

1098-05	GENERAL INFORMATION															
Sheet of	ENGINEERING NOTES AND SIGNAGE															
Rev: 03/26/2026	SAG & TENSION WITH TABLES															

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	43.60	1908.70	72.60

Conductor	1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	145		RAVEN INITIAL										Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																													
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194				
Tension (lbs)	1,808	1,631	1,458	1,290	1,132	991	868	760	673	604	548	503	464	433	407	384	365	348	333	324	317	310	304	297	292	232				
% Ultimate	41%	37%	33%	29%	26%	23%	20%	17%	15%	14%	13%	11%	11%	10%	9%	9%	8%	8%	8%	7%	7%	7%	7%	7%	7%	5%				
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	0'-5"	0'-5"	0'-6"	0'-7"	0'-7"	0'-9"	0'-10"	0'-11"	1'-1"	1'-2"	1'-3"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-3"	2'-4"	2'-5"	2'-5"	3'-1"				
Span 50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"				
75	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-10"				
100	0'-2"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-2"	1'-2"	1'-5"				
120	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-6"	1'-7"	1'-7"	1'-8"	1'-8"	2'-1"				
140	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	1'-0"	1'-1"	1'-2"	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	2'-0"	2'-1"	2'-2"	2'-2"	2'-3"	2'-3"	2'-10"				
160	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	1'-0"	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-7"	2'-8"	2'-9"	2'-9"	2'-10"	2'-11"	2'-11"	3'-9"				
180	0'-7"	0'-8"	0'-9"	0'-10"	1'-0"	1'-1"	1'-3"	1'-5"	1'-7"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-8"	3'-9"	4'-9"				
200	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-4"	1'-7"	1'-9"	2'-0"	2'-3"	2'-5"	2'-8"	2'-11"	3'-1"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	5'-10"				
210	0'-10"	0'-11"	1'-0"	1'-2"	1'-4"	1'-6"	1'-9"	1'-11"	2'-2"	2'-5"	2'-9"	2'-11"	3'-2"	3'-5"	3'-8"	3'-10"	4'-1"	4'-3"	4'-6"	4'-7"	4'-8"	4'-9"	4'-11"	5'-0"	5'-1"	6'-5"				
220	0'-11"	1'-0"	1'-1"	1'-3"	1'-5"	1'-8"	1'-10"	2'-2"	2'-5"	2'-8"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-8"	4'-11"	5'-0"	5'-2"	5'-3"	5'-4"	5'-6"	5'-7"	7'-0"				
230	1'-0"	1'-1"	1'-3"	1'-5"	1'-7"	1'-9"	2'-1"	2'-4"	2'-8"	2'-11"	3'-3"	3'-6"	3'-10"	4'-1"	4'-4"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-7"	5'-9"	5'-10"	6'-0"	6'-1"	7'-8"				
240	1'-1"	1'-2"	1'-4"	1'-6"	1'-9"	1'-11"	2'-3"	2'-7"	2'-11"	3'-2"	3'-6"	3'-10"	4'-2"	4'-6"	4'-9"	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-1"	6'-3"	6'-5"	6'-6"	6'-8"	8'-4"				
250	1'-2"	1'-3"	1'-5"	1'-8"	1'-10"	2'-1"	2'-5"	2'-9"	3'-1"	3'-6"	3'-10"	4'-2"	4'-6"	4'-10"	5'-2"	5'-6"	5'-9"	6'-0"	6'-4"	6'-6"	6'-8"	6'-9"	6'-11"	7'-1"	7'-3"	9'-1"				
260	1'-3"	1'-5"	1'-7"	1'-9"	2'-0"	2'-3"	2'-7"	3'-0"	3'-5"	3'-9"	4'-2"	4'-6"	4'-11"	5'-3"	5'-7"	5'-11"	6'-3"	6'-6"	6'-10"	7'-0"	7'-2"	7'-4"	7'-6"	7'-8"	7'-10"	9'-10"				
270	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-6"	2'-10"	3'-3"	3'-8"	4'-1"	4'-6"	4'-11"	5'-3"	5'-8"	6'-0"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-9"	7'-11"	8'-1"	8'-3"	8'-5"	10'-7"				
280	1'-6"	1'-7"	1'-10"	2'-0"	2'-4"	2'-8"	3'-0"	3'-6"	3'-11"	4'-4"	4'-10"	5'-3"	5'-8"	6'-1"	6'-6"	6'-10"	7'-3"	7'-7"	7'-11"	8'-2"	8'-4"	8'-6"	8'-8"	8'-10"	9'-0"	11'-5"				
290	1'-7"	1'-9"	1'-11"	2'-2"	2'-6"	2'-10"	3'-3"	3'-9"	4'-2"	4'-8"	5'-2"	5'-8"	6'-1"	6'-6"	6'-11"	7'-4"	7'-9"	8'-2"	8'-6"	8'-9"	8'-11"	9'-2"	9'-4"	9'-6"	9'-8"	12'-3"				
300	1'-8"	1'-10"	2'-1"	2'-4"	2'-8"	3'-1"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-5"	7'-11"	8'-4"	8'-8"	9'-1"	9'-4"	9'-7"	9'-9"	10'-0"	10'-2"	10'-5"	13'-1"				
310	1'-9"	2'-0"	2'-3"	2'-6"	2'-10"	3'-3"	3'-9"	4'-3"	4'-10"	5'-4"	5'-11"	6'-5"	7'-0"	7'-5"	7'-11"	8'-5"	8'-10"	9'-3"	9'-9"	10'-0"	10'-3"	10'-5"	10'-8"	10'-10"	11'-1"	14'-0"				
320	1'-11"	2'-1"	2'-4"	2'-8"	3'-0"	3'-6"	4'-0"	4'-6"	5'-1"	5'-8"	6'-3"	6'-10"	7'-5"	7'-11"	8'-6"	9'-0"	9'-5"	9'-11"	10'-4"	10'-8"	10'-11"	11'-1"	11'-4"	11'-7"	11'-10"	14'-11"				
330	2'-0"	2'-3"	2'-6"	2'-10"	3'-3"	3'-8"	4'-3"	4'-10"	5'-5"	6'-1"	6'-8"	7'-3"	7'-11"	8'-5"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-4"	11'-7"	11'-10"	12'-1"	12'-4"	12'-7"	15'-10"				
340	2'-2"	2'-5"	2'-8"	3'-0"	3'-5"	3'-11"	4'-6"	5'-1"	5'-9"	6'-5"	7'-1"	7'-9"	8'-5"	9'-0"	9'-7"	10'-2"	10'-8"	11'-2"	11'-8"	12'-0"	12'-3"	12'-7"	12'-10"	13'-1"	13'-4"	16'-10"				
350	2'-3"	2'-6"	2'-10"	3'-2"	3'-8"	4'-2"	4'-9"	5'-5"	6'-1"	6'-10"	7'-6"	8'-2"	8'-11"	9'-6"	10'-2"	10'-9"	11'-4"	11'-10"	12'-5"	12'-9"	13'-0"	13'-4"	13'-7"	13'-10"	14'-2"	17'-10"				



Conductor	1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	145				RAVEN INITIAL								Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194			
Tension (lbs)	1,808	1,631	1,458	1,290	1,132	991	868	760	673	604	548	503	464	433	407	384	365	348	333	324	317	310	304	297	292	232			
% Ultimate	41%	37%	33%	29%	26%	23%	20%	17%	15%	14%	13%	11%	11%	10%	9%	9%	8%	8%	8%	7%	7%	7%	7%	7%	7%	5%			
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec			
R.S. Span 3-Wave Time	1.97	2.08	2.21	2.36	2.53	2.7	2.88	3.07	3.23	3.4	3.55	3.69	3.82	3.94	4.06	4.16	4.26	4.36	4.42	4.47	4.52	4.56	4.61	4.66	5.23	1.87			
50	0.68	0.72	0.76	0.81	0.87	0.93	0.99	1.06	1.12	1.17	1.22	1.27	1.32	1.36	1.4	1.44	1.47	1.5	1.52	1.54	1.56	1.57	1.59	1.6	1.8	0.64			
75	1.02	1.08	1.14	1.22	1.31	1.4	1.49	1.59	1.67	1.76	1.83	1.91	1.97	2.04	2.1	2.15	2.2	2.25	2.28	2.31	2.34	2.36	2.38	2.41	2.7	0.97			
100	1.36	1.44	1.53	1.63	1.74	1.86	1.99	2.11	2.23	2.34	2.45	2.54	2.63	2.72	2.8	2.87	2.94	3.01	3.05	3.08	3.11	3.15	3.18	3.21	3.6	1.29			
120	1.63	1.72	1.83	1.96	2.09	2.23	2.39	2.54	2.68	2.81	2.93	3.05	3.16	3.26	3.36	3.44	3.53	3.61	3.66	3.7	3.74	3.78	3.81	3.85	4.32	1.55			
140	1.9	2.01	2.14	2.28	2.44	2.61	2.78	2.96	3.12	3.28	3.42	3.56	3.69	3.81	3.92	4.02	4.11	4.21	4.26	4.31	4.36	4.41	4.45	4.49	5.05	1.81			
160	2.17	2.3	2.44	2.61	2.79	2.98	3.18	3.38	3.57	3.75	3.91	4.07	4.21	4.35	4.48	4.59	4.7	4.81	4.87	4.93	4.98	5.04	5.09	5.14	5.77	2.06			
180	2.44	2.58	2.75	2.93	3.13	3.35	3.58	3.81	4.02	4.22	4.4	4.58	4.74	4.89	5.04	5.17	5.29	5.41	5.48	5.55	5.61	5.67	5.72	5.78	6.49	2.32			
200	2.72	2.87	3.05	3.26	3.48	3.72	3.98	4.23	4.46	4.68	4.89	5.09	5.27	5.44	5.6	5.74	5.88	6.01	6.09	6.16	6.23	6.3	6.36	6.42	7.21	2.58			
210	2.85	3.02	3.21	3.42	3.66	3.91	4.18	4.44	4.68	4.92	5.14	5.34	5.53	5.71	5.88	6.03	6.17	6.31	6.4	6.47	6.54	6.61	6.68	6.74	7.57	2.71			
220	2.99	3.16	3.36	3.59	3.83	4.09	4.38	4.65	4.91	5.15	5.38	5.6	5.79	5.98	6.16	6.32	6.47	6.61	6.7	6.78	6.85	6.93	7	7.06	7.93	2.84			
230	3.12	3.3	3.51	3.75	4.01	4.28	4.58	4.86	5.13	5.39	5.63	5.85	6.06	6.25	6.44	6.6	6.76	6.91	7.01	7.09	7.17	7.24	7.31	7.39	8.29	2.97			
240	3.26	3.45	3.66	3.91	4.18	4.47	4.77	5.07	5.35	5.62	5.87	6.11	6.32	6.53	6.72	6.89	7.06	7.22	7.31	7.4	7.48	7.56	7.63	7.71	8.65	3.09			
250	3.39	3.59	3.82	4.07	4.35	4.65	4.97	5.29	5.58	5.86	6.11	6.36	6.58	6.8	7	7.18	7.35	7.52	7.62	7.71	7.79	7.87	7.95	8.03	9.01	3.22			
260	3.53	3.73	3.97	4.24	4.53	4.84	5.17	5.5	5.8	6.09	6.36	6.62	6.85	7.07	7.28	7.47	7.64	7.82	7.92	8.01	8.1	8.19	8.27	8.35	9.38	3.35			
270	3.67	3.88	4.12	4.4	4.7	5.02	5.37	5.71	6.02	6.32	6.6	6.87	7.11	7.34	7.56	7.75	7.94	8.12	8.23	8.32	8.41	8.5	8.59	8.67	9.74	3.48			
280	3.8	4.02	4.27	4.56	4.88	5.21	5.57	5.92	6.25	6.56	6.85	7.13	7.37	7.61	7.84	8.04	8.23	8.42	8.53	8.63	8.72	8.82	8.91	8.99	10.1	3.61			
290	3.94	4.16	4.43	4.73	5.05	5.4	5.77	6.13	6.47	6.79	7.09	7.38	7.64	7.89	8.12	8.33	8.53	8.72	8.84	8.94	9.04	9.13	9.22	9.32	10.46	3.74			
300	4.07	4.31	4.58	4.89	5.22	5.58	5.97	6.34	6.69	7.03	7.34	7.64	7.9	8.16	8.4	8.62	8.82	9.02	9.14	9.25	9.35	9.45	9.54	9.64	10.82	3.87			
310	4.21	4.45	4.73	5.05	5.4	5.77	6.17	6.55	6.92	7.26	7.58	7.89	8.17	8.43	8.68	8.9	9.12	9.32	9.45	9.56	9.66	9.76	9.86	9.96	11.18	4			
320	4.34	4.59	4.89	5.22	5.57	5.96	6.37	6.77	7.14	7.5	7.83	8.15	8.43	8.7	8.96	9.19	9.41	9.62	9.75	9.87	9.97	10.08	10.18	10.28	11.55	4.13			
330	4.48	4.74	5.04	5.38	5.75	6.14	6.56	6.98	7.36	7.73	8.07	8.4	8.69	8.97	9.24	9.48	9.7	9.93	10.06	10.18	10.28	10.39	10.5	10.6	11.91	4.26			
340	4.62	4.88	5.19	5.54	5.92	6.33	6.76	7.19	7.59	7.97	8.32	8.66	8.96	9.25	9.52	9.77	10	10.23	10.36	10.48	10.6	10.71	10.82	10.92	12.27	4.38			
350	4.75	5.03	5.34	5.7	6.1	6.51	6.96	7.4	7.81	8.2	8.56	8.91	9.22	9.52	9.8	10.05	10.29	10.53	10.67	10.79	10.91	11.02	11.14	11.25	12.63	4.51			

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	SAG & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	41.90	1833.40	69.80

Conductor	1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	145		RAVEN CREEP										Eng. Use: MOT
Condition	Creep Sag & Tension																			Temp (°F)										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194				
Tension (lbs)	1,685	1,475	1,271	1,089	929	803	699	620	557	506	467	434	407	384	367	357	348	339	331	324	316	310	303	297	291	231				
% Ultimate	38%	34%	29%	25%	21%	18%	16%	14%	13%	12%	11%	10%	9%	9%	8%	8%	8%	8%	8%	7%	7%	7%	7%	7%	7%	5%				
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	0'-5"	0'-6"	0'-7"	0'-8"	0'-9"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-0"	2'-1"	2'-2"	2'-2"	2'-3"	2'-3"	2'-4"	2'-5"	2'-5"	3'-1"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"				
75	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-10"				
100	0'-2"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-2"	1'-2"	1'-5"				
120	0'-3"	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-5"	1'-6"	1'-6"	1'-6"	1'-6"	1'-7"	1'-7"	1'-8"	2'-1"				
140	0'-5"	0'-5"	0'-6"	0'-7"	0'-9"	0'-10"	0'-11"	1'-1"	1'-2"	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-10"	1'-11"	1'-11"	2'-0"	2'-0"	2'-1"	2'-2"	2'-2"	2'-3"	2'-3"	2'-10"				
160	0'-6"	0'-7"	0'-8"	0'-9"	0'-11"	1'-1"	1'-3"	1'-5"	1'-7"	1'-8"	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-6"	2'-6"	2'-7"	2'-8"	2'-9"	2'-9"	2'-10"	2'-11"	2'-11"	3'-9"				
180	0'-8"	0'-9"	0'-10"	1'-0"	1'-2"	1'-4"	1'-7"	1'-9"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-1"	3'-2"	3'-3"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-8"	3'-9"	4'-9"				
200	0'-10"	0'-11"	1'-1"	1'-3"	1'-5"	1'-8"	1'-11"	2'-2"	2'-5"	2'-8"	2'-11"	3'-1"	3'-4"	3'-6"	3'-8"	3'-9"	3'-10"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	5'-10"				
210	0'-11"	1'-0"	1'-2"	1'-4"	1'-7"	1'-10"	2'-1"	2'-5"	2'-8"	2'-11"	3'-2"	3'-5"	3'-8"	3'-10"	4'-0"	4'-2"	4'-3"	4'-4"	4'-6"	4'-7"	4'-8"	4'-9"	4'-11"	5'-0"	5'-1"	6'-5"				
220	1'-0"	1'-1"	1'-3"	1'-6"	1'-9"	2'-0"	2'-4"	2'-7"	2'-11"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-5"	4'-7"	4'-8"	4'-10"	4'-11"	5'-0"	5'-2"	5'-3"	5'-4"	5'-6"	5'-7"	7'-0"				
230	1'-1"	1'-2"	1'-5"	1'-8"	1'-11"	2'-3"	2'-6"	2'-10"	3'-2"	3'-6"	3'-10"	4'-1"	4'-4"	4'-8"	4'-10"	5'-0"	5'-1"	5'-3"	5'-4"	5'-6"	5'-7"	5'-9"	5'-10"	6'-0"	6'-1"	7'-8"				
240	1'-2"	1'-4"	1'-6"	1'-9"	2'-1"	2'-5"	2'-9"	3'-1"	3'-6"	3'-10"	4'-2"	4'-6"	4'-9"	5'-1"	5'-3"	5'-5"	5'-7"	5'-9"	5'-10"	6'-0"	6'-1"	6'-3"	6'-5"	6'-6"	6'-8"	8'-5"				
250	1'-3"	1'-5"	1'-8"	1'-11"	2'-3"	2'-7"	3'-0"	3'-5"	3'-9"	4'-2"	4'-6"	4'-10"	5'-2"	5'-6"	5'-9"	5'-11"	6'-0"	6'-2"	6'-4"	6'-6"	6'-8"	6'-9"	6'-11"	7'-1"	7'-3"	9'-1"				
260	1'-4"	1'-6"	1'-9"	2'-1"	2'-5"	2'-10"	3'-3"	3'-8"	4'-1"	4'-6"	4'-10"	5'-3"	5'-7"	5'-11"	6'-2"	6'-4"	6'-6"	6'-8"	6'-10"	7'-0"	7'-2"	7'-4"	7'-6"	7'-8"	7'-10"	9'-10"				
270	1'-5"	1'-8"	1'-11"	2'-3"	2'-8"	3'-1"	3'-6"	3'-11"	4'-5"	4'-10"	5'-3"	5'-8"	6'-0"	6'-5"	6'-8"	6'-10"	7'-1"	7'-3"	7'-5"	7'-7"	7'-9"	7'-11"	8'-1"	8'-3"	8'-5"	10'-7"				
280	1'-7"	1'-9"	2'-1"	2'-5"	2'-10"	3'-3"	3'-9"	4'-3"	4'-9"	5'-3"	5'-8"	6'-1"	6'-6"	6'-10"	7'-2"	7'-5"	7'-7"	7'-9"	8'-0"	8'-2"	8'-4"	8'-6"	8'-8"	8'-11"	9'-1"	11'-5"				
290	1'-8"	1'-11"	2'-3"	2'-7"	3'-0"	3'-6"	4'-1"	4'-7"	5'-1"	5'-7"	6'-1"	6'-6"	7'-0"	7'-4"	7'-9"	7'-11"	8'-2"	8'-4"	8'-6"	8'-9"	8'-11"	9'-2"	9'-4"	9'-6"	9'-9"	12'-3"				
300	1'-9"	2'-1"	2'-5"	2'-9"	3'-3"	3'-9"	4'-4"	4'-11"	5'-5"	6'-0"	6'-6"	7'-0"	7'-5"	7'-11"	8'-3"	8'-6"	8'-8"	8'-11"	9'-2"	9'-4"	9'-7"	9'-9"	10'-0"	10'-2"	10'-5"	13'-1"				
310	1'-11"	2'-2"	2'-6"	3'-0"	3'-6"	4'-0"	4'-7"	5'-3"	5'-10"	6'-5"	6'-11"	7'-5"	7'-11"	8'-5"	8'-10"	9'-1"	9'-3"	9'-6"	9'-9"	10'-0"	10'-3"	10'-5"	10'-8"	10'-11"	11'-1"	14'-0"				
320	2'-0"	2'-4"	2'-9"	3'-2"	3'-8"	4'-3"	4'-11"	5'-7"	6'-2"	6'-10"	7'-5"	7'-11"	8'-6"	9'-0"	9'-5"	9'-8"	9'-11"	10'-2"	10'-5"	10'-8"	10'-11"	11'-2"	11'-4"	11'-7"	11'-10"	14'-11"				
330	2'-2"	2'-6"	2'-11"	3'-4"	3'-11"	4'-7"	5'-3"	5'-11"	6'-7"	7'-3"	7'-10"	8'-5"	9'-0"	9'-7"	10'-0"	10'-3"	10'-6"	10'-10"	11'-1"	11'-4"	11'-7"	11'-10"	12'-1"	12'-4"	12'-7"	15'-10"				
340	2'-4"	2'-8"	3'-1"	3'-7"	4'-2"	4'-10"	5'-7"	6'-3"	7'-0"	7'-8"	8'-4"	9'-0"	9'-7"	10'-2"	10'-7"	10'-11"	11'-2"	11'-6"	11'-9"	12'-0"	12'-4"	12'-7"	12'-10"	13'-1"	13'-4"	16'-10"				
350	2'-5"	2'-9"	3'-3"	3'-9"	4'-5"	5'-2"	5'-11"	6'-8"	7'-5"	8'-2"	8'-10"	9'-6"	10'-2"	10'-9"	11'-3"	11'-6"	11'-10"	12'-2"	12'-5"	12'-9"	13'-0"	13'-4"	13'-7"	13'-11"	14'-2"	17'-10"				

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	41.90	1833.40	69.80

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	145		RAVEN CREEP								Eng. Use: MOT Temp (°F)	
Condition Creep Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194		
Tension (lbs)	1,685	1,475	1,271	1,089	929	803	699	620	557	506	467	434	407	384	367	357	348	339	331	324	316	310	303	297	291	231		
% Ultimate	38%	34%	29%	25%	21%	18%	16%	14%	13%	12%	11%	10%	9%	9%	8%	8%	8%	8%	8%	7%	7%	7%	7%	7%	7%	5%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span																												
3-Wave Time	2.07	2.23	2.41	2.61	2.81	3.01	3.19	3.37	3.53	3.68	3.82	3.94	4.06	4.15	4.21	4.26	4.32	4.37	4.42	4.47	4.52	4.56	4.61	4.66	5.23	1.94		
50	0.71	0.77	0.83	0.9	0.97	1.04	1.1	1.16	1.22	1.27	1.32	1.36	1.4	1.43	1.45	1.47	1.49	1.51	1.52	1.54	1.56	1.57	1.59	1.61	1.8	0.67		
75	1.07	1.15	1.25	1.35	1.45	1.56	1.65	1.74	1.83	1.9	1.97	2.04	2.1	2.15	2.18	2.2	2.23	2.26	2.29	2.31	2.34	2.36	2.39	2.41	2.7	1		
100	1.43	1.54	1.66	1.8	1.93	2.07	2.2	2.32	2.44	2.54	2.63	2.72	2.8	2.86	2.9	2.94	2.98	3.01	3.05	3.08	3.12	3.15	3.18	3.21	3.61	1.34		
120	1.71	1.85	1.99	2.16	2.32	2.49	2.64	2.79	2.92	3.04	3.16	3.26	3.36	3.43	3.48	3.53	3.57	3.61	3.66	3.7	3.74	3.78	3.82	3.85	4.33	1.6		
140	2	2.15	2.33	2.52	2.71	2.9	3.08	3.25	3.41	3.55	3.68	3.81	3.92	4.01	4.06	4.12	4.17	4.22	4.27	4.32	4.36	4.41	4.45	4.5	5.05	1.87		
160	2.28	2.46	2.66	2.88	3.1	3.32	3.52	3.72	3.9	4.06	4.21	4.35	4.48	4.58	4.64	4.7	4.76	4.82	4.88	4.93	4.98	5.04	5.09	5.14	5.77	2.14		
180	2.57	2.77	2.99	3.24	3.48	3.73	3.96	4.18	4.39	4.57	4.74	4.89	5.04	5.15	5.22	5.29	5.36	5.42	5.49	5.55	5.61	5.67	5.73	5.78	6.49	2.4		
200	2.85	3.08	3.32	3.6	3.87	4.15	4.4	4.65	4.87	5.08	5.26	5.44	5.6	5.73	5.8	5.88	5.95	6.03	6.1	6.17	6.23	6.3	6.36	6.43	7.21	2.67		
210	3	3.23	3.49	3.78	4.06	4.36	4.62	4.88	5.12	5.33	5.53	5.71	5.88	6.01	6.09	6.17	6.25	6.33	6.4	6.47	6.54	6.61	6.68	6.75	7.58	2.8		
220	3.14	3.38	3.65	3.96	4.26	4.56	4.84	5.11	5.36	5.58	5.79	5.98	6.16	6.3	6.38	6.47	6.55	6.63	6.71	6.78	6.86	6.93	7	7.07	7.94	2.94		
230	3.28	3.54	3.82	4.14	4.45	4.77	5.06	5.34	5.6	5.84	6.05	6.26	6.44	6.58	6.67	6.76	6.85	6.93	7.01	7.09	7.17	7.24	7.32	7.39	8.3	3.07		
240	3.43	3.69	3.99	4.32	4.64	4.98	5.28	5.58	5.85	6.09	6.32	6.53	6.72	6.87	6.97	7.06	7.15	7.23	7.32	7.4	7.48	7.56	7.64	7.71	8.66	3.2		
250	3.57	3.84	4.15	4.5	4.84	5.19	5.5	5.81	6.09	6.34	6.58	6.8	7	7.16	7.26	7.35	7.44	7.53	7.62	7.71	7.79	7.87	7.96	8.03	9.02	3.34		
260	3.71	4	4.32	4.68	5.03	5.39	5.72	6.04	6.34	6.6	6.84	7.07	7.28	7.44	7.55	7.65	7.74	7.83	7.93	8.02	8.1	8.19	8.27	8.35	9.38	3.47		
270	3.85	4.15	4.49	4.86	5.22	5.6	5.94	6.27	6.58	6.85	7.11	7.34	7.56	7.73	7.84	7.94	8.04	8.14	8.23	8.33	8.41	8.5	8.59	8.68	9.74	3.61		
280	4	4.31	4.65	5.04	5.42	5.81	6.16	6.51	6.82	7.11	7.37	7.62	7.84	8.02	8.13	8.23	8.34	8.44	8.54	8.63	8.73	8.82	8.91	9	10.11	3.74		
290	4.14	4.46	4.82	5.22	5.61	6.02	6.38	6.74	7.07	7.36	7.63	7.89	8.12	8.3	8.42	8.53	8.64	8.74	8.84	8.94	9.04	9.13	9.23	9.32	10.47	3.87		
300	4.28	4.61	4.98	5.4	5.81	6.22	6.6	6.97	7.31	7.61	7.9	8.16	8.4	8.59	8.71	8.82	8.93	9.04	9.15	9.25	9.35	9.45	9.55	9.64	10.83	4.01		
310	4.42	4.77	5.15	5.58	6	6.43	6.82	7.2	7.56	7.87	8.16	8.43	8.68	8.88	9	9.12	9.23	9.34	9.45	9.56	9.66	9.76	9.87	9.96	11.19	4.14		
320	4.57	4.92	5.32	5.76	6.19	6.64	7.05	7.44	7.8	8.12	8.43	8.7	8.96	9.16	9.29	9.41	9.53	9.64	9.76	9.87	9.98	10.08	10.19	10.29	11.55	4.27		
330	4.71	5.07	5.48	5.94	6.39	6.85	7.27	7.67	8.04	8.38	8.69	8.98	9.24	9.45	9.58	9.71	9.83	9.95	10.06	10.18	10.29	10.39	10.51	10.61	11.91	4.41		
340	4.85	5.23	5.65	6.11	6.58	7.05	7.49	7.9	8.29	8.63	8.95	9.25	9.52	9.74	9.87	10	10.13	10.25	10.37	10.49	10.6	10.71	10.82	10.93	12.28	4.54		
350	5	5.38	5.81	6.29	6.77	7.26	7.71	8.13	8.53	8.88	9.22	9.52	9.8	10.02	10.16	10.3	10.43	10.55	10.67	10.8	10.91	11.03	11.14	11.25	12.64	4.67		

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	45.20	1981.10	75.40

Conductor 1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	160	RAVEN INITIAL										Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120		194
Tension (lbs)	1,802	1,625	1,458	1,296	1,144	1,010	893	791	708	639	583	538	500	467	441	417	397	379	363	350	343	336	330	323	317		253
% Ultimate	41%	37%	33%	30%	26%	23%	20%	18%	16%	15%	13%	12%	11%	11%	10%	10%	9%	9%	8%	8%	8%	8%	8%	7%	7%		6%
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)		(Ft-In)
Ruling Span Sag	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	1'-0"	1'-1"	1'-3"	1'-4"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-6"	2'-7"	2'-7"	2'-8"	2'-9"		3'-5"
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"		0'-4"
75	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-7"	0'-7"		0'-9"
100	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"		1'-4"
120	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-5"	1'-5"	1'-6"	1'-6"	1'-6"		1'-11"
140	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	1'-11"	2'-0"	2'-0"	2'-0"	2'-1"		2'-7"
160	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	1'-0"	1'-1"	1'-3"	1'-4"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-6"	2'-7"	2'-7"	2'-8"	2'-9"		3'-5"
180	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-1"	1'-3"	1'-5"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-2"	3'-3"	3'-4"	3'-4"	3'-5"		4'-4"
200	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-1"	2'-4"	2'-6"	2'-8"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-8"	3'-10"	3'-11"	4'-0"	4'-1"	4'-2"	4'-3"		5'-4"
210	0'-10"	0'-11"	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-1"	2'-4"	2'-6"	2'-9"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"		5'-10"
220	0'-11"	1'-0"	1'-1"	1'-3"	1'-5"	1'-7"	1'-10"	2'-1"	2'-4"	2'-6"	2'-9"	3'-0"	3'-3"	3'-6"	3'-8"	3'-11"	4'-1"	4'-3"	4'-6"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"	5'-2"		6'-5"
230	1'-0"	1'-1"	1'-3"	1'-4"	1'-7"	1'-9"	2'-0"	2'-3"	2'-6"	2'-9"	3'-1"	3'-4"	3'-7"	3'-10"	4'-0"	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-2"	5'-3"	5'-5"	5'-6"	5'-7"		7'-0"
240	1'-1"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-5"	2'-9"	3'-0"	3'-4"	3'-7"	3'-10"	4'-2"	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-8"	5'-9"	5'-11"	6'-0"	6'-1"		7'-8"
250	1'-2"	1'-3"	1'-5"	1'-7"	1'-10"	2'-1"	2'-4"	2'-8"	3'-0"	3'-3"	3'-7"	3'-11"	4'-2"	4'-6"	4'-9"	5'-0"	5'-4"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-8"	6'-9"	6'-10"		8'-4"
260	1'-3"	1'-5"	1'-7"	1'-9"	2'-0"	2'-3"	2'-6"	2'-10"	3'-3"	3'-7"	3'-11"	4'-3"	4'-6"	4'-10"	5'-2"	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-8"	6'-9"	6'-11"	7'-0"	7'-2"		9'-0"
270	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-5"	2'-9"	3'-1"	3'-6"	3'-10"	4'-2"	4'-7"	4'-11"	5'-3"	5'-7"	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-2"	7'-3"	7'-5"	7'-7"	7'-9"		9'-8"
280	1'-6"	1'-7"	1'-10"	2'-0"	2'-4"	2'-7"	2'-11"	3'-4"	3'-9"	4'-1"	4'-6"	4'-11"	5'-3"	5'-8"	6'-0"	6'-4"	6'-8"	7'-0"	7'-3"	7'-6"	7'-8"	7'-10"	8'-0"	8'-2"	8'-4"		10'-5"
290	1'-7"	1'-9"	1'-11"	2'-2"	2'-6"	2'-10"	3'-2"	3'-7"	4'-0"	4'-5"	4'-10"	5'-3"	5'-8"	6'-1"	6'-5"	6'-9"	7'-2"	7'-6"	7'-9"	8'-1"	8'-3"	8'-5"	8'-7"	8'-9"	8'-11"		11'-2"
300	1'-8"	1'-10"	2'-1"	2'-4"	2'-8"	3'-0"	3'-5"	3'-10"	4'-3"	4'-9"	5'-2"	5'-8"	6'-1"	6'-6"	6'-10"	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	8'-10"	9'-0"	9'-2"	9'-4"	9'-7"		12'-0"
310	1'-9"	2'-0"	2'-3"	2'-6"	2'-10"	3'-2"	3'-7"	4'-1"	4'-7"	5'-1"	5'-6"	6'-0"	6'-6"	6'-11"	7'-4"	7'-9"	8'-2"	8'-6"	8'-11"	9'-3"	9'-5"	9'-7"	9'-10"	10'-0"	10'-2"		12'-9"
320	1'-11"	2'-1"	2'-4"	2'-8"	3'-0"	3'-5"	3'-10"	4'-4"	4'-10"	5'-5"	5'-11"	6'-5"	6'-11"	7'-4"	7'-10"	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-0"	10'-3"	10'-5"	10'-8"	10'-10"		13'-7"
330	2'-0"	2'-3"	2'-6"	2'-10"	3'-2"	3'-7"	4'-1"	4'-8"	5'-2"	5'-9"	6'-3"	6'-10"	7'-4"	7'-10"	8'-4"	8'-9"	9'-3"	9'-8"	10'-1"	10'-6"	10'-8"	10'-11"	11'-1"	11'-4"	11'-7"		14'-6"
340	2'-2"	2'-5"	2'-8"	3'-0"	3'-5"	3'-10"	4'-4"	4'-11"	5'-6"	6'-1"	6'-8"	7'-3"	7'-9"	8'-4"	8'-10"	9'-4"	9'-10"	10'-3"	10'-9"	11'-1"	11'-4"	11'-7"	11'-10"	12'-0"	12'-3"		15'-4"
350	2'-3"	2'-6"	2'-10"	3'-2"	3'-7"	4'-1"	4'-7"	5'-2"	5'-10"	6'-5"	7'-1"	7'-8"	8'-3"	8'-10"	9'-4"	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-0"	12'-3"	12'-6"	12'-9"	13'-0"		16'-3"

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	45.20	1981.10	75.40

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	43.60	1911.30	72.70

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)	0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	160	RAVEN CREEP												Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																													
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194			
Tension (lbs)	1,661	1,457	1,264	1,093	948	826	729	651	591	540	501	467	439	415	395	385	376	367	358	350	343	336	329	323	317	253			
% Ultimate	38%	33%	29%	25%	22%	19%	17%	15%	13%	12%	11%	11%	10%	9%	9%	9%	9%	8%	8%	8%	8%	8%	8%	7%	7%	6%			
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)			
Ruling Span Sag	0'-6"	0'-7"	0'-8"	0'-9"	0'-11"	1'-0"	1'-2"	1'-4"	1'-6"	1'-7"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-3"	2'-3"	2'-4"	2'-5"	2'-6"	2'-6"	2'-7"	2'-7"	2'-8"	2'-9"	3'-5"			
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"			
75	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-7"	0'-7"	0'-9"			
100	0'-2"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-4"			
120	0'-3"	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-3"	1'-4"	1'-4"	1'-5"	1'-5"	1'-5"	1'-6"	1'-6"	1'-6"	1'-11"			
140	0'-5"	0'-5"	0'-6"	0'-7"	0'-8"	0'-10"	0'-11"	1'-0"	1'-1"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-10"	1'-11"	1'-11"	2'-0"	2'-0"	2'-0"	2'-1"	2'-7"			
160	0'-6"	0'-7"	0'-8"	0'-9"	0'-11"	1'-0"	1'-2"	1'-4"	1'-6"	1'-7"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-3"	2'-3"	2'-4"	2'-5"	2'-6"	2'-6"	2'-7"	2'-7"	2'-8"	2'-9"	3'-5"			
180	0'-8"	0'-9"	0'-10"	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-9"	2'-10"	2'-11"	3'-0"	3'-0"	3'-1"	3'-2"	3'-3"	3'-4"	3'-4"	3'-5"	4'-4"			
200	0'-10"	0'-11"	1'-1"	1'-3"	1'-5"	1'-8"	1'-10"	2'-1"	2'-3"	2'-6"	2'-8"	2'-11"	3'-1"	3'-3"	3'-5"	3'-6"	3'-7"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"	4'-1"	4'-2"	4'-3"	5'-4"			
210	0'-11"	1'-0"	1'-2"	1'-4"	1'-7"	1'-9"	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	3'-10"	3'-11"	4'-0"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	5'-10"			
220	1'-0"	1'-1"	1'-3"	1'-6"	1'-9"	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	3'-11"	4'-1"	4'-3"	4'-4"	4'-5"	4'-6"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"	5'-2"	6'-5"			
230	1'-1"	1'-3"	1'-5"	1'-8"	1'-10"	2'-2"	2'-5"	2'-9"	3'-0"	3'-3"	3'-7"	3'-10"	4'-1"	4'-3"	4'-6"	4'-7"	4'-9"	4'-10"	5'-0"	5'-1"	5'-2"	5'-3"	5'-5"	5'-6"	5'-7"	7'-0"			
240	1'-2"	1'-4"	1'-6"	1'-9"	2'-0"	2'-4"	2'-8"	3'-0"	3'-3"	3'-7"	3'-10"	4'-2"	4'-5"	4'-8"	4'-11"	5'-0"	5'-2"	5'-3"	5'-5"	5'-6"	5'-8"	5'-9"	5'-11"	6'-0"	6'-1"	7'-8"			
250	1'-3"	1'-5"	1'-8"	1'-11"	2'-3"	2'-6"	2'-11"	3'-3"	3'-7"	3'-11"	4'-2"	4'-6"	4'-9"	5'-1"	5'-4"	5'-6"	5'-7"	5'-9"	5'-10"	6'-0"	6'-2"	6'-3"	6'-5"	6'-6"	6'-8"	8'-4"			
260	1'-4"	1'-7"	1'-10"	2'-1"	2'-5"	2'-9"	3'-1"	3'-6"	3'-10"	4'-3"	4'-6"	4'-10"	5'-2"	5'-6"	5'-9"	5'-11"	6'-1"	6'-2"	6'-4"	6'-6"	6'-8"	6'-9"	6'-11"	7'-0"	7'-2"	9'-0"			
270	1'-6"	1'-8"	1'-11"	2'-3"	2'-7"	3'-0"	3'-4"	3'-9"	4'-2"	4'-6"	4'-11"	5'-3"	5'-7"	5'-11"	6'-3"	6'-4"	6'-6"	6'-8"	6'-10"	7'-0"	7'-2"	7'-4"	7'-5"	7'-7"	7'-9"	9'-8"			
280	1'-7"	1'-10"	2'-1"	2'-5"	2'-9"	3'-2"	3'-7"	4'-1"	4'-6"	4'-11"	5'-3"	5'-8"	6'-0"	6'-4"	6'-8"	6'-10"	7'-0"	7'-2"	7'-4"	7'-6"	7'-8"	7'-10"	8'-0"	8'-2"	8'-4"	10'-5"			
290	1'-8"	1'-11"	2'-3"	2'-7"	3'-0"	3'-5"	3'-11"	4'-4"	4'-9"	5'-3"	5'-8"	6'-1"	6'-5"	6'-10"	7'-2"	7'-4"	7'-6"	7'-9"	7'-11"	8'-1"	8'-3"	8'-5"	8'-7"	8'-9"	8'-11"	11'-2"			
300	1'-10"	2'-1"	2'-5"	2'-9"	3'-2"	3'-8"	4'-2"	4'-8"	5'-1"	5'-7"	6'-0"	6'-6"	6'-11"	7'-4"	7'-8"	7'-10"	8'-1"	8'-3"	8'-5"	8'-8"	8'-10"	9'-0"	9'-2"	9'-5"	9'-7"	12'-0"			
310	1'-11"	2'-3"	2'-7"	2'-11"	3'-5"	3'-11"	4'-5"	5'-0"	5'-6"	6'-0"	6'-5"	6'-11"	7'-4"	7'-9"	8'-2"	8'-5"	8'-7"	8'-10"	9'-0"	9'-3"	9'-5"	9'-7"	9'-10"	10'-0"	10'-2"	12'-9"			
320	2'-1"	2'-4"	2'-9"	3'-2"	3'-8"	4'-2"	4'-9"	5'-3"	5'-10"	6'-4"	6'-10"	7'-4"	7'-10"	8'-4"	8'-9"	8'-11"	9'-2"	9'-5"	9'-7"	9'-10"	10'-1"	10'-3"	10'-6"	10'-8"	10'-10"	13'-7"			
330	2'-2"	2'-6"	2'-11"	3'-4"	3'-10"	4'-5"	5'-0"	5'-8"	6'-2"	6'-9"	7'-4"	7'-10"	8'-4"	8'-10"	9'-3"	9'-6"	9'-9"	10'-0"	10'-3"	10'-6"	10'-8"	10'-11"	11'-2"	11'-4"	11'-7"	14'-6"			
340	2'-4"	2'-8"	3'-1"	3'-7"	4'-1"	4'-9"	5'-4"	6'-0"	6'-7"	7'-2"	7'-9"	8'-4"	8'-10"	9'-4"	9'-10"	10'-1"	10'-4"	10'-7"	10'-10"	11'-1"	11'-4"	11'-7"	11'-10"	12'-1"	12'-3"	15'-5"			
350	2'-6"	2'-10"	3'-3"	3'-9"	4'-4"	5'-0"	5'-8"	6'-4"	7'-0"	7'-7"	8'-3"	8'-10"	9'-5"	9'-11"	10'-5"	10'-9"	11'-0"	11'-3"	11'-6"	11'-9"	12'-0"	12'-3"	12'-6"	12'-9"	13'-0"	16'-4"			

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	43.60	1911.30	72.70

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	160		RAVEN CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194	
Tension (lbs)	1,661	1,457	1,264	1,093	948	826	729	651	591	540	501	467	439	415	395	385	376	367	358	350	343	336	329	323	317	253	
% Ultimate	38%	33%	29%	25%	22%	19%	17%	15%	13%	12%	11%	11%	10%	9%	9%	9%	9%	8%	8%	8%	8%	8%	8%	7%	7%	6%	
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	
R.S. Span																											
3-Wave Time	2.3	2.47	2.65	2.85	3.05	3.25	3.44	3.61	3.77	3.92	4.06	4.19	4.31	4.42	4.47	4.53	4.58	4.63	4.69	4.74	4.79	4.83	4.88	4.93	5.51	2.15	
50	0.72	0.77	0.83	0.89	0.95	1.02	1.07	1.13	1.18	1.22	1.27	1.31	1.35	1.38	1.4	1.41	1.43	1.45	1.46	1.48	1.5	1.51	1.53	1.54	1.72	0.67	
75	1.08	1.16	1.24	1.34	1.43	1.52	1.61	1.69	1.77	1.84	1.9	1.96	2.02	2.07	2.1	2.12	2.15	2.17	2.2	2.22	2.24	2.27	2.29	2.31	2.58	1.01	
100	1.44	1.54	1.66	1.78	1.91	2.03	2.15	2.26	2.36	2.45	2.54	2.62	2.69	2.76	2.79	2.83	2.86	2.9	2.93	2.96	2.99	3.02	3.05	3.08	3.45	1.35	
120	1.72	1.85	1.99	2.14	2.29	2.44	2.58	2.71	2.83	2.94	3.04	3.14	3.23	3.31	3.35	3.39	3.43	3.48	3.51	3.55	3.59	3.63	3.66	3.7	4.14	1.61	
140	2.01	2.16	2.32	2.49	2.67	2.84	3.01	3.16	3.3	3.43	3.55	3.66	3.77	3.86	3.91	3.96	4.01	4.05	4.1	4.14	4.19	4.23	4.27	4.31	4.82	1.88	
160	2.3	2.47	2.65	2.85	3.05	3.25	3.44	3.61	3.77	3.92	4.06	4.19	4.31	4.42	4.47	4.53	4.58	4.63	4.69	4.74	4.79	4.83	4.88	4.93	5.51	2.15	
180	2.58	2.78	2.98	3.2	3.43	3.66	3.87	4.06	4.25	4.41	4.57	4.71	4.85	4.97	5.03	5.09	5.15	5.21	5.27	5.33	5.38	5.44	5.49	5.54	6.2	2.42	
200	2.87	3.08	3.32	3.56	3.82	4.06	4.3	4.51	4.72	4.9	5.07	5.24	5.38	5.52	5.59	5.66	5.72	5.79	5.86	5.92	5.98	6.04	6.1	6.16	6.89	2.69	
210	3.02	3.24	3.48	3.74	4.01	4.26	4.51	4.74	4.95	5.15	5.33	5.5	5.65	5.8	5.87	5.94	6.01	6.08	6.15	6.22	6.28	6.35	6.41	6.47	7.24	2.82	
220	3.16	3.39	3.65	3.92	4.2	4.47	4.73	4.96	5.19	5.39	5.58	5.76	5.92	6.07	6.15	6.23	6.3	6.37	6.44	6.51	6.58	6.65	6.71	6.78	7.58	2.96	
230	3.3	3.55	3.81	4.09	4.39	4.67	4.94	5.19	5.43	5.64	5.84	6.02	6.19	6.35	6.43	6.51	6.58	6.66	6.74	6.81	6.88	6.95	7.02	7.09	7.93	3.09	
240	3.45	3.7	3.98	4.27	4.58	4.87	5.16	5.41	5.66	5.88	6.09	6.28	6.46	6.62	6.71	6.79	6.87	6.95	7.03	7.11	7.18	7.25	7.32	7.39	8.28	3.23	
250	3.59	3.85	4.14	4.45	4.77	5.08	5.37	5.64	5.9	6.13	6.34	6.55	6.73	6.9	6.99	7.07	7.16	7.24	7.32	7.4	7.48	7.56	7.63	7.7	8.62	3.36	
260	3.73	4.01	4.31	4.63	4.96	5.28	5.59	5.87	6.13	6.37	6.6	6.81	7	7.18	7.27	7.36	7.44	7.53	7.62	7.7	7.78	7.86	7.94	8.01	8.97	3.5	
270	3.88	4.16	4.48	4.81	5.15	5.48	5.8	6.09	6.37	6.62	6.85	7.07	7.27	7.45	7.55	7.64	7.73	7.82	7.91	8	8.08	8.16	8.24	8.32	9.31	3.63	
280	4.02	4.32	4.64	4.98	5.34	5.69	6.02	6.32	6.61	6.86	7.11	7.33	7.54	7.73	7.83	7.92	8.02	8.11	8.2	8.29	8.38	8.46	8.55	8.63	9.66	3.77	
290	4.16	4.47	4.81	5.16	5.53	5.89	6.23	6.54	6.84	7.11	7.36	7.59	7.81	8.01	8.11	8.21	8.3	8.4	8.5	8.59	8.68	8.77	8.85	8.94	10	3.9	
300	4.31	4.63	4.97	5.34	5.72	6.09	6.45	6.77	7.08	7.35	7.61	7.86	8.08	8.28	8.39	8.49	8.59	8.69	8.79	8.89	8.98	9.07	9.16	9.24	10.35	4.04	
310	4.45	4.78	5.14	5.52	5.91	6.3	6.66	6.99	7.31	7.6	7.87	8.12	8.35	8.56	8.67	8.77	8.88	8.98	9.08	9.18	9.28	9.37	9.46	9.55	10.69	4.17	
320	4.6	4.93	5.31	5.7	6.11	6.5	6.88	7.22	7.55	7.84	8.12	8.38	8.62	8.84	8.95	9.06	9.16	9.27	9.38	9.48	9.58	9.67	9.77	9.86	11.04	4.3	
330	4.74	5.09	5.47	5.87	6.3	6.7	7.09	7.44	7.79	8.09	8.38	8.64	8.89	9.11	9.23	9.34	9.45	9.56	9.67	9.78	9.88	9.98	10.07	10.17	11.39	4.44	
340	4.88	5.24	5.64	6.05	6.49	6.91	7.31	7.67	8.02	8.33	8.63	8.9	9.16	9.39	9.51	9.62	9.74	9.85	9.96	10.07	10.18	10.28	10.38	10.48	11.73	4.57	
350	5.03	5.4	5.8	6.23	6.68	7.11	7.52	7.9	8.26	8.58	8.88	9.17	9.43	9.66	9.79	9.91	10.02	10.14	10.26	10.37	10.48	10.58	10.69	10.79	12.08	4.71	

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	46.70	2047.20	77.90

Conductor 1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	175	RAVEN INITIAL										Eng. Use: MOT Temp (°F)
Condition Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120		194
Tension (lbs)	1,784	1,613	1,452	1,296	1,150	1,022	912	816	736	671	615	570	532	500	471	448	427	408	392	377	368	361	354	347	341		274
% Ultimate	41%	37%	33%	30%	26%	23%	21%	19%	17%	15%	14%	13%	12%	11%	11%	10%	10%	9%	9%	9%	8%	8%	8%	8%	8%		6%
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)		(Ft-In)
Ruling Span Sag	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-1"	1'-2"	1'-3"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-5"	2'-6"	2'-6"		3'-2"
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"		0'-4"
75	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"		0'-8"
100	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	0'-11"	1'-0"	1'-0"		1'-3"
120	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-4"	1'-5"	1'-5"	1'-5"		1'-9"
140	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-10"	1'-11"	1'-11"		2'-5"
160	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-1"	1'-2"	1'-3"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-5"	2'-6"	2'-6"		3'-2"
180	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-1"	1'-2"	1'-4"	1'-6"	1'-7"	1'-9"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-8"	2'-9"	2'-11"	3'-0"	3'-0"	3'-1"	3'-2"	3'-2"		4'-0"
200	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-5"	3'-7"	3'-8"	3'-9"	3'-10"	3'-10"	3'-11"		4'-11"
210	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-8"	1'-10"	2'-0"	2'-3"	2'-5"	2'-7"	2'-9"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-9"	3'-11"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"		5'-5"
220	0'-11"	1'-0"	1'-1"	1'-3"	1'-5"	1'-7"	1'-9"	2'-0"	2'-3"	2'-5"	2'-8"	2'-10"	3'-1"	3'-3"	3'-5"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"		5'-11"
230	1'-0"	1'-1"	1'-3"	1'-4"	1'-7"	1'-9"	1'-11"	2'-2"	2'-5"	2'-8"	2'-11"	3'-1"	3'-4"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-9"	4'-10"	4'-11"	5'-0"	5'-1"	5'-3"		6'-6"
240	1'-1"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-1"	2'-4"	2'-8"	2'-11"	3'-2"	3'-5"	3'-8"	3'-10"	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-2"	5'-3"	5'-4"	5'-6"	5'-7"	5'-8"		7'-1"
250	1'-2"	1'-4"	1'-5"	1'-7"	1'-10"	2'-1"	2'-4"	2'-7"	2'-10"	3'-2"	3'-5"	3'-8"	3'-11"	4'-2"	4'-6"	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	5'-10"	5'-11"	6'-1"	6'-2"		7'-8"
260	1'-3"	1'-5"	1'-7"	1'-9"	2'-0"	2'-3"	2'-6"	2'-9"	3'-1"	3'-5"	3'-8"	4'-0"	4'-3"	4'-7"	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-2"	6'-4"	6'-5"	6'-6"	6'-8"		8'-3"
270	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-5"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-4"	4'-7"	4'-11"	5'-2"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-8"	6'-9"	6'-11"	7'-1"	7'-2"		8'-11"
280	1'-6"	1'-8"	1'-10"	2'-0"	2'-3"	2'-7"	2'-11"	3'-3"	3'-7"	3'-11"	4'-3"	4'-7"	5'-0"	5'-3"	5'-7"	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-2"	7'-4"	7'-5"	7'-7"	7'-9"		9'-7"
290	1'-7"	1'-9"	1'-11"	2'-2"	2'-6"	2'-9"	3'-1"	3'-6"	3'-10"	4'-3"	4'-7"	5'-0"	5'-4"	5'-8"	6'-0"	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-8"	7'-10"	8'-0"	8'-2"	8'-3"		10'-4"
300	1'-8"	1'-11"	2'-1"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-1"	4'-6"	4'-11"	5'-4"	5'-8"	6'-1"	6'-5"	6'-9"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	8'-5"	8'-7"	8'-9"	8'-10"		11'-0"
310	1'-10"	2'-0"	2'-3"	2'-6"	2'-10"	3'-2"	3'-6"	4'-0"	4'-5"	4'-10"	5'-3"	5'-8"	6'-1"	6'-6"	6'-10"	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-9"	9'-0"	9'-2"	9'-4"	9'-6"		11'-9"
320	1'-11"	2'-2"	2'-4"	2'-8"	3'-0"	3'-4"	3'-9"	4'-3"	4'-8"	5'-2"	5'-7"	6'-0"	6'-6"	6'-11"	7'-4"	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-4"	9'-7"	9'-9"	9'-11"	10'-1"		12'-7"
330	2'-1"	2'-3"	2'-6"	2'-10"	3'-2"	3'-7"	4'-0"	4'-6"	5'-0"	5'-6"	5'-11"	6'-5"	6'-11"	7'-4"	7'-9"	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	9'-11"	10'-4"	10'-7"	10'-9"	10'-11"		13'-4"
340	2'-2"	2'-5"	2'-8"	3'-0"	3'-5"	3'-10"	4'-3"	4'-9"	5'-3"	5'-9"	6'-4"	6'-10"	7'-4"	7'-9"	8'-3"	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-7"	10'-9"	11'-0"	11'-2"	11'-5"		14'-2"
350	2'-4"	2'-7"	2'-10"	3'-2"	3'-7"	4'-0"	4'-6"	5'-0"	5'-7"	6'-2"	6'-8"	7'-3"	7'-9"	8'-3"	8'-9"	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-2"	11'-5"	11'-8"	11'-10"	12'-1"		15'-0"

1098-05	GENERAL INFORMATION															
Sheet of	ENGINEERING NOTES AND SIGNAGE															
Rev: 03/26/2026	SAG & TENSION WITH TABLES															

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	45.20	1979.10	75.30

Conductor	1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	175		RAVEN CREEP										Eng. Use: MOT Temp (°F)
Condition	Creep Sag & Tension																			Temp (°F)										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194				
Tension (lbs)	1,637	1,433	1,251	1,091	954	842	753	678	618	571	531	497	469	444	423	411	401	393	384	376	368	361	354	348	341	274				
% Ultimate	37%	33%	29%	25%	22%	19%	17%	15%	14%	13%	12%	11%	11%	10%	10%	9%	9%	9%	9%	9%	8%	8%	8%	8%	8%	6%				
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	0'-6"	0'-7"	0'-8"	0'-9"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-2"	2'-3"	2'-3"	2'-4"	2'-5"	2'-5"	2'-6"	2'-6"	3'-2"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"				
75	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-8"				
100	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	0'-11"	1'-0"	1'-0"	1'-3"				
120	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-3"	1'-4"	1'-4"	1'-4"	1'-5"	1'-5"	1'-9"				
140	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-7"	1'-8"	1'-8"	1'-9"	1'-9"	1'-9"	1'-10"	1'-10"	1'-11"	1'-11"	2'-5"				
160	0'-6"	0'-7"	0'-8"	0'-9"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-2"	2'-3"	2'-3"	2'-4"	2'-5"	2'-5"	2'-6"	2'-6"	3'-2"				
180	0'-8"	0'-9"	0'-10"	1'-0"	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-8"	2'-9"	2'-9"	2'-10"	2'-11"	3'-0"	3'-0"	3'-1"	3'-2"	3'-2"	4'-0"				
200	0'-10"	0'-11"	1'-1"	1'-3"	1'-5"	1'-7"	1'-9"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-8"	3'-9"	3'-10"	3'-10"	3'-11"	4'-11"				
210	0'-11"	1'-0"	1'-2"	1'-4"	1'-7"	1'-9"	2'-0"	2'-2"	2'-5"	2'-7"	2'-9"	3'-0"	3'-2"	3'-4"	3'-6"	3'-7"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	5'-5"				
220	1'-0"	1'-2"	1'-4"	1'-6"	1'-9"	1'-11"	2'-2"	2'-5"	2'-8"	2'-10"	3'-1"	3'-3"	3'-6"	3'-8"	3'-10"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"	5'-11"				
230	1'-1"	1'-3"	1'-5"	1'-8"	1'-10"	2'-1"	2'-4"	2'-7"	2'-11"	3'-1"	3'-4"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-5"	4'-6"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"	5'-1"	5'-3"	6'-6"				
240	1'-2"	1'-4"	1'-7"	1'-9"	2'-0"	2'-4"	2'-7"	2'-10"	3'-2"	3'-5"	3'-8"	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	4'-10"	4'-11"	5'-0"	5'-2"	5'-3"	5'-4"	5'-6"	5'-7"	5'-8"	7'-1"				
250	1'-3"	1'-6"	1'-8"	1'-11"	2'-2"	2'-6"	2'-9"	3'-1"	3'-5"	3'-8"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-1"	5'-3"	5'-4"	5'-6"	5'-7"	5'-9"	5'-10"	5'-11"	6'-1"	6'-2"	7'-8"				
260	1'-5"	1'-7"	1'-10"	2'-1"	2'-5"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-3"	4'-7"	4'-10"	5'-1"	5'-4"	5'-6"	5'-8"	5'-9"	5'-11"	6'-0"	6'-2"	6'-3"	6'-5"	6'-6"	6'-8"	8'-3"				
270	1'-6"	1'-9"	2'-0"	2'-3"	2'-7"	2'-11"	3'-3"	3'-7"	4'-0"	4'-3"	4'-7"	4'-11"	5'-3"	5'-6"	5'-9"	6'-0"	6'-1"	6'-3"	6'-5"	6'-6"	6'-8"	6'-9"	6'-11"	7'-1"	7'-2"	8'-11"				
280	1'-7"	1'-10"	2'-1"	2'-5"	2'-9"	3'-2"	3'-6"	3'-11"	4'-3"	4'-7"	5'-0"	5'-4"	5'-7"	5'-11"	6'-3"	6'-5"	6'-7"	6'-9"	6'-10"	7'-0"	7'-2"	7'-4"	7'-5"	7'-7"	7'-9"	9'-7"				
290	1'-9"	2'-0"	2'-3"	2'-7"	3'-0"	3'-4"	3'-9"	4'-2"	4'-7"	4'-11"	5'-4"	5'-8"	6'-0"	6'-4"	6'-8"	6'-11"	7'-1"	7'-2"	7'-4"	7'-6"	7'-8"	7'-10"	8'-0"	8'-2"	8'-3"	10'-4"				
300	1'-10"	2'-1"	2'-5"	2'-9"	3'-2"	3'-7"	4'-0"	4'-6"	4'-11"	5'-3"	5'-8"	6'-1"	6'-5"	6'-10"	7'-2"	7'-4"	7'-6"	7'-9"	7'-11"	8'-1"	8'-3"	8'-5"	8'-7"	8'-9"	8'-10"	11'-1"				
310	2'-0"	2'-3"	2'-7"	3'-0"	3'-5"	3'-10"	4'-3"	4'-9"	5'-3"	5'-8"	6'-1"	6'-6"	6'-11"	7'-3"	7'-8"	7'-10"	8'-1"	8'-3"	8'-5"	8'-7"	8'-9"	8'-11"	9'-2"	9'-4"	9'-6"	11'-10"				
320	2'-1"	2'-5"	2'-9"	3'-2"	3'-7"	4'-1"	4'-7"	5'-1"	5'-7"	6'-0"	6'-6"	6'-11"	7'-4"	7'-9"	8'-2"	8'-5"	8'-7"	8'-9"	9'-0"	9'-2"	9'-4"	9'-6"	9'-9"	9'-11"	10'-1"	12'-7"				
330	2'-3"	2'-7"	2'-11"	3'-4"	3'-10"	4'-4"	4'-10"	5'-5"	5'-11"	6'-5"	6'-11"	7'-4"	7'-10"	8'-3"	8'-8"	8'-11"	9'-2"	9'-4"	9'-6"	9'-9"	9'-11"	10'-2"	10'-4"	10'-6"	10'-9"	13'-4"				
340	2'-4"	2'-9"	3'-1"	3'-7"	4'-1"	4'-7"	5'-2"	5'-9"	6'-3"	6'-10"	7'-4"	7'-10"	8'-3"	8'-9"	9'-2"	9'-6"	9'-8"	9'-11"	10'-1"	10'-4"	10'-7"	10'-9"	11'-0"	11'-2"	11'-5"	14'-2"				
350	2'-6"	2'-10"	3'-3"	3'-9"	4'-4"	4'-11"	5'-6"	6'-1"	6'-8"	7'-3"	7'-9"	8'-3"	8'-9"	9'-3"	9'-9"	10'-0"	10'-3"	10'-6"	10'-9"	11'-0"	11'-2"	11'-5"	11'-8"	11'-10"	12'-1"	15'-0"				

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	45.20	1979.10	75.30

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	175	RAVEN CREEP								Eng. Use: MOT
Condition Creep Sag & Tension																		Temp (°F)								
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194
Tension (lbs)	1,637	1,433	1,251	1,091	954	842	753	678	618	571	531	497	469	444	423	411	401	393	384	376	368	361	354	348	341	274
% Ultimate	37%	33%	29%	25%	22%	19%	17%	15%	14%	13%	12%	11%	11%	10%	10%	9%	9%	9%	9%	9%	8%	8%	8%	8%	8%	6%
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec
R.S. Span																										
3-Wave Time	2.32	2.48	2.66	2.84	3.02	3.2	3.37	3.53	3.67	3.81	3.93	4.05	4.16	4.27	4.33	4.38	4.43	4.48	4.52	4.57	4.62	4.66	4.71	4.75	5.3	2.17
50	0.72	0.77	0.83	0.89	0.94	1	1.05	1.1	1.15	1.19	1.23	1.27	1.3	1.33	1.35	1.37	1.38	1.4	1.41	1.43	1.44	1.46	1.47	1.48	1.66	0.68
75	1.09	1.16	1.24	1.33	1.42	1.5	1.58	1.65	1.72	1.78	1.84	1.9	1.95	2	2.03	2.05	2.07	2.1	2.12	2.14	2.16	2.18	2.21	2.23	2.48	1.02
100	1.45	1.55	1.66	1.78	1.89	2	2.11	2.2	2.29	2.38	2.46	2.53	2.6	2.67	2.7	2.74	2.77	2.8	2.83	2.86	2.88	2.91	2.94	2.97	3.31	1.35
120	1.74	1.86	1.99	2.13	2.27	2.4	2.53	2.65	2.75	2.85	2.95	3.04	3.12	3.2	3.24	3.28	3.32	3.36	3.39	3.43	3.46	3.5	3.53	3.56	3.97	1.63
140	2.03	2.17	2.32	2.49	2.64	2.8	2.95	3.09	3.21	3.33	3.44	3.54	3.64	3.73	3.79	3.83	3.87	3.92	3.96	4	4.04	4.08	4.12	4.16	4.64	1.9
160	2.32	2.48	2.66	2.84	3.02	3.2	3.37	3.53	3.67	3.81	3.93	4.05	4.16	4.27	4.33	4.38	4.43	4.48	4.52	4.57	4.62	4.66	4.71	4.75	5.3	2.17
180	2.61	2.79	2.99	3.2	3.4	3.6	3.79	3.97	4.13	4.28	4.43	4.56	4.68	4.8	4.87	4.93	4.98	5.04	5.09	5.14	5.19	5.24	5.29	5.34	5.96	2.44
200	2.9	3.1	3.32	3.55	3.78	4	4.21	4.41	4.59	4.76	4.92	5.06	5.2	5.33	5.41	5.47	5.53	5.6	5.65	5.72	5.77	5.83	5.88	5.94	6.62	2.71
210	3.04	3.25	3.49	3.73	3.97	4.2	4.42	4.63	4.82	5	5.16	5.32	5.46	5.6	5.68	5.75	5.81	5.88	5.94	6	6.06	6.12	6.18	6.23	6.95	2.85
220	3.19	3.41	3.65	3.91	4.16	4.4	4.63	4.85	5.05	5.23	5.41	5.57	5.72	5.87	5.95	6.02	6.09	6.15	6.22	6.29	6.35	6.41	6.47	6.53	7.29	2.98
230	3.33	3.56	3.82	4.08	4.35	4.6	4.84	5.07	5.28	5.47	5.66	5.82	5.98	6.13	6.22	6.3	6.36	6.43	6.5	6.57	6.64	6.7	6.77	6.83	7.62	3.12
240	3.48	3.72	3.98	4.26	4.53	4.8	5.05	5.29	5.5	5.71	5.9	6.08	6.24	6.4	6.49	6.57	6.64	6.71	6.79	6.86	6.93	6.99	7.06	7.13	7.95	3.25
250	3.62	3.87	4.15	4.44	4.72	5	5.26	5.51	5.73	5.95	6.15	6.33	6.5	6.67	6.76	6.84	6.92	6.99	7.07	7.14	7.21	7.29	7.35	7.42	8.28	3.39
260	3.77	4.03	4.31	4.62	4.91	5.2	5.47	5.73	5.96	6.19	6.39	6.58	6.77	6.93	7.03	7.12	7.19	7.27	7.35	7.43	7.5	7.58	7.65	7.72	8.61	3.52
270	3.91	4.18	4.48	4.79	5.1	5.4	5.69	5.95	6.19	6.42	6.64	6.84	7.03	7.2	7.3	7.39	7.47	7.55	7.63	7.72	7.79	7.87	7.94	8.02	8.94	3.66
280	4.05	4.34	4.65	4.97	5.29	5.6	5.9	6.17	6.42	6.66	6.89	7.09	7.29	7.47	7.57	7.66	7.75	7.83	7.92	8	8.08	8.16	8.24	8.31	9.28	3.79
290	4.2	4.49	4.81	5.15	5.48	5.8	6.11	6.39	6.65	6.9	7.13	7.34	7.55	7.73	7.84	7.94	8.03	8.11	8.2	8.29	8.37	8.45	8.53	8.61	9.61	3.93
300	4.34	4.65	4.98	5.33	5.67	6	6.32	6.62	6.88	7.14	7.38	7.6	7.81	8	8.11	8.21	8.3	8.39	8.48	8.57	8.66	8.74	8.83	8.91	9.94	4.06
310	4.49	4.8	5.14	5.5	5.86	6.2	6.53	6.84	7.11	7.38	7.62	7.85	8.07	8.27	8.38	8.49	8.58	8.67	8.77	8.86	8.95	9.04	9.12	9.21	10.27	4.2
320	4.63	4.96	5.31	5.68	6.05	6.4	6.74	7.06	7.34	7.61	7.87	8.1	8.33	8.53	8.66	8.76	8.86	8.96	9.05	9.15	9.24	9.33	9.42	9.5	10.6	4.34
330	4.78	5.11	5.48	5.86	6.23	6.6	6.95	7.28	7.57	7.85	8.12	8.36	8.59	8.8	8.93	9.03	9.13	9.24	9.33	9.43	9.53	9.62	9.71	9.8	10.94	4.47
340	4.92	5.27	5.64	6.04	6.42	6.8	7.16	7.5	7.8	8.09	8.36	8.61	8.85	9.07	9.2	9.31	9.41	9.52	9.62	9.72	9.81	9.91	10.01	10.1	11.27	4.61
350	5.07	5.42	5.81	6.21	6.61	7	7.37	7.72	8.03	8.33	8.61	8.86	9.11	9.33	9.47	9.58	9.69	9.8	9.9	10.01	10.1	10.2	10.3	10.4	11.6	4.74

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	48.20	2110.10	80.30

Conductor 1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	190	RAVEN INITIAL										Eng. Use: MOT Temp (°F)
Condition Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120		194
Tension (lbs)	1,766	1,600	1,446	1,296	1,156	1,035	928	839	761	698	645	600	563	530	501	477	456	436	419	404	393	385	378	371	365		295
% Ultimate	40%	37%	33%	30%	26%	24%	21%	19%	17%	16%	15%	14%	13%	12%	11%	11%	10%	10%	10%	9%	9%	9%	9%	8%	8%		7%
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)		(Ft-In)
Ruling Span Sag	0'-8"	0'-9"	0'-10"	0'-11"	1'-1"	1'-2"	1'-4"	1'-5"	1'-7"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-1"	3'-2"	3'-3"	3'-3"	3'-4"		4'-1"
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"		0'-3"
75	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"		0'-8"
100	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	0'-11"		1'-2"
120	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-4"	1'-4"		1'-8"
140	0'-4"	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-8"	1'-9"	1'-9"	1'-9"	1'-10"		2'-3"
160	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-2"	2'-3"	2'-3"	2'-4"	2'-4"		2'-11"
180	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-1"	1'-2"	1'-4"	1'-5"	1'-7"	1'-8"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-8"	2'-9"	2'-10"	2'-11"	2'-11"	3'-0"		3'-8"
200	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-4"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-6"	2'-8"	2'-10"	2'-11"	3'-1"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-7"	3'-8"		4'-7"
210	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-4"	2'-6"	2'-8"	2'-9"	3'-0"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"	4'-1"		5'-0"
220	0'-11"	1'-0"	1'-1"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-2"	2'-4"	2'-6"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-0"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"		5'-6"
230	1'-0"	1'-1"	1'-3"	1'-4"	1'-6"	1'-9"	1'-11"	2'-1"	2'-4"	2'-7"	2'-9"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"	4'-10"		6'-0"
240	1'-1"	1'-3"	1'-4"	1'-6"	1'-8"	1'-10"	2'-1"	2'-4"	2'-6"	2'-9"	3'-0"	3'-3"	3'-5"	3'-8"	3'-10"	4'-1"	4'-3"	4'-5"	4'-7"	4'-10"	4'-11"	5'-0"	5'-1"	5'-3"	5'-4"		6'-7"
250	1'-2"	1'-4"	1'-5"	1'-7"	1'-10"	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-2"	4'-5"	4'-7"	4'-10"	5'-0"	5'-3"	5'-4"	5'-5"	5'-7"	5'-8"	5'-9"		7'-1"
260	1'-3"	1'-5"	1'-7"	1'-9"	2'-0"	2'-2"	2'-5"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-9"	5'-11"	6'-0"	6'-1"	6'-3"		7'-8"
270	1'-5"	1'-6"	1'-8"	1'-11"	2'-1"	2'-4"	2'-8"	2'-11"	3'-3"	3'-6"	3'-10"	4'-1"	4'-4"	4'-7"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-1"	6'-3"	6'-4"	6'-6"	6'-7"	6'-9"		8'-4"
280	1'-6"	1'-8"	1'-10"	2'-0"	2'-3"	2'-7"	2'-10"	3'-2"	3'-6"	3'-9"	4'-1"	4'-5"	4'-8"	5'-0"	5'-3"	5'-6"	5'-9"	6'-1"	6'-3"	6'-6"	6'-9"	6'-10"	7'-0"	7'-1"	7'-3"		8'-11"
290	1'-7"	1'-9"	1'-11"	2'-2"	2'-5"	2'-9"	3'-1"	3'-4"	3'-9"	4'-1"	4'-5"	4'-9"	5'-0"	5'-4"	5'-8"	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-2"	7'-4"	7'-6"	7'-7"	7'-9"		9'-7"
300	1'-9"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"	3'-3"	3'-7"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	6'-0"	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-9"	7'-10"	8'-0"	8'-2"	8'-3"		10'-3"
310	1'-10"	2'-0"	2'-3"	2'-6"	2'-9"	3'-1"	3'-6"	3'-10"	4'-3"	4'-8"	5'-0"	5'-5"	5'-9"	6'-1"	6'-5"	6'-9"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	8'-5"	8'-7"	8'-8"	8'-10"		11'-0"
320	1'-11"	2'-2"	2'-5"	2'-8"	3'-0"	3'-4"	3'-9"	4'-1"	4'-6"	4'-11"	5'-4"	5'-9"	6'-1"	6'-6"	6'-10"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-9"	8'-11"	9'-1"	9'-3"	9'-5"		11'-8"
330	2'-1"	2'-3"	2'-6"	2'-10"	3'-2"	3'-6"	3'-11"	4'-4"	4'-10"	5'-3"	5'-8"	6'-1"	6'-6"	6'-11"	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-4"	9'-6"	9'-8"	9'-10"	10'-0"		12'-5"
340	2'-2"	2'-5"	2'-8"	3'-0"	3'-4"	3'-9"	4'-2"	4'-8"	5'-1"	5'-7"	6'-0"	6'-6"	6'-11"	7'-4"	7'-9"	8'-2"	8'-6"	8'-11"	9'-3"	9'-8"	9'-11"	10'-1"	10'-3"	10'-6"	10'-8"		13'-2"
350	2'-4"	2'-7"	2'-10"	3'-2"	3'-7"	4'-0"	4'-5"	4'-11"	5'-5"	5'-11"	6'-5"	6'-10"	7'-4"	7'-9"	8'-3"	8'-8"	9'-0"	9'-5"	9'-10"	10'-3"	10'-6"	10'-8"	10'-11"	11'-1"	11'-3"		14'-0"

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	48.20	2110.10	80.30

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	190		RAVEN INITIAL								Eng. Use: MOT Temp (°F)
Condition Initial Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194		
Tension (lbs)	1,766	1,600	1,446	1,296	1,156	1,035	928	839	761	698	645	600	563	530	501	477	456	436	419	404	393	385	378	371	365	295		
% Ultimate	40%	37%	33%	30%	26%	24%	21%	19%	17%	16%	15%	14%	13%	12%	11%	11%	10%	10%	10%	9%	9%	9%	9%	8%	8%	7%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	2.6	2.74	2.89	3.06	3.24	3.42	3.6	3.77	3.94	4.1	4.25	4.39	4.52	4.65	4.77	4.88	4.99	5.09	5.19	5.26	5.31	5.36	5.41	5.45	6.06	2.48		
50	0.69	0.72	0.76	0.81	0.85	0.9	0.95	0.99	1.04	1.08	1.12	1.16	1.19	1.22	1.25	1.28	1.31	1.34	1.36	1.38	1.4	1.41	1.42	1.43	1.6	0.65		
75	1.03	1.08	1.14	1.21	1.28	1.35	1.42	1.49	1.56	1.62	1.68	1.73	1.79	1.84	1.88	1.93	1.97	2.01	2.05	2.07	2.09	2.11	2.13	2.15	2.39	0.98		
100	1.37	1.44	1.52	1.61	1.7	1.8	1.89	1.99	2.07	2.16	2.24	2.31	2.38	2.45	2.51	2.57	2.63	2.68	2.73	2.77	2.79	2.82	2.84	2.87	3.19	1.3		
120	1.64	1.73	1.83	1.93	2.05	2.16	2.27	2.38	2.49	2.59	2.68	2.77	2.86	2.94	3.01	3.08	3.15	3.21	3.27	3.32	3.35	3.38	3.41	3.44	3.83	1.57		
140	1.92	2.02	2.13	2.26	2.39	2.52	2.65	2.78	2.91	3.02	3.13	3.23	3.33	3.43	3.51	3.6	3.68	3.75	3.82	3.87	3.91	3.95	3.98	4.02	4.47	1.83		
160	2.19	2.31	2.44	2.58	2.73	2.88	3.03	3.18	3.32	3.45	3.58	3.7	3.81	3.92	4.02	4.11	4.2	4.28	4.37	4.43	4.47	4.51	4.55	4.59	5.11	2.09		
180	2.47	2.6	2.74	2.9	3.07	3.24	3.41	3.58	3.74	3.88	4.03	4.16	4.29	4.41	4.52	4.62	4.73	4.82	4.91	4.98	5.03	5.08	5.12	5.17	5.74	2.35		
200	2.74	2.88	3.05	3.22	3.41	3.6	3.79	3.97	4.15	4.32	4.48	4.62	4.76	4.9	5.02	5.14	5.25	5.36	5.46	5.53	5.59	5.64	5.69	5.74	6.38	2.61		
210	2.88	3.03	3.2	3.39	3.58	3.78	3.98	4.17	4.36	4.53	4.7	4.85	5	5.14	5.27	5.39	5.51	5.62	5.73	5.81	5.87	5.92	5.98	6.03	6.7	2.74		
220	3.01	3.17	3.35	3.55	3.75	3.96	4.17	4.37	4.57	4.75	4.92	5.08	5.24	5.39	5.52	5.65	5.78	5.89	6	6.09	6.14	6.2	6.26	6.31	7.02	2.87		
230	3.15	3.32	3.5	3.71	3.92	4.14	4.35	4.57	4.77	4.96	5.15	5.31	5.48	5.63	5.77	5.91	6.04	6.16	6.28	6.36	6.42	6.49	6.54	6.6	7.34	3		
240	3.29	3.46	3.66	3.87	4.09	4.32	4.54	4.77	4.98	5.18	5.37	5.55	5.71	5.88	6.02	6.16	6.3	6.43	6.55	6.64	6.7	6.77	6.83	6.89	7.66	3.13		
250	3.43	3.6	3.81	4.03	4.26	4.5	4.73	4.97	5.19	5.4	5.59	5.78	5.95	6.12	6.28	6.42	6.57	6.69	6.82	6.92	6.98	7.05	7.11	7.18	7.98	3.26		
260	3.56	3.75	3.96	4.19	4.43	4.68	4.92	5.17	5.4	5.61	5.82	6.01	6.19	6.37	6.53	6.68	6.83	6.96	7.1	7.19	7.26	7.33	7.4	7.46	8.3	3.39		
270	3.7	3.89	4.11	4.35	4.6	4.86	5.11	5.36	5.6	5.83	6.04	6.24	6.43	6.61	6.78	6.93	7.09	7.23	7.37	7.47	7.54	7.62	7.68	7.75	8.62	3.52		
280	3.84	4.04	4.26	4.51	4.77	5.04	5.3	5.56	5.81	6.04	6.27	6.47	6.67	6.86	7.03	7.19	7.35	7.5	7.64	7.75	7.82	7.9	7.97	8.04	8.94	3.65		
290	3.97	4.18	4.42	4.68	4.94	5.22	5.49	5.76	6.02	6.26	6.49	6.7	6.91	7.1	7.28	7.45	7.62	7.77	7.92	8.03	8.1	8.18	8.25	8.33	9.26	3.78		
300	4.11	4.33	4.57	4.84	5.11	5.4	5.68	5.96	6.23	6.47	6.71	6.93	7.14	7.35	7.53	7.71	7.88	8.03	8.19	8.3	8.38	8.46	8.54	8.61	9.58	3.91		
310	4.25	4.47	4.72	5	5.28	5.58	5.87	6.16	6.43	6.69	6.94	7.16	7.38	7.59	7.78	7.96	8.14	8.3	8.46	8.58	8.66	8.74	8.82	8.9	9.9	4.04		
320	4.39	4.61	4.87	5.16	5.45	5.76	6.06	6.36	6.64	6.91	7.16	7.39	7.62	7.84	8.03	8.22	8.4	8.57	8.74	8.86	8.94	9.03	9.11	9.19	10.22	4.18		
330	4.52	4.76	5.03	5.32	5.62	5.94	6.25	6.56	6.85	7.12	7.38	7.63	7.86	8.08	8.29	8.48	8.67	8.84	9.01	9.13	9.22	9.31	9.39	9.48	10.54	4.31		
340	4.66	4.9	5.18	5.48	5.79	6.12	6.44	6.76	7.06	7.34	7.61	7.86	8.1	8.33	8.54	8.73	8.93	9.11	9.28	9.41	9.5	9.59	9.68	9.76	10.86	4.44		
350	4.8	5.05	5.33	5.64	5.97	6.3	6.63	6.95	7.26	7.55	7.83	8.09	8.33	8.57	8.79	8.99	9.19	9.37	9.56	9.69	9.78	9.87	9.96	10.05	11.18	4.57		

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	46.70	2043.80	77.80

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	190		RAVEN CREEP										Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																														
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194				
Tension (lbs)	1,606	1,417	1,242	1,090	967	859	773	704	646	600	560	526	498	472	451	436	427	417	409	400	393	385	378	371	365	295				
% Ultimate	37%	32%	28%	25%	22%	20%	18%	16%	15%	14%	13%	12%	11%	11%	10%	10%	10%	10%	9%	9%	9%	9%	9%	8%	8%	7%				
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	0'-9"	0'-10"	1'-0"	1'-1"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-0"	2'-2"	2'-4"	2'-5"	2'-7"	2'-8"	2'-9"	2'-10"	2'-11"	3'-0"	3'-0"	3'-1"	3'-2"	3'-3"	3'-3"	3'-4"	4'-1"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"				
75	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-8"				
100	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	1'-2"				
120	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-1"	1'-1"	1'-2"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-3"	1'-4"	1'-4"	1'-8"				
140	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-6"	1'-7"	1'-7"	1'-8"	1'-8"	1'-9"	1'-9"	1'-9"	1'-10"	2'-3"				
160	0'-6"	0'-7"	0'-8"	0'-9"	0'-11"	1'-0"	1'-1"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-0"	2'-1"	2'-1"	2'-2"	2'-2"	2'-3"	2'-3"	2'-4"	2'-4"	2'-11"				
180	0'-8"	0'-9"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-7"	1'-8"	1'-10"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-7"	2'-7"	2'-8"	2'-9"	2'-9"	2'-10"	2'-11"	2'-11"	3'-0"	3'-8"				
200	0'-10"	0'-11"	1'-1"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-1"	3'-2"	3'-3"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-7"	3'-8"	4'-7"				
210	0'-11"	1'-1"	1'-2"	1'-4"	1'-6"	1'-9"	1'-11"	2'-1"	2'-3"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-3"	3'-5"	3'-6"	3'-7"	3'-8"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"	4'-1"	5'-0"				
220	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-1"	2'-4"	2'-6"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-10"	3'-11"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	5'-6"				
230	1'-1"	1'-3"	1'-5"	1'-8"	1'-10"	2'-1"	2'-4"	2'-6"	2'-9"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"	4'-11"	6'-0"				
240	1'-2"	1'-4"	1'-7"	1'-9"	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	3'-3"	3'-6"	3'-8"	3'-11"	4'-1"	4'-3"	4'-5"	4'-6"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"	5'-1"	5'-3"	5'-4"	6'-7"				
250	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-5"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-5"	4'-8"	4'-10"	4'-11"	5'-0"	5'-2"	5'-3"	5'-4"	5'-5"	5'-7"	5'-8"	5'-9"	7'-1"				
260	1'-5"	1'-7"	1'-10"	2'-1"	2'-4"	2'-8"	2'-11"	3'-3"	3'-6"	3'-9"	4'-1"	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-4"	5'-5"	5'-7"	5'-8"	5'-9"	5'-11"	6'-0"	6'-1"	6'-3"	7'-9"				
270	1'-6"	1'-9"	2'-0"	2'-3"	2'-6"	2'-10"	3'-2"	3'-6"	3'-9"	4'-1"	4'-4"	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-9"	5'-10"	6'-0"	6'-1"	6'-3"	6'-4"	6'-6"	6'-7"	6'-9"	8'-4"				
280	1'-8"	1'-10"	2'-1"	2'-5"	2'-9"	3'-1"	3'-5"	3'-9"	4'-1"	4'-5"	4'-8"	5'-0"	5'-3"	5'-7"	5'-10"	6'-1"	6'-2"	6'-4"	6'-5"	6'-7"	6'-9"	6'-10"	7'-0"	7'-1"	7'-3"	8'-11"				
290	1'-9"	2'-0"	2'-3"	2'-7"	2'-11"	3'-3"	3'-8"	4'-0"	4'-4"	4'-9"	5'-1"	5'-4"	5'-8"	6'-0"	6'-3"	6'-6"	6'-8"	6'-9"	6'-11"	7'-1"	7'-2"	7'-4"	7'-6"	7'-7"	7'-9"	9'-7"				
300	1'-11"	2'-2"	2'-5"	2'-9"	3'-2"	3'-6"	3'-11"	4'-3"	4'-8"	5'-1"	5'-5"	5'-9"	6'-1"	6'-5"	6'-9"	6'-11"	7'-1"	7'-3"	7'-5"	7'-7"	7'-9"	7'-10"	8'-0"	8'-2"	8'-4"	10'-3"				
310	2'-0"	2'-3"	2'-7"	3'-0"	3'-4"	3'-9"	4'-2"	4'-7"	5'-0"	5'-5"	5'-9"	6'-2"	6'-6"	6'-10"	7'-2"	7'-5"	7'-7"	7'-9"	7'-11"	8'-1"	8'-3"	8'-5"	8'-7"	8'-8"	8'-10"	11'-0"				
320	2'-2"	2'-5"	2'-9"	3'-2"	3'-7"	4'-0"	4'-5"	4'-11"	5'-4"	5'-9"	6'-2"	6'-6"	6'-11"	7'-3"	7'-8"	7'-11"	8'-1"	8'-3"	8'-5"	8'-7"	8'-9"	8'-11"	9'-1"	9'-3"	9'-5"	11'-8"				
330	2'-3"	2'-7"	2'-11"	3'-4"	3'-9"	4'-3"	4'-9"	5'-2"	5'-8"	6'-1"	6'-6"	7'-0"	7'-4"	7'-9"	8'-1"	8'-5"	8'-7"	8'-9"	9'-0"	9'-2"	9'-4"	9'-6"	9'-8"	9'-10"	10'-0"	12'-5"				
340	2'-5"	2'-9"	3'-2"	3'-7"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	6'-11"	7'-5"	7'-10"	8'-3"	8'-7"	8'-11"	9'-1"	9'-4"	9'-6"	9'-9"	9'-11"	10'-1"	10'-3"	10'-6"	10'-8"	13'-2"				
350	2'-7"	2'-11"	3'-4"	3'-9"	4'-3"	4'-9"	5'-4"	5'-10"	6'-4"	6'-10"	7'-4"	7'-10"	8'-3"	8'-9"	9'-2"	9'-6"	9'-8"	9'-10"	10'-1"	10'-3"	10'-6"	10'-8"	10'-11"	11'-1"	11'-4"	14'-0"				

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	49.60	2173.00	82.70

Conductor 1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	205	RAVEN INITIAL										Eng. Use: MOT Temp (°F)
Condition Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120		194
Tension (lbs)	1,747	1,588	1,433	1,289	1,163	1,047	946	861	787	725	672	629	591	558	530	505	483	464	446	430	416	409	401	394	388		316
% Ultimate	40%	36%	33%	29%	27%	24%	22%	20%	18%	17%	15%	14%	13%	13%	12%	12%	11%	11%	10%	10%	9%	9%	9%	9%	9%		7%
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)		(Ft-In)
Ruling Span Sag	0'-10"	0'-11"	1'-0"	1'-1"	1'-3"	1'-4"	1'-6"	1'-8"	1'-10"	1'-11"	2'-1"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-3"	3'-5"	3'-6"	3'-6"	3'-7"	3'-8"		4'-6"
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"		0'-3"
75	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"		0'-7"
100	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-10"	0'-10"	0'-10"		1'-1"
120	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"		1'-6"
140	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-7"	1'-8"	1'-8"	1'-8"		2'-1"
160	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-1"	2'-2"	2'-2"	2'-3"		2'-9"
180	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-7"	2'-8"	2'-9"	2'-9"	2'-10"		3'-5"
200	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-10"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-1"	3'-3"	3'-3"	3'-4"	3'-5"	3'-6"		4'-3"
210	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-5"	3'-7"	3'-8"	3'-8"	3'-9"	3'-10"		4'-8"
220	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-4"	3'-6"	3'-8"	3'-9"	3'-11"	4'-0"	4'-1"	4'-2"	4'-2"		5'-2"
230	1'-0"	1'-1"	1'-3"	1'-5"	1'-6"	1'-8"	1'-11"	2'-1"	2'-3"	2'-5"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"		5'-8"
240	1'-1"	1'-3"	1'-4"	1'-6"	1'-8"	1'-10"	2'-1"	2'-3"	2'-6"	2'-8"	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"		6'-2"
250	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-3"	2'-5"	2'-8"	2'-11"	3'-1"	3'-4"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-2"	5'-3"	5'-4"	5'-5"		6'-8"
260	1'-4"	1'-5"	1'-7"	1'-9"	1'-11"	2'-2"	2'-5"	2'-8"	2'-11"	3'-2"	3'-5"	3'-7"	3'-10"	4'-1"	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	5'-6"	5'-7"	5'-8"	5'-9"	5'-10"		7'-2"
270	1'-5"	1'-6"	1'-9"	1'-11"	2'-1"	2'-4"	2'-7"	2'-10"	3'-1"	3'-5"	3'-8"	3'-11"	4'-2"	4'-5"	4'-7"	4'-10"	5'-1"	5'-3"	5'-6"	5'-8"	5'-11"	6'-0"	6'-1"	6'-3"	6'-4"		7'-9"
280	1'-6"	1'-8"	1'-10"	2'-0"	2'-3"	2'-6"	2'-9"	3'-1"	3'-4"	3'-8"	3'-11"	4'-2"	4'-6"	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-5"	6'-7"	6'-8"	6'-10"		8'-4"
290	1'-7"	1'-9"	2'-0"	2'-2"	2'-5"	2'-8"	3'-0"	3'-3"	3'-7"	3'-11"	4'-2"	4'-6"	4'-9"	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	6'-11"	7'-1"	7'-2"	7'-3"		9'-0"
300	1'-9"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"	3'-2"	3'-6"	3'-10"	4'-2"	4'-6"	4'-10"	5'-1"	5'-5"	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	7'-5"	7'-6"	7'-8"	7'-10"		9'-7"
310	1'-10"	2'-0"	2'-3"	2'-6"	2'-9"	3'-1"	3'-5"	3'-9"	4'-1"	4'-5"	4'-10"	5'-2"	5'-6"	5'-9"	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	7'-11"	8'-1"	8'-2"	8'-4"		10'-3"
320	2'-0"	2'-2"	2'-5"	2'-8"	3'-0"	3'-3"	3'-8"	4'-0"	4'-4"	4'-9"	5'-1"	5'-6"	5'-10"	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	8'-5"	8'-7"	8'-9"	8'-11"		10'-11"
330	2'-1"	2'-4"	2'-7"	2'-10"	3'-2"	3'-6"	3'-10"	4'-3"	4'-8"	5'-1"	5'-5"	5'-10"	6'-2"	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	9'-0"	9'-3"	9'-5"	9'-7"		11'-7"
340	2'-3"	2'-5"	2'-9"	3'-0"	3'-4"	3'-9"	4'-1"	4'-6"	4'-11"	5'-4"	5'-9"	6'-2"	6'-7"	7'-0"	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-0"	9'-4"	9'-6"	9'-8"	9'-10"	10'-0"		12'-4"
350	2'-4"	2'-7"	2'-10"	3'-2"	3'-6"	3'-11"	4'-4"	4'-9"	5'-3"	5'-8"	6'-1"	6'-7"	7'-0"	7'-4"	7'-9"	8'-2"	8'-6"	8'-11"	9'-3"	9'-7"	9'-11"	10'-1"	10'-3"	10'-5"	10'-7"		13'-1"

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	49.60	2173.00	82.70

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	205	RAVEN INITIAL												Eng. Use: MOT Temp (°F)
Condition		Initial Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194				
Tension (lbs)	1,747	1,588	1,433	1,289	1,163	1,047	946	861	787	725	672	629	591	558	530	505	483	464	446	430	416	409	401	394	388	316				
% Ultimate	40%	36%	33%	29%	27%	24%	22%	20%	18%	17%	15%	14%	13%	13%	12%	12%	11%	11%	10%	10%	9%	9%	9%	9%	9%	7%				
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec				
R.S. Span 3-Wave Time	2.82	2.97	3.13	3.3	3.47	3.65	3.83	4.01	4.17	4.33	4.48	4.62	4.76	4.88	5	5.11	5.22	5.32	5.42	5.51	5.56	5.61	5.66	5.71	6.33	2.69				
50	0.69	0.72	0.76	0.8	0.85	0.89	0.93	0.98	1.02	1.06	1.09	1.13	1.16	1.19	1.22	1.25	1.27	1.3	1.32	1.34	1.36	1.37	1.38	1.39	1.54	0.66				
75	1.03	1.09	1.15	1.21	1.27	1.34	1.4	1.47	1.53	1.59	1.64	1.69	1.74	1.79	1.83	1.87	1.91	1.95	1.98	2.02	2.03	2.05	2.07	2.09	2.31	0.98				
100	1.38	1.45	1.53	1.61	1.69	1.78	1.87	1.95	2.04	2.11	2.19	2.25	2.32	2.38	2.44	2.49	2.55	2.6	2.64	2.69	2.71	2.74	2.76	2.78	3.09	1.31				
120	1.65	1.74	1.83	1.93	2.03	2.14	2.24	2.35	2.44	2.54	2.62	2.71	2.78	2.86	2.93	2.99	3.06	3.11	3.17	3.23	3.25	3.28	3.31	3.34	3.7	1.57				
140	1.93	2.03	2.14	2.25	2.37	2.49	2.62	2.74	2.85	2.96	3.06	3.16	3.25	3.33	3.41	3.49	3.56	3.63	3.7	3.76	3.8	3.83	3.87	3.9	4.32	1.84				
160	2.2	2.32	2.44	2.57	2.71	2.85	2.99	3.13	3.26	3.38	3.5	3.61	3.71	3.81	3.9	3.99	4.07	4.15	4.23	4.3	4.34	4.38	4.42	4.45	4.94	2.1				
180	2.48	2.61	2.75	2.89	3.05	3.21	3.36	3.52	3.66	3.81	3.93	4.06	4.18	4.28	4.39	4.49	4.58	4.67	4.76	4.84	4.88	4.93	4.97	5.01	5.56	2.36				
200	2.75	2.9	3.05	3.22	3.39	3.56	3.74	3.91	4.07	4.23	4.37	4.51	4.64	4.76	4.88	4.99	5.09	5.19	5.29	5.38	5.42	5.47	5.52	5.57	6.17	2.62				
210	2.89	3.04	3.21	3.38	3.56	3.74	3.92	4.1	4.28	4.44	4.59	4.74	4.87	5	5.12	5.24	5.35	5.45	5.55	5.65	5.7	5.75	5.8	5.85	6.48	2.75				
220	3.03	3.19	3.36	3.54	3.73	3.92	4.11	4.3	4.48	4.65	4.81	4.96	5.1	5.24	5.37	5.49	5.6	5.71	5.82	5.91	5.97	6.02	6.07	6.12	6.79	2.89				
230	3.16	3.33	3.51	3.7	3.9	4.1	4.3	4.5	4.68	4.86	5.03	5.19	5.34	5.48	5.61	5.74	5.86	5.97	6.08	6.18	6.24	6.3	6.35	6.4	7.1	3.02				
240	3.3	3.48	3.66	3.86	4.07	4.28	4.49	4.69	4.89	5.07	5.25	5.41	5.57	5.71	5.85	5.99	6.11	6.23	6.34	6.45	6.51	6.57	6.63	6.68	7.41	3.15				
250	3.44	3.62	3.82	4.02	4.24	4.46	4.67	4.89	5.09	5.29	5.46	5.64	5.8	5.95	6.1	6.23	6.37	6.49	6.61	6.72	6.78	6.84	6.9	6.96	7.72	3.28				
260	3.58	3.76	3.97	4.18	4.4	4.63	4.86	5.08	5.29	5.5	5.68	5.86	6.03	6.19	6.34	6.48	6.62	6.75	6.87	6.99	7.05	7.12	7.18	7.24	8.03	3.41				
270	3.71	3.91	4.12	4.34	4.57	4.81	5.05	5.28	5.5	5.71	5.9	6.09	6.26	6.43	6.59	6.73	6.88	7.01	7.14	7.26	7.32	7.39	7.46	7.52	8.34	3.54				
280	3.85	4.05	4.27	4.5	4.74	4.99	5.23	5.47	5.7	5.92	6.12	6.31	6.5	6.67	6.83	6.98	7.13	7.27	7.4	7.53	7.6	7.66	7.73	7.8	8.65	3.67				
290	3.99	4.2	4.43	4.66	4.91	5.17	5.42	5.67	5.9	6.13	6.34	6.54	6.73	6.9	7.07	7.23	7.39	7.53	7.67	7.8	7.87	7.94	8.01	8.07	8.95	3.8				
300	4.13	4.34	4.58	4.82	5.08	5.35	5.61	5.86	6.11	6.34	6.56	6.77	6.96	7.14	7.32	7.48	7.64	7.79	7.93	8.07	8.14	8.21	8.29	8.35	9.26	3.93				
310	4.26	4.49	4.73	4.98	5.25	5.52	5.79	6.06	6.31	6.55	6.78	6.99	7.19	7.38	7.56	7.73	7.89	8.05	8.2	8.34	8.41	8.49	8.56	8.63	9.57	4.07				
320	4.4	4.63	4.89	5.15	5.42	5.7	5.98	6.26	6.52	6.77	7	7.22	7.42	7.62	7.81	7.98	8.15	8.31	8.46	8.6	8.68	8.76	8.84	8.91	9.88	4.2				
330	4.54	4.78	5.04	5.31	5.59	5.88	6.17	6.45	6.72	6.98	7.21	7.44	7.66	7.86	8.05	8.23	8.4	8.57	8.73	8.87	8.95	9.03	9.11	9.19	10.19	4.33				
340	4.68	4.92	5.19	5.47	5.76	6.06	6.35	6.65	6.92	7.19	7.43	7.67	7.89	8.1	8.29	8.48	8.66	8.83	8.99	9.14	9.22	9.31	9.39	9.47	10.5	4.46				
350	4.81	5.07	5.34	5.63	5.93	6.24	6.54	6.84	7.13	7.4	7.65	7.89	8.12	8.33	8.54	8.73	8.91	9.09	9.25	9.41	9.5	9.58	9.67	9.75	10.81	4.59				

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	SAG & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	48.20	2109.50	80.30

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)	0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	205	RAVEN CREEP												Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																													
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194			
Tension (lbs)	1,576	1,394	1,234	1,093	974	877	795	728	672	627	587	553	525	499	477	460	450	441	433	424	416	409	401	394	388	315			
% Ultimate	36%	32%	28%	25%	22%	20%	18%	17%	15%	14%	13%	13%	12%	11%	11%	11%	10%	10%	10%	10%	9%	9%	9%	9%	9%	7%			
Span (ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)	(ft-In)			
Ruling Span Sag	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-1"	3'-2"	3'-2"	3'-3"	3'-4"	3'-5"	3'-6"	3'-6"	3'-7"	3'-8"	4'-6"			
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"			
75	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"			
100	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-10"	0'-10"	1'-1"			
120	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-1"	1'-1"	1'-2"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"			
140	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-5"	1'-6"	1'-6"	1'-6"	1'-7"	1'-7"	1'-7"	1'-8"	1'-8"	1'-8"			
160	0'-7"	0'-7"	0'-8"	0'-9"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-10"	1'-11"	1'-11"	2'-0"	2'-0"	2'-1"	2'-1"	2'-2"	2'-2"	2'-3"	2'-9"			
180	0'-8"	0'-9"	0'-11"	1'-0"	1'-1"	1'-3"	1'-4"	1'-6"	1'-7"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-6"	2'-7"	2'-7"	2'-8"	2'-9"	2'-9"	2'-10"	3'-5"			
200	0'-10"	1'-0"	1'-1"	1'-3"	1'-5"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-8"	2'-10"	2'-11"	3'-0"	3'-1"	3'-1"	3'-2"	3'-3"	3'-3"	3'-4"	3'-5"	3'-6"	4'-3"			
210	0'-11"	1'-1"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-1"	3'-3"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-8"	3'-8"	3'-9"	3'-10"	4'-8"			
220	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-6"	3'-7"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"	4'-1"	4'-2"	4'-2"	5'-2"			
230	1'-2"	1'-3"	1'-5"	1'-8"	1'-10"	2'-0"	2'-3"	2'-5"	2'-8"	2'-10"	3'-0"	3'-3"	3'-5"	3'-7"	3'-9"	3'-10"	3'-11"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	5'-8"			
240	1'-3"	1'-5"	1'-7"	1'-9"	2'-0"	2'-3"	2'-5"	2'-8"	2'-11"	3'-1"	3'-4"	3'-6"	3'-8"	3'-11"	4'-1"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"	6'-2"			
250	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-5"	2'-8"	2'-11"	3'-2"	3'-4"	3'-7"	3'-10"	4'-0"	4'-3"	4'-5"	4'-7"	4'-8"	4'-9"	4'-10"	5'-0"	5'-1"	5'-2"	5'-3"	5'-4"	5'-5"	6'-8"			
260</																													

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	48.20	2109.50	80.30

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	205		RAVEN CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194		
Tension (lbs)	1,576	1,394	1,234	1,093	974	877	795	728	672	627	587	553	525	499	477	460	450	441	433	424	416	409	401	394	388	315		
% Ultimate	36%	32%	28%	25%	22%	20%	18%	17%	15%	14%	13%	13%	12%	11%	11%	11%	10%	10%	10%	10%	9%	9%	9%	9%	9%	7%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	3.01	3.2	3.4	3.6	3.79	3.99	4.17	4.34	4.49	4.64	4.78	4.9	5.03	5.14	5.24	5.3	5.35	5.4	5.46	5.51	5.56	5.61	5.66	5.71	6.33	2.83		
50	0.73	0.78	0.83	0.88	0.93	0.97	1.02	1.06	1.09	1.13	1.17	1.2	1.23	1.25	1.28	1.29	1.3	1.32	1.33	1.34	1.36	1.37	1.38	1.39	1.54	0.69		
75	1.1	1.17	1.24	1.32	1.39	1.46	1.52	1.59	1.64	1.7	1.75	1.79	1.84	1.88	1.92	1.94	1.96	1.98	2	2.02	2.03	2.05	2.07	2.09	2.32	1.04		
100	1.47	1.56	1.66	1.76	1.85	1.94	2.03	2.12	2.19	2.26	2.33	2.39	2.45	2.51	2.56	2.58	2.61	2.64	2.66	2.69	2.71	2.74	2.76	2.78	3.09	1.38		
120	1.76	1.87	1.99	2.11	2.22	2.33	2.44	2.54	2.63	2.71	2.8	2.87	2.94	3.01	3.07	3.1	3.13	3.16	3.2	3.23	3.25	3.28	3.31	3.34	3.71	1.66		
140	2.06	2.18	2.32	2.46	2.59	2.72	2.84	2.96	3.07	3.17	3.26	3.35	3.43	3.51	3.58	3.62	3.65	3.69	3.73	3.76	3.8	3.83	3.87	3.9	4.32	1.93		
160	2.35	2.5	2.65	2.81	2.96	3.11	3.25	3.38	3.5	3.62	3.73	3.83	3.93	4.01	4.09	4.13	4.18	4.22	4.26	4.3	4.34	4.38	4.42	4.45	4.94	2.21		
180	2.64	2.81	2.98	3.16	3.33	3.5	3.66	3.81	3.94	4.07	4.19	4.31	4.42	4.52	4.6	4.65	4.7	4.74	4.79	4.84	4.88	4.93	4.97	5.01	5.56	2.49		
200	2.94	3.12	3.32	3.51	3.7	3.89	4.06	4.23	4.38	4.52	4.66	4.79	4.91	5.02	5.11	5.17	5.22	5.27	5.33	5.38	5.42	5.47	5.52	5.57	6.18	2.76		
210	3.08	3.28	3.48	3.69	3.89	4.08	4.27	4.44	4.6	4.75	4.89	5.02	5.15	5.27	5.37	5.43	5.48	5.54	5.59	5.65	5.7	5.75	5.8	5.85	6.49	2.9		
220	3.23	3.43	3.65	3.86	4.07	4.28	4.47	4.65	4.82	4.98	5.13	5.26	5.4	5.52	5.62	5.68	5.74	5.8	5.86	5.91	5.97	6.02	6.07	6.13	6.79	3.04		
230	3.38	3.59	3.81	4.04	4.26	4.47	4.67	4.87	5.04	5.2	5.36	5.5	5.64	5.77	5.88	5.94	6	6.06	6.12	6.18	6.24	6.3	6.35	6.4	7.1	3.18		
240	3.52	3.75	3.98	4.22	4.44	4.67	4.88	5.08	5.26	5.43	5.59	5.74	5.89	6.02	6.13	6.2	6.27	6.33	6.39	6.45	6.51	6.57	6.63	6.68	7.41	3.31		
250	3.67	3.9	4.15	4.39	4.63	4.86	5.08	5.29	5.48	5.66	5.83	5.98	6.13	6.27	6.39	6.46	6.53	6.59	6.66	6.72	6.78	6.84	6.9	6.96	7.72	3.45		
260	3.82	4.06	4.31	4.57	4.81	5.06	5.28	5.5	5.69	5.88	6.06	6.22	6.38	6.52	6.65	6.72	6.79	6.85	6.92	6.99	7.05	7.12	7.18	7.24	8.03	3.59		
270	3.96	4.21	4.48	4.74	5	5.25	5.49	5.71	5.91	6.11	6.29	6.46	6.62	6.78	6.9	6.98	7.05	7.12	7.19	7.26	7.32	7.39	7.46	7.52	8.34	3.73		
280	4.11	4.37	4.64	4.92	5.18	5.44	5.69	5.92	6.13	6.33	6.53	6.7	6.87	7.03	7.16	7.23	7.31	7.38	7.46	7.53	7.6	7.66	7.73	7.8	8.65	3.87		
290	4.26	4.53	4.81	5.09	5.37	5.64	5.89	6.14	6.35	6.56	6.76	6.94	7.12	7.28	7.41	7.49	7.57	7.65	7.72	7.8	7.87	7.94	8.01	8.08	8.96	4		
300	4.41	4.68	4.98	5.27	5.55	5.83	6.1	6.35	6.57	6.79	6.99	7.18	7.36	7.53	7.67	7.75	7.83	7.91	7.99	8.07	8.14	8.21	8.29	8.36	9.27	4.14		
310	4.55	4.84	5.14	5.45	5.74	6.03	6.3	6.56	6.79	7.01	7.23	7.42	7.61	7.78	7.92	8.01	8.09	8.17	8.26	8.34	8.41	8.49	8.56	8.63	9.58	4.28		
320	4.7	4.99	5.31	5.62	5.92	6.22	6.5	6.77	7.01	7.24	7.46	7.66	7.85	8.03	8.18	8.27	8.36	8.44	8.52	8.6	8.68	8.76	8.84	8.91	9.89	4.42		
330	4.85	5.15	5.47	5.8	6.11	6.42	6.71	6.98	7.23	7.47	7.69	7.9	8.1	8.28	8.44	8.53	8.62	8.7	8.79	8.87	8.95	9.03	9.11	9.19	10.2	4.56		
340	4.99	5.31	5.64	5.97	6.29	6.61	6.91	7.19	7.45	7.69	7.93	8.14	8.34	8.53	8.69	8.79	8.88	8.97	9.06	9.14	9.22	9.31	9.39	9.47	10.51	4.7		
350	5.14	5.46	5.8	6.15	6.48	6.81	7.11	7.4	7.67	7.92	8.16	8.38	8.59	8.79	8.95	9.04	9.14	9.23	9.32	9.41	9.5	9.58	9.67	9.75	10.82	4.83		

1098-05	GENERAL INFORMATION															
Sheet of	ENGINEERING NOTES AND SIGNAGE															
Rev: 03/26/2026	SAG & TENSION WITH TABLES															

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	51.00	2232.70	85.00

Conductor 1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	220	RAVEN INITIAL										Eng. Use: MOT Temp (°F)
Condition Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120		194
Tension (lbs)	1,729	1,576	1,427	1,289	1,166	1,057	962	879	809	750	700	656	618	586	557	532	509	490	471	456	440	431	423	417	410		335
% Ultimate	39%	36%	33%	29%	27%	24%	22%	20%	18%	17%	16%	15%	14%	13%	13%	12%	12%	11%	11%	10%	10%	10%	10%	10%	9%		8%
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)		(Ft-In)
Ruling Span Sag	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-5"	3'-7"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"		4'-10"
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"		0'-3"
75	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"		0'-7"
100	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"		1'-0"
120	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-2"	1'-2"	1'-2"		1'-5"
140	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-6"	1'-7"	1'-7"	1'-7"		2'-0"
160	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	1'-11"	2'-0"	2'-0"	2'-1"	2'-1"		2'-7"
180	0'-8"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-6"	2'-7"	2'-7"	2'-8"		3'-3"
200	0'-9"	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-6"	1'-8"	1'-9"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-10"	2'-11"	3'-1"	3'-1"	3'-2"	3'-3"	3'-3"		4'-0"
210	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-6"	1'-8"	1'-10"	2'-0"	2'-1"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-7"		4'-5"
220	0'-11"	1'-0"	1'-2"	1'-3"	1'-5"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-5"	3'-7"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"		4'-10"
230	1'-0"	1'-2"	1'-3"	1'-5"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-9"	3'-11"	4'-0"	4'-2"	4'-2"	4'-3"	4'-4"		5'-4"
240	1'-1"	1'-3"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-5"	2'-7"	2'-9"	2'-11"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	3'-11"	4'-1"	4'-3"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"		5'-9"
250	1'-3"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-5"	2'-7"	2'-10"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-6"	4'-7"	4'-9"	4'-11"	5'-0"	5'-0"	5'-2"		6'-3"
260	1'-4"	1'-5"	1'-7"	1'-9"	1'-11"	2'-2"	2'-4"	2'-7"	2'-10"	3'-0"	3'-3"	3'-6"	3'-8"	3'-11"	4'-1"	4'-3"	4'-6"	4'-8"	4'-10"	5'-0"	5'-2"	5'-3"	5'-4"	5'-5"	5'-6"		6'-9"
270	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-4"	2'-7"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-2"	4'-5"	4'-7"	4'-10"	5'-0"	5'-2"	5'-5"	5'-7"	5'-8"	5'-9"	5'-11"	6'-0"		7'-4"
280	1'-6"	1'-8"	1'-10"	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	4'-11"	5'-2"	5'-5"	5'-7"	5'-9"	6'-0"	6'-1"	6'-3"	6'-4"	6'-5"		7'-10"
290	1'-8"	1'-9"	2'-0"	2'-2"	2'-5"	2'-8"	2'-11"	3'-3"	3'-6"	3'-9"	4'-0"	4'-4"	4'-7"	4'-10"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	6'-3"	6'-5"	6'-7"	6'-8"	6'-9"	6'-11"		8'-5"
300	1'-9"	1'-11"	2'-1"	2'-4"	2'-7"	2'-10"	3'-2"	3'-5"	3'-9"	4'-0"	4'-4"	4'-7"	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-10"	7'-0"	7'-2"	7'-3"	7'-5"		9'-0"
310	1'-10"	2'-1"	2'-3"	2'-6"	2'-9"	3'-1"	3'-4"	3'-8"	4'-0"	4'-4"	4'-7"	4'-11"	5'-3"	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	7'-6"	7'-8"	7'-9"	7'-11"		9'-8"
320	2'-0"	2'-2"	2'-5"	2'-8"	2'-11"	3'-3"	3'-7"	3'-11"	4'-3"	4'-7"	4'-11"	5'-3"	5'-7"	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	8'-0"	8'-2"	8'-3"	8'-5"		10'-3"
330	2'-1"	2'-4"	2'-7"	2'-10"	3'-2"	3'-6"	3'-10"	4'-2"	4'-6"	4'-11"	5'-3"	5'-7"	5'-11"	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	8'-4"	8'-6"	8'-8"	8'-9"	8'-11"		10'-11"
340	2'-3"	2'-6"	2'-9"	3'-0"	3'-4"	3'-8"	4'-0"	4'-5"	4'-10"	5'-2"	5'-7"	5'-11"	6'-3"	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	8'-10"	9'-0"	9'-2"	9'-4"	9'-6"		11'-7"
350	2'-5"	2'-7"	2'-11"	3'-2"	3'-6"	3'-11"	4'-3"	4'-8"	5'-1"	5'-6"	5'-11"	6'-3"	6'-8"	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	9'-4"	9'-7"	9'-9"	9'-11"	10'-1"		12'-3"

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	51.00	2232.70	85.00

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	220	RAVEN INITIAL												Eng. Use: MOT Temp (°F)
Condition		Initial Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194				
Tension (lbs)	1,729	1,576	1,427	1,289	1,166	1,057	962	879	809	750	700	656	618	586	557	532	509	490	471	456	440	431	423	417	410	335				
% Ultimate	39%	36%	33%	29%	27%	24%	22%	20%	18%	17%	16%	15%	14%	13%	13%	12%	12%	11%	11%	10%	10%	10%	10%	10%	9%	8%				
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec				
R.S. Span 3-Wave Time	3.04	3.19	3.36	3.53	3.71	3.89	4.07	4.24	4.4	4.56	4.71	4.85	4.98	5.11	5.23	5.34	5.45	5.56	5.65	5.75	5.81	5.86	5.91	5.96	6.59	2.9				
50	0.69	0.73	0.76	0.8	0.84	0.88	0.92	0.96	1	1.04	1.07	1.1	1.13	1.16	1.19	1.21	1.24	1.26	1.28	1.31	1.32	1.33	1.34	1.35	1.5	0.66				
75	1.04	1.09	1.15	1.2	1.26	1.33	1.39	1.45	1.5	1.55	1.6	1.65	1.7	1.74	1.78	1.82	1.86	1.89	1.93	1.96	1.98	2	2.01	2.03	2.25	0.99				
100	1.38	1.45	1.53	1.61	1.69	1.77	1.85	1.93	2	2.07	2.14	2.21	2.26	2.32	2.38	2.43	2.48	2.52	2.57	2.61	2.64	2.66	2.69	2.71	2.99	1.32				
120	1.66	1.74	1.83	1.93	2.02	2.12	2.22	2.31	2.4	2.49	2.57	2.65	2.72	2.79	2.85	2.91	2.97	3.03	3.08	3.14	3.17	3.2	3.22	3.25	3.59	1.58				
140	1.93	2.03	2.14	2.25	2.36	2.47	2.59	2.7	2.8	2.9	3	3.09	3.17	3.25	3.33	3.4	3.47	3.53	3.6	3.66	3.7	3.73	3.76	3.79	4.19	1.85				
160	2.21	2.32	2.44	2.57	2.7	2.83	2.96	3.08	3.2	3.32	3.42	3.53	3.62	3.72	3.8	3.89	3.96	4.04	4.11	4.18	4.23	4.26	4.3	4.33	4.79	2.11				
180	2.49	2.61	2.75	2.89	3.04	3.18	3.33	3.47	3.6	3.73	3.85	3.97	4.08	4.18	4.28	4.37	4.46	4.55	4.62	4.7	4.76	4.8	4.83	4.87	5.39	2.37				
200	2.76	2.9	3.05	3.21	3.37	3.53	3.7	3.86	4	4.15	4.28	4.41	4.53	4.65	4.75	4.86	4.96	5.05	5.14	5.23	5.28	5.33	5.37	5.42	5.99	2.64				
210	2.9	3.05	3.21	3.37	3.54	3.71	3.88	4.05	4.2	4.35	4.49	4.63	4.76	4.88	4.99	5.1	5.2	5.3	5.39	5.49	5.55	5.6	5.64	5.69	6.29	2.77				
220	3.04	3.19	3.36	3.53	3.71	3.89	4.07	4.24	4.4	4.56	4.71	4.85	4.98	5.11	5.23	5.34	5.45	5.56	5.65	5.75	5.81	5.86	5.91	5.96	6.59	2.9				
230	3.18	3.34	3.51	3.69	3.88	4.07	4.25	4.43	4.6	4.77	4.92	5.07	5.21	5.34	5.47	5.59	5.7	5.81	5.91	6.01	6.08	6.13	6.18	6.23	6.89	3.03				
240	3.31	3.48	3.66	3.85	4.05	4.24	4.44	4.63	4.8	4.97	5.14	5.29	5.44	5.58	5.7	5.83	5.95	6.06	6.17	6.27	6.34	6.4	6.45	6.5	7.19	3.16				
250	3.45	3.63	3.82	4.01	4.22	4.42	4.62	4.82	5	5.18	5.35	5.52	5.66	5.81	5.94	6.07	6.19	6.31	6.42	6.53	6.61	6.66	6.72	6.77	7.49	3.3				
260	3.59	3.77	3.97	4.17	4.39	4.6	4.81	5.01	5.2	5.39	5.56	5.74	5.89	6.04	6.18	6.32	6.44	6.57	6.68	6.79	6.87	6.93	6.98	7.04	7.79	3.43				
270	3.73	3.92	4.12	4.34	4.55	4.77	4.99	5.2	5.4	5.6	5.78	5.96	6.12	6.27	6.42	6.56	6.69	6.82	6.94	7.06	7.13	7.2	7.25	7.31	8.09	3.56				
280	3.87	4.06	4.27	4.5	4.72	4.95	5.18	5.4	5.6	5.8	5.99	6.18	6.34	6.5	6.66	6.8	6.94	7.07	7.19	7.32	7.4	7.46	7.52	7.58	8.39	3.69				
290	4	4.21	4.43	4.66	4.89	5.13	5.36	5.59	5.8	6.01	6.21	6.4	6.57	6.74	6.89	7.05	7.19	7.32	7.45	7.58	7.66	7.73	7.79	7.85	8.69	3.82				
300	4.14	4.35	4.58	4.82	5.06	5.3	5.55	5.78	6	6.22	6.42	6.62	6.8	6.97	7.13	7.29	7.43	7.58	7.71	7.84	7.93	8	8.06	8.13	8.99	3.95				
310	4.28	4.5	4.73	4.98	5.23	5.48	5.73	5.98	6.2	6.43	6.63	6.84	7.02	7.2	7.37	7.53	7.68	7.83	7.97	8.1	8.19	8.26	8.33	8.4	9.29	4.09				
320	4.42	4.64	4.89	5.14	5.4	5.66	5.92	6.17	6.4	6.63	6.85	7.06	7.25	7.43	7.61	7.78	7.93	8.08	8.22	8.36	8.46	8.53	8.6	8.67	9.59	4.22				
330	4.56	4.79	5.04	5.3	5.57	5.83	6.1	6.36	6.6	6.84	7.06	7.28	7.48	7.67	7.85	8.02	8.18	8.33	8.48	8.63	8.72	8.8	8.87	8.94	9.89	4.35				
340	4.7	4.93	5.19	5.46	5.73	6.01	6.29	6.55	6.81	7.05	7.28	7.5	7.7	7.9	8.08	8.26	8.43	8.59	8.74	8.89	8.99	9.06	9.14	9.21	10.19	4.48				
350	4.83	5.08	5.34	5.62	5.9	6.19	6.47	6.75	7.01	7.26	7.49	7.72	7.93	8.13	8.32	8.5	8.67	8.84	8.99	9.15	9.25	9.33	9.4	9.48	10.49	4.61				

1098-05	GENERAL INFORMATION															
Sheet of	ENGINEERING NOTES AND SIGNAGE															
Rev: 03/26/2026	SAG & TENSION WITH TABLES															

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	49.50	2168.50	82.50

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)	0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	220		RAVEN CREEP												Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																														
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194				
Tension (lbs)	1,554	1,379	1,227	1,093	981	890	814	750	696	651	612	579	551	525	503	483	473	464	455	447	439	431	423	417	410	335				
% Ultimate	35%	31%	28%	25%	22%	20%	19%	17%	16%	15%	14%	13%	13%	12%	11%	11%	11%	11%	10%	10%	10%	10%	10%	10%	9%	8%				
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	1'-1"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	2'-11"	3'-1"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-8"	3'-9"	3'-9"	3'-10"	3'-11"	4'-0"	4'-10"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"				
75	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-7"				
100	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	1'-0"				
120	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-1"	1'-1"	1'-2"	1'-2"	1'-5"				
140	0'-5"	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-4"	1'-5"	1'-5"	1'-5"	1'-6"	1'-6"	1'-6"	1'-7"	1'-7"	2'-0"				
160	0'-7"	0'-7"	0'-8"	0'-9"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-10"	1'-11"	1'-11"	2'-0"	2'-0"	2'-0"	2'-1"	2'-1"	2'-7"				
180	0'-8"	0'-9"	0'-11"	1'-0"	1'-1"	1'-3"	1'-4"	1'-5"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-4"	2'-5"	2'-5"	2'-6"	2'-6"	2'-7"	2'-7"	2'-8"	3'-3"				
200	0'-10"	1'-0"	1'-1"	1'-3"	1'-4"	1'-6"	1'-8"	1'-9"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-8"	2'-9"	2'-10"	2'-11"	2'-11"	3'-0"	3'-1"	3'-1"	3'-2"	3'-3"	3'-3"	4'-0"				
210	0'-11"	1'-1"	1'-3"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"	3'-2"	3'-2"	3'-3"	3'-4"	3'-5"	3'-5"	3'-6"	3'-7"	3'-7"	4'-5"				
220	1'-1"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	2'-11"	3'-1"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-8"	3'-9"	3'-9"	3'-10"	3'-11"	4'-0"	4'-10"				
230	1'-2"	1'-3"	1'-5"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"	4'-1"	4'-2"	4'-2"	4'-3"	4'-4"	5'-4"				
240	1'-3"	1'-5"	1'-7"	1'-9"	2'-0"	2'-2"	2'-5"	2'-7"	2'-9"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"	5'-9"				
250	1'-4"	1'-6"	1'-9"	1'-11"	2'-2"	2'-4"	2'-7"	2'-10"	3'-0"	3'-3"	3'-5"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"	4'-11"	5'-0"	5'-0"	5'-2"	6'-3"				
260	1'-6"	1'-8"	1'-10"	2'-1"	2'-4"	2'-7"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	3'-11"	4'-1"	4'-4"	4'-6"	4'-8"	4'-10"	4'-11"	5'-0"	5'-1"	5'-2"	5'-3"	5'-4"	5'-5"	5'-6"	6'-9"				
270	1'-7"	1'-9"	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-5"	4'-8"	4'-10"	5'-1"	5'-2"	5'-3"	5'-5"	5'-6"	5'-7"	5'-8"	5'-9"	5'-11"	6'-0"	7'-4"				
280	1'-8"	1'-11"	2'-2"	2'-5"	2'-8"	3'-0"	3'-3"	3'-6"	3'-9"	4'-1"	4'-4"	4'-7"	4'-9"	5'-0"	5'-3"	5'-5"	5'-7"	5'-8"	5'-9"	5'-11"	6'-0"	6'-1"	6'-3"	6'-4"	6'-5"	7'-10"				
290	1'-10"	2'-1"	2'-4"	2'-7"	2'-11"	3'-2"	3'-6"	3'-9"	4'-1"	4'-4"	4'-7"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	6'-1"	6'-3"	6'-4"	6'-5"	6'-7"	6'-8"	6'-9"	6'-11"	8'-5"				
300	1'-11"	2'-2"	2'-6"	2'-9"	3'-1"	3'-5"	3'-9"	4'-0"	4'-4"	4'-8"	4'-11"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-6"	6'-8"	6'-9"	6'-11"	7'-0"	7'-2"	7'-3"	7'-5"	9'-0"				
310	2'-1"	2'-4"	2'-8"	2'-11"	3'-3"	3'-8"	4'-0"	4'-4"	4'-8"	5'-0"	5'-3"	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-10"	7'-0"	7'-1"	7'-3"	7'-4"	7'-6"	7'-8"	7'-9"	7'-11"	9'-8"				
320	2'-3"	2'-6"	2'-10"	3'-2"	3'-6"	3'-10"	4'-3"	4'-7"	4'-11"	5'-3"	5'-7"	5'-11"	6'-3"	6'-7"	6'-10"	7'-2"	7'-3"	7'-5"	7'-7"	7'-9"	7'-10"	8'-0"	8'-2"	8'-3"	8'-5"	10'-3"				
330	2'-4"	2'-8"	3'-0"	3'-4"	3'-9"	4'-1"	4'-6"	4'-11"	5'-3"	5'-7"	6'-0"	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-9"	7'-11"	8'-0"	8'-2"	8'-4"	8'-6"	8'-8"	8'-9"	8'-11"	10'-11"				
340	2'-6"	2'-10"	3'-2"	3'-7"	4'-0"	4'-4"	4'-9"	5'-2"	5'-7"	6'-0"	6'-4"	6'-9"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	8'-5"	8'-6"	8'-8"	8'-10"	9'-0"	9'-2"	9'-4"	9'-6"	11'-7"				
350	2'-8"	3'-0"	3'-4"	3'-9"	4'-2"	4'-8"	5'-1"	5'-6"	5'-11"	6'-4"	6'-9"	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	8'-11"	9'-1"	9'-3"	9'-5"	9'-7"	9'-9"	9'-11"	10'-1"	12'-4"				

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	49.50	2168.50	82.50

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	220		RAVEN CREEP								Eng. Use: MOT Temp (°F)
Creep Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194	
Tension (lbs)	1,554	1,379	1,227	1,093	981	890	814	750	696	651	612	579	551	525	503	483	473	464	455	447	439	431	423	417	410	335	
% Ultimate	35%	31%	28%	25%	22%	20%	19%	17%	16%	15%	14%	13%	13%	12%	11%	11%	11%	11%	10%	10%	10%	10%	10%	10%	9%	8%	
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	
R.S. Span	3.25	3.44	3.65	3.85	4.04	4.23	4.4	4.57	4.73	4.87	5.01	5.14	5.26	5.38	5.49	5.55	5.6	5.65	5.71	5.76	5.81	5.86	5.91	5.96	6.59	3.06	
3-Wave Time	50	0.74	0.78	0.83	0.88	0.92	0.96	1	1.04	1.07	1.11	1.14	1.17	1.2	1.22	1.25	1.26	1.27	1.28	1.3	1.31	1.32	1.33	1.34	1.35	1.5	0.7
75	1.11	1.17	1.24	1.31	1.38	1.44	1.5	1.56	1.61	1.66	1.71	1.75	1.79	1.83	1.87	1.89	1.91	1.93	1.95	1.96	1.98	2	2.01	2.03	2.25	1.04	
100	1.48	1.57	1.66	1.75	1.84	1.92	2	2.08	2.15	2.22	2.28	2.34	2.39	2.44	2.49	2.52	2.55	2.57	2.59	2.62	2.64	2.66	2.69	2.71	2.99	1.39	
120	1.77	1.88	1.99	2.1	2.21	2.31	2.4	2.49	2.58	2.66	2.73	2.8	2.87	2.93	2.99	3.02	3.05	3.08	3.11	3.14	3.17	3.2	3.22	3.25	3.59	1.67	
140	2.07	2.19	2.32	2.45	2.57	2.69	2.8	2.91	3.01	3.1	3.19	3.27	3.35	3.42	3.49	3.53	3.56	3.6	3.63	3.66	3.7	3.73	3.76	3.79	4.19	1.95	
160	2.36	2.5	2.65	2.8	2.94	3.08	3.2	3.33	3.44	3.54	3.64	3.74	3.83	3.91	3.99	4.03	4.07	4.11	4.15	4.19	4.23	4.26	4.3	4.33	4.79	2.23	
180	2.66	2.82	2.98	3.15	3.31	3.46	3.6	3.74	3.87	3.99	4.1	4.2	4.31	4.4	4.49	4.54	4.58	4.63	4.67	4.71	4.76	4.8	4.83	4.87	5.39	2.5	
200	2.95	3.13	3.32	3.5	3.68	3.84	4	4.16	4.3	4.43	4.56	4.67	4.78	4.89	4.99	5.04	5.09	5.14	5.19	5.24	5.28	5.33	5.37	5.42	5.99	2.78	
210	3.1	3.29	3.48	3.68	3.86	4.04	4.2	4.36	4.51	4.65	4.78	4.9	5.02	5.13	5.24	5.29	5.35	5.4	5.45	5.5	5.55	5.6	5.64	5.69	6.29	2.92	
220	3.25	3.44	3.65	3.85	4.04	4.23	4.4	4.57	4.73	4.87	5.01	5.14	5.26	5.38	5.49	5.55	5.6	5.65	5.71	5.76	5.81	5.86	5.91	5.96	6.59	3.06	
230	3.4	3.6	3.81	4.03	4.23	4.42	4.6	4.78	4.94	5.1	5.24	5.37	5.5	5.62	5.74	5.8	5.86	5.91	5.97	6.02	6.08	6.13	6.18	6.23	6.89	3.2	
240	3.54	3.76	3.98	4.2	4.41	4.61	4.8	4.99	5.16	5.32	5.47	5.61	5.74	5.87	5.99	6.05	6.11	6.17	6.23	6.28	6.34	6.4	6.45	6.5	7.19	3.34	
250	3.69	3.91	4.15	4.38	4.59	4.81	5	5.2	5.37	5.54	5.69	5.84	5.98	6.11	6.24	6.3	6.37	6.42	6.49	6.55	6.61	6.66	6.72	6.77	7.49	3.48	
260	3.84	4.07	4.31	4.55	4.78	5	5.2	5.4	5.59	5.76	5.92	6.07	6.22	6.36	6.49	6.55	6.62	6.68	6.75	6.81	6.87	6.93	6.98	7.04	7.79	3.62	
270	3.99	4.23	4.48	4.73	4.96	5.19	5.41	5.61	5.8	5.98	6.15	6.31	6.46	6.6	6.74	6.81	6.87	6.94	7.01	7.07	7.13	7.2	7.25	7.31	8.09	3.76	
280	4.13	4.38	4.64	4.9	5.15	5.38	5.61	5.82	6.02	6.2	6.38	6.54	6.7	6.85	6.98	7.06	7.13	7.2	7.27	7.33	7.4	7.46	7.52	7.58	8.39	3.89	
290	4.28	4.54	4.81	5.08	5.33	5.57	5.81	6.03	6.23	6.43	6.61	6.77	6.94	7.09	7.23	7.31	7.38	7.45	7.52	7.59	7.66	7.73	7.79	7.85	8.69	4.03	
300	4.43	4.7	4.97	5.25	5.51	5.77	6.01	6.24	6.45	6.65	6.83	7.01	7.18	7.34	7.48	7.56	7.64	7.71	7.78	7.86	7.93	8	8.06	8.13	8.99	4.17	
310	4.58	4.85	5.14	5.43	5.7	5.96	6.21	6.44	6.66	6.87	7.06	7.24	7.42	7.58	7.73	7.82	7.89	7.97	8.04	8.12	8.19	8.26	8.33	8.4	9.29	4.31	
320	4.72	5.01	5.31	5.6	5.88	6.15	6.41	6.65	6.88	7.09	7.29	7.47	7.66	7.82	7.98	8.07	8.15	8.23	8.3	8.38	8.46	8.53	8.6	8.67	9.59	4.45	
330	4.87	5.17	5.47	5.78	6.06	6.34	6.61	6.86	7.09	7.31	7.52	7.71	7.89	8.07	8.23	8.32	8.4	8.48	8.56	8.64	8.72	8.8	8.87	8.94	9.89	4.59	
340	5.02	5.32	5.64	5.95	6.25	6.54	6.81	7.07	7.31	7.53	7.75	7.94	8.13	8.31	8.48	8.57	8.66	8.74	8.82	8.9	8.99	9.06	9.14	9.21	10.19	4.73	
350	5.17	5.48	5.8	6.13	6.43	6.73	7.01	7.28	7.52	7.76	7.97	8.18	8.37	8.56	8.73	8.83	8.91	9	9.08	9.17	9.25	9.33	9.4	9.48	10.49	4.87	

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	52.20	2286.30	87.00

Conductor	1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)	0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	235		RAVEN INITIAL										Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194			
Tension (lbs)	1,590	1,448	1,314	1,194	1,088	994	912	845	785	735	690	651	619	589	563	540	519	501	484	468	454	443	436	430	423	350			
% Ultimate	36%	33%	30%	27%	25%	23%	21%	19%	18%	17%	16%	15%	14%	13%	13%	12%	12%	11%	11%	11%	10%	10%	10%	10%	10%	8%			
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)			
Ruling Span Sag	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-9"	3'-10"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	4'-5"	5'-4"			
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"			
75	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"			
100	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	1'-0"			
120	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-2"	1'-2"	1'-5"			
140	0'-5"	0'-5"	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-4"	1'-5"	1'-5"	1'-6"	1'-6"	1'-6"	1'-7"	1'-11"			
160	0'-6"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-11"	1'-11"	2'-0"	2'-0"	2'-0"	2'-6"			
180	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-6"	2'-6"	2'-7"	3'-1"			
200	0'-10"	0'-11"	1'-0"	1'-2"	1'-3"	1'-4"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-8"	2'-9"	2'-10"	3'-0"	3'-0"	3'-1"	3'-2"	3'-2"	3'-10"			
210	0'-11"	1'-0"	1'-2"	1'-3"	1'-4"	1'-6"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-10"	3'-0"	3'-1"	3'-2"	3'-3"	3'-4"	3'-5"	3'-5"	3'-6"	4'-3"			
220	1'-0"	1'-1"	1'-3"	1'-4"	1'-6"	1'-8"	1'-9"	1'-11"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	3'-4"	3'-6"	3'-7"	3'-8"	3'-9"	3'-9"	3'-10"	4'-8"			
230	1'-1"	1'-3"	1'-4"	1'-6"	1'-8"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-8"	3'-10"	3'-11"	4'-0"	4'-1"	4'-2"	4'-2"	5'-1"			
240	1'-3"	1'-4"	1'-6"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-9"	3'-10"	4'-0"	4'-2"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	5'-6"			
250	1'-4"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-2"	4'-4"	4'-6"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"	6'-0"			
260	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-6"	2'-8"	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-10"	4'-0"	4'-3"	4'-5"	4'-6"	4'-8"	4'-10"	5'-0"	5'-2"	5'-3"	5'-3"	5'-4"	6'-6"			
270	1'-6"	1'-8"	1'-10"	2'-1"	2'-3"	2'-6"	2'-8"	2'-11"	3'-1"	3'-4"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	5'-5"	5'-6"	5'-7"	5'-9"	5'-9"	7'-0"			
280	1'-8"	1'-10"	2'-0"	2'-3"	2'-5"	2'-8"	2'-11"	3'-1"	3'-4"	3'-7"	3'-10"	4'-0"	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	5'-5"	5'-8"	5'-10"	5'-11"	6'-0"	6'-2"	6'-3"	7'-6"			
290	1'-9"	1'-11"	2'-2"	2'-4"	2'-7"	2'-10"	3'-1"	3'-4"	3'-7"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	6'-0"	6'-3"	6'-5"	6'-6"	6'-7"	6'-8"	8'-1"			
300	1'-11"	2'-1"	2'-4"	2'-6"	2'-9"	3'-0"	3'-4"	3'-7"	3'-10"	4'-1"	4'-5"	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	6'-8"	6'-10"	6'-11"	7'-1"	7'-2"	8'-8"			
310	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	3'-3"	3'-6"	3'-10"	4'-1"	4'-5"	4'-8"	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	6'-11"	7'-1"	7'-3"	7'-5"	7'-6"	7'-8"	9'-3"			
320	2'-2"	2'-5"	2'-7"	2'-11"	3'-2"	3'-6"	3'-9"	4'-1"	4'-5"	4'-8"	5'-0"	5'-3"	5'-7"	5'-10"	6'-1"	6'-4"	6'-8"	6'-11"	7'-1"	7'-4"	7'-7"	7'-9"	7'-11"	8'-0"	8'-2"	9'-10"			
330	2'-4"	2'-6"	2'-9"	3'-1"	3'-4"	3'-8"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	5'-7"	5'-11"	6'-3"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-10"	8'-1"	8'-3"	8'-5"	8'-6"	8'-8"	10'-6"			
340	2'-5"	2'-8"	3'-0"	3'-3"	3'-7"	3'-11"	4'-3"	4'-7"	4'-11"	5'-3"	5'-8"	6'-0"	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	8'-4"	8'-7"	8'-9"	8'-11"	9'-1"	9'-2"	11'-1"			
350	2'-7"	2'-10"	3'-2"	3'-5"	3'-9"	4'-2"	4'-6"	4'-10"	5'-3"	5'-7"	6'-0"	6'-4"	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	8'-10"	9'-1"	9'-3"	9'-5"	9'-7"	9'-9"	11'-9"			

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	52.20	2286.30	87.00

Conductor	1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	235		RAVEN INITIAL								Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194		
Tension (lbs)	1,590	1,448	1,314	1,194	1,088	994	912	845	785	735	690	651	619	589	563	540	519	501	484	468	454	443	436	430	423	350		
% Ultimate	36%	33%	30%	27%	25%	23%	21%	19%	18%	17%	16%	15%	14%	13%	13%	12%	12%	11%	11%	11%	10%	10%	10%	10%	10%	8%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span	3.39	3.55	3.73	3.91	4.09	4.27	4.43	4.6	4.75	4.9	5.05	5.18	5.31	5.43	5.54	5.66	5.76	5.86	5.96	6.05	6.12	6.17	6.22	6.26	6.89	3.23		
3-Wave Time	50	75	100	120	140	160	180	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350					
	0.72	0.76	0.79	0.83	0.87	0.91	0.94	0.98	1.01	1.04	1.07	1.1	1.13	1.15	1.18	1.2	1.23	1.25	1.27	1.29	1.3	1.31	1.32	1.33	1.47	0.69		
	1.08	1.13	1.19	1.25	1.3	1.36	1.41	1.47	1.52	1.57	1.61	1.65	1.69	1.73	1.77	1.8	1.84	1.87	1.9	1.93	1.95	1.97	1.98	2	2.2	1.03		
	1.44	1.51	1.59	1.66	1.74	1.82	1.89	1.96	2.02	2.09	2.15	2.2	2.26	2.31	2.36	2.41	2.45	2.49	2.53	2.57	2.6	2.62	2.65	2.67	2.93	1.37		
	1.73	1.81	1.9	1.99	2.09	2.18	2.26	2.35	2.43	2.5	2.58	2.64	2.71	2.77	2.83	2.89	2.94	2.99	3.04	3.09	3.12	3.15	3.17	3.2	3.52	1.65		
	2.02	2.12	2.22	2.33	2.43	2.54	2.64	2.74	2.83	2.92	3.01	3.08	3.16	3.23	3.3	3.37	3.43	3.49	3.55	3.6	3.65	3.67	3.7	3.73	4.1	1.92		
	2.31	2.42	2.54	2.66	2.78	2.9	3.02	3.13	3.24	3.34	3.44	3.53	3.61	3.7	3.77	3.85	3.92	3.99	4.06	4.12	4.17	4.2	4.23	4.26	4.69	2.2		
	2.59	2.72	2.86	2.99	3.13	3.27	3.4	3.52	3.64	3.76	3.87	3.97	4.07	4.16	4.25	4.33	4.41	4.49	4.56	4.63	4.69	4.73	4.76	4.8	5.28	2.47		
	2.88	3.02	3.17	3.32	3.48	3.63	3.77	3.91	4.05	4.17	4.3	4.41	4.52	4.62	4.72	4.81	4.9	4.99	5.07	5.15	5.21	5.25	5.29	5.33	5.86	2.75		
	3.03	3.18	3.33	3.49	3.65	3.81	3.96	4.11	4.25	4.38	4.51	4.63	4.74	4.85	4.95	5.05	5.15	5.24	5.32	5.41	5.47	5.51	5.56	5.6	6.16	2.89		
	3.17	3.33	3.49	3.66	3.83	3.99	4.15	4.3	4.45	4.59	4.73	4.85	4.97	5.08	5.19	5.29	5.39	5.48	5.58	5.66	5.73	5.78	5.82	5.86	6.45	3.02		
	3.31	3.48	3.65	3.82	4	4.18	4.34	4.5	4.65	4.8	4.94	5.07	5.2	5.31	5.43	5.54	5.64	5.73	5.83	5.92	5.99	6.04	6.09	6.13	6.74	3.16		
	3.46	3.63	3.81	3.99	4.17	4.36	4.53	4.7	4.86	5.01	5.16	5.29	5.42	5.54	5.66	5.78	5.88	5.98	6.08	6.18	6.25	6.3	6.35	6.4	7.04	3.3		
	3.6	3.78	3.97	4.16	4.35	4.54	4.72	4.89	5.06	5.22	5.37	5.51	5.65	5.77	5.9	6.02	6.13	6.23	6.34	6.44	6.51	6.56	6.61	6.66	7.33	3.44		
	3.75	3.93	4.13	4.32	4.52	4.72	4.9	5.09	5.26	5.43	5.58	5.73	5.87	6.01	6.13	6.26	6.37	6.48	6.59	6.69	6.77	6.83	6.88	6.93	7.62	3.57		
	3.89	4.08	4.28	4.49	4.69	4.9	5.09	5.28	5.46	5.64	5.8	5.95	6.1	6.24	6.37	6.5	6.62	6.73	6.85	6.95	7.03	7.09	7.14	7.2	7.92	3.71		
	4.03	4.24	4.44	4.65	4.87	5.08	5.28	5.48	5.66	5.84	6.01	6.17	6.33	6.47	6.61	6.74	6.86	6.98	7.1	7.21	7.29	7.35	7.41	7.46	8.21	3.85		
	4.18	4.39	4.6	4.82	5.04	5.27	5.47	5.67	5.87	6.05	6.23	6.39	6.55	6.7	6.84	6.98	7.11	7.23	7.35	7.47	7.55	7.61	7.67	7.73	8.5	3.99		
	4.32	4.54	4.76	4.99	5.22	5.45	5.66	5.87	6.07	6.26	6.44	6.61	6.78	6.93	7.08	7.22	7.35	7.48	7.61	7.72	7.81	7.88	7.94	8	8.8	4.12		
	4.47	4.69	4.92	5.15	5.39	5.63	5.85	6.07	6.27	6.47	6.66	6.83	7	7.16	7.31	7.46	7.6	7.73	7.86	7.98	8.08	8.14	8.2	8.27	9.09	4.26		
	4.61	4.84	5.08	5.32	5.56	5.81	6.04	6.26	6.47	6.68	6.87	7.05	7.23	7.39	7.55	7.7	7.84	7.98	8.11	8.24	8.34	8.4	8.47	8.53	9.38	4.4		
	4.75	4.99	5.24	5.48	5.74	5.99	6.23	6.46	6.68	6.89	7.09	7.27	7.46	7.62	7.79	7.94	8.09	8.23	8.37	8.5	8.6	8.67	8.73	8.8	9.68	4.54		
	4.9	5.14	5.4	5.65	5.91	6.17	6.41	6.65	6.88	7.1	7.3	7.49	7.68	7.85	8.02	8.18	8.33	8.48	8.62	8.75	8.86	8.93	9	9.07	9.97	4.67		
	5.04	5.29	5.55	5.82	6.09	6.35	6.6	6.85	7.08	7.31	7.52	7.71	7.91	8.09	8.26	8.42	8.58	8.73	8.88	9.01	9.12	9.19	9.26	9.33	10.27	4.81		

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	50.80	2225.00	84.70

Conductor	1/0 AWG Covered ACSR - Raven										Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	235		RAVEN CREEP										Eng. Use: MOT Temp (°F)
Condition	Creep Sag & Tension																			Temp (°F)	194									
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194				
Tension (lbs)	1,410	1,257	1,127	1,019	928	851	786	732	687	647	614	583	557	534	513	494	484	475	467	459	451	443	436	430	423	350				
% Ultimate	32%	29%	26%	23%	21%	19%	18%	17%	16%	15%	14%	13%	13%	12%	12%	11%	11%	11%	11%	10%	10%	10%	10%	10%	10%	8%				
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-7"	3'-9"	3'-10"	3'-11"	4'-0"	4'-1"	4'-1"	4'-2"	4'-3"	4'-4"	4'-5"	5'-4"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"				
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"				
100	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	1'-0"				
120	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-1"	1'-1"	1'-2"	1'-5"				
140	0'-6"	0'-6"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-4"	1'-5"	1'-5"	1'-5"	1'-5"	1'-6"	1'-6"	1'-6"	1'-7"	1'-11"				
160	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-10"	1'-11"	1'-11"	1'-11"	2'-0"	2'-0"	2'-0"	2'-6"				
180	0'-9"	0'-10"	1'-0"	1'-1"	1'-2"	1'-3"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-3"	2'-4"	2'-4"	2'-5"	2'-6"	2'-6"	2'-6"	2'-7"	3'-1"				
200	0'-11"	1'-1"	1'-2"	1'-4"	1'-5"	1'-7"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-7"	2'-9"	2'-9"	2'-10"	2'-11"	2'-11"	3'-0"	3'-0"	3'-1"	3'-2"	3'-2"	3'-10"				
210	1'-1"	1'-2"	1'-4"	1'-5"	1'-7"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-1"	3'-1"	3'-2"	3'-3"	3'-3"	3'-4"	3'-5"	3'-5"	3'-6"	4'-3"				
220	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-7"	3'-8"	3'-9"	3'-9"	3'-10"	4'-8"				
230	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-7"	3'-8"	3'-9"	3'-10"	3'-11"	3'-11"	4'-0"	4'-1"	4'-2"	4'-2"	5'-1"				
240	1'-4"	1'-6"	1'-9"	1'-11"	2'-1"	2'-3"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-9"	3'-11"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	4'-4"	4'-5"	4'-6"	4'-7"	5'-6"				
250	1'-6"	1'-8"	1'-10"	2'-1"	2'-3"	2'-6"	2'-8"	2'-10"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"	6'-0"				
260	1'-7"	1'-10"	2'-0"	2'-3"	2'-5"	2'-8"	2'-11"	3'-1"	3'-4"	3'-6"	3'-8"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-8"	4'-9"	4'-10"	5'-0"	5'-0"	5'-2"	5'-3"	5'-4"	5'-4"	6'-6"				
270	1'-9"	1'-11"	2'-2"	2'-5"	2'-8"	2'-11"	3'-1"	3'-4"	3'-7"	3'-9"	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	5'-0"	5'-1"	5'-2"	5'-3"	5'-4"	5'-5"	5'-6"	5'-7"	5'-9"	5'-9"	7'-0"				
280	1'-10"	2'-1"	2'-4"	2'-7"	2'-10"	3'-1"	3'-4"	3'-7"	3'-10"	4'-1"	4'-3"	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-5"	5'-7"	5'-8"	5'-9"	5'-10"	5'-11"	6'-0"	6'-2"	6'-3"	7'-6"				
290	2'-0"	2'-3"	2'-6"	2'-9"	3'-1"	3'-4"	3'-7"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-3"	5'-6"	5'-9"	5'-10"	5'-11"	6'-1"	6'-2"	6'-3"	6'-5"	6'-6"	6'-7"	6'-8"	8'-1"				
300	2'-2"	2'-5"	2'-8"	3'-0"	3'-3"	3'-7"	3'-10"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-3"	6'-4"	6'-6"	6'-7"	6'-9"	6'-10"	6'-11"	7'-1"	7'-2"	8'-8"				
310	2'-3"	2'-7"	2'-10"	3'-2"	3'-6"	3'-9"	4'-1"	4'-5"	4'-8"	5'-0"	5'-3"	5'-6"	5'-10"	6'-1"	6'-4"	6'-6"	6'-8"	6'-10"	6'-11"	7'-1"	7'-2"	7'-3"	7'-5"	7'-6"	7'-8"	9'-3"				
320	2'-5"	2'-9"	3'-1"	3'-5"	3'-9"	4'-0"	4'-5"	4'-8"	5'-0"	5'-4"	5'-7"	5'-11"	6'-2"	6'-5"	6'-9"	7'-0"	7'-1"	7'-3"	7'-5"	7'-6"	7'-8"	7'-9"	7'-11"	8'-0"	8'-2"	9'-10"				
330	2'-7"	2'-11"	3'-3"	3'-7"	3'-11"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	6'-0"	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-7"	7'-9"	7'-10"	8'-0"	8'-2"	8'-3"	8'-5"	8'-6"	8'-8"	10'-6"				
340	2'-9"	3'-1"	3'-5"	3'-10"	4'-2"	4'-7"	4'-11"	5'-4"	5'-8"	6'-0"	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-0"	8'-2"	8'-4"	8'-6"	8'-8"	8'-9"	8'-11"	9'-1"	9'-2"	11'-1"				
350	2'-11"	3'-3"	3'-8"	4'-0"	4'-5"	4'-10"	5'-3"	5'-8"	6'-0"	6'-4"	6'-9"	7'-1"	7'-5"	7'-9"	8'-0"	8'-4"	8'-6"	8'-8"	8'-10"	9'-0"	9'-2"	9'-3"	9'-5"	9'-7"	9'-9"	11'-9"				

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	50.80	2225.00	84.70

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)	0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	235		RAVEN CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194
Tension (lbs)	1,410	1,257	1,127	1,019	928	851	786	732	687	647	614	583	557	534	513	494	484	475	467	459	451	443	436	430	423	350
% Ultimate	32%	29%	26%	23%	21%	19%	18%	17%	16%	15%	14%	13%	13%	12%	12%	11%	11%	11%	11%	10%	10%	10%	10%	10%	10%	8%
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec
R.S. Span																										
3-Wave Time	3.63	3.84	4.04	4.23	4.42	4.6	4.76	4.92	5.06	5.2	5.33	5.46	5.58	5.69	5.8	5.86	5.91	5.97	6.02	6.07	6.12	6.17	6.22	6.26	6.89	3.43
50	0.77	0.82	0.86	0.9	0.94	0.98	1.01	1.05	1.08	1.11	1.13	1.16	1.19	1.21	1.23	1.25	1.26	1.27	1.28	1.29	1.3	1.31	1.32	1.33	1.47	0.73
75	1.16	1.22	1.29	1.35	1.41	1.47	1.52	1.57	1.62	1.66	1.7	1.74	1.78	1.82	1.85	1.87	1.89	1.9	1.92	1.94	1.95	1.97	1.98	2	2.2	1.1
100	1.55	1.63	1.72	1.8	1.88	1.96	2.03	2.09	2.15	2.21	2.27	2.32	2.37	2.42	2.47	2.49	2.52	2.54	2.56	2.58	2.6	2.62	2.65	2.67	2.93	1.46
120	1.86	1.96	2.06	2.16	2.25	2.35	2.43	2.51	2.59	2.66	2.72	2.79	2.85	2.9	2.96	2.99	3.02	3.05	3.07	3.1	3.12	3.15	3.17	3.2	3.52	1.75
140	2.16	2.29	2.4	2.52	2.63	2.74	2.84	2.93	3.02	3.1	3.18	3.25	3.32	3.39	3.45	3.49	3.52	3.55	3.58	3.62	3.65	3.67	3.7	3.73	4.1	2.04
160	2.47	2.61	2.75	2.88	3.01	3.13	3.24	3.35	3.45	3.54	3.63	3.72	3.8	3.87	3.95	3.99	4.02	4.06	4.1	4.13	4.17	4.2	4.23	4.26	4.69	2.34
180	2.78	2.94	3.09	3.24	3.38	3.52	3.65	3.77	3.88	3.98	4.09	4.18	4.27	4.36	4.44	4.49	4.53	4.57	4.61	4.65	4.69	4.73	4.76	4.8	5.28	2.63
200	3.09	3.27	3.43	3.6	3.76	3.91	4.05	4.18	4.31	4.43	4.54	4.65	4.75	4.84	4.93	4.99	5.03	5.08	5.12	5.17	5.21	5.25	5.29	5.33	5.86	2.92
210	3.25	3.43	3.61	3.78	3.95	4.11	4.26	4.39	4.52	4.65	4.77	4.88	4.98	5.08	5.18	5.24	5.28	5.33	5.38	5.42	5.47	5.51	5.56	5.6	6.16	3.07
220	3.4	3.59	3.78	3.96	4.13	4.3	4.46	4.6	4.74	4.87	4.99	5.11	5.22	5.33	5.43	5.48	5.53	5.58	5.63	5.68	5.73	5.78	5.82	5.86	6.45	3.21
230	3.56	3.76	3.95	4.14	4.32	4.5	4.66	4.81	4.96	5.09	5.22	5.34	5.46	5.57	5.67	5.73	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.13	6.74	3.36
240	3.71	3.92	4.12	4.32	4.51	4.69	4.86	5.02	5.17	5.31	5.45	5.58	5.69	5.81	5.92	5.98	6.04	6.09	6.15	6.2	6.25	6.3	6.35	6.4	7.04	3.5
250	3.87	4.08	4.29	4.5	4.7	4.89	5.07	5.23	5.39	5.53	5.67	5.81	5.93	6.05	6.17	6.23	6.29	6.35	6.4	6.46	6.51	6.56	6.61	6.66	7.33	3.65
260	4.02	4.25	4.46	4.68	4.89	5.08	5.27	5.44	5.6	5.75	5.9	6.04	6.17	6.29	6.41	6.48	6.54	6.6	6.66	6.72	6.77	6.83	6.88	6.93	7.62	3.8
270	4.17	4.41	4.64	4.86	5.07	5.28	5.47	5.65	5.82	5.98	6.13	6.27	6.41	6.54	6.66	6.73	6.79	6.85	6.91	6.97	7.03	7.09	7.14	7.2	7.92	3.94
280	4.33	4.57	4.81	5.04	5.26	5.48	5.67	5.86	6.03	6.2	6.36	6.51	6.64	6.78	6.91	6.98	7.04	7.11	7.17	7.23	7.29	7.35	7.41	7.46	8.21	4.09
290	4.48	4.74	4.98	5.22	5.45	5.67	5.88	6.07	6.25	6.42	6.58	6.74	6.88	7.02	7.15	7.23	7.3	7.36	7.43	7.49	7.55	7.61	7.67	7.73	8.51	4.23
300	4.64	4.9	5.15	5.4	5.64	5.87	6.08	6.28	6.46	6.64	6.81	6.97	7.12	7.26	7.4	7.48	7.55	7.62	7.68	7.75	7.81	7.88	7.94	8	8.8	4.38
310	4.79	5.06	5.32	5.58	5.82	6.06	6.28	6.49	6.68	6.86	7.04	7.2	7.36	7.51	7.65	7.73	7.8	7.87	7.94	8.01	8.08	8.14	8.2	8.27	9.09	4.53
320	4.95	5.23	5.5	5.76	6.01	6.26	6.49	6.69	6.9	7.08	7.26	7.44	7.59	7.75	7.89	7.98	8.05	8.12	8.2	8.27	8.34	8.4	8.47	8.53	9.39	4.67
330	5.1	5.39	5.67	5.94	6.2	6.45	6.69	6.9	7.11	7.3	7.49	7.67	7.83	7.99	8.14	8.23	8.3	8.38	8.45	8.53	8.6	8.67	8.73	8.8	9.68	4.82
340	5.26	5.55	5.84	6.12	6.39	6.65	6.89	7.11	7.33	7.53	7.72	7.9	8.07	8.23	8.39	8.48	8.55	8.63	8.71	8.78	8.86	8.93	9	9.07	9.97	4.96
350	5.41	5.72	6.01	6.3	6.58	6.84	7.09	7.32	7.54	7.75	7.95	8.13	8.31	8.48	8.64	8.73	8.81	8.89	8.96	9.04	9.12	9.19	9.26	9.33	10.27	5.11

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	53.40	2339.80	89.00

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	250		RAVEN INITIAL								Eng. Use: MOT Temp (°F)
Condition Initial Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194		
Tension (lbs)	1,681	1,533	1,403	1,277	1,169	1,069	984	911	847	792	744	703	666	635	606	581	559	538	519	503	487	473	465	458	451	373		
% Ultimate	38%	35%	32%	29%	27%	24%	22%	21%	19%	18%	17%	16%	15%	14%	14%	13%	13%	12%	12%	11%	11%	11%	11%	10%	10%	9%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	3.5	3.66	3.84	4.01	4.19	4.37	4.54	4.71	4.87	5.02	5.17	5.31	5.44	5.57	5.69	5.8	5.91	6.01	6.11	6.21	6.3	6.35	6.4	6.45	7.09	3.34		
50	0.7	0.73	0.77	0.8	0.84	0.87	0.91	0.94	0.97	1	1.03	1.06	1.09	1.11	1.14	1.16	1.18	1.2	1.22	1.24	1.26	1.27	1.28	1.29	1.42	0.67		
75	1.05	1.1	1.15	1.2	1.26	1.31	1.36	1.41	1.46	1.51	1.55	1.59	1.63	1.67	1.71	1.74	1.77	1.8	1.83	1.86	1.89	1.91	1.92	1.94	2.13	1		
100	1.4	1.46	1.53	1.6	1.68	1.75	1.82	1.88	1.95	2.01	2.07	2.12	2.18	2.23	2.27	2.32	2.36	2.41	2.44	2.48	2.52	2.54	2.56	2.58	2.84	1.34		
120	1.68	1.76	1.84	1.92	2.01	2.1	2.18	2.26	2.34	2.41	2.48	2.55	2.61	2.67	2.73	2.78	2.84	2.89	2.93	2.98	3.02	3.05	3.07	3.1	3.4	1.6		
140	1.96	2.05	2.15	2.24	2.35	2.45	2.54	2.64	2.73	2.81	2.9	2.97	3.05	3.12	3.18	3.25	3.31	3.37	3.42	3.48	3.53	3.56	3.59	3.61	3.97	1.87		
160	2.24	2.34	2.45	2.57	2.68	2.8	2.91	3.01	3.12	3.22	3.31	3.4	3.48	3.56	3.64	3.71	3.78	3.85	3.91	3.97	4.03	4.07	4.1	4.13	4.54	2.14		
180	2.52	2.63	2.76	2.89	3.02	3.15	3.27	3.39	3.51	3.62	3.72	3.82	3.92	4.01	4.09	4.17	4.25	4.33	4.4	4.47	4.54	4.57	4.61	4.64	5.11	2.41		
200	2.8	2.93	3.07	3.21	3.35	3.5	3.63	3.77	3.9	4.02	4.14	4.25	4.35	4.45	4.55	4.64	4.73	4.81	4.89	4.97	5.04	5.08	5.12	5.16	5.67	2.67		
210	2.94	3.07	3.22	3.37	3.52	3.67	3.81	3.96	4.09	4.22	4.34	4.46	4.57	4.68	4.78	4.87	4.96	5.05	5.13	5.22	5.29	5.34	5.38	5.42	5.96	2.81		
220	3.08	3.22	3.38	3.53	3.69	3.84	4	4.14	4.29	4.42	4.55	4.67	4.79	4.9	5	5.1	5.2	5.29	5.38	5.46	5.55	5.59	5.64	5.68	6.24	2.94		
230	3.22	3.37	3.53	3.69	3.86	4.02	4.18	4.33	4.48	4.62	4.76	4.88	5	5.12	5.23	5.33	5.43	5.53	5.62	5.71	5.8	5.85	5.89	5.94	6.53	3.08		
240	3.36	3.51	3.68	3.85	4.02	4.19	4.36	4.52	4.68	4.82	4.96	5.1	5.22	5.34	5.46	5.57	5.67	5.77	5.87	5.96	6.05	6.1	6.15	6.19	6.81	3.21		
250	3.5	3.66	3.84	4.01	4.19	4.37	4.54	4.71	4.87	5.02	5.17	5.31	5.44	5.57	5.69	5.8	5.91	6.01	6.11	6.21	6.3	6.35	6.4	6.45	7.09	3.34		
260	3.64	3.81	3.99	4.17	4.36	4.54	4.72	4.9	5.07	5.23	5.38	5.52	5.66	5.79	5.91	6.03	6.14	6.26	6.36	6.46	6.55	6.61	6.66	6.71	7.38	3.48		
270	3.78	3.95	4.14	4.33	4.53	4.72	4.9	5.09	5.26	5.43	5.58	5.73	5.88	6.01	6.14	6.26	6.38	6.5	6.6	6.71	6.81	6.86	6.92	6.97	7.66	3.61		
280	3.92	4.1	4.3	4.49	4.7	4.89	5.09	5.28	5.46	5.63	5.79	5.95	6.09	6.24	6.37	6.5	6.62	6.74	6.85	6.96	7.06	7.12	7.17	7.23	7.95	3.74		
290	4.06	4.24	4.45	4.65	4.86	5.07	5.27	5.46	5.65	5.83	6	6.16	6.31	6.46	6.6	6.73	6.85	6.98	7.09	7.2	7.31	7.37	7.43	7.48	8.23	3.88		
300	4.2	4.39	4.6	4.81	5.03	5.24	5.45	5.65	5.85	6.03	6.21	6.37	6.53	6.68	6.82	6.96	7.09	7.22	7.34	7.45	7.56	7.63	7.69	7.74	8.51	4.01		
310	4.34	4.54	4.76	4.97	5.2	5.42	5.63	5.84	6.04	6.23	6.41	6.58	6.75	6.9	7.05	7.19	7.33	7.46	7.58	7.7	7.82	7.88	7.94	8	8.8	4.15		
320	4.48	4.68	4.91	5.13	5.37	5.59	5.81	6.03	6.24	6.43	6.62	6.8	6.96	7.13	7.28	7.42	7.56	7.7	7.83	7.95	8.07	8.13	8.2	8.26	9.08	4.28		
330	4.62	4.83	5.06	5.29	5.53	5.77	5.99	6.22	6.43	6.63	6.83	7.01	7.18	7.35	7.51	7.66	7.8	7.94	8.07	8.2	8.32	8.39	8.46	8.52	9.37	4.41		
340	4.76	4.98	5.22	5.45	5.7	5.94	6.18	6.41	6.63	6.83	7.03	7.22	7.4	7.57	7.73	7.89	8.04	8.18	8.32	8.45	8.57	8.64	8.71	8.78	9.65	4.55		
350	4.9	5.12	5.37	5.61	5.87	6.12	6.36	6.59	6.82	7.03	7.24	7.43	7.62	7.8	7.96	8.12	8.27	8.42	8.56	8.7	8.82	8.9	8.97	9.03	9.94	4.68		

1098-05	GENERAL INFORMATION										
Sheet of	ENGINEERING NOTES AND SIGNAGE										
Rev: 03/26/2026	SAG & TENSION WITH TABLES										

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	52.00	2278.30	86.70

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength	4,380	Ruling Span (Feet)	250		RAVEN CREEP												Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																															
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194					
Tension (lbs)	1,490	1,338	1,208	1,092	995	913	846	786	738	695	659	626	598	573	550	530	516	506	497	489	481	473	465	458	451	373					
% Ultimate	34%	31%	28%	25%	23%	21%	19%	18%	17%	16%	15%	14%	14%	13%	13%	12%	12%	12%	11%	11%	11%	11%	11%	10%	10%	9%					
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)					
Ruling Span Sag	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	5'-8"					
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"					
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"					
100	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-11"					
120	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-1"	1'-4"					
140	0'-5"	0'-6"	0'-7"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-4"	1'-4"	1'-4"	1'-5"	1'-5"	1'-5"	1'-6"	1'-9"					
160	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-7"	1'-8"	1'-8"	1'-9"	1'-9"	1'-9"	1'-10"	1'-10"	1'-11"	1'-11"	2'-4"					
180	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-1"	2'-2"	2'-2"	2'-3"	2'-3"	2'-4"	2'-4"	2'-5"	2'-5"	2'-11"					
200	0'-11"	1'-0"	1'-1"	1'-3"	1'-4"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-7"	2'-8"	2'-8"	2'-9"	2'-10"	2'-10"	2'-11"	2'-11"	3'-0"	3'-7"					
210	1'-0"	1'-1"	1'-3"	1'-4"	1'-6"	1'-7"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-8"	2'-10"	2'-10"	2'-11"	3'-0"	3'-0"	3'-1"	3'-2"	3'-2"	3'-3"	3'-3"	4'-0"					
220	1'-1"	1'-3"	1'-4"	1'-6"	1'-8"	1'-9"	1'-11"	2'-1"	2'-2"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-2"	3'-3"	3'-3"	3'-4"	3'-5"	3'-5"	3'-6"	3'-7"	3'-7"	4'-4"					
230	1'-2"	1'-4"	1'-6"	1'-8"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-1"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-8"	3'-8"	3'-9"	3'-10"	3'-11"	3'-11"	4'-9"					
240	1'-4"	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-6"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"	4'-0"	4'-1"	4'-2"	4'-3"	4'-3"	5'-2"					
250	1'-5"	1'-7"	1'-9"	1'-11"	2'-1"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-1"	4'-2"	4'-3"	4'-4"	4'-4"	4'-5"	4'-6"	4'-7"	4'-8"	5'-8"					
260	1'-6"	1'-8"	1'-11"	2'-1"	2'-3"	2'-6"	2'-8"	2'-11"	3'-1"	3'-3"	3'-5"	3'-8"	3'-10"	4'-0"	4'-2"	4'-3"	4'-5"	4'-6"	4'-7"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"	5'-0"	6'-1"					
270	1'-8"	1'-10"	2'-0"	2'-3"	2'-6"	2'-8"	2'-11"	3'-1"	3'-4"	3'-6"	3'-9"	3'-11"	4'-1"	4'-3"	4'-6"	4'-8"	4'-9"	4'-10"	4'-11"	5'-0"	5'-1"	5'-2"	5'-3"	5'-4"	5'-5"	6'-7"					
280	1'-9"	2'-0"	2'-2"	2'-5"	2'-8"	2'-11"	3'-1"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-5"	4'-7"	4'-9"	5'-0"	5'-1"	5'-3"	5'-4"	5'-5"	5'-6"	5'-7"	5'-8"	5'-9"	5'-10"	7'-1"					
290	1'-11"	2'-1"	2'-4"	2'-7"	2'-10"	3'-1"	3'-4"	3'-7"	3'-10"	4'-1"	4'-3"	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-6"	5'-7"	5'-8"	5'-9"	5'-11"	6'-0"	6'-1"	6'-2"	6'-3"	7'-7"					
300	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	3'-4"	3'-7"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-3"	5'-6"	5'-9"	5'-10"	6'-0"	6'-1"	6'-2"	6'-3"	6'-5"	6'-6"	6'-7"	6'-8"	8'-1"					
310	2'-2"	2'-5"	2'-8"	3'-0"	3'-3"	3'-6"	3'-10"	4'-1"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	5'-10"	6'-1"	6'-3"	6'-5"	6'-6"	6'-7"	6'-9"	6'-10"	6'-11"	7'-1"	7'-2"	8'-8"					
320	2'-4"	2'-7"	2'-10"	3'-2"	3'-6"	3'-9"	4'-1"	4'-5"	4'-8"	4'-11"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-8"	6'-10"	6'-11"	7'-0"	7'-2"	7'-3"	7'-5"	7'-6"	7'-8"	9'-3"					
330	2'-6"	2'-9"	3'-0"	3'-4"	3'-8"	4'-0"	4'-4"	4'-8"	5'-0"	5'-3"	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-1"	7'-3"	7'-4"	7'-6"	7'-7"	7'-9"	7'-10"	8'-0"	8'-1"	9'-10"					
340	2'-7"	2'-11"	3'-3"	3'-7"	3'-11"	4'-3"	4'-7"	4'-11"	5'-3"	5'-7"	5'-11"	6'-3"	6'-6"	6'-9"	7'-1"	7'-4"	7'-6"	7'-8"	7'-10"	7'-11"	8'-1"	8'-3"	8'-4"	8'-6"	8'-7"	10'-5"					
350	2'-9"	3'-1"	3'-5"	3'-9"	4'-2"	4'-6"	4'-10"	5'-3"	5'-7"	5'-11"	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	8'-2"	8'-3"	8'-5"	8'-7"	8'-9"	8'-10"	9'-0"	9'-2"	11'-0"					

1098-05	GENERAL INFORMATION																	
Sheet of	ENGINEERING NOTES AND SIGNAGE																	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES																	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	52.00	2278.30	86.70

Conductor 1/0 AWG Covered ACSR - Raven											Weight (Lb/Ft)		0.728	Rated Breaking Strength		4,380	Ruling Span (Feet)	250		RAVEN CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	194		
Tension (lbs)	1,490	1,338	1,208	1,092	995	913	846	786	738	695	659	626	598	573	550	530	516	506	497	489	481	473	465	458	451	373		
% Ultimate	34%	31%	28%	25%	23%	21%	19%	18%	17%	16%	15%	14%	14%	13%	13%	12%	12%	12%	11%	11%	11%	11%	11%	10%	10%	9%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	3.75	3.94	4.15	4.34	4.53	4.71	4.89	5.05	5.2	5.34	5.48	5.61	5.73	5.85	5.96	6.04	6.09	6.15	6.2	6.25	6.3	6.35	6.4	6.45	7.1	3.55		
50	0.75	0.79	0.83	0.87	0.91	0.94	0.98	1.01	1.04	1.07	1.1	1.12	1.15	1.17	1.19	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.42	0.71		
75	1.12	1.18	1.24	1.3	1.36	1.41	1.47	1.51	1.56	1.6	1.64	1.68	1.72	1.75	1.79	1.81	1.83	1.84	1.86	1.88	1.89	1.91	1.92	1.94	2.13	1.07		
100	1.5	1.58	1.66	1.74	1.81	1.88	1.95	2.02	2.08	2.14	2.19	2.24	2.29	2.34	2.38	2.41	2.44	2.46	2.48	2.5	2.52	2.54	2.56	2.58	2.84	1.42		
120	1.8	1.89	1.99	2.09	2.18	2.26	2.35	2.42	2.5	2.56	2.63	2.69	2.75	2.81	2.86	2.9	2.92	2.95	2.98	3	3.03	3.05	3.07	3.1	3.41	1.7		
140	2.1	2.21	2.32	2.43	2.54	2.64	2.74	2.83	2.91	2.99	3.07	3.14	3.21	3.27	3.33	3.38	3.41	3.44	3.47	3.5	3.53	3.56	3.59	3.61	3.97	1.99		
160	2.4	2.52	2.65	2.78	2.9	3.02	3.13	3.23	3.33	3.42	3.51	3.59	3.66	3.74	3.81	3.86	3.9	3.93	3.97	4	4.03	4.07	4.1	4.13	4.54	2.27		
180	2.7	2.84	2.99	3.13	3.27	3.39	3.52	3.63	3.74	3.84	3.94	4.04	4.12	4.21	4.29	4.35	4.39	4.43	4.46	4.5	4.54	4.57	4.61	4.64	5.11	2.56		
200	3	3.16	3.32	3.48	3.63	3.77	3.91	4.04	4.16	4.27	4.38	4.49	4.58	4.68	4.76	4.83	4.87	4.92	4.96	5	5.04	5.08	5.12	5.16	5.68	2.84		
210	3.15	3.31	3.48	3.65	3.81	3.96	4.11	4.24	4.37	4.49	4.6	4.71	4.81	4.91	5	5.07	5.12	5.16	5.21	5.25	5.3	5.34	5.38	5.42	5.96	2.98		
220	3.3	3.47	3.65	3.82	3.99	4.15	4.3	4.44	4.58	4.7	4.82	4.93	5.04	5.14	5.24	5.31	5.36	5.41	5.46	5.5	5.55	5.59	5.64	5.68	6.24	3.12		
230	3.45	3.63	3.82	4	4.17	4.33	4.5	4.64	4.78	4.91	5.04	5.16	5.27	5.38	5.48	5.55	5.6	5.65	5.7	5.75	5.8	5.85	5.89	5.94	6.53	3.27		
240	3.6	3.79	3.98	4.17	4.35	4.52	4.69	4.84	4.99	5.13	5.26	5.38	5.5	5.61	5.72	5.79	5.85	5.9	5.95	6	6.05	6.1	6.15	6.19	6.81	3.41		
250	3.75	3.94	4.15	4.34	4.53	4.71	4.89	5.05	5.2	5.34	5.48	5.61	5.73	5.85	5.96	6.04	6.09	6.15	6.2	6.25	6.3	6.35	6.4	6.45	7.1	3.55		
260	3.9	4.1	4.31	4.52	4.72	4.9	5.08	5.25	5.41	5.55	5.7	5.83	5.96	6.08	6.19	6.28	6.34	6.39	6.45	6.5	6.56	6.61	6.66	6.71	7.38	3.69		
270	4.05	4.26	4.48	4.69	4.9	5.09	5.28	5.45	5.62	5.77	5.92	6.06	6.19	6.31	6.43	6.52	6.58	6.64	6.7	6.75	6.81	6.86	6.92	6.97	7.66	3.83		
280	4.2	4.42	4.64	4.87	5.08	5.28	5.47	5.65	5.82	5.98	6.14	6.28	6.41	6.55	6.67	6.76	6.82	6.88	6.94	7	7.06	7.12	7.17	7.23	7.95	3.98		
290	4.35	4.57	4.81	5.04	5.26	5.47	5.67	5.85	6.03	6.19	6.36	6.5	6.64	6.78	6.91	7	7.07	7.13	7.19	7.25	7.31	7.37	7.43	7.48	8.23	4.12		
300	4.5	4.73	4.98	5.21	5.44	5.65	5.87	6.06	6.24	6.41	6.57	6.73	6.87	7.01	7.15	7.24	7.31	7.38	7.44	7.5	7.57	7.63	7.69	7.74	8.52	4.26		
310	4.65	4.89	5.14	5.39	5.62	5.84	6.06	6.26	6.45	6.62	6.79	6.95	7.1	7.25	7.39	7.48	7.56	7.62	7.69	7.75	7.82	7.88	7.94	8	8.8	4.4		
320	4.8	5.05	5.31	5.56	5.8	6.03	6.26	6.46	6.66	6.84	7.01	7.18	7.33	7.48	7.62	7.73	7.8	7.87	7.94	8	8.07	8.13	8.2	8.26	9.09	4.54		
330	4.95	5.21	5.47	5.73	5.99	6.22	6.45	6.66	6.87	7.05	7.23	7.4	7.56	7.72	7.86	7.97	8.04	8.11	8.19	8.25	8.32	8.39	8.46	8.52	9.37	4.69		
340	5.1	5.36	5.64	5.91	6.17	6.41	6.65	6.86	7.07	7.26	7.45	7.63	7.79	7.95	8.1	8.21	8.29	8.36	8.43	8.5	8.58	8.64	8.71	8.78	9.65	4.83		
350	5.25	5.52	5.81	6.08	6.35	6.6	6.84	7.07	7.28	7.48	7.67	7.85	8.02	8.18	8.34	8.45	8.53	8.61	8.68	8.75	8.83	8.9	8.97	9.03	9.94	4.97		

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	SAG & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5097.20	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	145	ARBUTUS INITIAL												Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension													Strength																	
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188					
Tension (lbs)	5,473	5,261	5,052	4,838	4,627	4,412	4,194	3,979	3,766	3,550	3,337	3,133	2,929	2,736	2,550	2,378	2,217	2,065	1,931	1,810	1,699	1,602	1,515	1,436	1,368	867					
% Ultimate	35%	34%	32%	31%	30%	28%	27%	26%	24%	23%	21%	20%	19%	18%	16%	15%	14%	13%	12%	12%	11%	10%	10%	9%	9%	6%					
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)					
Ruling Span Sag	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	3'-2"					
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-5"					
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-10"					
100	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-6"					
120	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	2'-2"					
140	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	3'-0"					
160	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	3'-10"					
180	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-8"	1'-9"	1'-11"	2'-1"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	2'-11"	3'-1"	4'-11"					
200	1'-0"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-1"	2'-2"	2'-4"	2'-6"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-8"	3'-10"	6'-0"					
210	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	3'-0"	3'-2"	3'-5"	3'-7"	3'-10"	4'-0"	4'-3"	6'-8"					
220	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-1"	3'-3"	3'-6"	3'-9"	3'-11"	4'-2"	4'-5"	4'-8"	7'-4"					
230	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-3"	2'-4"	2'-6"	2'-9"	2'-11"	3'-1"	3'-4"	3'-7"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	8'-0"					
240	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-9"	3'-0"	3'-2"	3'-5"	3'-8"	3'-11"	4'-2"	4'-5"	4'-9"	5'-0"	5'-3"	5'-6"	8'-9"					
250	1'-6"	1'-7"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-10"	3'-0"	3'-3"	3'-5"	3'-8"	4'-0"	4'-3"	4'-6"	4'-10"	5'-1"	5'-5"	5'-8"	6'-0"	9'-5"					
260	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-7"	4'-11"	5'-3"	5'-6"	5'-10"	6'-2"	6'-6"	10'-3"					
270	1'-9"	1'-10"	1'-10"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-10"	3'-1"	3'-3"	3'-6"	3'-9"	4'-0"	4'-4"	4'-8"	4'-11"	5'-3"	5'-8"	6'-0"	6'-4"	6'-8"	7'-0"	11'-0"					
280	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-9"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	6'-1"	6'-5"	6'-9"	7'-2"	7'-6"	11'-10"					
290	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-4"	3'-6"	3'-9"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	5'-9"	6'-1"	6'-6"	6'-11"	7'-3"	7'-8"	8'-1"	12'-9"					
300	2'-2"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-9"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	5'-9"	6'-1"	6'-6"	6'-11"	7'-4"	7'-9"	8'-3"	8'-8"	13'-7"					
310	2'-4"	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-4"	4'-7"	4'-11"	5'-3"	5'-8"	6'-1"	6'-6"	7'-0"	7'-5"	7'-10"	8'-4"	8'-9"	9'-3"	14'-6"					
320	2'-5"	2'-7"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-7"	4'-11"	5'-3"	5'-8"	6'-1"	6'-6"	6'-11"	7'-5"	7'-11"	8'-4"	8'-10"	9'-4"	9'-10"	15'-6"					
330	2'-7"	2'-9"	2'-10"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-3"	4'-7"	4'-10"	5'-3"	5'-7"	6'-0"	6'-5"	6'-11"	7'-5"	7'-11"	8'-5"	8'-11"	9'-5"	9'-11"	10'-5"	16'-6"					
340	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-10"	4'-0"	4'-3"	4'-6"	4'-10"	5'-2"	5'-6"	5'-11"	6'-4"	6'-10"	7'-4"	7'-10"	8'-4"	8'-11"	9'-5"	10'-0"	10'-7"	11'-1"	17'-6"					
350	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-3"	4'-6"	4'-10"	5'-2"	5'-6"	5'-11"	6'-4"	6'-9"	7'-3"	7'-9"	8'-4"	8'-11"	9'-6"	10'-0"	10'-7"	11'-2"	11'-9"	18'-7"					

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5097.20	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	145		ARBUTUS INITIAL								Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	5,473	5,261	5,052	4,838	4,627	4,412	4,194	3,979	3,766	3,550	3,337	3,133	2,929	2,736	2,550	2,378	2,217	2,065	1,931	1,810	1,699	1,602	1,515	1,436	1,368	867		
% Ultimate	35%	34%	32%	31%	30%	28%	27%	26%	24%	23%	21%	20%	19%	18%	16%	15%	14%	13%	12%	12%	11%	10%	10%	9%	9%	6%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	2.16	2.21	2.25	2.31	2.36	2.42	2.49	2.56	2.63	2.71	2.8	2.9	3	3.11	3.22	3.33	3.45	3.57	3.69	3.8	3.92	4.03	4.14	4.24	5.33	2.12		
50	0.75	0.76	0.78	0.79	0.81	0.83	0.86	0.88	0.91	0.94	0.97	1	1.03	1.07	1.11	1.15	1.19	1.23	1.27	1.31	1.35	1.39	1.43	1.46	1.84	0.73		
75	1.12	1.14	1.17	1.19	1.22	1.25	1.29	1.32	1.36	1.4	1.45	1.5	1.55	1.61	1.66	1.72	1.78	1.85	1.91	1.97	2.03	2.08	2.14	2.19	2.75	1.1		
100	1.49	1.52	1.55	1.59	1.63	1.67	1.71	1.76	1.82	1.87	1.93	2	2.07	2.14	2.22	2.3	2.38	2.46	2.54	2.62	2.7	2.78	2.85	2.92	3.67	1.46		
120	1.79	1.83	1.87	1.91	1.95	2	2.06	2.11	2.18	2.25	2.32	2.4	2.48	2.57	2.66	2.76	2.86	2.95	3.05	3.15	3.24	3.33	3.42	3.51	4.41	1.75		
140	2.09	2.13	2.18	2.23	2.28	2.34	2.4	2.47	2.54	2.62	2.71	2.8	2.89	3	3.11	3.22	3.33	3.45	3.56	3.67	3.78	3.89	4	4.09	5.14	2.05		
160	2.39	2.43	2.49	2.54	2.6	2.67	2.74	2.82	2.9	3	3.09	3.2	3.31	3.43	3.55	3.68	3.81	3.94	4.07	4.2	4.32	4.45	4.57	4.68	5.88	2.34		
180	2.68	2.74	2.8	2.86	2.93	3.01	3.09	3.17	3.27	3.37	3.48	3.6	3.72	3.86	3.99	4.13	4.28	4.43	4.58	4.72	4.86	5	5.14	5.26	6.61	2.63		
200	2.98	3.04	3.11	3.18	3.26	3.34	3.43	3.52	3.63	3.74	3.86	4	4.14	4.28	4.44	4.59	4.76	4.92	5.08	5.25	5.4	5.56	5.71	5.85	7.35	2.92		
210	3.13	3.2	3.26	3.34	3.42	3.51	3.6	3.7	3.81	3.93	4.06	4.2	4.34	4.5	4.66	4.82	5	5.17	5.34	5.51	5.67	5.84	5.99	6.14	7.72	3.07		
220	3.28	3.35	3.42	3.5	3.58	3.67	3.77	3.88	3.99	4.12	4.25	4.4	4.55	4.71	4.88	5.05	5.24	5.41	5.59	5.77	5.95	6.11	6.28	6.43	8.09	3.22		
230	3.43	3.5	3.58	3.66	3.74	3.84	3.94	4.05	4.17	4.31	4.44	4.6	4.76	4.93	5.1	5.28	5.47	5.66	5.85	6.04	6.22	6.39	6.56	6.73	8.45	3.36		
240	3.58	3.65	3.73	3.82	3.91	4.01	4.12	4.24	4.36	4.5	4.64	4.8	4.97	5.15	5.33	5.52	5.72	5.91	6.11	6.3	6.49	6.68	6.85	7.03	8.82	3.51		
250	3.73	3.81	3.89	3.98	4.08	4.18	4.29	4.41	4.54	4.69	4.84	5	5.18	5.36	5.55	5.75	5.96	6.16	6.36	6.57	6.76	6.96	7.14	7.32	9.19	3.66		
260	3.88	3.96	4.04	4.14	4.24	4.34	4.46	4.59	4.72	4.87	5.03	5.2	5.38	5.58	5.77	5.98	6.19	6.4	6.62	6.83	7.03	7.23	7.43	7.62	9.56	3.8		
270	4.03	4.11	4.2	4.3	4.4	4.51	4.63	4.77	4.91	5.06	5.22	5.4	5.59	5.79	5.99	6.21	6.43	6.65	6.87	7.09	7.3	7.51	7.71	7.91	9.93	3.95		
280	4.18	4.26	4.36	4.45	4.56	4.68	4.8	4.94	5.09	5.25	5.42	5.6	5.8	6.01	6.22	6.44	6.67	6.9	7.13	7.36	7.57	7.79	8	8.2	10.3	4.09		
290	4.33	4.42	4.51	4.61	4.73	4.85	4.98	5.12	5.27	5.43	5.61	5.8	6	6.22	6.44	6.67	6.91	7.14	7.38	7.62	7.84	8.07	8.28	8.49	10.67	4.24		
300	4.48	4.57	4.67	4.77	4.89	5.01	5.15	5.3	5.45	5.62	5.8	6	6.21	6.43	6.66	6.9	7.15	7.39	7.63	7.88	8.11	8.35	8.57	8.79	11.04	4.39		
310	4.62	4.72	4.82	4.93	5.05	5.18	5.32	5.47	5.63	5.81	6	6.2	6.42	6.65	6.88	7.13	7.39	7.64	7.89	8.14	8.38	8.63	8.86	9.08	11.4	4.53		
320	4.77	4.87	4.98	5.09	5.22	5.35	5.49	5.65	5.81	6	6.19	6.4	6.62	6.86	7.1	7.36	7.62	7.88	8.14	8.41	8.65	8.91	9.14	9.37	11.77	4.68		
330	4.92	5.02	5.13	5.25	5.38	5.51	5.66	5.83	6	6.18	6.38	6.6	6.83	7.08	7.33	7.59	7.86	8.13	8.4	8.67	8.93	9.18	9.43	9.67	12.14	4.83		
340	5.07	5.18	5.29	5.41	5.54	5.68	5.83	6	6.18	6.37	6.58	6.8	7.04	7.29	7.55	7.82	8.1	8.38	8.65	8.93	9.2	9.46	9.71	9.96	12.51	4.97		
350	5.22	5.33	5.45	5.57	5.71	5.85	6.01	6.18	6.36	6.57	6.78	7.01	7.25	7.51	7.78	8.07	8.35	8.63	8.92	9.21	9.48	9.75	10.01	10.26	12.88	5.12		

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.60	4299.30	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	145		ARBUTUS CREEP										Eng. Use: MOT
Condition Creep Sag & Tension																			Temp (°F)										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188			
Tension (lbs)	4,696	4,394	4,099	3,804	3,526	3,264	3,011	2,774	2,553	2,353	2,174	2,015	1,872	1,746	1,639	1,544	1,459	1,384	1,318	1,259	1,205	1,159	1,116	1,077	1,042	751			
% Ultimate	30%	28%	26%	24%	23%	21%	19%	18%	16%	15%	14%	13%	12%	11%	11%	10%	9%	9%	8%	8%	8%	7%	7%	7%	7%	5%			
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)			
Ruling Span Sag	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-8"	3'-8"			
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-5"			
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	1'-0"			
100	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-9"			
120	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-8"	1'-9"	1'-10"	2'-6"			
140	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	3'-5"			
160	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-1"	3'-3"	4'-6"			
180	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-4"	1'-5"	1'-6"	1'-8"	1'-10"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-4"	3'-6"	3'-8"	3'-10"	3'-11"	4'-1"	5'-8"			
200	1'-1"	1'-2"	1'-3"	1'-4"	1'-6"	1'-7"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	4'-10"	5'-0"	7'-0"			
210	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-8"	2'-10"	3'-1"	3'-4"	3'-6"	3'-9"	3'-11"	4'-2"	4'-5"	4'-7"	4'-9"	5'-0"	5'-2"	5'-4"	5'-6"	7'-8"			
220	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-11"	2'-1"	2'-3"	2'-6"	2'-8"	2'-11"	3'-2"	3'-5"	3'-8"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-1"	8'-5"			
230	1'-6"	1'-7"	1'-8"	1'-10"	2'-0"	2'-1"	2'-4"	2'-6"	2'-9"	2'-11"	3'-2"	3'-5"	3'-8"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-2"	6'-5"	6'-8"	9'-3"			
240	1'-7"	1'-9"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-9"	3'-0"	3'-2"	3'-6"	3'-9"	4'-0"	4'-4"	4'-7"	4'-11"	5'-2"	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	10'-1"			
250	1'-9"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-9"	2'-11"	3'-3"	3'-6"	3'-9"	4'-1"	4'-4"	4'-8"	5'-0"	5'-4"	5'-7"	5'-11"	6'-3"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-10"	10'-11"			
260	1'-11"	2'-0"	2'-2"	2'-4"	2'-6"	2'-9"	2'-11"	3'-2"	3'-6"	3'-9"	4'-1"	4'-5"	4'-9"	5'-1"	5'-5"	5'-9"	6'-1"	6'-5"	6'-9"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	11'-10"			
270	2'-0"	2'-2"	2'-4"	2'-6"	2'-9"	2'-11"	3'-2"	3'-5"	3'-9"	4'-1"	4'-5"	4'-9"	5'-1"	5'-6"	5'-10"	6'-2"	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	12'-9"			
280	2'-2"	2'-4"	2'-6"	2'-8"	2'-11"	3'-2"	3'-5"	3'-8"	4'-0"	4'-4"	4'-9"	5'-1"	5'-6"	5'-11"	6'-3"	6'-8"	7'-0"	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-3"	9'-7"	9'-10"	13'-8"			
290	2'-4"	2'-6"	2'-8"	2'-11"	3'-1"	3'-5"	3'-8"	4'-0"	4'-4"	4'-8"	5'-1"	5'-6"	5'-11"	6'-4"	6'-9"	7'-2"	7'-7"	8'-0"	8'-4"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	10'-7"	14'-8"			
300	2'-6"	2'-8"	2'-11"	3'-1"	3'-4"	3'-7"	3'-11"	4'-3"	4'-7"	5'-0"	5'-5"	5'-10"	6'-3"	6'-9"	7'-2"	7'-8"	8'-1"	8'-6"	8'-11"	9'-4"	9'-9"	10'-2"	10'-7"	11'-0"	11'-4"	15'-9"			
310	2'-8"	2'-10"	3'-1"	3'-4"	3'-7"	3'-10"	4'-2"	4'-6"	4'-11"	5'-4"	5'-9"	6'-3"	6'-9"	7'-3"	7'-8"	8'-2"	8'-8"	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-4"	11'-8"	12'-1"	16'-10"			
320	2'-10"	3'-1"	3'-3"	3'-6"	3'-10"	4'-1"	4'-6"	4'-10"	5'-3"	5'-8"	6'-2"	6'-8"	7'-2"	7'-8"	8'-2"	8'-8"	9'-2"	9'-8"	10'-2"	10'-8"	11'-2"	11'-7"	12'-0"	12'-6"	12'-11"	17'-11"			
330	3'-0"	3'-3"	3'-6"	3'-9"	4'-1"	4'-4"	4'-9"	5'-2"	5'-7"	6'-1"	6'-7"	7'-1"	7'-7"	8'-2"	8'-9"	9'-3"	9'-9"	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	19'-1"			
340	3'-3"	3'-5"	3'-8"	4'-0"	4'-3"	4'-8"	5'-0"	5'-6"	5'-11"	6'-5"	7'-0"	7'-6"	8'-1"	8'-8"	9'-3"	9'-10"	10'-5"	10'-11"	11'-6"	12'-0"	12'-7"	13'-1"	13'-7"	14'-1"	14'-7"	20'-3"			
350	3'-5"	3'-8"	3'-11"	4'-3"	4'-7"	4'-11"	5'-4"	5'-10"	6'-4"	6'-10"	7'-5"	8'-0"	8'-7"	9'-3"	9'-10"	10'-5"	11'-0"	11'-7"	12'-2"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	21'-5"			

1098-05	GENERAL INFORMATION											
Sheet of	ENGINEERING NOTES AND SIGNAGE											
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES											

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.60	4299.30	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	145		ARBUTUS CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	4,696	4,394	4,099	3,804	3,526	3,264	3,011	2,774	2,553	2,353	2,174	2,015	1,872	1,746	1,639	1,544	1,459	1,384	1,318	1,259	1,205	1,159	1,116	1,077	1,042	751		
% Ultimate	30%	28%	26%	24%	23%	21%	19%	18%	16%	15%	14%	13%	12%	11%	11%	10%	9%	9%	8%	8%	8%	7%	7%	7%	7%	5%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	2.37	2.45	2.54	2.64	2.74	2.86	2.98	3.1	3.23	3.36	3.49	3.62	3.75	3.87	3.99	4.11	4.22	4.32	4.42	4.52	4.61	4.7	4.78	4.86	5.73	2.29		
50	0.82	0.84	0.88	0.91	0.95	0.99	1.03	1.07	1.11	1.16	1.2	1.25	1.29	1.34	1.38	1.42	1.45	1.49	1.52	1.56	1.59	1.62	1.65	1.68	1.97	0.79		
75	1.22	1.27	1.31	1.37	1.42	1.48	1.54	1.61	1.67	1.74	1.81	1.87	1.94	2	2.06	2.12	2.18	2.23	2.29	2.34	2.38	2.43	2.47	2.51	2.96	1.18		
100	1.63	1.69	1.75	1.82	1.89	1.97	2.05	2.14	2.23	2.32	2.41	2.5	2.59	2.67	2.75	2.83	2.91	2.98	3.05	3.12	3.18	3.24	3.3	3.35	3.95	1.58		
120	1.96	2.03	2.1	2.19	2.27	2.37	2.46	2.57	2.68	2.78	2.89	3	3.11	3.21	3.3	3.4	3.49	3.58	3.66	3.74	3.81	3.89	3.95	4.02	4.74	1.89		
140	2.28	2.36	2.45	2.55	2.65	2.76	2.87	3	3.12	3.25	3.37	3.5	3.62	3.74	3.85	3.96	4.07	4.17	4.27	4.36	4.45	4.53	4.61	4.69	5.53	2.21		
160	2.61	2.7	2.81	2.91	3.03	3.15	3.29	3.42	3.57	3.71	3.86	4	4.14	4.27	4.4	4.53	4.65	4.77	4.88	4.98	5.08	5.18	5.27	5.36	6.32	2.52		
180	2.94	3.04	3.16	3.28	3.41	3.55	3.7	3.85	4.01	4.18	4.34	4.5	4.66	4.81	4.96	5.1	5.23	5.36	5.49	5.61	5.72	5.83	5.93	6.03	7.11	2.84		
200	3.26	3.38	3.51	3.64	3.79	3.94	4.11	4.28	4.46	4.64	4.82	5	5.18	5.34	5.51	5.66	5.82	5.96	6.1	6.23	6.36	6.48	6.59	6.7	7.9	3.16		
210	3.43	3.55	3.68	3.82	3.97	4.14	4.31	4.49	4.68	4.87	5.06	5.25	5.44	5.61	5.78	5.95	6.11	6.26	6.4	6.54	6.67	6.8	6.92	7.04	8.3	3.31		
220	3.59	3.72	3.86	4.01	4.16	4.34	4.52	4.71	4.9	5.1	5.3	5.5	5.69	5.88	6.06	6.23	6.4	6.56	6.71	6.86	6.99	7.13	7.25	7.38	8.69	3.47		
230	3.75	3.89	4.03	4.19	4.35	4.53	4.72	4.92	5.13	5.34	5.54	5.75	5.95	6.15	6.33	6.51	6.69	6.85	7.01	7.17	7.31	7.45	7.58	7.71	9.09	3.63		
240	3.92	4.06	4.21	4.37	4.55	4.73	4.93	5.14	5.35	5.57	5.79	6	6.22	6.42	6.61	6.8	6.98	7.16	7.32	7.48	7.63	7.78	7.92	8.05	9.49	3.79		
250	4.08	4.23	4.39	4.56	4.74	4.93	5.14	5.36	5.58	5.8	6.03	6.25	6.47	6.69	6.89	7.09	7.27	7.46	7.63	7.79	7.95	8.1	8.25	8.39	9.88	3.95		
260	4.24	4.39	4.56	4.74	4.93	5.13	5.34	5.57	5.8	6.03	6.27	6.5	6.73	6.96	7.16	7.37	7.57	7.75	7.93	8.1	8.27	8.43	8.58	8.72	10.28	4.11		
270	4.41	4.56	4.74	4.92	5.12	5.33	5.55	5.79	6.02	6.27	6.52	6.75	6.99	7.22	7.44	7.65	7.86	8.05	8.24	8.42	8.59	8.75	8.91	9.06	10.67	4.26		
280	4.57	4.73	4.91	5.1	5.3	5.52	5.76	6	6.25	6.5	6.76	7	7.25	7.49	7.71	7.94	8.15	8.35	8.54	8.73	8.9	9.08	9.24	9.4	11.07	4.42		
290	4.73	4.9	5.09	5.29	5.49	5.72	5.96	6.21	6.47	6.73	7	7.25	7.51	7.76	7.99	8.22	8.44	8.65	8.85	9.04	9.22	9.4	9.57	9.73	11.47	4.58		
300	4.9	5.07	5.26	5.47	5.68	5.92	6.17	6.43	6.69	6.96	7.24	7.5	7.77	8.03	8.27	8.5	8.73	8.95	9.15	9.35	9.54	9.73	9.9	10.07	11.86	4.74		
310	5.06	5.24	5.44	5.65	5.87	6.12	6.37	6.64	6.91	7.19	7.48	7.75	8.03	8.29	8.54	8.79	9.02	9.25	9.46	9.67	9.86	10.05	10.23	10.41	12.26	4.9		
320	5.22	5.41	5.62	5.83	6.06	6.31	6.58	6.86	7.14	7.43	7.72	8	8.29	8.56	8.82	9.07	9.31	9.55	9.76	9.98	10.18	10.38	10.56	10.74	12.66	5.05		
330	5.39	5.58	5.79	6.02	6.25	6.51	6.78	7.07	7.36	7.66	7.96	8.25	8.55	8.83	9.09	9.35	9.6	9.84	10.07	10.29	10.5	10.7	10.89	11.08	13.06	5.21		
340	5.55	5.75	5.97	6.2	6.44	6.71	6.99	7.29	7.58	7.89	8.21	8.5	8.81	9.1	9.37	9.64	9.9	10.14	10.38	10.6	10.82	11.03	11.22	11.41	13.45	5.37		
350	5.72	5.92	6.14	6.38	6.64	6.91	7.2	7.51	7.81	8.13	8.45	8.76	9.07	9.36	9.65	9.93	10.19	10.45	10.69	10.92	11.14	11.35	11.56	11.75	13.85	5.53		

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	SAG & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5097.40	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	160		ARBUTUS INITIAL										Eng. Use: MOT							
Condition	Initial Sag & Tension																			Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188											
Tension (lbs)	5,415	5,208	5,002	4,788	4,576	4,367	4,154	3,943	3,730	3,525	3,318	3,120	2,932	2,749	2,572	2,407	2,257	2,118	1,992	1,875	1,771	1,678	1,595	1,518	1,450	942											
% Ultimate	35%	33%	32%	31%	29%	28%	27%	25%	24%	23%	21%	20%	19%	18%	16%	15%	14%	14%	13%	12%	11%	11%	10%	10%	9%	6%											
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)											
Ruling Span Sag	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	3'-7"											
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-4"											
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-9"											
100	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-5"											
120	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	2'-0"											
140	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	2'-9"											
160	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	3'-7"											
180	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	4'-6"											
200	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	5'-7"											
210	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-10"	4'-0"	6'-2"											
220	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-10"	1'-11"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	6'-9"											
230	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-1"	3'-3"	3'-6"	3'-8"	3'-11"	4'-1"	4'-4"	4'-7"	4'-9"	7'-4"												
240	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-2"	3'-4"	3'-7"	3'-10"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-2"	8'-0"											
250	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-4"	2'-6"	2'-7"	2'-9"	3'-0"	3'-2"	3'-5"	3'-8"	3'-10"	4'-1"	4'-4"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	8'-8"											
260	1'-8"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-3"	3'-5"	3'-8"	3'-11"	4'-2"	4'-5"	4'-9"	5'-0"	5'-3"	5'-7"	5'-10"	6'-1"	9'-5"											
270	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-10"	5'-1"	5'-5"	5'-8"	6'-0"	6'-3"	6'-7"	10'-2"											
280	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-11"	3'-1"	3'-4"	3'-6"	3'-9"	4'-0"	4'-3"	4'-7"	4'-10"	5'-2"	5'-6"	5'-10"	6'-2"	6'-5"	6'-9"	7'-1"	10'-11"											
290	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-4"	3'-6"	3'-9"	4'-0"	4'-3"	4'-7"	4'-11"	5'-3"	5'-6"	5'-11"	6'-3"	6'-7"	6'-11"	7'-3"	7'-7"	11'-9"											
300	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-7"	4'-11"	5'-3"	5'-7"	5'-11"	6'-3"	6'-8"	7'-0"	7'-5"	7'-9"	8'-2"	12'-6"											
310	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-4"	4'-7"	4'-11"	5'-3"	5'-7"	5'-11"	6'-4"	6'-9"	7'-1"	7'-6"	7'-11"	8'-4"	8'-8"	13'-5"											
320	2'-6"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-10"	4'-0"	4'-4"	4'-7"	4'-11"	5'-3"	5'-7"	5'-11"	6'-4"	6'-9"	7'-2"	7'-7"	8'-0"	8'-5"	8'-10"	9'-3"	14'-3"											
330	2'-8"	2'-9"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-7"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-2"	5'-7"	5'-11"	6'-4"	6'-9"	7'-2"	7'-7"	8'-1"	8'-6"	9'-0"	9'-5"	9'-10"	15'-2"											
340	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-2"	5'-6"	5'-11"	6'-4"	6'-9"	7'-2"	7'-7"	8'-1"	8'-7"	9'-0"	9'-6"	10'-0"	10'-5"	16'-1"											
350	3'-0"	3'-1"	3'-3"	3'-4"	3'-6"	3'-8"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-2"	5'-6"	5'-10"	6'-3"	6'-8"	7'-2"	7'-7"	8'-1"	8'-7"	9'-1"	9'-7"	10'-1"	10'-7"	11'-1"	17'-1"											

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5097.40	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	160		ARBUS INITIAL								Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	5,415	5,208	5,002	4,788	4,576	4,367	4,154	3,943	3,730	3,525	3,318	3,120	2,932	2,749	2,572	2,407	2,257	2,118	1,992	1,875	1,771	1,678	1,595	1,518	1,450	942		
% Ultimate	35%	33%	32%	31%	29%	28%	27%	25%	24%	23%	21%	20%	19%	18%	16%	15%	14%	14%	13%	12%	11%	11%	10%	10%	9%	6%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	2.4	2.45	2.5	2.56	2.62	2.68	2.76	2.83	2.91	3	3.1	3.2	3.3	3.41	3.53	3.64	3.76	3.88	4	4.11	4.22	4.33	4.44	4.54	5.64	2.35		
50	0.75	0.76	0.78	0.8	0.82	0.84	0.86	0.89	0.91	0.94	0.97	1	1.03	1.07	1.1	1.14	1.17	1.21	1.25	1.29	1.32	1.35	1.39	1.42	1.76	0.73		
75	1.12	1.15	1.17	1.2	1.23	1.26	1.29	1.33	1.37	1.41	1.45	1.5	1.55	1.6	1.65	1.71	1.76	1.82	1.87	1.93	1.98	2.03	2.08	2.13	2.64	1.1		
100	1.5	1.53	1.56	1.6	1.64	1.68	1.72	1.77	1.82	1.88	1.94	2	2.06	2.13	2.2	2.28	2.35	2.42	2.5	2.57	2.64	2.71	2.78	2.84	3.52	1.47		
120	1.8	1.83	1.88	1.92	1.96	2.01	2.07	2.12	2.19	2.25	2.32	2.4	2.48	2.56	2.65	2.73	2.82	2.91	3	3.08	3.17	3.25	3.33	3.41	4.23	1.76		
140	2.1	2.14	2.19	2.24	2.29	2.35	2.41	2.48	2.55	2.63	2.71	2.8	2.89	2.99	3.09	3.19	3.29	3.39	3.5	3.6	3.7	3.79	3.89	3.98	4.93	2.06		
160	2.4	2.45	2.5	2.56	2.62	2.68	2.76	2.83	2.91	3	3.1	3.2	3.3	3.41	3.53	3.64	3.76	3.88	4	4.11	4.22	4.33	4.44	4.54	5.64	2.35		
180	2.7	2.75	2.81	2.88	2.95	3.02	3.1	3.19	3.28	3.38	3.48	3.59	3.71	3.84	3.97	4.1	4.23	4.36	4.5	4.63	4.75	4.88	5	5.11	6.34	2.65		
200	3	3.06	3.13	3.2	3.27	3.36	3.44	3.54	3.64	3.75	3.87	3.99	4.13	4.26	4.41	4.55	4.7	4.85	5	5.14	5.28	5.42	5.55	5.68	7.05	2.94		
210	3.15	3.21	3.28	3.36	3.44	3.52	3.62	3.72	3.82	3.94	4.07	4.19	4.33	4.48	4.63	4.78	4.94	5.09	5.25	5.4	5.55	5.69	5.83	5.97	7.4	3.09		
220	3.3	3.36	3.44	3.52	3.6	3.69	3.79	3.9	4.01	4.13	4.26	4.39	4.54	4.69	4.85	5.01	5.17	5.33	5.5	5.66	5.81	5.96	6.11	6.25	7.75	3.23		
230	3.45	3.52	3.59	3.68	3.76	3.86	3.96	4.07	4.19	4.32	4.45	4.59	4.74	4.9	5.07	5.24	5.41	5.57	5.75	5.91	6.07	6.23	6.39	6.53	8.11	3.38		
240	3.6	3.67	3.75	3.84	3.93	4.03	4.14	4.25	4.38	4.51	4.65	4.8	4.96	5.12	5.3	5.47	5.65	5.83	6	6.18	6.34	6.51	6.67	6.82	8.46	3.53		
250	3.75	3.83	3.91	4	4.09	4.2	4.31	4.43	4.56	4.7	4.85	5	5.16	5.34	5.52	5.7	5.88	6.07	6.25	6.43	6.61	6.78	6.95	7.11	8.82	3.68		
260	3.9	3.98	4.07	4.16	4.26	4.37	4.48	4.61	4.74	4.89	5.04	5.2	5.37	5.55	5.74	5.93	6.12	6.31	6.5	6.69	6.87	7.05	7.22	7.39	9.17	3.82		
270	4.05	4.13	4.22	4.32	4.42	4.53	4.65	4.79	4.92	5.07	5.23	5.4	5.58	5.77	5.96	6.16	6.36	6.55	6.75	6.95	7.14	7.32	7.5	7.68	9.52	3.97		
280	4.2	4.29	4.38	4.48	4.59	4.7	4.83	4.96	5.1	5.26	5.43	5.6	5.78	5.98	6.18	6.38	6.59	6.8	7	7.21	7.4	7.59	7.78	7.96	9.88	4.12		
290	4.35	4.44	4.54	4.64	4.75	4.87	5	5.14	5.29	5.45	5.62	5.8	5.99	6.19	6.4	6.61	6.83	7.04	7.25	7.46	7.67	7.87	8.06	8.25	10.23	4.26		
300	4.5	4.59	4.69	4.8	4.91	5.04	5.17	5.32	5.47	5.64	5.81	6	6.2	6.41	6.62	6.84	7.06	7.28	7.5	7.72	7.93	8.14	8.34	8.53	10.59	4.41		
310	4.65	4.75	4.85	4.96	5.08	5.21	5.34	5.49	5.65	5.83	6.01	6.2	6.4	6.62	6.84	7.07	7.3	7.53	7.75	7.98	8.2	8.41	8.61	8.81	10.94	4.56		
320	4.8	4.9	5	5.12	5.24	5.37	5.52	5.67	5.83	6.01	6.2	6.4	6.61	6.83	7.06	7.3	7.53	7.77	8	8.24	8.46	8.68	8.89	9.1	11.29	4.71		
330	4.95	5.05	5.16	5.28	5.4	5.54	5.69	5.85	6.02	6.2	6.4	6.6	6.82	7.05	7.29	7.53	7.77	8.01	8.25	8.49	8.73	8.95	9.17	9.38	11.65	4.85		
340	5.1	5.2	5.32	5.44	5.57	5.71	5.86	6.03	6.2	6.39	6.59	6.8	7.02	7.26	7.51	7.75	8	8.26	8.5	8.75	8.99	9.22	9.45	9.67	12	5		
350	5.25	5.36	5.48	5.6	5.74	5.88	6.04	6.21	6.39	6.58	6.79	7.01	7.24	7.48	7.73	7.99	8.25	8.51	8.76	9.02	9.26	9.5	9.74	9.97	12.36	5.15		

1098-05	GENERAL INFORMATION															
Sheet of	ENGINEERING NOTES AND SIGNAGE															
Rev: 03/26/2026	SAG & TENSION WITH TABLES															

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.50	4297.60	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	160		ARBUTUS CREEP										Eng. Use: MOT
Creep Sag & Tension																			Temp (°F)										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188			
Tension (lbs)	4,571	4,276	3,990	3,712	3,450	3,197	2,960	2,739	2,539	2,355	2,192	2,046	1,915	1,798	1,696	1,607	1,527	1,456	1,392	1,334	1,282	1,235	1,192	1,153	1,117	817			
% Ultimate	29%	27%	26%	24%	22%	20%	19%	18%	16%	15%	14%	13%	12%	12%	11%	10%	10%	9%	9%	9%	8%	8%	8%	7%	7%	5%			
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)			
Ruling Span Sag	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	2'-11"	3'-0"	4'-1"			
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-5"			
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-11"			
100	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-7"			
120	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-8"	2'-4"			
140	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	3'-2"			
160	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	2'-11"	3'-0"	4'-1"			
180	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-8"	1'-10"	1'-11"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-5"	3'-7"	3'-8"	3'-10"	5'-2"			
200	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-6"	4'-8"	6'-5"			
210	1'-3"	1'-4"	1'-5"	1'-7"	1'-8"	1'-10"	1'-11"	2'-1"	2'-3"	2'-5"	2'-8"	2'-10"	3'-0"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	4'-10"	5'-0"	5'-2"	7'-1"			
220	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-11"	3'-1"	3'-4"	3'-6"	3'-9"	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-2"	5'-4"	5'-6"	5'-8"	7'-9"			
230	1'-6"	1'-7"	1'-9"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-9"	2'-11"	3'-2"	3'-5"	3'-7"	3'-10"	4'-1"	4'-4"	4'-6"	4'-9"	5'-0"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	6'-2"	8'-6"			
240	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-4"	2'-7"	2'-9"	3'-0"	3'-2"	3'-5"	3'-8"	3'-11"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	6'-6"	6'-9"	9'-3"			
250	1'-9"	1'-11"	2'-1"	2'-2"	2'-5"	2'-7"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-7"	4'-10"	5'-1"	5'-4"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-10"	7'-1"	7'-4"	10'-0"			
260	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-4"	4'-7"	4'-11"	5'-3"	5'-6"	5'-10"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	7'-8"	7'-11"	10'-10"			
270	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-1"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	5'-11"	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	8'-3"	8'-7"	11'-9"			
280	2'-3"	2'-5"	2'-7"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-1"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	6'-1"	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	8'-11"	9'-2"	12'-7"			
290	2'-5"	2'-7"	2'-9"	3'-0"	3'-2"	3'-5"	3'-9"	4'-0"	4'-4"	4'-8"	5'-0"	5'-5"	5'-9"	6'-1"	6'-6"	6'-10"	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	9'-10"	13'-6"			
300	2'-7"	2'-9"	3'-0"	3'-2"	3'-5"	3'-8"	4'-0"	4'-4"	4'-8"	5'-0"	5'-5"	5'-9"	6'-2"	6'-7"	6'-11"	7'-4"	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	10'-7"	14'-6"			
310	2'-9"	2'-11"	3'-2"	3'-5"	3'-8"	3'-11"	4'-3"	4'-7"	5'-0"	5'-4"	5'-9"	6'-2"	6'-7"	7'-0"	7'-5"	7'-10"	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-7"	10'-11"	11'-3"	15'-5"			
320	2'-11"	3'-2"	3'-4"	3'-7"	3'-11"	4'-2"	4'-6"	4'-11"	5'-3"	5'-8"	6'-1"	6'-7"	7'-0"	7'-5"	7'-11"	8'-4"	8'-9"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	11'-8"	12'-0"	16'-6"			
330	3'-1"	3'-4"	3'-7"	3'-10"	4'-2"	4'-6"	4'-10"	5'-3"	5'-8"	6'-1"	6'-6"	7'-0"	7'-5"	7'-11"	8'-5"	8'-11"	9'-4"	9'-10"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	12'-9"	17'-6"			
340	3'-4"	3'-6"	3'-10"	4'-1"	4'-5"	4'-9"	5'-1"	5'-6"	6'-0"	6'-5"	6'-11"	7'-5"	7'-11"	8'-5"	8'-11"	9'-5"	9'-11"	10'-5"	10'-11"	11'-4"	11'-10"	12'-3"	12'-9"	13'-2"	13'-7"	18'-7"			
350	3'-6"	3'-9"	4'-0"	4'-4"	4'-8"	5'-0"	5'-5"	5'-10"	6'-4"	6'-10"	7'-4"	7'-10"	8'-5"	8'-11"	9'-6"	10'-0"	10'-6"	11'-1"	11'-6"	12'-1"	12'-6"	13'-0"	13'-6"	13'-11"	14'-5"	19'-9"			

1098-05	GENERAL INFORMATION																	
Sheet of	ENGINEERING NOTES AND SIGNAGE																	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES																	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.50	4297.60	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	160		ARBUTUS CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	4,571	4,276	3,990	3,712	3,450	3,197	2,960	2,739	2,539	2,355	2,192	2,046	1,915	1,798	1,696	1,607	1,527	1,456	1,392	1,334	1,282	1,235	1,192	1,153	1,117	817		
% Ultimate	29%	27%	26%	24%	22%	20%	19%	18%	16%	15%	14%	13%	12%	12%	11%	10%	10%	9%	9%	9%	8%	8%	8%	7%	7%	5%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	2.65	2.74	2.84	2.95	3.06	3.18	3.31	3.43	3.57	3.7	3.83	3.95	4.08	4.2	4.32	4.43	4.54	4.64	4.74	4.83	4.93	5.01	5.1	5.18	6.06	2.56		
50	0.83	0.86	0.89	0.92	0.96	0.99	1.03	1.07	1.11	1.15	1.2	1.24	1.28	1.31	1.35	1.38	1.42	1.45	1.48	1.51	1.54	1.57	1.59	1.62	1.89	0.8		
75	1.24	1.28	1.33	1.38	1.43	1.49	1.55	1.61	1.67	1.73	1.79	1.85	1.91	1.97	2.02	2.08	2.13	2.17	2.22	2.27	2.31	2.35	2.39	2.43	2.84	1.2		
100	1.65	1.71	1.78	1.84	1.91	1.99	2.07	2.15	2.23	2.31	2.39	2.47	2.55	2.63	2.7	2.77	2.83	2.9	2.96	3.02	3.08	3.13	3.18	3.24	3.78	1.6		
120	1.98	2.05	2.13	2.21	2.3	2.39	2.48	2.58	2.67	2.77	2.87	2.97	3.06	3.15	3.24	3.32	3.4	3.48	3.55	3.63	3.69	3.76	3.82	3.88	4.54	1.92		
140	2.32	2.4	2.49	2.58	2.68	2.78	2.89	3	3.12	3.23	3.35	3.46	3.57	3.68	3.78	3.88	3.97	4.06	4.15	4.23	4.31	4.39	4.46	4.53	5.3	2.24		
160	2.65	2.74	2.84	2.95	3.06	3.18	3.31	3.43	3.57	3.7	3.83	3.95	4.08	4.2	4.32	4.43	4.54	4.64	4.74	4.83	4.93	5.01	5.1	5.18	6.06	2.56		
180	2.98	3.08	3.2	3.31	3.44	3.58	3.72	3.86	4.01	4.16	4.3	4.45	4.59	4.73	4.86	4.98	5.1	5.22	5.33	5.44	5.54	5.64	5.73	5.83	6.81	2.88		
200	3.31	3.42	3.55	3.68	3.83	3.98	4.13	4.29	4.46	4.62	4.78	4.94	5.1	5.25	5.4	5.54	5.67	5.8	5.92	6.04	6.16	6.27	6.37	6.47	7.57	3.2		
210	3.47	3.6	3.73	3.87	4.02	4.17	4.34	4.51	4.68	4.85	5.02	5.19	5.36	5.51	5.67	5.81	5.95	6.09	6.22	6.35	6.47	6.58	6.69	6.8	7.95	3.36		
220	3.64	3.77	3.91	4.05	4.21	4.37	4.55	4.72	4.9	5.08	5.26	5.44	5.61	5.78	5.94	6.09	6.24	6.38	6.52	6.65	6.77	6.89	7.01	7.12	8.33	3.52		
230	3.8	3.94	4.08	4.23	4.4	4.57	4.75	4.94	5.13	5.31	5.5	5.68	5.87	6.04	6.21	6.37	6.52	6.67	6.81	6.95	7.08	7.21	7.33	7.45	8.71	3.68		
240	3.97	4.11	4.26	4.43	4.59	4.77	4.96	5.16	5.35	5.55	5.74	5.94	6.12	6.31	6.48	6.65	6.81	6.96	7.11	7.26	7.39	7.52	7.65	7.77	9.09	3.84		
250	4.14	4.29	4.44	4.61	4.78	4.97	5.17	5.37	5.58	5.78	5.98	6.18	6.38	6.57	6.75	6.92	7.1	7.25	7.41	7.56	7.7	7.84	7.97	8.1	9.47	4		
260	4.31	4.46	4.62	4.8	4.98	5.17	5.38	5.59	5.8	6.01	6.22	6.43	6.63	6.83	7.02	7.2	7.38	7.54	7.71	7.86	8.01	8.15	8.29	8.42	9.85	4.16		
270	4.47	4.63	4.79	4.98	5.17	5.37	5.58	5.8	6.02	6.24	6.46	6.68	6.89	7.09	7.29	7.48	7.66	7.83	8	8.16	8.32	8.47	8.61	8.74	10.23	4.32		
280	4.64	4.8	4.97	5.16	5.36	5.57	5.79	6.02	6.24	6.47	6.7	6.93	7.14	7.36	7.56	7.76	7.95	8.12	8.3	8.47	8.63	8.78	8.93	9.07	10.61	4.48		
290	4.8	4.97	5.15	5.35	5.55	5.77	6	6.23	6.47	6.7	6.94	7.17	7.4	7.62	7.83	8.03	8.23	8.41	8.6	8.77	8.94	9.09	9.25	9.39	10.99	4.64		
300	4.97	5.14	5.33	5.53	5.74	5.97	6.2	6.45	6.69	6.94	7.18	7.42	7.65	7.88	8.1	8.31	8.52	8.7	8.89	9.07	9.24	9.41	9.57	9.72	11.37	4.8		
310	5.13	5.32	5.51	5.72	5.93	6.17	6.41	6.66	6.91	7.17	7.42	7.67	7.91	8.15	8.37	8.59	8.8	9	9.19	9.38	9.55	9.72	9.88	10.04	11.75	4.96		
320	5.3	5.49	5.68	5.9	6.12	6.37	6.62	6.88	7.14	7.4	7.66	7.92	8.16	8.41	8.64	8.86	9.08	9.29	9.49	9.68	9.86	10.04	10.2	10.37	12.13	5.13		
330	5.46	5.66	5.86	6.09	6.32	6.56	6.82	7.09	7.36	7.63	7.9	8.16	8.42	8.67	8.91	9.14	9.37	9.58	9.78	9.98	10.17	10.35	10.52	10.69	12.51	5.29		
340	5.63	5.83	6.04	6.27	6.51	6.76	7.03	7.31	7.58	7.86	8.14	8.41	8.67	8.93	9.19	9.42	9.65	9.87	10.08	10.28	10.48	10.67	10.84	11.01	12.9	5.45		
350	5.8	6	6.23	6.46	6.71	6.97	7.24	7.53	7.81	8.1	8.38	8.67	8.94	9.2	9.46	9.7	9.94	10.16	10.38	10.59	10.79	10.98	11.17	11.35	13.28	5.61		

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	SAG & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5097.60	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1.292	Rated Breaking Strength			15,600	Ruling Span (Feet)	175		ARBUTUS INITIAL										Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																														
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188					
Tension (lbs)	5,362	5,159	4,953	4,744	4,531	4,326	4,119	3,908	3,706	3,507	3,306	3,120	2,935	2,761	2,595	2,443	2,299	2,168	2,049	1,939	1,839	1,749	1,668	1,596	1,528	1,015					
% Ultimate	34%	33%	32%	30%	29%	28%	26%	25%	24%	22%	21%	20%	19%	18%	17%	16%	15%	14%	13%	12%	12%	11%	11%	10%	10%	7%					
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)					
Ruling Span Sag	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	3'-11"					
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-4"				
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-9"					
100	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	1'-3"					
120	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-10"					
140	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	2'-6"					
160	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-6"	1'-6"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	3'-4"					
180	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	4'-2"					
200	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-2"	3'-3"	3'-5"	5'-2"					
210	1'-1"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-7"	3'-9"	5'-8"					
220	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-9"	1'-10"	2'-1"	2'-2"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	6'-3"						
230	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	6'-10"					
240	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-11"	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	7'-5"					
250	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-5"	4'-8"	4'-11"	5'-2"	5'-4"	8'-1"					
260	1'-8"	1'-9"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-10"	3'-0"	3'-3"	3'-5"	3'-8"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	8'-9"					
270	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-11"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-6"	5'-9"	6'-0"	6'-3"	9'-5"					
280	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-4"	5'-7"	5'-10"	6'-2"	6'-5"	6'-9"	10'-1"					
290	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-1"	5'-5"	5'-8"	6'-0"	6'-4"	6'-7"	6'-11"	7'-3"	10'-10"					
300	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-7"	4'-10"	5'-2"	5'-5"	5'-9"	6'-1"	6'-5"	6'-9"	7'-1"	7'-5"	7'-9"	11'-8"					
310	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-10"	4'-0"	4'-4"	4'-7"	4'-10"	5'-2"	5'-6"	5'-10"	6'-2"	6'-7"	7'-0"	7'-4"	7'-8"	8'-3"	8'-9"	12'-5"					
320	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-7"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-2"	5'-6"	5'-10"	6'-2"	6'-7"	7'-0"	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	13'-3"					
330	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-6"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-2"	5'-6"	5'-10"	6'-3"	6'-7"	7'-0"	7'-4"	7'-9"	8'-2"	8'-7"	8'-11"	9'-4"	14'-1"						
340	2'-10"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-2"	5'-6"	5'-10"	6'-5"	6'-9"	7'-0"	7'-5"	7'-10"	8'-3"	8'-8"	9'-1"	9'-6"	9'-11"	14'-11"					
350	3'-0"	3'-1"	3'-3"	3'-5"	3'-6"	3'-9"	3'-11"	4'-1"	4'-4"	4'-7"	4'-10"	5'-2"	5'-6"	5'-10"	6'-2"	6'-7"	7'-0"	7'-5"	7'-10"	8'-4"	8'-9"	9'-2"	9'-8"	10'-1"	10'-6"	15'-10"					

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5097.60	54.50

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	175		ARBUTUS INITIAL								Eng. Use: MOT Temp (°F)
Condition		Initial Sag & Tension																										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	5,362	5,159	4,953	4,744	4,531	4,326	4,119	3,908	3,706	3,507	3,306	3,120	2,935	2,761	2,595	2,443	2,299	2,168	2,049	1,939	1,839	1,749	1,668	1,596	1,528	1,015		
% Ultimate	34%	33%	32%	30%	29%	28%	26%	25%	24%	22%	21%	20%	19%	18%	17%	16%	15%	14%	13%	12%	12%	11%	11%	10%	10%	7%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span	2.63	2.69	2.75	2.81	2.88	2.95	3.03	3.11	3.2	3.29	3.39	3.49	3.6	3.72	3.83	3.95	4.06	4.18	4.3	4.41	4.53	4.63	4.74	4.84	5.94	2.58		
3-Wave Time	50	0.75	0.77	0.79	0.8	0.82	0.84	0.86	0.89	0.91	0.94	0.97	1	1.03	1.06	1.09	1.13	1.16	1.19	1.23	1.26	1.29	1.32	1.35	1.38	1.7	0.74	
75	1.13	1.15	1.18	1.2	1.23	1.26	1.3	1.33	1.37	1.41	1.45	1.5	1.54	1.59	1.64	1.69	1.74	1.79	1.84	1.89	1.94	1.99	2.03	2.08	2.55	1.11		
100	1.51	1.54	1.57	1.61	1.64	1.69	1.73	1.78	1.83	1.88	1.94	2	2.06	2.12	2.19	2.26	2.32	2.39	2.46	2.52	2.59	2.65	2.71	2.77	3.4	1.48		
120	1.81	1.84	1.88	1.93	1.97	2.02	2.08	2.13	2.19	2.26	2.32	2.4	2.47	2.55	2.63	2.71	2.79	2.87	2.95	3.03	3.1	3.18	3.25	3.32	4.07	1.77		
140	2.11	2.15	2.2	2.25	2.3	2.36	2.42	2.49	2.56	2.63	2.71	2.79	2.88	2.97	3.06	3.16	3.25	3.34	3.44	3.53	3.62	3.71	3.79	3.87	4.75	2.07		
160	2.41	2.46	2.51	2.57	2.63	2.7	2.77	2.84	2.92	3.01	3.1	3.19	3.29	3.4	3.5	3.61	3.72	3.82	3.93	4.04	4.14	4.24	4.33	4.43	5.43	2.36		
180	2.71	2.77	2.83	2.89	2.96	3.03	3.11	3.2	3.29	3.39	3.49	3.59	3.7	3.82	3.94	4.06	4.18	4.3	4.42	4.54	4.65	4.77	4.87	4.98	6.11	2.66		
200	3.01	3.07	3.14	3.21	3.29	3.37	3.46	3.55	3.65	3.76	3.87	3.99	4.12	4.25	4.38	4.51	4.65	4.78	4.91	5.04	5.17	5.3	5.42	5.53	6.79	2.95		
210	3.16	3.23	3.3	3.37	3.45	3.54	3.63	3.73	3.83	3.95	4.07	4.19	4.32	4.46	4.6	4.74	4.88	5.02	5.16	5.3	5.43	5.56	5.69	5.81	7.13	3.1		
220	3.31	3.38	3.45	3.53	3.62	3.71	3.81	3.91	4.02	4.14	4.26	4.39	4.53	4.67	4.81	4.96	5.11	5.26	5.4	5.55	5.69	5.83	5.96	6.09	7.47	3.25		
230	3.46	3.53	3.61	3.7	3.78	3.88	3.98	4.09	4.2	4.33	4.45	4.59	4.73	4.88	5.03	5.19	5.34	5.5	5.65	5.8	5.95	6.09	6.23	6.37	7.81	3.4		
240	3.62	3.69	3.77	3.86	3.95	4.05	4.16	4.27	4.39	4.52	4.65	4.8	4.95	5.1	5.26	5.42	5.58	5.74	5.9	6.06	6.21	6.36	6.51	6.65	8.16	3.55		
250	3.77	3.85	3.93	4.02	4.11	4.22	4.33	4.44	4.57	4.71	4.85	5	5.15	5.31	5.48	5.64	5.81	5.98	6.15	6.31	6.47	6.62	6.78	6.92	8.5	3.69		
260	3.92	4	4.09	4.18	4.28	4.39	4.5	4.62	4.76	4.9	5.04	5.2	5.36	5.53	5.7	5.87	6.04	6.22	6.39	6.57	6.73	6.89	7.05	7.2	8.84	3.84		
270	4.07	4.15	4.24	4.34	4.44	4.56	4.67	4.8	4.94	5.08	5.23	5.4	5.56	5.74	5.92	6.09	6.28	6.46	6.64	6.82	6.99	7.15	7.32	7.48	9.18	3.99		
280	4.22	4.31	4.4	4.5	4.61	4.73	4.85	4.98	5.12	5.27	5.43	5.6	5.77	5.95	6.14	6.32	6.51	6.7	6.88	7.07	7.25	7.42	7.59	7.75	9.52	4.14		
290	4.37	4.46	4.56	4.66	4.77	4.89	5.02	5.16	5.31	5.46	5.62	5.8	5.98	6.17	6.35	6.55	6.74	6.94	7.13	7.32	7.5	7.68	7.86	8.03	9.86	4.29		
300	4.52	4.62	4.72	4.82	4.94	5.06	5.19	5.33	5.49	5.65	5.81	6	6.18	6.38	6.57	6.77	6.97	7.18	7.38	7.58	7.76	7.95	8.13	8.31	10.2	4.43		
310	4.67	4.77	4.87	4.98	5.1	5.23	5.37	5.51	5.67	5.84	6.01	6.2	6.39	6.59	6.79	7	7.21	7.42	7.62	7.83	8.02	8.21	8.41	8.59	10.54	4.58		
320	4.82	4.92	5.03	5.14	5.27	5.4	5.54	5.69	5.85	6.03	6.2	6.4	6.59	6.8	7.01	7.22	7.44	7.66	7.87	8.08	8.28	8.48	8.68	8.86	10.88	4.73		
330	4.97	5.08	5.19	5.31	5.43	5.57	5.71	5.87	6.04	6.21	6.4	6.6	6.8	7.02	7.23	7.45	7.67	7.9	8.11	8.33	8.54	8.75	8.95	9.14	11.22	4.88		
340	5.12	5.23	5.35	5.47	5.59	5.74	5.89	6.05	6.22	6.4	6.59	6.8	7.01	7.23	7.45	7.68	7.9	8.14	8.36	8.59	8.8	9.01	9.22	9.42	11.56	5.02		
350	5.28	5.39	5.51	5.63	5.77	5.91	6.06	6.23	6.41	6.6	6.79	7	7.22	7.45	7.68	7.91	8.15	8.39	8.61	8.85	9.07	9.29	9.5	9.7	11.91	5.18		

1098-05	GENERAL INFORMATION															
Sheet of	ENGINEERING NOTES AND SIGNAGE															
Rev: 03/26/2026	SAG & TENSION WITH TABLES															

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.50	4292.60	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)	1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	175	ARBUTUS CREEP												Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																													
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188			
Tension (lbs)	4,448	4,162	3,892	3,630	3,376	3,139	2,919	2,719	2,535	2,364	2,213	2,079	1,957	1,851	1,754	1,669	1,593	1,524	1,462	1,406	1,354	1,308	1,265	1,225	1,190	881			
% Ultimate	29%	27%	25%	23%	22%	20%	19%	17%	16%	15%	14%	13%	13%	12%	11%	11%	10%	10%	9%	9%	9%	8%	8%	8%	8%	6%			
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)			
Ruling Span Sag	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-6"	1'-7"	1'-8"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-10"	3'-0"	3'-1"	3'-2"	3'-3"	3'-4"	4'-7"			
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"			
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-7"	0'-10"			
100	0'-3"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-1"	1'-1"	1'-6"			
120	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-6"	1'-7"	2'-2"			
140	0'-7"	0'-7"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-0"	2'-1"	2'-2"	2'-11"			
160	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-8"	2'-9"	2'-10"	3'-10"			
180	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	3'-4"	3'-6"	3'-7"	4'-10"			
200	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-8"	1'-9"	1'-11"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-9"	3'-10"	4'-0"	4'-2"	4'-3"	4'-5"	5'-11"			
210	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	4'-10"	6'-7"			
220	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	4'-10"	5'-0"	5'-2"	5'-4"	7'-2"			
230	1'-7"	1'-8"	1'-9"	1'-11"	2'-1"	2'-2"	2'-4"	2'-6"	2'-9"	2'-11"	3'-2"	3'-4"	3'-6"	3'-9"	3'-11"	4'-2"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	5'-6"	5'-8"	5'-10"	7'-10"			
240	1'-8"	1'-10"	1'-11"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	3'-0"	3'-2"	3'-5"	3'-8"	3'-10"	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	6'-0"	6'-2"	6'-4"	8'-7"			
250	1'-10"	2'-0"	2'-1"	2'-3"	2'-5"	2'-7"	2'-10"	3'-0"	3'-3"	3'-6"	3'-8"	3'-11"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	6'-6"	6'-8"	6'-11"	9'-4"			
260	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-10"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-6"	6'-9"	7'-0"	7'-3"	7'-5"	10'-1"			
270	2'-2"	2'-3"	2'-5"	2'-8"	2'-10"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-4"	4'-7"	4'-11"	5'-2"	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-9"	8'-0"	10'-10"			
280	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-3"	3'-6"	3'-9"	4'-1"	4'-4"	4'-8"	4'-11"	5'-3"	5'-7"	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	8'-1"	8'-5"	8'-8"	11'-8"			
290	2'-6"	2'-8"	2'-10"	3'-0"	3'-3"	3'-6"	3'-9"	4'-1"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	5'-11"	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	9'-0"	9'-3"	12'-6"			
300	2'-8"	2'-10"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	6'-0"	6'-4"	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	9'-4"	9'-7"	9'-11"	13'-5"			
310	2'-10"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	6'-1"	6'-5"	6'-10"	7'-2"	7'-6"	7'-11"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	10'-3"	10'-7"	14'-4"			
320	3'-0"	3'-3"	3'-5"	3'-8"	4'-0"	4'-3"	4'-7"	4'-11"	5'-4"	5'-8"	6'-1"	6'-5"	6'-10"	7'-3"	7'-8"	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	10'-7"	10'-11"	11'-3"	15'-3"			
330	3'-3"	3'-5"	3'-8"	3'-11"	4'-3"	4'-7"	4'-11"	5'-3"	5'-8"	6'-0"	6'-5"	6'-10"	7'-3"	7'-9"	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-3"	11'-8"	12'-0"	16'-3"			
340	3'-5"	3'-8"	3'-11"	4'-2"	4'-6"	4'-10"	5'-2"	5'-7"	6'-0"	6'-5"	6'-10"	7'-3"	7'-9"	8'-2"	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	12'-4"	12'-9"	17'-3"			
350	3'-7"	3'-10"	4'-2"	4'-5"	4'-9"	5'-1"	5'-6"	5'-11"	6'-4"	6'-9"	7'-3"	7'-9"	8'-3"	8'-8"	9'-2"	9'-8"	10'-1"	10'-7"	11'-0"	11'-5"	11'-10"	12'-3"	12'-8"	13'-1"	13'-6"	18'-3"			

1098-05	GENERAL INFORMATION										
Sheet of	ENGINEERING NOTES AND SIGNAGE										
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES										

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.50	4292.60	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	175		ARBUTUS CREEP										Eng. Use: MOT
Condition Creep Sag & Tension																				Temp (°F)										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188				
Tension (lbs)	4,448	4,162	3,892	3,630	3,376	3,139	2,919	2,719	2,535	2,364	2,213	2,079	1,957	1,851	1,754	1,669	1,593	1,524	1,462	1,406	1,354	1,308	1,265	1,225	1,190	881				
% Ultimate	29%	27%	25%	23%	22%	20%	19%	17%	16%	15%	14%	13%	13%	12%	11%	11%	10%	10%	9%	9%	9%	8%	8%	8%	8%	6%				
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec				
R.S. Span 3-Wave Time	2.93	3.03	3.14	3.26	3.38	3.5	3.63	3.76	3.89	4.02	4.15	4.28	4.4	4.52	4.63	4.74	4.85	4.95	5.05	5.14	5.23	5.32	5.41	5.49	6.38	2.84				
50	0.84	0.87	0.9	0.93	0.97	1	1.04	1.07	1.11	1.15	1.19	1.22	1.26	1.29	1.32	1.35	1.39	1.41	1.44	1.47	1.5	1.52	1.54	1.57	1.82	0.81				
75	1.26	1.3	1.35	1.4	1.45	1.5	1.56	1.61	1.67	1.72	1.78	1.83	1.89	1.94	1.99	2.03	2.08	2.12	2.16	2.2	2.24	2.28	2.32	2.35	2.73	1.22				
100	1.68	1.73	1.79	1.86	1.93	2	2.07	2.15	2.22	2.3	2.37	2.44	2.51	2.58	2.65	2.71	2.77	2.83	2.88	2.94	2.99	3.04	3.09	3.14	3.64	1.62				
120	2.01	2.08	2.15	2.23	2.32	2.4	2.49	2.58	2.67	2.76	2.85	2.93	3.02	3.1	3.18	3.25	3.32	3.39	3.46	3.53	3.59	3.65	3.71	3.76	4.37	1.95				
140	2.35	2.43	2.51	2.61	2.7	2.8	2.9	3.01	3.11	3.22	3.32	3.42	3.52	3.62	3.71	3.79	3.88	3.96	4.04	4.12	4.19	4.26	4.33	4.39	5.1	2.27				
160	2.68	2.77	2.87	2.98	3.09	3.2	3.32	3.44	3.56	3.68	3.8	3.91	4.02	4.13	4.24	4.34	4.43	4.53	4.62	4.7	4.79	4.87	4.94	5.02	5.83	2.59				
180	3.02	3.12	3.23	3.35	3.47	3.6	3.73	3.87	4	4.14	4.27	4.4	4.52	4.65	4.77	4.88	4.99	5.09	5.19	5.29	5.38	5.47	5.56	5.64	6.56	2.92				
200	3.35	3.47	3.59	3.72	3.86	4	4.15	4.3	4.45	4.6	4.74	4.89	5.03	5.16	5.29	5.42	5.54	5.66	5.77	5.88	5.98	6.08	6.18	6.27	7.29	3.24				
210	3.52	3.64	3.77	3.91	4.05	4.2	4.36	4.51	4.67	4.83	4.98	5.13	5.28	5.42	5.56	5.69	5.82	5.94	6.06	6.17	6.28	6.39	6.49	6.59	7.66	3.41				
220	3.69	3.81	3.95	4.09	4.25	4.4	4.56	4.73	4.89	5.06	5.22	5.38	5.53	5.68	5.82	5.96	6.1	6.22	6.35	6.47	6.58	6.69	6.8	6.9	8.02	3.57				
230	3.86	3.99	4.13	4.28	4.44	4.6	4.77	4.94	5.12	5.29	5.46	5.62	5.78	5.94	6.09	6.23	6.37	6.51	6.64	6.76	6.88	7	7.11	7.21	8.39	3.73				
240	4.03	4.16	4.31	4.47	4.64	4.81	4.98	5.16	5.34	5.52	5.7	5.87	6.04	6.2	6.36	6.51	6.65	6.79	6.93	7.06	7.18	7.3	7.42	7.53	8.76	3.89				
250	4.19	4.34	4.49	4.66	4.83	5.01	5.19	5.38	5.56	5.75	5.93	6.12	6.29	6.46	6.62	6.78	6.93	7.08	7.22	7.36	7.48	7.61	7.73	7.85	9.12	4.06				
260	4.36	4.51	4.67	4.84	5.02	5.21	5.4	5.59	5.79	5.98	6.17	6.36	6.54	6.72	6.89	7.05	7.21	7.36	7.51	7.65	7.78	7.91	8.04	8.16	9.49	4.22				
270	4.53	4.68	4.85	5.03	5.22	5.41	5.61	5.81	6.01	6.21	6.41	6.6	6.79	6.98	7.15	7.32	7.49	7.64	7.8	7.94	8.08	8.22	8.35	8.48	9.85	4.38				
280	4.7	4.86	5.03	5.22	5.41	5.61	5.81	6.02	6.23	6.44	6.65	6.85	7.05	7.24	7.42	7.59	7.76	7.93	8.08	8.24	8.38	8.52	8.66	8.79	10.22	4.54				
290	4.87	5.03	5.21	5.4	5.6	5.81	6.02	6.24	6.45	6.67	6.88	7.09	7.3	7.49	7.68	7.87	8.04	8.21	8.37	8.53	8.68	8.83	8.97	9.1	10.58	4.71				
300	5.03	5.2	5.39	5.59	5.8	6.01	6.23	6.45	6.68	6.9	7.12	7.34	7.55	7.75	7.95	8.14	8.32	8.49	8.66	8.83	8.98	9.13	9.28	9.42	10.95	4.87				
310	5.2	5.38	5.57	5.77	5.99	6.21	6.44	6.67	6.9	7.13	7.36	7.58	7.8	8.01	8.21	8.41	8.6	8.78	8.95	9.12	9.28	9.44	9.59	9.73	11.32	5.03				
320	5.37	5.55	5.75	5.96	6.18	6.41	6.64	6.88	7.12	7.36	7.59	7.83	8.05	8.27	8.48	8.68	8.87	9.06	9.24	9.42	9.58	9.74	9.9	10.05	11.68	5.19				
330	5.54	5.73	5.93	6.15	6.38	6.61	6.85	7.1	7.34	7.59	7.83	8.07	8.31	8.53	8.74	8.95	9.15	9.34	9.53	9.71	9.88	10.05	10.21	10.36	12.05	5.35				
340	5.7	5.9	6.11	6.33	6.57	6.81	7.06	7.31	7.57	7.82	8.07	8.32	8.56	8.79	9.01	9.22	9.43	9.63	9.82	10.01	10.18	10.35	10.51	10.68	12.41	5.52				
350	5.87	6.08	6.3	6.52	6.77	7.02	7.27	7.53	7.79	8.06	8.31	8.57	8.81	9.05	9.28	9.5	9.72	9.92	10.11	10.31	10.49	10.66	10.83	10.99	12.78	5.68				

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	SAG & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5097.90	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	190		ARBUTUS INITIAL										Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension													Strength																
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188				
Tension (lbs)	5,282	5,078	4,876	4,671	4,463	4,263	4,060	3,854	3,658	3,464	3,278	3,095	2,926	2,761	2,604	2,459	2,326	2,204	2,092	1,988	1,893	1,809	1,732	1,661	1,595	1,083				
% Ultimate	34%	33%	31%	30%	29%	27%	26%	25%	23%	22%	21%	20%	19%	18%	17%	16%	15%	14%	13%	13%	12%	12%	11%	11%	10%	7%				
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	4'-4"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-4"				
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-8"				
100	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	1'-3"				
120	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-2"	1'-9"				
140	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-7"	2'-4"				
160	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	3'-1"				
180	0'-10"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	3'-11"				
200	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	4'-10"				
210	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-7"	5'-4"				
220	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	5'-10"				
230	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	6'-5"				
240	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-9"	7'-0"				
250	1'-7"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-9"	3'-11"	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-2"	7'-7"				
260	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-3"	3'-5"	3'-7"	3'-10"	4'-0"	4'-3"	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-7"	8'-2"				
270	1'-10"	1'-11"	2'-0"	2'-0"	2'-2"	2'-3"	2'-4"	2'-6"	2'-8"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-11"	4'-1"	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-6"	6'-0"	8'-10"				
280	1'-11"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-9"	3'-11"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	9'-6"				
290	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-3"	5'-6"	5'-10"	6'-1"	6'-4"	6'-8"	6'-11"	10'-2"				
300	2'-3"	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-10"	4'-0"	4'-3"	4'-6"	4'-9"	5'-1"	5'-4"	5'-8"	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-5"	10'-11"				
310	2'-5"	2'-6"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"	3'-3"	3'-5"	3'-8"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-5"	5'-8"	6'-0"	6'-4"	6'-8"	6'-11"	7'-3"	7'-7"	7'-11"	11'-8"				
320	2'-6"	2'-8"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-2"	5'-5"	5'-9"	6'-1"	6'-5"	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	12'-5"				
330	2'-8"	2'-10"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-8"	3'-11"	4'-1"	4'-4"	4'-7"	4'-10"	5'-2"	5'-6"	5'-9"	6'-2"	6'-6"	6'-10"	7'-2"	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	13'-2"				
340	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-2"	4'-4"	4'-7"	4'-11"	5'-2"	5'-6"	5'-10"	6'-2"	6'-6"	6'-10"	7'-3"	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-6"	14'-0"				
350	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-2"	4'-5"	4'-7"	4'-11"	5'-2"	5'-6"	5'-10"	6'-2"	6'-6"	6'-11"	7'-3"	7'-8"	8'-1"	8'-6"	8'-10"	9'-3"	9'-8"	10'-1"	14'-10"				

1098-05	GENERAL INFORMATION																	
Sheet of	ENGINEERING NOTES AND SIGNAGE																	
Rev: 03/26/2026	SAG & TENSION WITH TABLES																	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.50	4292.40	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	190		ARBUTUS CREEP										Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																													
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188			
Tension (lbs)	4,310	4,040	3,778	3,533	3,296	3,080	2,875	2,692	2,520	2,366	2,227	2,105	1,992	1,892	1,801	1,720	1,648	1,584	1,523	1,468	1,418	1,372	1,331	1,292	1,256	942			
% Ultimate	28%	26%	24%	23%	21%	20%	18%	17%	16%	15%	14%	13%	13%	12%	12%	11%	11%	10%	10%	9%	9%	9%	9%	8%	8%	6%			
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)			
Ruling Span Sag	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-3"	3'-4"	3'-5"	3'-7"	3'-8"	3'-9"	5'-0"			
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"			
75	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-9"			
100	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-5"			
120	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-6"	2'-0"			
140	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-7"	1'-8"	1'-9"	1'-10"	1'-10"	1'-11"	2'-0"	2'-0"	2'-9"			
160	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-7"	2'-8"	3'-7"			
180	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-8"	2'-9"	2'-11"	3'-0"	3'-1"	3'-2"	3'-3"	3'-5"	4'-6"			
200	1'-3"	1'-3"	1'-5"	1'-6"	1'-7"	1'-8"	1'-10"	1'-11"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-5"	3'-7"	3'-8"	3'-10"	3'-11"	4'-1"	4'-2"	5'-7"			
210	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-8"	3'-9"	3'-11"	4'-1"	4'-2"	4'-4"	4'-6"	4'-7"	6'-2"			
220	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-1"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-7"	4'-9"	4'-11"	5'-0"	6'-9"			
230	1'-7"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-9"	4'-11"	5'-0"	5'-2"	5'-4"	5'-6"	7'-4"			
240	1'-9"	1'-10"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-10"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	4'-11"	5'-2"	5'-4"	5'-6"	5'-8"	5'-10"	6'-0"	8'-0"			
250	1'-11"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-3"	3'-6"	3'-8"	3'-11"	4'-1"	4'-4"	4'-6"	4'-9"	5'-0"	5'-2"	5'-4"	5'-7"	5'-9"	6'-0"	6'-2"	6'-4"	6'-6"	8'-8"			
260	2'-1"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-1"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-5"	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-5"	6'-8"	6'-10"	7'-1"	9'-5"			
270	2'-3"	2'-4"	2'-6"	2'-8"	2'-11"	3'-1"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	7'-2"	7'-5"	7'-7"	10'-2"			
280	2'-5"	2'-6"	2'-9"	2'-11"	3'-1"	3'-4"	3'-7"	3'-10"	4'-1"	4'-4"	4'-7"	4'-11"	5'-2"	5'-5"	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	7'-6"	7'-9"	7'-11"	8'-2"	10'-11"			
290	2'-7"	2'-9"	2'-11"	3'-1"	3'-4"	3'-7"	3'-10"	4'-1"	4'-4"	4'-8"	4'-11"	5'-3"	5'-6"	5'-10"	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	8'-0"	8'-3"	8'-6"	8'-9"	11'-8"			
300	2'-9"	2'-11"	3'-1"	3'-4"	3'-7"	3'-10"	4'-1"	4'-5"	4'-8"	5'-0"	5'-3"	5'-7"	5'-11"	6'-3"	6'-6"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	8'-4"	8'-7"	8'-10"	9'-1"	9'-5"	12'-6"			
310	2'-11"	3'-1"	3'-4"	3'-7"	3'-10"	4'-1"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	6'-0"	6'-4"	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	9'-5"	9'-9"	10'-0"	13'-5"			
320	3'-1"	3'-4"	3'-6"	3'-9"	4'-1"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	6'-0"	6'-5"	6'-9"	7'-1"	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-5"	9'-9"	10'-1"	10'-5"	10'-8"	14'-3"			
330	3'-4"	3'-6"	3'-9"	4'-0"	4'-4"	4'-8"	4'-11"	5'-4"	5'-8"	6'-0"	6'-5"	6'-9"	7'-2"	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	10'-9"	11'-0"	11'-4"	15'-2"			
340	3'-6"	3'-9"	4'-0"	4'-3"	4'-7"	4'-11"	5'-3"	5'-8"	6'-0"	6'-5"	6'-9"	7'-2"	7'-7"	8'-0"	8'-5"	8'-9"	9'-2"	9'-7"	9'-11"	10'-4"	10'-8"	11'-0"	11'-5"	11'-9"	12'-1"	16'-1"			
350	3'-9"	4'-0"	4'-3"	4'-6"	4'-10"	5'-3"	5'-7"	6'-0"	6'-4"	6'-9"	7'-2"	7'-8"	8'-1"	8'-6"	8'-11"	9'-4"	9'-9"	10'-2"	10'-6"	10'-11"	11'-4"	11'-8"	12'-1"	12'-5"	12'-9"	17'-1"			

1098-05	GENERAL INFORMATION															
Sheet of	ENGINEERING NOTES AND SIGNAGE															
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES															

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.50	4292.40	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	190		ARBUTUS CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	4,310	4,040	3,778	3,533	3,296	3,080	2,875	2,692	2,520	2,366	2,227	2,105	1,992	1,892	1,801	1,720	1,648	1,584	1,523	1,468	1,418	1,372	1,331	1,292	1,256	942		
% Ultimate	28%	26%	24%	23%	21%	20%	18%	17%	16%	15%	14%	13%	13%	12%	12%	11%	11%	10%	10%	9%	9%	9%	9%	8%	8%	6%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	3.23	3.34	3.46	3.58	3.7	3.83	3.96	4.09	4.22	4.35	4.48	4.6	4.72	4.84	4.95	5.06	5.16	5.27	5.36	5.46	5.55	5.63	5.72	5.8	6.7	3.13		
50	0.85	0.88	0.91	0.94	0.97	1.01	1.04	1.08	1.11	1.15	1.18	1.21	1.24	1.27	1.3	1.33	1.36	1.39	1.41	1.44	1.46	1.48	1.5	1.53	1.76	0.82		
75	1.28	1.32	1.36	1.41	1.46	1.51	1.56	1.62	1.67	1.72	1.77	1.82	1.86	1.91	1.96	2	2.04	2.08	2.12	2.15	2.19	2.22	2.26	2.29	2.64	1.24		
100	1.7	1.76	1.82	1.88	1.95	2.02	2.08	2.15	2.22	2.29	2.36	2.42	2.49	2.55	2.61	2.66	2.72	2.77	2.82	2.87	2.92	2.96	3.01	3.05	3.52	1.65		
120	2.04	2.11	2.18	2.26	2.34	2.42	2.5	2.58	2.67	2.75	2.83	2.91	2.98	3.06	3.13	3.2	3.26	3.33	3.39	3.45	3.5	3.56	3.61	3.66	4.23	1.98		
140	2.38	2.46	2.55	2.64	2.73	2.82	2.92	3.02	3.11	3.21	3.3	3.39	3.48	3.57	3.65	3.73	3.8	3.88	3.95	4.02	4.09	4.15	4.21	4.27	4.93	2.31		
160	2.72	2.81	2.91	3.01	3.12	3.23	3.34	3.45	3.56	3.67	3.77	3.88	3.98	4.08	4.17	4.26	4.35	4.43	4.52	4.6	4.67	4.74	4.81	4.88	5.64	2.64		
180	3.06	3.17	3.27	3.39	3.51	3.63	3.75	3.88	4	4.12	4.24	4.36	4.48	4.59	4.69	4.8	4.89	4.99	5.08	5.17	5.26	5.34	5.42	5.49	6.35	2.97		
200	3.4	3.52	3.64	3.77	3.9	4.03	4.17	4.31	4.45	4.58	4.71	4.85	4.97	5.1	5.22	5.33	5.44	5.54	5.65	5.74	5.84	5.93	6.02	6.11	7.05	3.29		
210	3.57	3.69	3.82	3.96	4.09	4.24	4.38	4.52	4.67	4.81	4.95	5.09	5.22	5.35	5.48	5.6	5.71	5.82	5.93	6.03	6.13	6.23	6.32	6.41	7.4	3.46		
220	3.74	3.87	4	4.14	4.29	4.44	4.59	4.74	4.89	5.04	5.19	5.33	5.47	5.61	5.74	5.86	5.98	6.1	6.21	6.32	6.42	6.52	6.62	6.72	7.76	3.62		
230	3.91	4.05	4.18	4.33	4.48	4.64	4.79	4.95	5.11	5.27	5.42	5.57	5.72	5.86	6	6.13	6.25	6.37	6.49	6.61	6.72	6.82	6.92	7.02	8.11	3.79		
240	4.08	4.22	4.37	4.52	4.68	4.84	5	5.17	5.34	5.5	5.66	5.82	5.97	6.12	6.26	6.4	6.52	6.65	6.78	6.89	7.01	7.12	7.22	7.33	8.46	3.95		
250	4.25	4.4	4.55	4.71	4.88	5.04	5.22	5.39	5.56	5.73	5.9	6.06	6.22	6.37	6.52	6.66	6.8	6.93	7.06	7.18	7.3	7.41	7.52	7.63	8.82	4.12		
260	4.42	4.57	4.73	4.9	5.07	5.24	5.42	5.6	5.78	5.96	6.13	6.3	6.47	6.63	6.78	6.93	7.07	7.21	7.34	7.47	7.59	7.71	7.83	7.94	9.17	4.28		
270	4.59	4.75	4.91	5.09	5.27	5.45	5.63	5.82	6	6.19	6.37	6.54	6.72	6.88	7.04	7.19	7.34	7.48	7.62	7.76	7.88	8.01	8.13	8.24	9.52	4.45		
280	4.76	4.93	5.09	5.27	5.46	5.65	5.84	6.03	6.23	6.42	6.61	6.79	6.97	7.14	7.3	7.46	7.62	7.76	7.91	8.04	8.18	8.3	8.43	8.55	9.88	4.61		
290	4.93	5.1	5.28	5.46	5.66	5.85	6.05	6.25	6.45	6.65	6.84	7.03	7.22	7.39	7.56	7.73	7.89	8.04	8.19	8.33	8.47	8.6	8.73	8.86	10.23	4.78		
300	5.1	5.28	5.46	5.65	5.85	6.05	6.26	6.46	6.67	6.88	7.08	7.27	7.46	7.65	7.82	7.99	8.16	8.32	8.47	8.62	8.76	8.9	9.03	9.16	10.58	4.94		
310	5.27	5.45	5.64	5.84	6.05	6.25	6.47	6.68	6.89	7.11	7.32	7.51	7.71	7.9	8.09	8.26	8.43	8.59	8.75	8.91	9.05	9.2	9.33	9.47	10.94	5.11		
320	5.44	5.63	5.82	6.03	6.24	6.45	6.68	6.89	7.12	7.33	7.55	7.76	7.96	8.16	8.35	8.53	8.71	8.87	9.04	9.19	9.35	9.49	9.63	9.77	11.29	5.27		
330	5.61	5.81	6	6.22	6.44	6.66	6.88	7.11	7.34	7.56	7.79	8	8.21	8.41	8.61	8.8	8.98	9.15	9.32	9.48	9.64	9.79	9.94	10.08	11.65	5.44		
340	5.79	5.98	6.19	6.41	6.63	6.86	7.09	7.33	7.56	7.79	8.02	8.24	8.46	8.67	8.87	9.06	9.25	9.43	9.6	9.77	9.93	10.09	10.24	10.39	12	5.6		
350	5.96	6.16	6.37	6.59	6.83	7.06	7.3	7.54	7.78	8.02	8.26	8.48	8.71	8.92	9.13	9.33	9.52	9.7	9.88	10.06	10.22	10.38	10.54	10.69	12.35	5.77		

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	SAG & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5098.10	54.50

Conductor	795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	205	ARBUTUS INITIAL												Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																															
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188						
Tension (lbs)	5,217	5,012	4,815	4,614	4,411	4,210	4,013	3,818	3,627	3,440	3,262	3,088	2,926	2,767	2,624	2,488	2,362	2,244	2,139	2,040	1,950	1,870	1,795	1,726	1,662	1,149						
% Ultimate	33%	32%	31%	30%	28%	27%	26%	24%	23%	22%	21%	20%	19%	18%	17%	16%	15%	14%	14%	13%	12%	12%	12%	11%	11%	7%						
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)						
Ruling Span Sag	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"	3'-2"	3'-4"	4'-9"						
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"						
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-8"						
100	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	1'-2"						
120	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-2"	1'-8"						
140	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-6"	2'-3"						
160	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-11"	2'-0"	2'-11"						
180	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	3'-8"						
200	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	2'-11"	3'-0"	3'-2"	4'-7"						
210	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-1"	3'-3"	3'-4"	3'-6"	5'-0"						
220	1'-3"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-10"	5'-6"						
230	1'-4"	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-8"	3'-10"	4'-0"	4'-2"	6'-0"						
240	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-11"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	6'-7"						
250	1'-7"	1'-8"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	7'-1"						
260	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	3'-11"	4'-2"	4'-4"	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	7'-8"						
270	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-8"	3'-10"	4'-1"	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-9"	8'-4"						
280	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-9"	3'-11"	4'-2"	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-2"	8'-11"						
290	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-9"	2'-11"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	9'-7"						
300	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-10"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	10'-3"						
310	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-4"	5'-7"	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-4"	7'-7"	11'-0"						
320	2'-7"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-11"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-5"	5'-8"	6'-0"	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-1"	11'-8"						
330	2'-9"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-2"	4'-5"	4'-7"	4'-11"	5'-2"	5'-5"	5'-9"	6'-1"	6'-4"	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	12'-5"						
340	2'-11"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-6"	5'-9"	6'-1"	6'-5"	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	13'-2"						
350	3'-1"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-3"	4'-5"	4'-8"	4'-11"	5'-2"	5'-6"	5'-10"	6'-1"	6'-6"	6'-10"	7'-2"	7'-6"	7'-10"	8'-3"	8'-7"	8'-11"	9'-4"	9'-8"	14'-0"						

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5098.10	54.50

Conductor 795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	205		ARBUTUS INITIAL								Eng. Use: MOT Temp (°F)
Condition Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188	
Tension (lbs)	5,217	5,012	4,815	4,614	4,411	4,210	4,013	3,818	3,627	3,440	3,262	3,088	2,926	2,767	2,624	2,488	2,362	2,244	2,139	2,040	1,950	1,870	1,795	1,726	1,662	1,149	
% Ultimate	33%	32%	31%	30%	28%	27%	26%	24%	23%	22%	21%	20%	19%	18%	17%	16%	15%	14%	14%	13%	12%	12%	12%	11%	11%	7%	
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	
R.S. Span 3-Wave Time	3.13	3.2	3.26	3.34	3.42	3.5	3.59	3.68	3.78	3.88	3.99	4.1	4.21	4.33	4.44	4.56	4.68	4.79	4.91	5.02	5.13	5.23	5.34	5.44	6.54	3.07	
50	0.76	0.78	0.8	0.81	0.83	0.85	0.88	0.9	0.92	0.95	0.97	1	1.03	1.06	1.08	1.11	1.14	1.17	1.2	1.22	1.25	1.28	1.3	1.33	1.59	0.75	
75	1.15	1.17	1.19	1.22	1.25	1.28	1.31	1.35	1.38	1.42	1.46	1.5	1.54	1.58	1.63	1.67	1.71	1.75	1.8	1.84	1.88	1.91	1.95	1.99	2.39	1.12	
100	1.53	1.56	1.59	1.63	1.67	1.71	1.75	1.8	1.84	1.89	1.95	2	2.06	2.11	2.17	2.23	2.28	2.34	2.39	2.45	2.5	2.55	2.6	2.65	3.19	1.5	
120	1.83	1.87	1.91	1.95	2	2.05	2.1	2.15	2.21	2.27	2.34	2.4	2.47	2.53	2.6	2.67	2.74	2.81	2.87	2.94	3	3.06	3.12	3.18	3.83	1.8	
140	2.14	2.18	2.23	2.28	2.33	2.39	2.45	2.51	2.58	2.65	2.72	2.8	2.88	2.96	3.04	3.12	3.2	3.27	3.35	3.43	3.5	3.57	3.64	3.71	4.47	2.1	
160	2.44	2.49	2.55	2.61	2.67	2.73	2.8	2.87	2.95	3.03	3.11	3.2	3.29	3.38	3.47	3.56	3.65	3.74	3.83	3.92	4	4.08	4.17	4.24	5.1	2.4	
180	2.75	2.81	2.87	2.93	3	3.07	3.15	3.23	3.32	3.41	3.5	3.6	3.7	3.8	3.9	4.01	4.11	4.21	4.31	4.41	4.5	4.6	4.69	4.78	5.74	2.69	
200	3.06	3.12	3.18	3.26	3.33	3.41	3.5	3.59	3.69	3.79	3.89	4	4.11	4.22	4.34	4.45	4.57	4.68	4.79	4.9	5	5.11	5.21	5.31	6.38	2.99	
210	3.21	3.27	3.34	3.42	3.5	3.59	3.68	3.77	3.87	3.98	4.09	4.2	4.32	4.43	4.55	4.67	4.79	4.91	5.03	5.14	5.25	5.36	5.47	5.57	6.7	3.14	
220	3.36	3.43	3.5	3.58	3.67	3.76	3.85	3.95	4.06	4.17	4.28	4.4	4.52	4.65	4.77	4.9	5.02	5.14	5.27	5.39	5.5	5.62	5.73	5.84	7.02	3.29	
230	3.51	3.58	3.66	3.75	3.83	3.93	4.03	4.13	4.24	4.36	4.48	4.6	4.73	4.86	4.99	5.12	5.25	5.38	5.51	5.63	5.75	5.87	5.99	6.1	7.34	3.44	
240	3.67	3.74	3.82	3.91	4	4.1	4.2	4.31	4.43	4.54	4.67	4.8	4.93	5.07	5.2	5.34	5.48	5.61	5.75	5.88	6	6.13	6.25	6.37	7.66	3.59	
250	3.82	3.9	3.98	4.07	4.17	4.27	4.38	4.49	4.61	4.73	4.87	5	5.14	5.28	5.42	5.56	5.71	5.85	5.99	6.12	6.25	6.38	6.51	6.63	7.98	3.74	
260	3.97	4.06	4.14	4.24	4.34	4.45	4.56	4.68	4.8	4.93	5.06	5.2	5.35	5.5	5.64	5.79	5.94	6.09	6.23	6.37	6.51	6.65	6.78	6.9	8.3	3.9	
270	4.13	4.21	4.3	4.4	4.51	4.62	4.73	4.86	4.98	5.12	5.26	5.4	5.56	5.71	5.86	6.02	6.17	6.32	6.47	6.62	6.76	6.9	7.04	7.17	8.62	4.05	
280	4.28	4.37	4.46	4.57	4.67	4.79	4.91	5.04	5.17	5.31	5.45	5.6	5.76	5.92	6.08	6.24	6.4	6.56	6.71	6.86	7.01	7.16	7.3	7.43	8.94	4.2	
290	4.43	4.53	4.62	4.73	4.84	4.96	5.08	5.22	5.35	5.5	5.65	5.81	5.97	6.13	6.3	6.46	6.63	6.79	6.95	7.11	7.26	7.41	7.56	7.7	9.26	4.35	
300	4.59	4.68	4.78	4.89	5.01	5.13	5.26	5.4	5.54	5.69	5.84	6.01	6.18	6.34	6.51	6.69	6.85	7.02	7.19	7.36	7.51	7.67	7.82	7.97	9.58	4.5	
310	4.74	4.84	4.94	5.05	5.17	5.3	5.43	5.58	5.72	5.88	6.04	6.21	6.38	6.55	6.73	6.91	7.08	7.26	7.43	7.6	7.76	7.92	8.08	8.23	9.9	4.65	
320	4.89	4.99	5.1	5.22	5.34	5.47	5.61	5.76	5.91	6.07	6.23	6.41	6.59	6.77	6.95	7.13	7.31	7.49	7.67	7.85	8.01	8.18	8.34	8.5	10.22	4.8	
330	5.04	5.15	5.26	5.38	5.51	5.64	5.78	5.94	6.09	6.26	6.43	6.61	6.79	6.98	7.16	7.36	7.54	7.73	7.91	8.09	8.26	8.44	8.6	8.76	10.54	4.95	
340	5.2	5.31	5.42	5.54	5.67	5.81	5.96	6.12	6.28	6.45	6.62	6.81	7	7.19	7.38	7.58	7.77	7.96	8.15	8.34	8.51	8.69	8.86	9.03	10.86	5.1	
350	5.35	5.46	5.58	5.71	5.84	5.98	6.14	6.3	6.46	6.64	6.82	7.01	7.2	7.4	7.6	7.8	8	8.2	8.39	8.58	8.76	8.95	9.12	9.29	11.18	5.25	

1098-05	GENERAL INFORMATION																
Sheet of	ENGINEERING NOTES AND SIGNAGE																
Rev: 03/26/2026	SAG & TENSION WITH TABLES																

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.50	4297.70	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	205	ARBUTUS CREEP												Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																														
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188				
Tension (lbs)	4,192	3,938	3,693	3,456	3,239	3,035	2,847	2,676	2,521	2,379	2,249	2,135	2,029	1,936	1,851	1,775	1,704	1,642	1,584	1,531	1,482	1,437	1,395	1,357	1,321	1,001				
% Ultimate	27%	25%	24%	22%	21%	19%	18%	17%	16%	15%	14%	14%	13%	12%	12%	11%	11%	11%	10%	10%	9%	9%	9%	9%	8%	6%				
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-10"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-3"	3'-4"	3'-6"	3'-7"	3'-9"	3'-10"	3'-11"	4'-1"	4'-2"	5'-6"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"				
75	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-9"				
100	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	1'-0"	1'-4"				
120	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-4"	1'-5"	1'-11"				
140	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-6"	1'-7"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-11"	2'-7"				
160	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-6"	3'-4"				
180	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-8"	2'-9"	2'-10"	2'-11"	3'-0"	3'-1"	3'-3"	4'-3"				
200	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"	3'-2"	3'-4"	3'-5"	3'-6"	3'-8"	3'-9"	3'-10"	4'-0"	5'-3"				
210	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-9"	3'-11"	4'-0"	4'-2"	4'-3"	4'-4"	5'-9"				
220	1'-6"	1'-7"	1'-9"	1'-10"	1'-11"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-10"	4'-0"	4'-2"	4'-3"	4'-5"	4'-6"	4'-8"	4'-9"	6'-4"				
230	1'-8"	1'-9"	1'-10"	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-4"	4'-6"	4'-8"	4'-10"	5'-0"	5'-1"	5'-3"	6'-11"				
240	1'-10"	1'-11"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	4'-11"	5'-1"	5'-3"	5'-5"	5'-7"	5'-9"	7'-6"				
250	1'-11"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-1"	3'-3"	3'-5"	3'-8"	3'-10"	4'-0"	4'-3"	4'-5"	4'-7"	4'-10"	5'-0"	5'-2"	5'-4"	5'-6"	5'-8"	5'-10"	6'-0"	6'-2"	8'-2"				
260	2'-1"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-4"	3'-6"	3'-9"	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	5'-0"	5'-2"	5'-5"	5'-7"	5'-9"	6'-0"	6'-2"	6'-4"	6'-6"	6'-8"	8'-10"				
270	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	6'-3"	6'-5"	6'-8"	6'-10"	7'-0"	7'-3"	9'-6"				
280	2'-5"	2'-7"	2'-9"	3'-0"	3'-2"	3'-5"	3'-7"	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	7'-2"	7'-4"	7'-7"	7'-9"	10'-3"				
290	2'-8"	2'-10"	3'-0"	3'-2"	3'-5"	3'-8"	3'-10"	4'-1"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	6'-11"	7'-2"	7'-5"	7'-8"	7'-11"	8'-1"	8'-4"	11'-0"				
300	2'-10"	3'-0"	3'-2"	3'-5"	3'-8"	3'-11"	4'-2"	4'-5"	4'-8"	5'-0"	5'-3"	5'-6"	5'-10"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	7'-9"	7'-11"	8'-3"	8'-5"	8'-8"	8'-11"	11'-9"				
310	3'-0"	3'-2"	3'-5"	3'-8"	3'-11"	4'-2"	4'-5"	4'-9"	5'-0"	5'-3"	5'-7"	5'-11"	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	8'-3"	8'-6"	8'-9"	9'-0"	9'-3"	9'-6"	12'-7"				
320	3'-2"	3'-5"	3'-8"	3'-11"	4'-2"	4'-5"	4'-9"	5'-0"	5'-4"	5'-8"	6'-0"	6'-3"	6'-7"	6'-11"	7'-3"	7'-7"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	9'-4"	9'-7"	9'-11"	10'-2"	13'-5"				
330	3'-5"	3'-8"	3'-10"	4'-1"	4'-5"	4'-8"	5'-0"	5'-4"	5'-8"	6'-0"	6'-4"	6'-8"	7'-0"	7'-4"	7'-9"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	9'-11"	10'-3"	10'-6"	10'-10"	14'-3"				
340	3'-7"	3'-10"	4'-1"	4'-5"	4'-8"	5'-0"	5'-4"	5'-8"	6'-0"	6'-4"	6'-9"	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-11"	9'-3"	9'-7"	9'-11"	10'-3"	10'-7"	10'-10"	11'-2"	11'-6"	15'-2"				
350	3'-10"	4'-1"	4'-4"	4'-8"	5'-0"	5'-3"	5'-8"	6'-0"	6'-4"	6'-9"	7'-2"	7'-6"	7'-11"	8'-3"	8'-8"	9'-1"	9'-5"	9'-9"	10'-2"	10'-6"	10'-10"	11'-2"	11'-6"	11'-10"	12'-2"	16'-1"				

1098-05	GENERAL INFORMATION										
Sheet of	ENGINEERING NOTES AND SIGNAGE										
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES										

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.50	4297.70	45.90

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	205		ARBUTUS CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	4,192	3,938	3,693	3,456	3,239	3,035	2,847	2,676	2,521	2,379	2,249	2,135	2,029	1,936	1,851	1,775	1,704	1,642	1,584	1,531	1,482	1,437	1,395	1,357	1,321	1,001		
% Ultimate	27%	25%	24%	22%	21%	19%	18%	17%	16%	15%	14%	14%	13%	12%	12%	11%	11%	11%	10%	10%	9%	9%	9%	9%	8%	6%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	3.53	3.65	3.77	3.9	4.02	4.15	4.29	4.42	4.55	4.68	4.8	4.92	5.04	5.15	5.26	5.37	5.47	5.57	5.67	5.76	5.85	5.94	6.02	6.1	7.01	3.42		
50	0.86	0.89	0.92	0.95	0.98	1.01	1.05	1.08	1.11	1.14	1.17	1.2	1.23	1.26	1.28	1.31	1.33	1.36	1.38	1.4	1.43	1.45	1.47	1.49	1.71	0.84		
75	1.29	1.33	1.38	1.43	1.47	1.52	1.57	1.62	1.66	1.71	1.76	1.8	1.84	1.89	1.93	1.96	2	2.04	2.07	2.11	2.14	2.17	2.2	2.23	2.56	1.25		
100	1.72	1.78	1.84	1.9	1.96	2.03	2.09	2.15	2.22	2.28	2.34	2.4	2.46	2.51	2.57	2.62	2.67	2.72	2.76	2.81	2.85	2.9	2.94	2.98	3.42	1.67		
120	2.07	2.14	2.21	2.28	2.36	2.43	2.51	2.58	2.66	2.74	2.81	2.88	2.95	3.02	3.08	3.14	3.2	3.26	3.32	3.37	3.42	3.47	3.52	3.57	4.1	2		
140	2.41	2.49	2.58	2.66	2.75	2.84	2.93	3.02	3.1	3.19	3.28	3.36	3.44	3.52	3.59	3.67	3.74	3.8	3.87	3.93	3.99	4.05	4.11	4.17	4.79	2.34		
160	2.76	2.85	2.94	3.04	3.14	3.24	3.34	3.45	3.55	3.65	3.75	3.84	3.93	4.02	4.11	4.19	4.27	4.35	4.42	4.5	4.57	4.63	4.7	4.76	5.47	2.67		
180	3.1	3.2	3.31	3.42	3.53	3.65	3.76	3.88	3.99	4.11	4.21	4.32	4.42	4.52	4.62	4.72	4.8	4.89	4.98	5.06	5.14	5.21	5.29	5.36	6.15	3.01		
200	3.45	3.56	3.68	3.8	3.93	4.05	4.18	4.31	4.43	4.56	4.68	4.8	4.92	5.03	5.13	5.24	5.34	5.44	5.53	5.62	5.71	5.79	5.87	5.95	6.84	3.34		
210	3.62	3.74	3.86	3.99	4.12	4.26	4.39	4.52	4.66	4.79	4.92	5.04	5.16	5.28	5.39	5.5	5.61	5.71	5.81	5.9	5.99	6.08	6.17	6.25	7.18	3.51		
220	3.79	3.92	4.05	4.18	4.32	4.46	4.6	4.74	4.88	5.02	5.15	5.28	5.41	5.53	5.65	5.76	5.87	5.98	6.08	6.18	6.28	6.37	6.46	6.55	7.52	3.67		
230	3.96	4.09	4.23	4.37	4.52	4.66	4.81	4.95	5.1	5.25	5.38	5.52	5.65	5.78	5.91	6.03	6.14	6.25	6.36	6.46	6.56	6.66	6.76	6.85	7.86	3.84		
240	4.14	4.27	4.42	4.56	4.71	4.86	5.02	5.17	5.32	5.47	5.62	5.76	5.9	6.03	6.16	6.29	6.41	6.52	6.64	6.74	6.85	6.95	7.05	7.14	8.21	4.01		
250	4.31	4.45	4.6	4.75	4.91	5.07	5.23	5.38	5.54	5.7	5.85	6	6.15	6.28	6.42	6.55	6.67	6.8	6.91	7.03	7.13	7.24	7.34	7.44	8.55	4.18		
260	4.49	4.63	4.79	4.95	5.11	5.28	5.44	5.61	5.77	5.93	6.09	6.25	6.4	6.54	6.68	6.82	6.95	7.07	7.19	7.31	7.43	7.53	7.64	7.74	8.89	4.34		
270	4.66	4.81	4.97	5.14	5.31	5.48	5.65	5.82	5.99	6.16	6.33	6.49	6.64	6.79	6.94	7.08	7.21	7.34	7.47	7.59	7.71	7.82	7.93	8.04	9.24	4.51		
280	4.83	4.99	5.15	5.33	5.5	5.68	5.86	6.04	6.21	6.39	6.56	6.73	6.89	7.05	7.2	7.34	7.48	7.61	7.75	7.87	8	8.11	8.23	8.34	9.58	4.68		
290	5	5.17	5.34	5.52	5.7	5.89	6.07	6.26	6.44	6.62	6.79	6.97	7.13	7.3	7.45	7.6	7.75	7.89	8.02	8.15	8.28	8.4	8.52	8.64	9.92	4.85		
300	5.18	5.35	5.52	5.71	5.9	6.09	6.28	6.47	6.66	6.85	7.03	7.21	7.38	7.55	7.71	7.86	8.01	8.16	8.3	8.44	8.57	8.69	8.82	8.94	10.27	5.01		
310	5.35	5.53	5.71	5.9	6.09	6.29	6.49	6.69	6.88	7.08	7.26	7.45	7.63	7.8	7.97	8.13	8.28	8.43	8.58	8.72	8.86	8.98	9.11	9.23	10.61	5.18		
320	5.52	5.7	5.89	6.09	6.29	6.49	6.7	6.9	7.1	7.3	7.5	7.69	7.87	8.05	8.22	8.39	8.55	8.7	8.86	9	9.14	9.27	9.41	9.53	10.95	5.35		
330	5.7	5.88	6.07	6.28	6.49	6.7	6.91	7.12	7.32	7.53	7.73	7.93	8.12	8.3	8.48	8.65	8.82	8.98	9.13	9.28	9.43	9.56	9.7	9.83	11.29	5.51		
340	5.87	6.06	6.26	6.47	6.68	6.9	7.12	7.33	7.55	7.76	7.97	8.17	8.37	8.56	8.74	8.91	9.08	9.25	9.41	9.56	9.71	9.85	9.99	10.13	11.64	5.68		
350	6.04	6.24	6.44	6.66	6.88	7.1	7.33	7.55	7.77	7.99	8.2	8.41	8.61	8.81	9	9.18	9.35	9.52	9.69	9.84	10	10.14	10.29	10.43	11.98	5.85		

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	SAG & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5098.40	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1.292	Rated Breaking		15,600	Ruling Span (Feet)	220	ARBUTUS INITIAL												Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension													Strength																	
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188					
Tension (lbs)	5,142	4,946	4,742	4,547	4,348	4,158	3,966	3,776	3,591	3,415	3,243	3,079	2,925	2,777	2,640	2,511	2,391	2,284	2,182	2,090	2,004	1,924	1,852	1,785	1,725	1,214					
% Ultimate	33%	32%	30%	29%	28%	27%	25%	24%	23%	22%	21%	20%	19%	18%	17%	16%	15%	15%	14%	13%	13%	12%	12%	11%	11%	8%					
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)					
Ruling Span Sag	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-8"	5'-3"					
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"					
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-7"					
100	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	1'-1"					
120	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-7"					
140	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	2'-1"					
160	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	1'-11"	2'-9"					
180	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	3'-6"					
200	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	2'-11"	3'-0"	4'-4"					
210	1'-1"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-1"	3'-3"	3'-4"	4'-9"					
220	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-8"	5'-3"					
230	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-5"	3'-7"	3'-9"	3'-11"	4'-0"	5'-8"					
240	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-4"	6'-3"					
250	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	6'-9"					
260	1'-9"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	4'-11"	5'-2"	7'-3"					
270	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-8"	2'-10"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-10"	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	5'-0"	5'-2"	5'-4"	5'-6"	7'-10"					
280	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-4"	3'-6"	3'-8"	3'-11"	4'-1"	4'-3"	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-6"	5'-9"	6'-0"	8'-6"					
290	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-5"	4'-7"	4'-10"	5'-1"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	6'-5"	9'-1"					
300	2'-3"	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-3"	3'-6"	3'-8"	3'-10"	4'-0"	4'-3"	4'-6"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	6'-10"	9'-9"					
310	2'-5"	2'-7"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-11"	4'-1"	4'-4"	4'-6"	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-7"	6'-9"	7'-1"	7'-4"	10'-5"					
320	2'-7"	2'-9"	2'-10"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-2"	4'-4"	4'-7"	4'-10"	5'-1"	5'-4"	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	11'-1"					
330	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	6'-0"	6'-3"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	11'-9"					
340	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-3"	4'-5"	4'-8"	4'-11"	5'-2"	5'-6"	5'-9"	6'-0"	6'-4"	6'-8"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	8'-9"	12'-6"					
350	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-10"	4'-1"	4'-3"	4'-6"	4'-8"	4'-11"	5'-3"	5'-6"	5'-9"	6'-1"	6'-5"	6'-9"	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	13'-3"					

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5098.40	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1,292	Rated Breaking Strength		15,600	Ruling Span (Feet)	220		ARBUTUS INITIAL								Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	5,142	4,946	4,742	4,547	4,348	4,158	3,966	3,776	3,591	3,415	3,243	3,079	2,925	2,777	2,640	2,511	2,391	2,284	2,182	2,090	2,004	1,924	1,852	1,785	1,725	1,214		
% Ultimate	33%	32%	30%	29%	28%	27%	25%	24%	23%	22%	21%	20%	19%	18%	17%	16%	15%	15%	14%	13%	13%	12%	12%	11%	11%	8%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	3.38	3.45	3.53	3.61	3.69	3.78	3.87	3.97	4.07	4.18	4.29	4.4	4.52	4.63	4.75	4.87	4.98	5.09	5.21	5.32	5.42	5.53	5.63	5.73	6.83	3.32		
50	0.77	0.79	0.8	0.82	0.84	0.86	0.88	0.9	0.93	0.95	0.97	1	1.03	1.05	1.08	1.11	1.13	1.16	1.18	1.21	1.23	1.26	1.28	1.3	1.55	0.75		
75	1.15	1.18	1.2	1.23	1.26	1.29	1.32	1.35	1.39	1.42	1.46	1.5	1.54	1.58	1.62	1.66	1.7	1.74	1.77	1.81	1.85	1.88	1.92	1.95	2.33	1.13		
100	1.54	1.57	1.6	1.64	1.68	1.72	1.76	1.8	1.85	1.9	1.95	2	2.05	2.1	2.16	2.21	2.26	2.32	2.37	2.42	2.47	2.51	2.56	2.6	3.1	1.51		
120	1.85	1.88	1.92	1.97	2.01	2.06	2.11	2.17	2.22	2.28	2.34	2.4	2.46	2.53	2.59	2.65	2.72	2.78	2.84	2.9	2.96	3.02	3.07	3.12	3.73	1.81		
140	2.15	2.2	2.25	2.3	2.35	2.4	2.46	2.53	2.59	2.66	2.73	2.8	2.87	2.95	3.02	3.1	3.17	3.24	3.31	3.38	3.45	3.52	3.58	3.65	4.35	2.11		
160	2.46	2.51	2.57	2.62	2.68	2.75	2.82	2.89	2.96	3.04	3.12	3.2	3.28	3.37	3.45	3.54	3.62	3.7	3.79	3.87	3.95	4.02	4.1	4.17	4.97	2.41		
180	2.77	2.83	2.89	2.95	3.02	3.09	3.17	3.25	3.33	3.42	3.51	3.6	3.69	3.79	3.88	3.98	4.07	4.17	4.26	4.35	4.44	4.52	4.61	4.69	5.59	2.71		
200	3.08	3.14	3.21	3.28	3.35	3.43	3.52	3.61	3.7	3.8	3.9	4	4.1	4.21	4.32	4.42	4.53	4.63	4.73	4.83	4.93	5.03	5.12	5.21	6.21	3.02		
210	3.23	3.3	3.37	3.44	3.52	3.61	3.7	3.79	3.89	3.99	4.09	4.2	4.31	4.42	4.53	4.64	4.75	4.86	4.97	5.07	5.18	5.28	5.38	5.47	6.52	3.17		
220	3.38	3.45	3.53	3.61	3.69	3.78	3.87	3.97	4.07	4.18	4.29	4.4	4.52	4.63	4.75	4.87	4.98	5.09	5.21	5.32	5.42	5.53	5.63	5.73	6.83	3.32		
230	3.54	3.61	3.69	3.77	3.86	3.95	4.05	4.15	4.26	4.37	4.48	4.6	4.72	4.84	4.96	5.09	5.21	5.33	5.44	5.56	5.67	5.78	5.89	5.99	7.14	3.47		
240	3.69	3.77	3.85	3.94	4.03	4.12	4.22	4.33	4.44	4.56	4.68	4.8	4.93	5.05	5.18	5.31	5.43	5.56	5.68	5.8	5.92	6.03	6.14	6.25	7.45	3.62		
250	3.84	3.93	4.01	4.1	4.19	4.29	4.4	4.51	4.63	4.75	4.87	5	5.13	5.26	5.4	5.53	5.66	5.79	5.92	6.04	6.16	6.28	6.4	6.51	7.76	3.77		
260	4	4.08	4.17	4.26	4.36	4.47	4.58	4.69	4.81	4.94	5.07	5.2	5.34	5.47	5.61	5.75	5.88	6.02	6.15	6.28	6.41	6.53	6.66	6.77	8.07	3.92		
270	4.16	4.24	4.33	4.43	4.53	4.64	4.76	4.88	5	5.13	5.27	5.4	5.55	5.69	5.84	5.98	6.12	6.26	6.4	6.53	6.66	6.79	6.92	7.04	8.39	4.07		
280	4.31	4.4	4.49	4.6	4.7	4.82	4.94	5.06	5.19	5.32	5.47	5.6	5.75	5.9	6.05	6.2	6.35	6.49	6.63	6.77	6.91	7.04	7.17	7.3	8.7	4.23		
290	4.46	4.56	4.65	4.76	4.87	4.99	5.11	5.24	5.37	5.51	5.66	5.81	5.96	6.11	6.27	6.42	6.57	6.72	6.87	7.01	7.16	7.29	7.43	7.56	9.01	4.38		
300	4.62	4.71	4.81	4.92	5.04	5.16	5.29	5.42	5.56	5.7	5.86	6.01	6.16	6.32	6.48	6.64	6.8	6.95	7.11	7.26	7.4	7.54	7.68	7.82	9.32	4.53		
310	4.77	4.87	4.98	5.09	5.21	5.33	5.46	5.6	5.75	5.89	6.05	6.21	6.37	6.53	6.7	6.86	7.03	7.18	7.34	7.5	7.65	7.8	7.94	8.08	9.63	4.68		
320	4.93	5.03	5.14	5.25	5.37	5.5	5.64	5.78	5.93	6.08	6.25	6.41	6.58	6.74	6.92	7.08	7.25	7.42	7.58	7.74	7.9	8.05	8.2	8.34	9.94	4.83		
330	5.08	5.19	5.3	5.42	5.54	5.68	5.82	5.96	6.12	6.27	6.44	6.61	6.78	6.96	7.13	7.3	7.48	7.65	7.82	7.98	8.15	8.3	8.45	8.6	10.26	4.98		
340	5.23	5.34	5.46	5.58	5.71	5.85	5.99	6.14	6.3	6.46	6.64	6.81	6.99	7.17	7.35	7.53	7.71	7.88	8.06	8.22	8.39	8.55	8.71	8.87	10.57	5.13		
350	5.39	5.5	5.62	5.74	5.88	6.02	6.17	6.32	6.49	6.65	6.83	7.01	7.19	7.38	7.56	7.75	7.93	8.11	8.29	8.47	8.64	8.8	8.97	9.13	10.88	5.28		

1098-05	GENERAL INFORMATION										
Sheet of	ENGINEERING NOTES AND SIGNAGE										
Rev: 03/26/2026	SAG & TENSION WITH TABLES										

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.60	4309.50	46.00

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	220	ARBUTUS CREEP												Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																														
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188				
Tension (lbs)	4,084	3,838	3,601	3,389	3,185	2,997	2,822	2,663	2,520	2,390	2,272	2,163	2,065	1,976	1,898	1,823	1,757	1,696	1,640	1,588	1,540	1,497	1,456	1,417	1,382	1,059				
% Ultimate	26%	25%	23%	22%	20%	19%	18%	17%	16%	15%	15%	14%	13%	13%	12%	12%	11%	11%	11%	10%	10%	10%	9%	9%	9%	7%				
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-7"	3'-9"	3'-10"	4'-0"	4'-1"	4'-3"	4'-4"	4'-6"	4'-7"	6'-0"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"				
75	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-8"				
100	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	1'-3"				
120	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-4"	1'-4"	1'-9"				
140	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-10"	2'-5"				
160	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-4"	2'-5"	3'-2"				
180	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-7"	2'-8"	2'-9"	2'-10"	2'-11"	3'-0"	3'-1"	4'-0"				
200	1'-3"	1'-4"	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	2'-10"	3'-0"	3'-1"	3'-2"	3'-3"	3'-5"	3'-6"	3'-7"	3'-8"	3'-9"	4'-11"				
210	1'-5"	1'-6"	1'-7"	1'-8"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	3'-5"	3'-6"	3'-8"	3'-9"	3'-10"	4'-0"	4'-1"	4'-2"	5'-5"				
220	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-7"	3'-9"	3'-10"	4'-0"	4'-1"	4'-3"	4'-4"	4'-6"	4'-7"	6'-0"				
230	1'-8"	1'-10"	1'-11"	2'-0"	2'-2"	2'-4"	2'-5"	2'-7"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	3'-11"	4'-1"	4'-3"	4'-4"	4'-6"	4'-7"	4'-9"	4'-11"	5'-0"	6'-6"				
240	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-3"	4'-5"	4'-7"	4'-9"	4'-11"	5'-0"	5'-2"	5'-4"	5'-5"	7'-1"				
250	2'-0"	2'-2"	2'-3"	2'-5"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	4'-10"	5'-0"	5'-2"	5'-4"	5'-6"	5'-7"	5'-9"	5'-11"	7'-9"				
260	2'-2"	2'-4"	2'-5"	2'-7"	2'-9"	2'-11"	3'-2"	3'-4"	3'-6"	3'-8"	3'-11"	4'-1"	4'-3"	4'-6"	4'-8"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	5'-9"	5'-11"	6'-1"	6'-3"	6'-5"	8'-4"				
270	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-5"	3'-7"	3'-9"	4'-0"	4'-3"	4'-5"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	6'-0"	6'-2"	6'-5"	6'-7"	6'-9"	6'-11"	9'-0"				
280	2'-6"	2'-8"	2'-10"	3'-0"	3'-3"	3'-5"	3'-8"	3'-10"	4'-1"	4'-4"	4'-6"	4'-9"	5'-0"	5'-2"	5'-5"	5'-8"	5'-10"	6'-1"	6'-3"	6'-6"	6'-8"	6'-10"	7'-1"	7'-3"	7'-5"	9'-8"				
290	2'-8"	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-11"	4'-2"	4'-4"	4'-7"	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	7'-2"	7'-4"	7'-7"	7'-9"	8'-0"	10'-5"				
300	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-11"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	7'-2"	7'-5"	7'-8"	7'-11"	8'-1"	8'-4"	8'-6"	11'-2"				
310	3'-1"	3'-3"	3'-6"	3'-9"	3'-11"	4'-2"	4'-6"	4'-9"	5'-0"	5'-3"	5'-7"	5'-10"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	7'-8"	7'-11"	8'-2"	8'-5"	8'-8"	8'-11"	9'-1"	11'-11"				
320	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-4"	5'-7"	5'-11"	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-8"	7'-11"	8'-2"	8'-5"	8'-9"	9'-0"	9'-3"	9'-6"	9'-9"	12'-8"				
330	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-1"	5'-4"	5'-8"	6'-0"	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	9'-0"	9'-3"	9'-6"	9'-10"	10'-1"	10'-4"	13'-6"				
340	3'-9"	3'-11"	4'-2"	4'-6"	4'-9"	5'-1"	5'-4"	5'-8"	6'-0"	6'-4"	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-7"	8'-11"	9'-3"	9'-6"	9'-10"	10'-1"	10'-5"	10'-8"	11'-0"	14'-4"				
350	3'-11"	4'-2"	4'-6"	4'-9"	5'-0"	5'-4"	5'-8"	6'-0"	6'-4"	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-9"	10'-1"	10'-5"	10'-9"	11'-0"	11'-4"	11'-7"	15'-2"				

1098-05	GENERAL INFORMATION										
Sheet of	ENGINEERING NOTES AND SIGNAGE										
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES										

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.60	4309.50	46.00

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	220		ARBUTUS CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	4,084	3,838	3,601	3,389	3,185	2,997	2,822	2,663	2,520	2,390	2,272	2,163	2,065	1,976	1,898	1,823	1,757	1,696	1,640	1,588	1,540	1,497	1,456	1,417	1,382	1,059		
% Ultimate	26%	25%	23%	22%	20%	19%	18%	17%	16%	15%	15%	14%	13%	13%	12%	12%	11%	11%	11%	10%	10%	10%	9%	9%	9%	7%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	3.84	3.96	4.09	4.22	4.35	4.48	4.61	4.74	4.87	4.99	5.12	5.24	5.35	5.46	5.57	5.68	5.78	5.88	5.97	6.06	6.15	6.24	6.32	6.4	7.31	3.72		
50	0.87	0.9	0.93	0.96	0.99	1.02	1.05	1.08	1.11	1.13	1.16	1.19	1.22	1.24	1.27	1.29	1.31	1.34	1.36	1.38	1.4	1.42	1.44	1.45	1.66	0.85		
75	1.31	1.35	1.39	1.44	1.48	1.53	1.57	1.62	1.66	1.7	1.74	1.78	1.82	1.86	1.9	1.94	1.97	2	2.04	2.07	2.1	2.13	2.15	2.18	2.49	1.27		
100	1.75	1.8	1.86	1.92	1.98	2.04	2.1	2.15	2.21	2.27	2.33	2.38	2.43	2.48	2.53	2.58	2.63	2.67	2.71	2.76	2.8	2.83	2.87	2.91	3.32	1.69		
120	2.09	2.16	2.23	2.3	2.37	2.44	2.51	2.59	2.65	2.72	2.79	2.86	2.92	2.98	3.04	3.1	3.15	3.2	3.26	3.31	3.35	3.4	3.45	3.49	3.99	2.03		
140	2.44	2.52	2.6	2.68	2.77	2.85	2.93	3.02	3.1	3.18	3.26	3.33	3.41	3.48	3.55	3.61	3.68	3.74	3.8	3.86	3.91	3.97	4.02	4.07	4.65	2.37		
160	2.79	2.88	2.97	3.07	3.16	3.26	3.35	3.45	3.54	3.63	3.72	3.81	3.89	3.97	4.05	4.13	4.2	4.27	4.34	4.41	4.47	4.54	4.6	4.66	5.32	2.71		
180	3.14	3.24	3.34	3.45	3.56	3.66	3.77	3.88	3.98	4.08	4.19	4.28	4.38	4.47	4.56	4.64	4.73	4.81	4.89	4.96	5.03	5.1	5.17	5.24	5.98	3.05		
200	3.49	3.6	3.72	3.83	3.95	4.07	4.19	4.31	4.42	4.54	4.65	4.76	4.87	4.97	5.07	5.16	5.25	5.34	5.43	5.51	5.59	5.67	5.75	5.82	6.65	3.38		
210	3.67	3.78	3.9	4.02	4.15	4.28	4.4	4.52	4.65	4.76	4.88	5	5.11	5.21	5.32	5.42	5.51	5.61	5.7	5.79	5.87	5.95	6.03	6.11	6.98	3.55		
220	3.84	3.96	4.09	4.22	4.35	4.48	4.61	4.74	4.87	4.99	5.12	5.24	5.35	5.46	5.57	5.68	5.78	5.88	5.97	6.06	6.15	6.24	6.32	6.4	7.31	3.72		
230	4.01	4.14	4.27	4.41	4.54	4.68	4.82	4.95	5.09	5.22	5.35	5.47	5.6	5.71	5.83	5.94	6.04	6.14	6.24	6.34	6.43	6.52	6.61	6.69	7.65	3.89		
240	4.19	4.33	4.46	4.6	4.74	4.89	5.03	5.17	5.31	5.45	5.58	5.71	5.84	5.96	6.08	6.19	6.3	6.41	6.51	6.61	6.71	6.8	6.9	6.98	7.98	4.06		
250	4.36	4.51	4.64	4.79	4.94	5.09	5.24	5.39	5.53	5.67	5.81	5.95	6.08	6.21	6.33	6.45	6.57	6.68	6.79	6.89	6.99	7.09	7.18	7.28	8.31	4.23		
260	4.54	4.69	4.83	4.98	5.14	5.29	5.45	5.6	5.75	5.9	6.05	6.19	6.33	6.46	6.59	6.71	6.83	6.94	7.06	7.17	7.27	7.37	7.47	7.57	8.65	4.4		
270	4.72	4.87	5.02	5.18	5.34	5.5	5.67	5.82	5.98	6.13	6.28	6.43	6.57	6.71	6.84	6.97	7.09	7.22	7.33	7.45	7.55	7.66	7.76	7.86	8.98	4.58		
280	4.9	5.05	5.21	5.37	5.54	5.71	5.87	6.04	6.2	6.36	6.51	6.67	6.82	6.96	7.1	7.23	7.36	7.48	7.6	7.72	7.83	7.94	8.05	8.15	9.31	4.75		
290	5.07	5.23	5.4	5.56	5.73	5.91	6.08	6.26	6.42	6.59	6.75	6.9	7.06	7.21	7.35	7.49	7.62	7.75	7.88	8	8.11	8.23	8.34	8.45	9.65	4.92		
300	5.25	5.41	5.58	5.75	5.93	6.11	6.29	6.47	6.65	6.82	6.98	7.14	7.3	7.46	7.6	7.75	7.88	8.02	8.15	8.27	8.39	8.51	8.63	8.74	9.98	5.09		
310	5.42	5.59	5.77	5.95	6.13	6.32	6.5	6.69	6.87	7.04	7.21	7.38	7.55	7.71	7.86	8.01	8.15	8.28	8.42	8.55	8.67	8.8	8.91	9.03	10.31	5.26		
320	5.6	5.77	5.95	6.14	6.33	6.52	6.71	6.9	7.09	7.27	7.45	7.62	7.79	7.95	8.11	8.26	8.41	8.55	8.69	8.83	8.95	9.08	9.2	9.32	10.65	5.42		
330	5.77	5.95	6.14	6.33	6.53	6.73	6.92	7.12	7.31	7.5	7.68	7.86	8.03	8.2	8.36	8.52	8.67	8.82	8.96	9.1	9.23	9.36	9.49	9.61	10.98	5.59		
340	5.95	6.13	6.33	6.52	6.72	6.93	7.13	7.33	7.53	7.73	7.91	8.1	8.28	8.45	8.62	8.78	8.94	9.09	9.24	9.38	9.52	9.65	9.78	9.9	11.31	5.76		
350	6.12	6.31	6.51	6.71	6.92	7.13	7.34	7.55	7.75	7.95	8.14	8.33	8.52	8.7	8.87	9.04	9.2	9.35	9.51	9.65	9.8	9.93	10.07	10.2	11.65	5.93		

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	SAG & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.40	5098.70	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1,292	Rated Breaking Strength		15,600	Ruling Span (Feet)	235		ARBUS INITIAL										Eng. Use: MOT
Condition	Initial Sag & Tension																			Temp (°F)										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188				
Tension (lbs)	5,065	4,869	4,675	4,478	4,290	4,100	3,912	3,734	3,554	3,384	3,224	3,069	2,922	2,783	2,652	2,534	2,421	2,316	2,222	2,133	2,051	1,976	1,906	1,841	1,783	1,275				
% Ultimate	32%	31%	30%	29%	28%	26%	25%	24%	23%	22%	21%	20%	19%	18%	17%	16%	16%	15%	14%	14%	13%	13%	12%	12%	11%	8%				
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-9"	3'-11"	4'-1"	5'-8"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"				
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-7"				
100	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	1'-0"				
120	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	0'-10"	0'-10"	0'-11"	1'-6"				
140	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-11"	0'-11"	0'-11"	0'-10"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	2'-0"				
160	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	0'-10"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-14"	0'-15"	0'-15"	0'-16"	0'-17"	0'-18"	0'-18"	0'-19"	0'-10"	2'-8"				
180	0'-10"	0'-10"	0'-11"	0'-11"	0'-10"	0'-10"	0'-11"	0'-12"	0'-12"	0'-13"	0'-14"	0'-15"	0'-15"	0'-16"	0'-17"	0'-18"	0'-19"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	3'-4"				
200	0'-10"	0'-11"	0'-11"	0'-12"	0'-13"	0'-13"	0'-14"	0'-15"	0'-16"	0'-17"	0'-17"	0'-18"	0'-19"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	4'-1"				
210	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-15"	0'-16"	0'-16"	0'-17"	0'-18"	0'-19"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	4'-6"				
220	0'-13"	0'-14"	0'-14"	0'-15"	0'-16"	0'-16"	0'-17"	0'-18"	0'-19"	0'-10"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	5'-0"				
230	0'-14"	0'-15"	0'-16"	0'-16"	0'-17"	0'-18"	0'-19"	0'-10"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	0'-18"	0'-18"	5'-5"				
240	0'-16"	0'-17"	0'-17"	0'-18"	0'-19"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	0'-18"	0'-18"	0'-19"	0'-19"	0'-20"	0'-20"	5'-11"				
250	0'-17"	0'-18"	0'-19"	0'-10"	0'-11"	0'-12"	0'-12"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	0'-18"	0'-18"	0'-19"	0'-19"	0'-20"	0'-20"	0'-21"	0'-21"	0'-22"	6'-5"				
260	0'-19"	0'-10"	0'-11"	0'-20"	0'-21"	0'-22"	0'-23"	0'-24"	0'-26"	0'-27"	0'-29"	0'-21"	0'-21"	0'-22"	0'-22"	0'-23"	0'-23"	0'-24"	0'-24"	0'-25"	0'-25"	0'-26"	0'-26"	0'-27"	0'-27"	6'-11"				
270	0'-11"	0'-20"	0'-20"	0'-22"	0'-23"	0'-24"	0'-25"	0'-27"	0'-28"	0'-10"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	7'-6"				
280	0'-20"	0'-21"	0'-22"	0'-23"	0'-25"	0'-26"	0'-27"	0'-29"	0'-21"	0'-21"	0'-22"	0'-22"	0'-23"	0'-23"	0'-24"	0'-24"	0'-25"	0'-25"	0'-26"	0'-26"	0'-27"	0'-27"	0'-28"	0'-28"	0'-29"	8'-1"				
290	0'-22"	0'-23"	0'-24"	0'-26"	0'-27"	0'-28"	0'-20"	0'-21"	0'-21"	0'-22"	0'-22"	0'-23"	0'-23"	0'-24"	0'-24"	0'-25"	0'-25"	0'-26"	0'-26"	0'-27"	0'-27"	0'-28"	0'-28"	0'-29"	0'-29"	8'-8"				
300	0'-24"	0'-25"	0'-26"	0'-28"	0'-29"	0'-10"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	0'-18"	0'-18"	0'-19"	0'-19"	9'-3"				
310	0'-26"	0'-27"	0'-28"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	0'-18"	0'-18"	0'-19"	0'-19"	0'-20"	0'-20"	0'-21"	9'-10"				
320	0'-28"	0'-29"	0'-10"	0'-30"	0'-32"	0'-33"	0'-35"	0'-37"	0'-39"	0'-40"	0'-42"	0'-44"	0'-47"	0'-410"	0'-51"	0'-53"	0'-56"	0'-59"	0'-60"	0'-63"	0'-66"	0'-69"	0'-70"	0'-73"	0'-76"	10'-6"				
330	0'-10"	0'-11"	0'-11"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	0'-18"	0'-18"	0'-19"	0'-19"	0'-20"	0'-20"	0'-21"	0'-21"	0'-22"	0'-22"	0'-23"	11'-2"				
340	0'-30"	0'-31"	0'-33"	0'-35"	0'-36"	0'-38"	0'-10"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	0'-18"	0'-18"	0'-19"	0'-19"	11'-11"				
350	0'-32"	0'-33"	0'-35"	0'-37"	0'-39"	0'-11"	0'-11"	0'-12"	0'-12"	0'-13"	0'-13"	0'-14"	0'-14"	0'-15"	0'-15"	0'-16"	0'-16"	0'-17"	0'-17"	0'-18"	0'-18"	0'-19"	0'-19"	0'-20"	0'-20"	12'-7"				

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.40	5098.70	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1,292	Rated Breaking Strength		15,600	Ruling Span (Feet)	235		ARBUTUS INITIAL								Eng. Use: MOT Temp (°F)
Condition	Initial Sag & Tension																											
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	5,065	4,869	4,675	4,478	4,290	4,100	3,912	3,734	3,554	3,384	3,224	3,069	2,922	2,783	2,652	2,534	2,421	2,316	2,222	2,133	2,051	1,976	1,906	1,841	1,783	1,275		
% Ultimate	32%	31%	30%	29%	28%	26%	25%	24%	23%	22%	21%	20%	19%	18%	17%	16%	16%	15%	14%	14%	13%	13%	12%	12%	11%	8%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	3.64	3.72	3.8	3.88	3.97	4.06	4.16	4.26	4.37	4.48	4.59	4.7	4.82	4.93	5.05	5.17	5.28	5.39	5.5	5.61	5.72	5.82	5.92	6.02	7.12	3.57		
50	0.77	0.79	0.81	0.82	0.84	0.86	0.88	0.91	0.93	0.95	0.97	1	1.02	1.05	1.07	1.1	1.12	1.15	1.17	1.19	1.22	1.24	1.26	1.28	1.51	0.76		
75	1.16	1.19	1.21	1.24	1.27	1.3	1.33	1.36	1.39	1.43	1.46	1.5	1.54	1.57	1.61	1.65	1.68	1.72	1.75	1.79	1.82	1.86	1.89	1.92	2.27	1.14		
100	1.55	1.58	1.62	1.65	1.69	1.73	1.77	1.81	1.86	1.9	1.95	2	2.05	2.1	2.15	2.2	2.25	2.29	2.34	2.39	2.43	2.48	2.52	2.56	3.03	1.52		
120	1.86	1.9	1.94	1.98	2.03	2.07	2.12	2.18	2.23	2.29	2.34	2.4	2.46	2.52	2.58	2.64	2.7	2.75	2.81	2.87	2.92	2.97	3.02	3.07	3.63	1.82		
140	2.17	2.21	2.26	2.31	2.36	2.42	2.48	2.54	2.6	2.67	2.73	2.8	2.87	2.94	3.01	3.08	3.15	3.21	3.28	3.34	3.41	3.47	3.53	3.59	4.24	2.13		
160	2.48	2.53	2.59	2.64	2.7	2.77	2.83	2.9	2.97	3.05	3.12	3.2	3.28	3.36	3.44	3.52	3.6	3.67	3.75	3.82	3.89	3.96	4.03	4.1	4.85	2.43		
180	2.79	2.85	2.91	2.97	3.04	3.11	3.19	3.27	3.35	3.43	3.51	3.6	3.69	3.78	3.87	3.96	4.04	4.13	4.22	4.3	4.38	4.46	4.54	4.61	5.45	2.74		
200	3.1	3.16	3.23	3.3	3.38	3.46	3.54	3.63	3.72	3.81	3.9	4	4.1	4.2	4.3	4.4	4.49	4.59	4.68	4.78	4.87	4.95	5.04	5.12	6.06	3.04		
210	3.25	3.32	3.39	3.47	3.55	3.63	3.72	3.81	3.9	4	4.1	4.2	4.31	4.41	4.51	4.62	4.72	4.82	4.92	5.02	5.11	5.2	5.29	5.38	6.36	3.19		
220	3.41	3.48	3.56	3.63	3.72	3.8	3.89	3.99	4.09	4.19	4.29	4.4	4.51	4.62	4.73	4.84	4.94	5.05	5.15	5.25	5.35	5.45	5.55	5.64	6.66	3.34		
230	3.56	3.64	3.72	3.8	3.88	3.98	4.07	4.17	4.28	4.38	4.49	4.6	4.72	4.83	4.94	5.06	5.17	5.28	5.39	5.49	5.6	5.7	5.8	5.89	6.97	3.49		
240	3.72	3.8	3.88	3.96	4.05	4.15	4.25	4.35	4.46	4.57	4.69	4.8	4.92	5.04	5.16	5.28	5.39	5.51	5.62	5.73	5.84	5.95	6.05	6.15	7.27	3.65		
250	3.87	3.95	4.04	4.13	4.22	4.32	4.42	4.54	4.65	4.76	4.88	5	5.13	5.25	5.37	5.5	5.62	5.74	5.85	5.97	6.08	6.19	6.3	6.4	7.57	3.8		
260	4.03	4.11	4.2	4.29	4.39	4.5	4.6	4.72	4.83	4.95	5.08	5.2	5.33	5.46	5.59	5.72	5.84	5.97	6.09	6.21	6.33	6.44	6.55	6.66	7.88	3.95		
270	4.19	4.27	4.37	4.46	4.56	4.67	4.78	4.9	5.02	5.15	5.28	5.41	5.54	5.67	5.81	5.94	6.07	6.2	6.33	6.45	6.57	6.69	6.81	6.92	8.18	4.1		
280	4.34	4.43	4.53	4.63	4.73	4.85	4.96	5.08	5.21	5.34	5.47	5.61	5.74	5.88	6.02	6.16	6.3	6.43	6.56	6.69	6.82	6.94	7.06	7.18	8.49	4.26		
290	4.5	4.59	4.69	4.79	4.9	5.02	5.14	5.27	5.39	5.53	5.67	5.81	5.95	6.09	6.24	6.38	6.52	6.66	6.8	6.93	7.06	7.19	7.31	7.43	8.79	4.41		
300	4.65	4.75	4.85	4.96	5.07	5.19	5.31	5.45	5.58	5.72	5.86	6.01	6.15	6.3	6.45	6.6	6.75	6.89	7.03	7.17	7.3	7.44	7.57	7.69	9.09	4.56		
310	4.81	4.91	5.01	5.12	5.24	5.36	5.49	5.63	5.77	5.91	6.06	6.21	6.36	6.51	6.67	6.82	6.97	7.12	7.27	7.41	7.55	7.68	7.82	7.95	9.4	4.71		
320	4.96	5.06	5.17	5.29	5.41	5.54	5.67	5.81	5.95	6.1	6.25	6.41	6.56	6.72	6.88	7.04	7.2	7.35	7.5	7.65	7.79	7.93	8.07	8.2	9.7	4.87		
330	5.12	5.22	5.34	5.45	5.58	5.71	5.85	5.99	6.14	6.29	6.45	6.61	6.77	6.93	7.1	7.26	7.42	7.58	7.74	7.89	8.03	8.18	8.32	8.46	10	5.02		
340	5.27	5.38	5.5	5.62	5.75	5.88	6.02	6.17	6.32	6.48	6.64	6.81	6.97	7.14	7.31	7.48	7.65	7.81	7.97	8.13	8.28	8.43	8.58	8.72	10.31	5.17		
350	5.43	5.54	5.66	5.78	5.92	6.06	6.2	6.35	6.51	6.67	6.84	7.01	7.18	7.36	7.53	7.7	7.87	8.04	8.2	8.36	8.52	8.68	8.83	8.97	10.61	5.32		

1098-05	GENERAL INFORMATION										
Sheet of	ENGINEERING NOTES AND SIGNAGE										
Rev: 03/26/2026	SAG & TENSION WITH TABLES										

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.70	4319.60	46.10

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	235	ARBUTUS CREEP												Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																														
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188				
Tension (lbs)	3,970	3,741	3,525	3,325	3,137	2,961	2,803	2,656	2,522	2,400	2,290	2,191	2,100	2,017	1,940	1,870	1,806	1,747	1,693	1,643	1,596	1,553	1,513	1,475	1,440	1,115				
% Ultimate	25%	24%	23%	21%	20%	19%	18%	17%	16%	15%	15%	14%	13%	13%	12%	12%	12%	11%	11%	11%	10%	10%	10%	9%	9%	7%				
Span (Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	1'-10"	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-5"	3'-7"	3'-9"	3'-10"	4'-0"	4'-2"	4'-3"	4'-5"	4'-6"	4'-8"	4'-9"	4'-11"	5'-0"	6'-6"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"				
75	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-8"				
100	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-10"	0'-11"	0'-11"	1'-2"				
120	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-1"	1'-1"	1'-2"	1'-3"	1'-3"	1'-3"	1'-4"	1'-8"				
140	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	1'-0"	1'-1"	1'-1"	1'-1"	1'-1"	1'-2"	1'-3"	1'-4"	1'-4"	1'-4"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-7"	1'-8"	1'-9"	1'-9"	2'-4"				
160	0'-10"	0'-11"	0'-11"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-11"	2'-0"	2'-0"	2'-1"	2'-2"	2'-3"	2'-3"	2'-4"	3'-0"				
180	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-7"	2'-8"	2'-9"	2'-10"	2'-10"	2'-11"	3'-10"				
200	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-8"	2'-10"	2'-11"	3'-0"	3'-1"	3'-2"	3'-3"	3'-4"	3'-6"	3'-7"	3'-8"	4'-8"				
210	1'-5"	1'-6"	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-10"	3'-0"	3'-1"	3'-2"	3'-4"	3'-5"	3'-6"	3'-7"	3'-9"	3'-10"	3'-11"	4'-0"	5'-2"				
220	1'-7"	1'-8"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-3"	3'-5"	3'-6"	3'-7"	3'-9"	3'-10"	4'-0"	4'-1"	4'-2"	4'-3"	4'-5"	5'-8"				
230	1'-9"	1'-10"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-5"	3'-7"	3'-8"	3'-10"	4'-0"	4'-1"	4'-3"	4'-4"	4'-5"	4'-7"	4'-8"	4'-10"	6'-3"				
240	1'-11"	2'-0"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-0"	4'-2"	4'-4"	4'-5"	4'-7"	4'-9"	4'-10"	5'-0"	5'-1"	5'-3"	6'-9"				
250	2'-1"	2'-2"	2'-4"	2'-6"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-4"	4'-6"	4'-8"	4'-10"	5'-0"	5'-1"	5'-3"	5'-5"	5'-6"	5'-8"	7'-4"				
260	2'-3"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-3"	4'-5"	4'-7"	4'-9"	4'-11"	5'-1"	5'-3"	5'-5"	5'-6"	5'-8"	5'-10"	6'-0"	6'-2"	7'-11"				
270	2'-5"	2'-7"	2'-9"	2'-10"	3'-0"	3'-3"	3'-5"	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	5'-6"	5'-8"	5'-10"	6'-0"	6'-2"	6'-4"	6'-6"	6'-8"	8'-7"				
280	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-6"	3'-8"	3'-10"	4'-1"	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	5'-6"	5'-8"	5'-11"	6'-1"	6'-3"	6'-5"	6'-7"	6'-9"	7'-0"	7'-2"	9'-3"				
290	2'-9"	2'-11"	3'-2"	3'-4"	3'-6"	3'-9"	3'-11"	4'-2"	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-1"	6'-4"	6'-6"	6'-8"	6'-11"	7'-1"	7'-3"	7'-6"	7'-8"	9'-11"				
300	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-1"	6'-4"	6'-6"	6'-9"	7'-0"	7'-2"	7'-5"	7'-7"	7'-9"	8'-0"	8'-2"	10'-7"				
310	3'-2"	3'-4"	3'-7"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-2"	7'-5"	7'-8"	7'-11"	8'-1"	8'-4"	8'-6"	8'-9"	11'-4"				
320	3'-5"	3'-7"	3'-10"	4'-0"	4'-3"	4'-6"	4'-9"	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-2"	7'-5"	7'-8"	7'-11"	8'-2"	8'-5"	8'-8"	8'-10"	9'-1"	9'-4"	12'-0"				
330	3'-7"	3'-10"	4'-1"	4'-3"	4'-7"	4'-10"	5'-1"	5'-4"	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-1"	7'-4"	7'-8"	8'-2"	8'-5"	8'-8"	8'-11"	9'-2"	9'-5"	9'-8"	9'-11"	12'-10"					
340	3'-10"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-5"	5'-9"	6'-0"	6'-4"	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	8'-11"	9'-3"	9'-6"	9'-9"	10'-0"	10'-3"	10'-6"	13'-7"				
350	4'-0"	4'-3"	4'-7"	4'-10"	5'-1"	5'-5"	5'-9"	6'-1"	6'-4"	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	8'-11"	9'-2"	9'-6"	9'-9"	10'-1"	10'-4"	10'-7"	10'-11"	11'-2"	14'-5"				

1098-05	GENERAL INFORMATION										
Sheet of	ENGINEERING NOTES AND SIGNAGE										
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES										

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.70	4319.60	46.10

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	235		ARBUTUS CREEP								Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																												
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188		
Tension (lbs)	3,970	3,741	3,525	3,325	3,137	2,961	2,803	2,656	2,522	2,400	2,290	2,191	2,100	2,017	1,940	1,870	1,806	1,747	1,693	1,643	1,596	1,553	1,513	1,475	1,440	1,115		
% Ultimate	25%	24%	23%	21%	20%	19%	18%	17%	16%	15%	15%	14%	13%	13%	12%	12%	12%	11%	11%	11%	10%	10%	10%	9%	9%	7%		
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec		
R.S. Span 3-Wave Time	4.16	4.28	4.41	4.54	4.67	4.8	4.93	5.06	5.19	5.31	5.43	5.55	5.66	5.77	5.88	5.98	6.08	6.18	6.27	6.36	6.45	6.54	6.62	6.7	7.62	4.03		
50	0.88	0.91	0.94	0.97	0.99	1.02	1.05	1.08	1.1	1.13	1.15	1.18	1.2	1.23	1.25	1.27	1.29	1.31	1.33	1.35	1.37	1.39	1.41	1.42	1.62	0.86		
75	1.33	1.37	1.41	1.45	1.49	1.53	1.57	1.61	1.65	1.69	1.73	1.77	1.81	1.84	1.88	1.91	1.94	1.97	2	2.03	2.06	2.09	2.11	2.14	2.43	1.29		
100	1.77	1.82	1.88	1.93	1.99	2.04	2.1	2.15	2.21	2.26	2.31	2.36	2.41	2.46	2.5	2.54	2.59	2.63	2.67	2.71	2.74	2.78	2.82	2.85	3.24	1.72		
120	2.12	2.19	2.25	2.32	2.38	2.45	2.52	2.58	2.65	2.71	2.77	2.83	2.89	2.95	3	3.05	3.1	3.15	3.2	3.25	3.29	3.34	3.38	3.42	3.89	2.06		
140	2.48	2.55	2.63	2.7	2.78	2.86	2.94	3.02	3.09	3.16	3.23	3.3	3.37	3.44	3.5	3.56	3.62	3.68	3.74	3.79	3.84	3.89	3.94	3.99	4.54	2.4		
160	2.83	2.91	3	3.09	3.18	3.27	3.36	3.45	3.53	3.62	3.7	3.78	3.85	3.93	4	4.07	4.14	4.21	4.27	4.33	4.39	4.45	4.51	4.56	5.18	2.75		
180	3.18	3.28	3.38	3.48	3.58	3.68	3.78	3.88	3.97	4.07	4.16	4.25	4.33	4.42	4.5	4.58	4.66	4.73	4.8	4.87	4.94	5.01	5.07	5.13	5.83	3.09		
200	3.54	3.64	3.75	3.86	3.97	4.09	4.2	4.31	4.42	4.52	4.62	4.72	4.82	4.91	5	5.09	5.18	5.26	5.34	5.41	5.49	5.56	5.63	5.7	6.48	3.43		
210	3.71	3.83	3.94	4.05	4.17	4.29	4.41	4.52	4.64	4.75	4.85	4.96	5.06	5.16	5.25	5.34	5.43	5.52	5.6	5.69	5.76	5.84	5.91	5.99	6.8	3.6		
220	3.89	4.01	4.13	4.25	4.37	4.49	4.62	4.74	4.86	4.97	5.08	5.19	5.3	5.4	5.5	5.6	5.69	5.78	5.87	5.96	6.04	6.12	6.2	6.27	7.13	3.78		
230	4.07	4.19	4.31	4.44	4.57	4.7	4.83	4.95	5.08	5.2	5.31	5.43	5.54	5.65	5.75	5.85	5.95	6.05	6.14	6.23	6.31	6.4	6.48	6.56	7.45	3.95		
240	4.24	4.37	4.5	4.63	4.77	4.9	5.04	5.17	5.3	5.42	5.55	5.66	5.78	5.89	6	6.11	6.21	6.31	6.4	6.5	6.59	6.67	6.76	6.84	7.78	4.12		
250	4.42	4.55	4.69	4.83	4.97	5.11	5.25	5.38	5.52	5.65	5.78	5.9	6.02	6.14	6.25	6.36	6.47	6.57	6.67	6.77	6.86	6.95	7.04	7.13	8.1	4.29		
260	4.6	4.74	4.88	5.02	5.17	5.31	5.46	5.6	5.74	5.88	6.01	6.14	6.26	6.38	6.5	6.62	6.73	6.84	6.94	7.04	7.14	7.23	7.32	7.41	8.43	4.46		
270	4.78	4.92	5.07	5.22	5.37	5.52	5.67	5.82	5.96	6.1	6.24	6.38	6.51	6.63	6.76	6.88	6.99	7.1	7.21	7.31	7.41	7.51	7.61	7.7	8.75	4.64		
280	4.95	5.1	5.26	5.41	5.57	5.73	5.88	6.03	6.18	6.33	6.48	6.61	6.75	6.88	7.01	7.13	7.25	7.36	7.48	7.58	7.69	7.79	7.89	7.99	9.08	4.81		
290	5.13	5.29	5.44	5.61	5.77	5.93	6.09	6.25	6.41	6.56	6.71	6.85	6.99	7.12	7.26	7.39	7.51	7.63	7.74	7.85	7.96	8.07	8.17	8.27	9.4	4.98		
300	5.31	5.47	5.63	5.8	5.97	6.14	6.3	6.46	6.63	6.78	6.94	7.08	7.23	7.37	7.51	7.64	7.77	7.89	8.01	8.13	8.24	8.35	8.46	8.56	9.73	5.15		
310	5.49	5.65	5.82	5.99	6.17	6.34	6.51	6.68	6.85	7.01	7.17	7.32	7.47	7.62	7.76	7.9	8.03	8.15	8.28	8.4	8.51	8.63	8.74	8.84	10.05	5.32		
320	5.66	5.83	6.01	6.19	6.37	6.54	6.72	6.89	7.07	7.24	7.4	7.56	7.71	7.86	8.01	8.15	8.29	8.42	8.55	8.67	8.79	8.9	9.02	9.13	10.38	5.5		
330	5.84	6.02	6.2	6.38	6.57	6.75	6.93	7.11	7.29	7.46	7.63	7.79	7.96	8.11	8.26	8.41	8.55	8.68	8.81	8.94	9.06	9.18	9.3	9.41	10.7	5.67		
340	6.02	6.2	6.38	6.57	6.76	6.95	7.14	7.33	7.51	7.69	7.86	8.03	8.2	8.35	8.51	8.66	8.8	8.94	9.08	9.21	9.34	9.46	9.58	9.7	11.03	5.84		
350	6.19	6.38	6.57	6.77	6.96	7.16	7.35	7.54	7.73	7.91	8.1	8.27	8.44	8.6	8.76	8.92	9.06	9.21	9.35	9.48	9.61	9.74	9.87	9.98	11.35	6.01		

1098-05	GENERAL INFORMATION																	
Sheet of	ENGINEERING NOTES AND SIGNAGE																	
Rev: 03/26/2026	SAG & TENSION WITH TABLES																	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5099.00	54.50

Conductor	795 AWG Covered AAC - Arbutus										Weight (Lb/Ft)		1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	250		ARBUTUS INITIAL										Eng. Use: MOT
Condition	Initial Sag & Tension																		Temp (°F)										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188			
Tension (lbs)	4,983	4,791	4,602	4,415	4,226	4,047	3,865	3,692	3,524	3,359	3,206	3,060	2,922	2,789	2,668	2,556	2,450	2,349	2,258	2,176	2,097	2,025	1,957	1,895	1,837	1,334			
% Ultimate	32%	31%	29%	28%	27%	26%	25%	24%	23%	22%	21%	20%	19%	18%	17%	16%	16%	15%	14%	14%	13%	13%	13%	12%	12%	9%			
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)			
Ruling Span Sag	1'-8"	1'-9"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-7"	3'-9"	3'-11"	4'-0"	4'-2"	4'-4"	4'-5"	6'-2"			
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"			
75	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-7"			
100	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	1'-0"			
120	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-0"	1'-5"			
140	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-4"	1'-5"	1'-11"			
160	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	2'-6"			
180	0'-10"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	3'-2"			
200	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-7"	2'-8"	2'-9"	2'-10"	3'-11"			
210	1'-2"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-9"	2'-10"	2'-11"	3'-0"	3'-2"	4'-4"			
220	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-8"	2'-10"	2'-11"	3'-0"	3'-2"	3'-3"	3'-4"	3'-5"	4'-9"			
230	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	2'-11"	3'-1"	3'-2"	3'-4"	3'-5"	3'-6"	3'-8"	3'-9"	5'-2"			
240	1'-6"	1'-7"	1'-8"	1'-9"	1'-9"	1'-10"	1'-11"	2'-0"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"	3'-3"	3'-4"	3'-6"	3'-7"	3'-9"	3'-10"	4'-0"	4'-1"	5'-8"			
250	1'-8"	1'-9"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-7"	3'-9"	3'-11"	4'-0"	4'-2"	4'-4"	4'-5"	6'-2"			
260	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-0"	3'-2"	3'-4"	3'-6"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-4"	4'-6"	4'-8"	4'-10"	6'-8"			
270	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	4'-10"	5'-0"	5'-2"	7'-2"			
280	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	5'-5"	5'-7"	7'-8"			
290	2'-3"	2'-4"	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-2"	4'-4"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	5'-5"	5'-8"	5'-10"	6'-0"	8'-3"			
300	2'-4"	2'-6"	2'-7"	2'-8"	2'-9"	2'-11"	3'-1"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-3"	4'-5"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	5'-10"	6'-0"	6'-3"	6'-5"	8'-10"			
310	2'-6"	2'-8"	2'-9"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	6'-10"	9'-5"			
320	2'-8"	2'-10"	2'-11"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-5"	4'-7"	4'-10"	5'-0"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	6'-5"	6'-8"	6'-10"	7'-1"	7'-4"	10'-1"			
330	2'-10"	3'-0"	3'-1"	3'-3"	3'-4"	3'-6"	3'-8"	3'-10"	4'-1"	4'-3"	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	7'-3"	7'-6"	7'-9"	10'-8"			
340	3'-0"	3'-2"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	7'-9"	8'-0"	8'-3"	11'-4"			
350	3'-3"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-7"	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-7"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	8'-2"	8'-6"	8'-9"	12'-0"			

1098-05	GENERAL INFORMATION	
Sheet of	ENGINEERING NOTES AND SIGNAGE	
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES	

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Initial RS	60.00	32.70	5099.00	54.50

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	250	ARBUTUS INITIAL												Eng. Use: MOT Temp (°F)
Condition Initial Sag & Tension																														
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188				
Tension (lbs)	4,983	4,791	4,602	4,415	4,226	4,047	3,865	3,692	3,524	3,359	3,206	3,060	2,922	2,789	2,668	2,556	2,450	2,349	2,258	2,176	2,097	2,025	1,957	1,895	1,837	1,334				
% Ultimate	32%	31%	29%	28%	27%	26%	25%	24%	23%	22%	21%	20%	19%	18%	17%	16%	16%	15%	14%	14%	13%	13%	13%	12%	12%	9%				
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec				
R.S. Span 3-Wave Time	3.91	3.99	4.07	4.16	4.25	4.35	4.45	4.55	4.66	4.78	4.89	5	5.12	5.23	5.35	5.46	5.58	5.69	5.8	5.9	6.01	6.11	6.21	6.31	7.41	3.83				
50	0.78	0.8	0.81	0.83	0.85	0.87	0.89	0.91	0.93	0.95	0.98	1	1.02	1.05	1.07	1.09	1.11	1.14	1.16	1.18	1.2	1.22	1.24	1.26	1.48	0.77				
75	1.17	1.19	1.22	1.25	1.27	1.3	1.33	1.37	1.4	1.43	1.47	1.5	1.53	1.57	1.6	1.64	1.67	1.71	1.74	1.77	1.8	1.83	1.86	1.89	2.22	1.15				
100	1.56	1.59	1.63	1.66	1.7	1.74	1.78	1.82	1.87	1.91	1.96	2	2.05	2.09	2.14	2.18	2.23	2.28	2.32	2.36	2.4	2.44	2.48	2.52	2.96	1.53				
120	1.87	1.91	1.95	2	2.04	2.09	2.14	2.19	2.24	2.29	2.35	2.4	2.46	2.51	2.57	2.62	2.68	2.73	2.78	2.83	2.88	2.93	2.98	3.03	3.55	1.84				
140	2.19	2.23	2.28	2.33	2.38	2.44	2.49	2.55	2.61	2.67	2.74	2.8	2.87	2.93	2.99	3.06	3.12	3.19	3.25	3.31	3.36	3.42	3.48	3.53	4.15	2.14				
160	2.5	2.55	2.6	2.66	2.72	2.78	2.85	2.91	2.99	3.06	3.13	3.2	3.28	3.35	3.42	3.5	3.57	3.64	3.71	3.78	3.85	3.91	3.97	4.04	4.74	2.45				
180	2.81	2.87	2.93	2.99	3.06	3.13	3.2	3.28	3.36	3.44	3.52	3.6	3.69	3.77	3.85	3.93	4.02	4.1	4.17	4.25	4.33	4.4	4.47	4.54	5.33	2.76				
200	3.12	3.19	3.25	3.33	3.4	3.48	3.56	3.64	3.73	3.82	3.91	4	4.1	4.19	4.28	4.37	4.46	4.55	4.64	4.72	4.81	4.89	4.97	5.05	5.92	3.06				
210	3.28	3.35	3.42	3.49	3.57	3.65	3.74	3.83	3.92	4.01	4.11	4.2	4.3	4.4	4.49	4.59	4.69	4.78	4.87	4.96	5.05	5.13	5.22	5.3	6.22	3.22				
220	3.44	3.51	3.58	3.66	3.74	3.83	3.92	4.01	4.11	4.2	4.3	4.4	4.51	4.61	4.71	4.81	4.91	5.01	5.1	5.2	5.29	5.38	5.47	5.55	6.52	3.37				
230	3.59	3.67	3.74	3.83	3.91	4	4.09	4.19	4.29	4.39	4.5	4.6	4.71	4.82	4.92	5.03	5.13	5.24	5.33	5.43	5.53	5.62	5.71	5.8	6.81	3.52				
240	3.75	3.83	3.91	3.99	4.08	4.18	4.27	4.37	4.48	4.58	4.69	4.8	4.91	5.02	5.13	5.24	5.36	5.46	5.56	5.67	5.77									

1098-05	GENERAL INFORMATION															
Sheet of	ENGINEERING NOTES AND SIGNAGE															
Rev: 03/26/2026	SAG & TENSION WITH TABLES															

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.80	4336.30	46.30

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength	15,600	Ruling Span (Feet)	250	ARBUTUS CREEP												Eng. Use: MOT Temp (°F)
Condition Creep Sag & Tension																														
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188				
Tension (lbs)	3,875	3,654	3,454	3,267	3,091	2,932	2,786	2,651	2,527	2,416	2,312	2,217	2,132	2,053	1,981	1,914	1,852	1,796	1,744	1,694	1,649	1,606	1,567	1,530	1,495	1,169				
% Ultimate	25%	23%	22%	21%	20%	19%	18%	17%	16%	15%	15%	14%	14%	13%	13%	12%	12%	12%	11%	11%	11%	10%	10%	10%	10%	7%				
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)				
Ruling Span Sag	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-3"	4'-5"	4'-7"	4'-8"	4'-10"	5'-0"	5'-1"	5'-3"	5'-4"	5'-6"	7'-0"				
50	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-1"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"				
75	0'-2"	0'-2"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-3"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-8"				
100	0'-4"	0'-4"	0'-5"	0'-5"	0'-5"	0'-5"	0'-6"	0'-6"	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-10"	0'-10"	1'-1"				
120	0'-6"	0'-6"	0'-7"	0'-7"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	0'-11"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-1"	1'-1"	1'-2"	1'-2"	1'-2"	1'-3"	1'-3"				
140	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-6"	1'-7"	1'-7"	1'-8"	1'-8"	1'-9"	2'-2"				
160	0'-10"	0'-11"	1'-0"	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-4"	1'-5"	1'-5"	1'-6"	1'-7"	1'-8"	1'-8"	1'-9"	1'-10"	1'-10"	1'-11"	2'-0"	2'-0"	2'-1"	2'-2"	2'-2"	2'-3"	2'-10"				
180	1'-1"	1'-2"	1'-3"	1'-4"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-3"	2'-4"	2'-5"	2'-6"	2'-7"	2'-8"	2'-8"	2'-9"	2'-10"	3'-8"				
200	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-11"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-5"	2'-7"	2'-8"	2'-9"	2'-10"	2'-11"	3'-0"	3'-1"	3'-2"	3'-3"	3'-4"	3'-5"	3'-6"	4'-6"				
210	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	2'-0"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-8"	2'-10"	2'-11"	3'-0"	3'-1"	3'-3"	3'-4"	3'-5"	3'-6"	3'-7"	3'-8"	3'-9"	3'-10"	4'-11"				
220	1'-8"	1'-9"	1'-10"	1'-11"	2'-1"	2'-2"	2'-3"	2'-5"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-2"	3'-4"	3'-5"	3'-6"	3'-8"	3'-9"	3'-10"	3'-11"	4'-0"	4'-2"	4'-3"	5'-5"				
230	1'-9"	1'-11"	2'-0"	2'-1"	2'-3"	2'-4"	2'-6"	2'-7"	2'-9"	2'-10"	3'-0"	3'-1"	3'-3"	3'-4"	3'-6"	3'-7"	3'-9"	3'-10"	4'-0"	4'-1"	4'-2"	4'-4"	4'-5"	4'-6"	4'-8"	5'-11"				
240	1'-11"	2'-1"	2'-2"	2'-4"	2'-5"	2'-7"	2'-8"	2'-10"	3'-0"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-10"	3'-11"	4'-1"	4'-2"	4'-4"	4'-5"	4'-7"	4'-8"	4'-10"	4'-11"	5'-0"	6'-5"				
250	2'-1"	2'-3"	2'-4"	2'-6"	2'-8"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-3"	4'-5"	4'-7"	4'-8"	4'-10"	5'-0"	5'-1"	5'-3"	5'-4"	5'-6"	7'-0"				
260	2'-3"	2'-5"	2'-7"	2'-9"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-7"	4'-9"	4'-11"	5'-1"	5'-3"	5'-4"	5'-6"	5'-8"	5'-9"	5'-11"	7'-7"				
270	2'-6"	2'-7"	2'-9"	2'-11"	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-4"	4'-6"	4'-8"	4'-10"	5'-0"	5'-2"	5'-4"	5'-6"	5'-8"	5'-9"	5'-11"	6'-1"	6'-3"	6'-5"	8'-2"				
280	2'-8"	2'-10"	3'-0"	3'-2"	3'-4"	3'-6"	3'-8"	3'-11"	4'-1"	4'-3"	4'-5"	4'-8"	4'-10"	5'-0"	5'-2"	5'-4"	5'-6"	5'-9"	5'-11"	6'-1"	6'-3"	6'-5"	6'-7"	6'-9"	6'-10"	8'-9"				
290	2'-10"	3'-0"	3'-2"	3'-4"	3'-7"	3'-9"	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	5'-0"	5'-2"	5'-4"	5'-7"	5'-9"	5'-11"	6'-2"	6'-4"	6'-6"	6'-8"	6'-10"	7'-0"	7'-2"	7'-4"	9'-5"				
300	3'-0"	3'-3"	3'-5"	3'-7"	3'-10"	4'-0"	4'-3"	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	6'-2"	6'-4"	6'-7"	6'-9"	6'-11"	7'-2"	7'-4"	7'-6"	7'-8"	7'-11"	10'-1"				
310	3'-3"	3'-5"	3'-8"	3'-10"	4'-1"	4'-3"	4'-6"	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	6'-9"	7'-0"	7'-3"	7'-5"	7'-8"	7'-10"	8'-0"	8'-3"	8'-5"	10'-9"				
320	3'-6"	3'-8"	3'-11"	4'-1"	4'-4"	4'-7"	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	7'-6"	7'-8"	7'-11"	8'-2"	8'-4"	8'-7"	8'-9"	9'-0"	11'-6"				
330	3'-8"	3'-11"	4'-2"	4'-4"	4'-7"	4'-10"	5'-1"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	7'-5"	7'-8"	7'-11"	8'-2"	8'-5"	8'-8"	8'-11"	9'-1"	9'-4"	9'-6"	12'-3"				
340	3'-11"	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-5"	5'-9"	6'-0"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-8"	7'-11"	8'-2"	8'-5"	8'-8"	8'-11"	9'-2"	9'-5"	9'-8"	9'-11"	10'-1"	13'-0"				
350	4'-2"	4'-5"	4'-8"	4'-11"	5'-2"	5'-6"	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	8'-11"	9'-2"	9'-6"	9'-9"	10'-0"	10'-3"	10'-6"	10'-9"	13'-9"				

1098-05	GENERAL INFORMATION										
Sheet of	ENGINEERING NOTES AND SIGNAGE										
Rev: 03/26/2026	3-WAVE TIME & TENSION WITH TABLES										

Weather Case Description	Wind Pressure (psf)	Ice Thicknes (in)	Temp (°F)	Condition	Allowable % of Ultimate	Actual % of Ultimate	Actual Tension (lbs)	% of Allowable Capacity
NESC Medium District Loading (250B)	4.00	0.25	15.00	Creep RS	60.00	27.80	4336.30	46.30

Conductor 795 AWG Covered AAC - Arbutus											Weight (Lb/Ft)		1.292	Rated Breaking Strength		15,600	Ruling Span (Feet)	250		ARBUTUS CREEP										Eng. Use: MOT
Condition Creep Sag & Tension																				Temp (°F)										
Temp (°F)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	188				
Tension (lbs)	3,875	3,654	3,454	3,267	3,091	2,932	2,786	2,651	2,527	2,416	2,312	2,217	2,132	2,053	1,981	1,914	1,852	1,796	1,744	1,694	1,649	1,606	1,567	1,530	1,495	1,169				
% Ultimate	25%	23%	22%	21%	20%	19%	18%	17%	16%	15%	15%	14%	14%	13%	13%	12%	12%	12%	11%	11%	11%	10%	10%	10%	10%	7%				
Span	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec				
R.S. Span 3-Wave Time	4.47	4.6	4.73	4.86	4.99	5.12	5.25	5.38	5.5	5.62	5.74	5.86	5.97	6.08	6.18	6.28	6.38	6.48	6.57	6.66	6.75	6.83	6.91	7	7.91	4.34				
50	0.89	0.92	0.95	0.97	1	1.02	1.05	1.07	1.1	1.12	1.15	1.17	1.19	1.21	1.24	1.26	1.28	1.29	1.31	1.33	1.35	1.37	1.38	1.4	1.58	0.87				
75	1.34	1.38	1.42	1.46	1.5	1.54	1.57	1.61	1.65	1.69	1.72	1.76	1.79	1.82	1.85	1.88	1.91	1.94	1.97	2	2.02	2.05	2.07	2.1	2.37	1.3				
100	1.79	1.84	1.89	1.95	2	2.05	2.1	2.15	2.2	2.25	2.3	2.34	2.39	2.43	2.47	2.51	2.55	2.59	2.63	2.66	2.7	2.73	2.76	2.8	3.16	1.74				
120	2.15	2.21	2.27	2.33	2.4	2.46	2.52	2.58	2.64	2.7	2.76	2.81	2.86	2.92	2.97	3.02	3.06	3.11	3.15	3.2	3.24	3.28	3.32	3.36	3.8	2.08				
140	2.5	2.58	2.65	2.72	2.8	2.87	2.94	3.01	3.08	3.15	3.22	3.28	3.34	3.4	3.46	3.52	3.57	3.63	3.68	3.73	3.78	3.83	3.87	3.92	4.43	2.43				
160	2.86	2.94	3.03	3.11	3.2	3.28	3.36	3.44	3.52	3.6	3.67	3.75	3.82	3.89	3.95	4.02	4.08	4.14	4.2	4.26	4.32	4.37	4.42	4.48	5.06	2.78				
180	3.22	3.31	3.41	3.5	3.59	3.69	3.78	3.87	3.96	4.05	4.13	4.22	4.3	4.37	4.45	4.52	4.59	4.66	4.73	4.79	4.86	4.92	4.98	5.04	5.7	3.13				
200	3.58	3.68	3.78	3.89	3.99	4.1	4.2	4.3	4.4	4.5	4.59	4.68	4.77	4.86	4.94	5.03	5.1	5.18	5.26	5.33	5.4	5.47	5.53	5.6	6.33	3.47				
210	3.76	3.86	3.97	4.08	4.19	4.3	4.41	4.52	4.62	4.72	4.82	4.92	5.01	5.1	5.19	5.28	5.36	5.44	5.52	5.59	5.67	5.74	5.81	5.88	6.65	3.65				
220	3.94	4.05	4.16	4.28	4.39	4.51	4.62	4.73	4.84	4.95	5.05	5.15	5.25	5.35	5.44	5.53	5.61	5.7	5.78	5.86	5.94	6.01	6.08	6.16	6.96	3.82				
230	4.11	4.23	4.35	4.47	4.59	4.71	4.83	4.95	5.06	5.17	5.28	5.39	5.49	5.59	5.69	5.78	5.87	5.96	6.04	6.13	6.21	6.29	6.36	6.44	7.28	4				
240	4.29	4.42	4.54	4.67	4.79	4.92	5.04	5.16	5.28	5.4	5.51	5.62	5.73	5.83	5.93	6.03	6.13	6.22	6.31	6.39	6.48	6.56	6.64	6.72	7.6	4.17				
250	4.47	4.6	4.73	4.86	4.99	5.12	5.25	5.38	5.5	5.62	5.74	5.86	5.97	6.08	6.18	6.28	6.38	6.48	6.57	6.66	6.75	6.83	6.91	7	7.91	4.34				
260	4.65	4.78	4.92	5.06	5.19	5.33	5.46	5.59	5.72	5.85	5.97	6.09	6.21	6.32	6.43	6.53	6.64	6.73	6.83	6.93	7.02	7.11	7.19	7.28	8.23	4.52				
270	4.83	4.97	5.11	5.25	5.39	5.53	5.67	5.81	5.94	6.07	6.2	6.32	6.44	6.56	6.67	6.79	6.89	6.99	7.1	7.19	7.29	7.38	7.47	7.56	8.55	4.69				
280	5.01	5.15	5.3	5.45	5.59	5.74	5.89	6.03	6.17	6.3	6.43	6.56	6.69	6.81	6.92	7.04	7.15	7.26	7.36	7.46	7.56	7.65	7.75	7.84	8.86	4.87				
290	5.19	5.34	5.49	5.64	5.79	5.94	6.1	6.24	6.39	6.53	6.66	6.8	6.92	7.05	7.17	7.29	7.41	7.52	7.62	7.73	7.83	7.93	8.02	8.12	9.18	5.04				
300	5.37	5.52	5.68	5.84	5.99	6.15	6.31	6.46	6.61	6.75	6.89	7.03	7.16	7.29	7.42	7.54	7.66	7.77	7.89	7.99	8.1	8.2	8.3	8.4	9.5	5.22				
310	5.55	5.71	5.87	6.03	6.19	6.35	6.52	6.67	6.83	6.98	7.12	7.26	7.4	7.54	7.67	7.8	7.92	8.03	8.15	8.26	8.37	8.47	8.58	8.68	9.82	5.39				
320	5.73	5.89	6.06	6.23	6.39	6.56	6.73	6.89	7.05	7.2	7.35	7.5	7.64	7.78	7.91	8.05	8.17	8.29	8.41	8.53	8.64	8.75	8.86	8.96	10.13	5.56				
330	5.91	6.08	6.25	6.42	6.59	6.77	6.94	7.1	7.27	7.43	7.58	7.74	7.88	8.02	8.16	8.3	8.43	8.55	8.68	8.79	8.91	9.02	9.13	9.24	10.45	5.74				
340	6.09	6.26	6.44	6.62	6.79	6.97	7.15	7.32	7.49	7.65	7.81	7.97	8.12	8.27	8.41	8.55	8.68	8.81	8.94	9.06	9.18	9.3	9.41	9.52	10.77	5.92				
350	6.26	6.44	6.63	6.81	6.99	7.18	7.36	7.53	7.71	7.88	8.04	8.21	8.36	8.51	8.66	8.8	8.94	9.07	9.2	9.33	9.45	9.57	9.68	9.8	11.08	6.09				