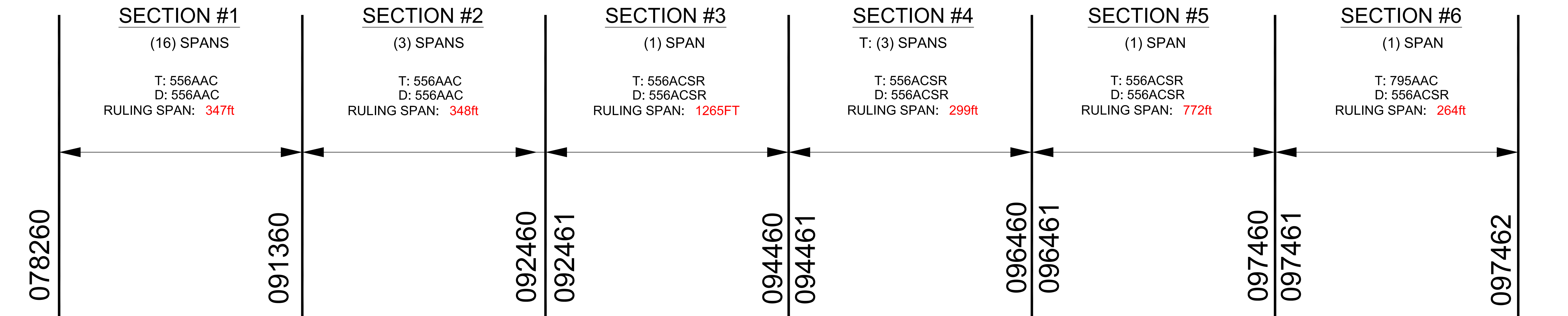


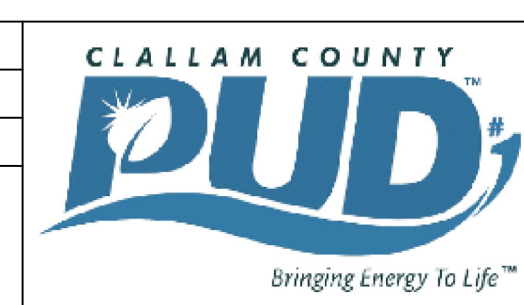
AIRPORT ROAD TO CHERRY STREET

LINE SECTIONS & RULING SPANS



0	ISSUED FOR BIDDING	1/7/21	JBP	0		
REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD

DSGN	
SURV	
STKD	
SCALE:	NTS



CLALLAM COUNTY PUD #1
 AIRPORT TO CHERRY ST
 TRANSMISSION LINE UPGRADE
 LINE SECTIONS

WORK ORDER #	REV
18-0210	0
DRAWING NUMBER	
SHT. 1 OF 1	



1/7/2021

Southwire Company

Conductor: 556.5 kcmil 19 Strand AAC "Dahlia"

Area = 0.4369 in², Diameter = 0.856 in, Weight = 0.521 lb/ft, RBS = 9750 lb
Notes =

Stress-strain data from Chart No. 1-945

Chart Notes: 19 Strand AAC/1350-H19. Contact your conductor manufacturer to
verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 347.00 ft

RUS 1724E-200 Table 9-3 Medium Load Zone

Creep governs the final sag

Loading Limits						Usage
Cond. Temp °F	Temp °C	Ice in	Wind lb/ft²	K lb/ft	Limit	
15.0	-9.4	0.25G	4.00	0.20	50.0 %	Initial
15.0	-9.4	0.00	0.00	0.00	33.3 %*	Initial
15.0	-9.4	0.00	0.00	0.00	25.0 %	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points						Final		Initial	
Cond. Temp °F	Temp °C	Ice in	Wind lb/ft²	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
15.0	-9.4	0.25G	4.00	0.20	1.176	5.20	3405	4.39	4032
32.0	0.0	0.25G	0.00	0.00	0.865	5.16	2524	3.99	3263
0.0	-17.8	0.00	0.00	0.00	0.521	3.01	2604	2.13	3684
15.0	-9.4	0.00	0.00	0.00	0.521	3.59	2186	2.42	3247*
30.0	-1.1	0.00	0.00	0.00	0.521	4.22	1861	2.77	2827
60.0	15.6	0.00	0.00	0.00	0.521	5.49	1430	3.72	2108
90.0	32.2	0.00	0.00	0.00	0.521	6.67	1177	4.87	1610
120.0	48.9	0.00	0.00	0.00	0.521	7.75	1014	6.04	1299
167.0	75.0	0.00	0.00	0.00	0.521	9.24	851	7.72	1018
212.0	100.0	0.00	0.00	0.00	0.521	10.50	750	9.13	861

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

Certain information such as the data, opinions or recommendations set forth herein or given by Southwire representatives, is intended as a general guide only. Each installation of overhead electrical conductor and/or conductor accessories involves special conditions creating problems that require individual solutions and, therefore, the recipient of this information has the sole responsibility in connection with the use of the information. Southwire does not assume any liability in connection with such information.

SECTIONS 1 & 2



1/7/2021

Southwire Company

Conductor: 556.5 kcmil 26/7 ACSR "Dove"

Area = 0.5083 in², Diameter = 0.927 in, Weight = 0.765 lb/ft, RBS = 22600 lb
Notes =

Stress-strain data from Chart No. 1-782

Chart Notes: Type 16 ACSR (26/7), 762.8 kcmil or smaller. Contact your
conductor manufacturer to verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 1265.00 ft

RUS 1724E-200 Table 9-3 Medium Load Zone

Creep governs the final sag

Loading Limits

Cond. °F	Temp °C	Ice in	Wind lb/ft ²	K lb/ft	Limit	Usage
15.0	-9.4	0.25G	4.00	0.20	50.0 %	Initial
15.0	-9.4	0.00	0.00	0.00	33.3 %	Initial
15.0	-9.4	0.00	0.00	0.00	25.0 %*	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points

Cond. °F	Temp °C	Ice in	Wind lb/ft ²	K lb/ft	Weight lb/ft	Final		Initial	
						Sag ft	Tension lb	Sag ft	Tension lb
15.0	-9.4	0.25G	4.00	0.20	1.427	32.77	8733	31.10	9200
32.0	0.0	0.25G	0.00	0.00	1.131	31.73	7147	28.92	7839
0.0	-17.8	0.00	0.00	0.00	0.765	25.91	5917	22.33	6862
15.0	-9.4	0.00	0.00	0.00	0.765	27.13	5650*	23.28	6583
30.0	-1.1	0.00	0.00	0.00	0.765	28.35	5408	24.26	6318
60.0	15.6	0.00	0.00	0.00	0.765	30.76	4986	26.29	5831
90.0	32.2	0.00	0.00	0.00	0.765	33.11	4634	28.38	5402
120.0	48.9	0.00	0.00	0.00	0.765	35.40	4337	30.51	5028
167.0	75.0	0.00	0.00	0.00	0.765	38.82	3957	33.83	4536
212.0	100.0	0.00	0.00	0.00	0.765	40.95	3752	36.95	4155

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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SECTION 3



1/7/2021

Southwire Company

Conductor: 556.5 kcmil 26/7 ACSR "Dove"

Area = 0.5083 in², Diameter = 0.927 in, Weight = 0.765 lb/ft, RBS = 22600 lb

Notes =

Stress-strain data from Chart No. 1-782

Chart Notes: Type 16 ACSR (26/7), 762.8 kcmil or smaller. Contact your conductor manufacturer to verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 299.00 ft

RUS 1724E-200 Table 9-3 Medium Load Zone

Creep governs the final sag

Loading Limits						Usage
Cond. Temp °F	Ice °C	Wind in	K lb/ft²	Limit lb/ft		
15.0	-9.4	0.25G	4.00	0.20	50.0 %	Initial
15.0	-9.4	0.00	0.00	0.00	33.3 %	Initial
15.0	-9.4	0.00	0.00	0.00	25.0 %*	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points						Final		Initial	
Cond. Temp °F	Ice °C	Wind in	K lb/ft²	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb	
15.0	-9.4	0.25G	4.00	0.20	1.427	2.52	6319	2.24	7120
32.0	0.0	0.25G	0.00	0.00	1.131	2.41	5249	1.99	6357
0.0	-17.8	0.00	0.00	0.00	0.765	1.33	6427	1.18	7253
15.0	-9.4	0.00	0.00	0.00	0.765	1.51	5650*	1.27	6727
30.0	-1.1	0.00	0.00	0.00	0.765	1.74	4910	1.38	6190
60.0	15.6	0.00	0.00	0.00	0.765	2.37	3610	1.68	5097
90.0	32.2	0.00	0.00	0.00	0.765	3.22	2660	2.12	4032
120.0	48.9	0.00	0.00	0.00	0.765	3.93	2179	2.76	3099
167.0	75.0	0.00	0.00	0.00	0.765	4.54	1885	4.06	2108
212.0	100.0	0.00	0.00	0.00	0.765	5.15	1662	5.03	1702

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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SECTION 4



1/7/2021

Southwire Company

Conductor: 556.5 kcmil 26/7 ACSR "Dove"

Area = 0.5083 in², Diameter = 0.927 in, Weight = 0.765 lb/ft, RBS = 22600 lb

Notes =

Stress-strain data from Chart No. 1-782

Chart Notes: Type 16 ACSR (26/7), 762.8 kcmil or smaller. Contact your conductor manufacturer to verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 772.00 ft

RUS 1724E-200 Table 9-3 Medium Load Zone

Creep governs the final sag

Loading Limits						Usage
Cond. Temp °F	Temp °C	Ice in	Wind lb/ft²	K lb/ft	Limit	
15.0	-9.4	0.25G	4.00	0.20	50.0 %	Initial
15.0	-9.4	0.00	0.00	0.00	33.3 %	Initial
15.0	-9.4	0.00	0.00	0.00	25.0 %*	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points						Final		Initial	
Cond. Temp °F	Temp °C	Ice in	Wind lb/ft²	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
15.0	-9.4	0.25G	4.00	0.20	1.427	13.71	7763	12.65	8415
32.0	0.0	0.25G	0.00	0.00	1.131	13.15	6416	11.48	7347
0.0	-17.8	0.00	0.00	0.00	0.765	9.30	6133	7.81	7303
15.0	-9.4	0.00	0.00	0.00	0.765	10.09	5650*	8.28	6885
30.0	-1.1	0.00	0.00	0.00	0.765	10.93	5219	8.80	6477
60.0	15.6	0.00	0.00	0.00	0.765	12.67	4504	10.00	5705
90.0	32.2	0.00	0.00	0.00	0.765	14.43	3954	11.37	5018
120.0	48.9	0.00	0.00	0.00	0.765	16.16	3532	12.87	4434
167.0	75.0	0.00	0.00	0.00	0.765	18.26	3128	15.34	3721
212.0	100.0	0.00	0.00	0.00	0.765	19.42	2941	17.70	3228

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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SECTION 5



1/7/2021

Southwire Company

Conductor: 556.5 kcmil 19 Strand AAC "Dahlia"

Area = 0.4369 in², Diameter = 0.856 in, Weight = 0.521 lb/ft, RBS = 9750 lb
Notes =

Stress-strain data from Chart No. 1-945

Chart Notes: 19 Strand AAC/1350-H19. Contact your conductor manufacturer to
verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 264.00 ft

RUS 1724E-200 Table 9-3 Medium Load Zone

Creep governs the final sag

Loading Limits						Usage
Cond. Temp °F	Ice °C	Wind in	K lb/ft²	Limit lb/ft	Limit	
15.0	-9.4	0.25G	4.00	0.20	50.0 %	Initial
15.0	-9.4	0.00	0.00	0.00	33.3 %*	Initial
15.0	-9.4	0.00	0.00	0.00	25.0 %	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points						Final		Initial	
Cond. Temp °F	Ice °C	Wind in	K lb/ft²	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb	
15.0	-9.4	0.25G	4.00	0.20	1.176	3163	2.70	3792	
32.0	0.0	0.25G	0.00	0.00	0.865	2322	2.45	3074	
0.0	-17.8	0.00	0.00	0.00	0.521	2752	1.22	3714	
15.0	-9.4	0.00	0.00	0.00	0.521	2222	1.40	3247*	
30.0	-1.1	0.00	0.00	0.00	0.521	1800	1.63	2786	
60.0	15.6	0.00	0.00	0.00	0.521	1268	2.31	1964	
90.0	32.2	0.00	0.00	0.00	0.521	992	3.24	1400	
120.0	48.9	0.00	0.00	0.00	0.521	831	4.22	1076	
167.0	75.0	0.00	0.00	0.00	0.521	681	5.60	812	
212.0	100.0	0.00	0.00	0.00	0.521	592	6.73	676	

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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SECTION 6 DISTR



1/7/2021

Southwire Company

Conductor: 795.0 kcmil 37 Strand AAC "Arbutus"

Area = 0.6245 in², Diameter = 1.026 in, Weight = 0.745 lb/ft, RBS = 13900 lb
Notes =

Stress-strain data from Chart No. 1-1049

Chart Notes: 37 Strand AAC/1350-H19. Contact your conductor manufacturer to
verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 264.00 ft

RUS 1724E-200 Table 9-3 Medium Load Zone

Creep governs the final sag

Loading Limits						Usage
Cond. Temp °F	Temp °C	Ice in	Wind lb/ft²	K lb/ft	Limit	
15.0	-9.4	0.25G	4.00	0.20	50.0 %	Initial
15.0	-9.4	0.00	0.00	0.00	33.3 %	Initial
15.0	-9.4	0.00	0.00	0.00	25.0 %*	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points						Final		Initial	
Cond. Temp °F	Temp °C	Ice in	Wind lb/ft²	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
15.0	-9.4	0.25G	4.00	0.20	1.450	2.86	4417	2.46	5138
32.0	0.0	0.25G	0.00	0.00	1.142	2.95	3376	2.33	4275
0.0	-17.8	0.00	0.00	0.00	0.745	1.53	4250	1.25	5207
15.0	-9.4	0.00	0.00	0.00	0.745	1.87	3475*	1.41	4592
30.0	-1.1	0.00	0.00	0.00	0.745	2.30	2826	1.63	3979
60.0	15.6	0.00	0.00	0.00	0.745	3.32	1959	2.28	2853
90.0	32.2	0.00	0.00	0.00	0.745	4.33	1500	3.18	2041
120.0	48.9	0.00	0.00	0.00	0.745	5.24	1240	4.16	1562
167.0	75.0	0.00	0.00	0.00	0.745	6.49	1003	5.54	1173
212.0	100.0	0.00	0.00	0.00	0.745	7.52	866	6.68	973

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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SECTION 6 TRANS