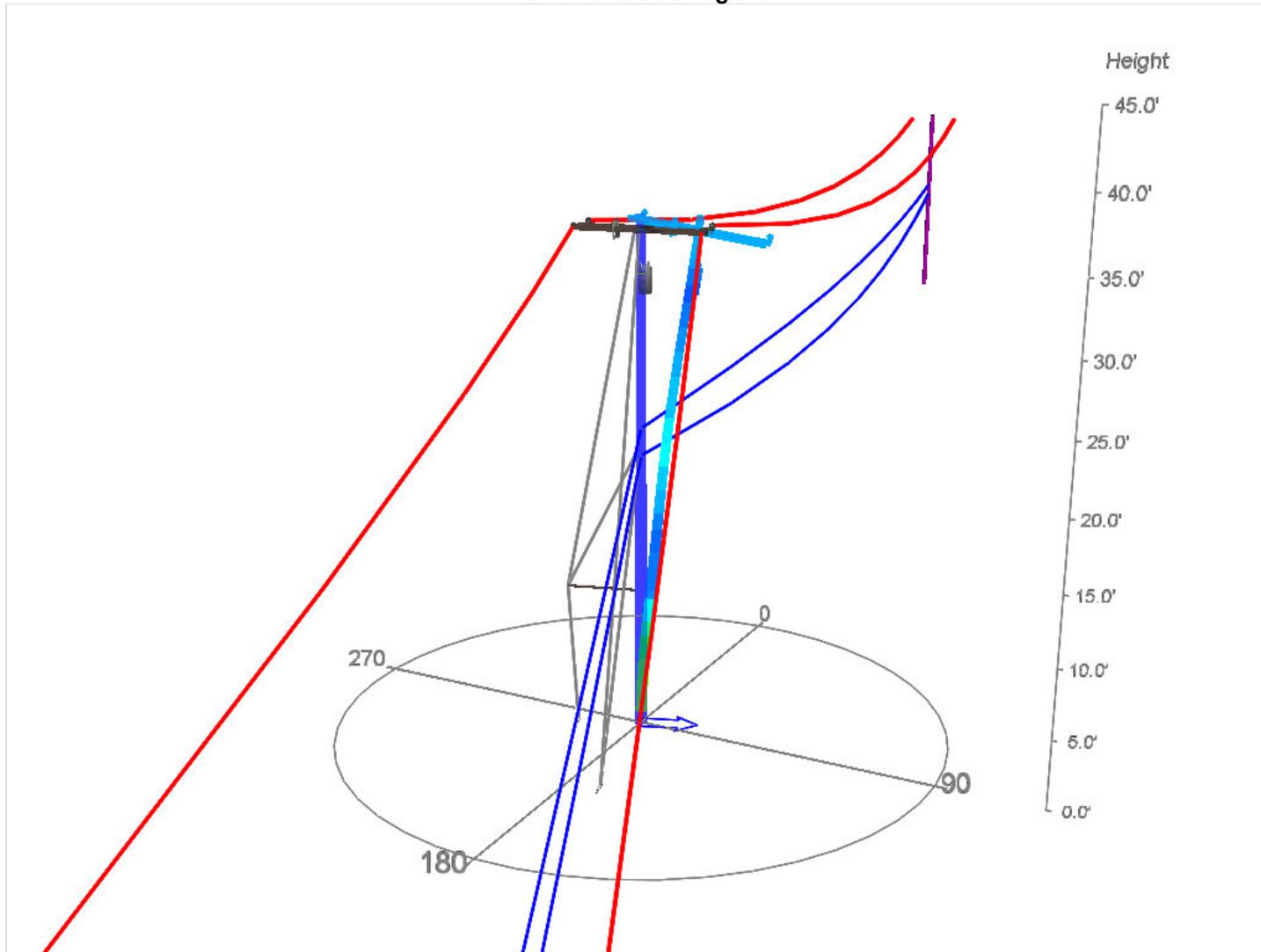
Cross Arms

ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#1	10 Foot Double Cross Arm	3 ' 0"	Other	266	5' 0"	Insulator#1, Insulator#2, Insulator#3, Insulator#4

Insulators

ID	Size	Direction	Offset	Wires
Insulator#1	16 kV Deadend	156	0' 4"	Wire#1
Insulator#2	16 kV Deadend	348	0' 4"	Wire#5
Insulator#3	16 kV Deadend	156	9' 8"	Wire#2
Insulator#4	16 kV Deadend	348	9' 8"	Wire#6

Theoretical: As Designed



Analysis Results

Loading

Component	In Service, Heavy, 6 lb, Grade A (Governing Case)			In Service, 12 lb, Grade A			Client File Maximum Rating
	Safety Factor	Load (Applied / Allowable)	Wind Direction	Safety Factor	Load (Applied / Allowable)	Wind Direction	
Pole	4.29 from stress at 0' 1"	1863 / 8000 lbf/in	0	5.11 from stress at 0' 1"	1565 / 8000 lbf/in	0	8000 lbf/in
Guy#1	13.3	816 / 11200 lbf	280	13.23	84 / 11200 lbf	290	11200 lbf
Guy#2	14.69	609 / 8950 lbf	280	9.33	959 / 8950 lbf	300	8950 lbf
Guy#3	3.33	4630 / 15400 lbf	0	4.05	3805 / 15400 lbf	0	15400 lbf
Guy#4	2.43	4605 / 11200 lbf	0	2.9	3861 / 11200 lbf	0	11200 lbf
Brace#1	14.62	2983 / 43600 lbf	0	1.64	24.1 / 43600 lbf	0	43600 lbf

Wire End Points and Wires

WEP#2													
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground						
Next Pole	None	245'	348	Undefined	0	N/A	N/A						
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, Heavy, 6 lb, Grade A		In Service, 12 lb, Grade A	
										Tension	Sag	Tension	Sag
Wire#5	1/0 ACSR Tree Wire XLPE	SCE	Primary	Heavy Full	36' 8"	0' 0"	0.28	329.84 lbf*	Dynamic	1357.02 lbf**	7' 5"***	785.19 lbf**	7' 4"***
Wire#6	1/0 ACSR Tree Wire XLPE	SCE	Primary	Heavy Full	36' 8"	0' 0"	0.28	329.84 lbf*	Dynamic	1340.96 lbf**	7' 6"***	779.57 lbf**	7' 5"***
Wire#	5" CATV 1/4" Messenger	Verizon California	Communication	Heavy Full	22' 6"	0' 0"	1	660 lbf*	Dynamic	161.36 lbf**	5' 5"***	983.12 lbf**	4' 3"***
Wire#8	1.25" TELCO 5/16" Messenger	Verizon California	Communication	Heavy Full	20' 6"	0' 0"	1	1029 lbf*	Dynamic	2420 lbf**	1' 0"***	1 08.25 lbf**	6' ***

WEP#1													
Type	Environment	Distance	Direction	GPS Point	Inclination	Measured Between	Measured to Ground						
Previous Pole	None	1.3'	156	Undefined	0	N/A	N/A						
ID	Size	Owner	Group	Tension Group	Height	Midspan	TAF	Initial Tension	Tension Method	In Service, Heavy, 6 lb, Grade A		In Service, 12 lb, Grade A	
										Tension	Sag	Tension	Sag
Wire#1	1/0 ACSR Tree Wire XLPE	SCE	Primary	Heavy Full	36' 8"	0' 0"	0.31	336.66 lbf*	Dynamic	1387.7 lbf**	3' 8"***	830.02 lbf**	3' 6"***
Wire#2	1/0 ACSR Tree Wire XLPE	SCE	Primary	Heavy Full	36' 8"	0' 0"	0.31	336.66 lbf*	Dynamic	1426.51 lbf**	3' 7"***	845.3 lbf**	3' 5"***
Wire#3	5" CATV 1/4" Messenger	Verizon California	Communication	Heavy Full	22' 6"	0' 0"	1	665 lbf*	Dynamic	1499.69 lbf**	2' 11"***	958.19 lbf**	2' 3"***
Wire#4	1.25" TELCO 5/16" Messenger	Verizon California	Communication	Heavy Full	20' 6"	0' 0"	1	1263 lbf*	Dynamic	2330.2 lbf**	3' 8"***	16.22 lbf**	3' 5"***

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Equipment

ID	Size	Owner	Type	Height	Bottom Height	Direction
Equip#1	Fuse Arm with 2 Cutouts	SCE	Cutout Arrestor	36' 6"	36' 6"	266 °
Equip#2	25 kVA Transformer	SCE	Transformer	33' 6"	33' 6"	348 °

Anchors

Anchor#2													
Size	Owner	Lead	Direction	Height	Supporting								
1" Triple Eye Anchor Rod and Plate	SCE	4' 10"	254 °	0' 0"	Other								
ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	In Service, Heavy, 6 lb, Grade A		In Service, 12 lb, Grade A		
Guy#3	3/8" EHS	SCE	36' 6"	11 °	Brace#1	2" Schedule 40	5' 0"	254 °	Pretension	Tension	Pretension	Tension	
Guy#4	5/16" EHS	Unknown	20' 6"	26	Brace#1	2" Schedule 40	5' 0"	254	959.53 lbf*	0.82 lbf**	959.53 lbf*	1.63 lbf**	

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Anchor#1													
Size	Owner	Lead	Direction	Height	Supporting								
3/4" Double Eye Anchor Rod and Plate	SCE	10' 6"	168 °	0' 0"	Other								

ID	Size	Owner	Height	Angle	Brace ID	Brace Size	Brace Length	Brace Direction	In Service, Heavy, 6 lb, Grade A		In Service, 12 lb, Grade A	
									Pretension	Tension	Pretension	Tension
Guy#2	9/32" EHS	SCE	36' 6"	16 °	N/A	N/A	N/A	N/A	0 lbf*	0.46 lbf**	0 lbf*	2.63 lbf**
Guy#1	5/16" EHS	Unknown	20' 6"	2	N/A	N/A	N/A	N/A	0 lbf*	0 31 lbf**	0 lbf*	1 19 lbf**

* Pretension values are calculated at 60 F (15.5 C) and without load factors
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Cross Arms

ID	Size	Height	Association	Direction	Offset	Insulators
CrossArm#1	10 Foot Double Cross Arm	36' 6"	Other	266	5' 0"	Insulator#1, Insulator#2, Insulator#3, Insulator#4

Insulators

ID	Size	Direction	Offset	Wires
Insulator#1	16 kV Deadend	156	0' 4"	Wire#1
Insulator#2	16 kV Deadend	348	0' 4"	Wire#5
Insulator#3	16 kV Deadend	156	9' 8"	Wire#2
Insulator#4	16 kV Deadend	348	9' 8"	Wire#6

Location 4144552E Location Forms

SAP

- Field Inspection Date: 08/20/2020
- High Fire: Extreme
- Special Project: No
- Associated Poles:
- Visible Damage: No
- Pole Type: ED
- District: 36 Antelope Valley
- Region: ED NW NORTHCOA
- Above 3000 Ft Elevation: Yes
- As Designed Work Type: Existing
- Access Notes:

Pole Info Form

- Pole Equipment #:
- Previous Inspection Date:
- Year Installed:
- As Is POA Height:
- As Is POA Diameter:
- As Designed POA Height:
- As Designed POA Diameter:
- Thomas Guide/Quadrant:
- Circuit:
- Substation:
- File:
- Location:
- City:
- Brand Height:
- Date Pole Load Performed:
- Comments:
- GPS Location: N/A

QC Comments

- QC Comments: