

Stringing Chart Report

Section #24 from structure #Mt. Pleasant Sub to structure #1, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 2800.wir', Ruling span (ft) 173.109

Sagging data: Catenary (ft) 10371.4, Horiz. Tension (lbs) 2153.1 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 38.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 8.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
176-7	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	Mt. Pleasant Sub	35-7

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
176-7	1.72	1.76	1.81	1.85	1.90	1.95	2.01	2.07	2.07	Mt. Pleasant Sub	35-7

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2482	2371	2262	2153	2042	1933	1824	1718

Stringing Chart Report

Section #25 from structure #1 to structure #4, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1500.wir', Ruling span (ft) 192.523

Sagging data: Catenary (ft) 3449.9, Horiz. Tension (lbs) 716.199 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 17.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 13.9 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
206-11	1-2	1-3	1-5	1-7	1-9	1-11	2-1	2-3	1	0-10
199-4	1-1	1-2	1-4	1-5	1-7	1-9	1-11	2-1	2	3-11
162-10	0-9	0-10	0-10	1-0	1-1	1-2	1-3	1-5	3	5-10

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
206-11	3.23	3.38	3.55	3.73	3.91	4.10	4.29	4.47	1	0-10
199-4	3.11	3.26	3.42	3.59	3.77	3.95	4.13	4.31	2	3-11
162-10	2.54	2.66	2.79	2.93	3.08	3.23	3.38	3.52	3	5-10

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
954	869	789	716	650	591	540	497

Stringing Chart Report

Section #26 from structure #4 to structure #5, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 2800.wir', Ruling span (ft) 324.165

Sagging data: Catenary (ft) 9492.77, Horiz. Tension (lbs) 1970.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 36.0 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 16.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct Number	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
324-3	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	4		5-8

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
324-3	3.27	3.35	3.43	3.52	3.62	3.72	3.83	3.94	4	5-8

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2283	2179	2073	1968	1867	1765	1666	1569

Stringing Chart Report

Section #27 from structure #5 to structure #6, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 2800.wir', Ruling span (ft) 171.536

Sagging data: Catenary (ft) 10567.4, Horiz. Tension (lbs) 2193.79 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 38.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 8.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct Number	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
172-0	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	5		-12-7

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
172-0	1.65	1.69	1.73	1.77	1.82	1.87	1.92	1.98	5	-12-7

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2523	2414	2303	2191	2085	1973	1865	1756

Stringing Chart Report

Section #28 from structure #6 to structure #22, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1700.wir', Ruling span (ft) 273.006

Sagging data: Catenary (ft) 3727.36, Horiz. Tension (lbs) 773.8 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 18.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 16.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
229-8	1-5	1-6	1-8	1-9	1-11	2-1	2-2	2-4	6	-0-6
239-4	1-6	1-8	1-9	1-11	2-1	2-3	2-4	2-6	7	-0-10
262-6	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-1	8	-6-6
262-6	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-1	9	-1-1
210-4	1-2	1-3	1-5	1-6	1-7	1-9	1-10	1-11	10	0-6
252-8	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10	11	-0-1
262-0	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0	12	0-1
284-11	2-2	2-4	2-6	2-9	2-11	3-2	3-4	3-7	13	3-9
323-8	2-9	3-0	3-3	3-6	3-9	4-1	4-4	4-7	14	-0-10
300-11	2-5	2-7	2-10	3-0	3-3	3-6	3-9	4-0	15	-4-10
252-5	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-10	16	0-4
213-1	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-0	17	5-8
302-8	2-5	2-8	2-10	3-1	3-4	3-7	3-10	4-1	18	1-1
287-5	2-2	2-5	2-7	2-9	3-0	3-2	3-5	3-8	19	1-3
260-6	1-10	1-11	2-1	2-3	2-5	2-8	2-10	3-0	20	8-8
322-4	2-9	3-0	3-3	3-6	3-9	4-0	4-4	4-7	21	9-11

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
(ft-in)	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			(ft-in)
229-8	3.54	3.69	3.83	3.98	4.13	4.27	4.42	4.56	6		-0-6
239-4	3.69	3.84	3.99	4.14	4.30	4.45	4.61	4.75	7		-0-10
262-6	4.05	4.21	4.38	4.55	4.72	4.89	5.05	5.22	8		-6-6
262-6	4.05	4.21	4.38	4.55	4.72	4.89	5.05	5.22	9		-1-1
210-4	3.25	3.38	3.51	3.64	3.78	3.91	4.05	4.18	10		0-6
252-8	3.90	4.06	4.21	4.38	4.54	4.70	4.86	5.02	11		-0-1
262-0	4.04	4.20	4.37	4.54	4.71	4.88	5.04	5.21	12		0-1
284-11	4.40	4.57	4.75	4.94	5.12	5.30	5.48	5.66	13		3-9
323-8	5.00	5.19	5.40	5.61	5.81	6.02	6.23	6.43	14		-0-10
300-11	4.64	4.83	5.02	5.21	5.41	5.60	5.79	5.98	15		-4-10
252-5	3.90	4.05	4.21	4.37	4.53	4.70	4.86	5.01	16		0-4
213-1	3.29	3.42	3.55	3.69	3.83	3.97	4.10	4.23	17		5-8
302-8	4.67	4.86	5.05	5.24	5.44	5.63	5.82	6.01	18		1-1
287-5	4.44	4.61	4.79	4.98	5.16	5.35	5.53	5.71	19		1-3
260-6	4.02	4.18	4.34	4.51	4.68	4.85	5.01	5.18	20		8-8
322-4	4.98	5.17	5.38	5.58	5.79	6.00	6.20	6.41	21		9-11

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
975	901	835	774	720	670	627	588

Stringing Chart Report

Section #29 from structure #22 to structure #23, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 2800.wir', Ruling span (ft) 203.378

Sagging data: Catenary (ft) 10417.1, Horiz. Tension (lbs) 2162.59 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 38.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 10.0 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct Number	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
203-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	22		-4-5

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
203-5	1.96	2.01	2.06	2.11	2.16	2.22	2.29	2.36	22	-4-5

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2490	2381	2269	2160	2051	1945	1836	1729

Stringing Chart Report

Section #30 from structure #23 to structure #25, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1700.wir', Ruling span (ft) 227.68

Sagging data: Catenary (ft) 4118.02, Horiz. Tension (lbs) 854.901 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 19.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 14.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
222-4	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1	23		-12-5
233-4	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	24		-13-4

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
222-4	3.23	3.36	3.51	3.67	3.83	4.00	4.17	4.35	23		-12-5
233-4	3.39	3.53	3.69	3.85	4.02	4.20	4.38	4.56	24		-13-4

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1104	1016	930	855	782	719	660	609

Stringing Chart Report

Section #31 from structure #25 to structure #52, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1700.wir', Ruling span (ft) 285.397

Sagging data: Catenary (ft) 3632.47, Horiz. Tension (lbs) 754.101 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 18.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 17.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Span Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
244-3	1-8	1-9	1-11	2-1	2-2	2-4	2-6	2-8	25	2-11
275-7	2-1	2-3	2-5	2-7	2-10	3-0	3-2	3-5	26	0-8
298-6	2-6	2-8	2-10	3-1	3-3	3-6	3-9	4-0	27	4-8
298-11	2-6	2-8	2-10	3-1	3-4	3-6	3-9	4-0	28	0-6
292-3	2-4	2-7	2-9	2-11	3-2	3-4	3-7	3-10	29	0-3
298-11	2-6	2-8	2-10	3-1	3-4	3-6	3-9	4-0	30	-5-3
290-4	2-4	2-6	2-8	2-11	3-1	3-4	3-6	3-9	31	-0-11
261-0	1-11	2-0	2-2	2-4	2-6	2-8	2-10	3-0	32	4-10
319-2	2-10	3-0	3-3	3-6	3-9	4-0	4-3	4-6	33	0-3
313-0	2-8	2-11	3-2	3-4	3-7	3-10	4-1	4-4	34	0-10
271-4	2-0	2-2	2-4	2-6	2-9	2-11	3-1	3-3	35	-5-3
271-4	2-0	2-2	2-4	2-6	2-9	2-11	3-1	3-3	36	4-7
271-4	2-0	2-2	2-4	2-6	2-9	2-11	3-1	3-3	37	-4-10
249-0	1-9	1-10	2-0	2-2	2-3	2-5	2-7	2-9	38	0-4
220-6	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-2	39	0-11
252-6	1-9	1-11	2-1	2-2	2-4	2-6	2-8	2-10	40	3-10
201-10	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10	41	7-1
298-1	2-5	2-8	2-10	3-1	3-3	3-6	3-9	3-11	42	-2-3
313-1	2-8	2-11	3-2	3-4	3-7	3-10	4-1	4-4	43	-5-4
274-7	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-4	44	-3-2
200-6	1-1	1-2	1-3	1-5	1-6	1-7	1-8	1-9	45	3-1
318-4	2-10	3-0	3-3	3-6	3-9	4-0	4-3	4-6	46	3-0
284-6	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-7	47	4-9
324-9	2-11	3-2	3-5	3-8	3-11	4-2	4-5	4-8	48	-2-5
298-0	2-5	2-8	2-10	3-1	3-3	3-6	3-9	3-11	49	-0-6
318-5	2-10	3-0	3-3	3-6	3-9	4-0	4-3	4-6	50	6-5
291-1	2-4	2-6	2-9	2-11	3-2	3-4	3-7	3-9	51	10-5

Span	3	3	3	3	3	3	3	3	3	Left	Span
Length	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Struct	Vertical
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Number	Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
244-3	3.84	3.99	4.14	4.29	4.44	4.59	4.73	4.87	25		2-11
275-7	4.33	4.50	4.67	4.84	5.01	5.17	5.34	5.50	26		0-8
298-6	4.69	4.87	5.05	5.24	5.42	5.60	5.78	5.95	27		4-8
298-11	4.70	4.88	5.06	5.24	5.43	5.61	5.79	5.96	28		0-6
292-3	4.59	4.77	4.95	5.13	5.31	5.49	5.66	5.83	29		0-3
298-11	4.70	4.88	5.06	5.24	5.43	5.61	5.79	5.96	30		-5-3
290-4	4.56	4.74	4.92	5.09	5.27	5.45	5.62	5.79	31		-0-11
261-0	4.10	4.26	4.42	4.58	4.74	4.90	5.06	5.21	32		4-10
319-2	5.02	5.21	5.40	5.60	5.80	5.99	6.18	6.37	33		0-3
313-0	4.92	5.11	5.30	5.49	5.69	5.88	6.06	6.24	34		0-10
271-4	4.27	4.43	4.60	4.76	4.93	5.09	5.26	5.41	35		-5-3
271-4	4.27	4.43	4.60	4.76	4.93	5.09	5.26	5.41	36		4-7
271-4	4.27	4.43	4.60	4.76	4.93	5.09	5.26	5.41	37		-4-10
249-0	3.91	4.06	4.22	4.37	4.52	4.67	4.82	4.97	38		0-4
220-6	3.47	3.60	3.73	3.87	4.01	4.14	4.27	4.40	39		0-11
252-6	3.97	4.12	4.28	4.43	4.59	4.74	4.89	5.04	40		3-10
201-10	3.17	3.30	3.42	3.54	3.67	3.79	3.91	4.03	41		7-1
298-1	4.69	4.87	5.05	5.23	5.42	5.60	5.77	5.95	42		-2-3
313-1	4.92	5.11	5.30	5.49	5.69	5.88	6.07	6.25	43		-5-4
274-7	4.32	4.48	4.65	4.82	4.99	5.16	5.32	5.48	44		-3-2
200-6	3.15	3.27	3.40	3.52	3.64	3.76	3.88	4.00	45		3-1
318-4	5.00	5.20	5.39	5.58	5.78	5.98	6.17	6.35	46		3-0
284-6	4.47	4.64	4.82	4.99	5.17	5.34	5.51	5.68	47		4-9
324-9	5.10	5.30	5.50	5.70	5.90	6.10	6.29	6.48	48		-2-5
298-0	4.68	4.87	5.05	5.23	5.41	5.59	5.77	5.95	49		-0-6
318-5	5.01	5.20	5.39	5.59	5.78	5.98	6.17	6.35	50		6-5
291-1	4.58	4.75	4.93	5.11	5.29	5.47	5.64	5.81	51		10-5

Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
940	871	810	754	704	659	619	583

Stringing Chart Report

Section #32 from structure #52 to structure #62, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1700.wir', Ruling span (ft) 282.872

Sagging data: Catenary (ft) 3637.76, Horiz. Tension (lbs) 755.199 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 18.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 17.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
265-5	1-11	2-1	2-3	2-5	2-7	2-9	3-0	3-2	52	-5-5
226-10	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-4	53	-0-1
279-8	2-2	2-4	2-6	2-8	2-11	3-1	3-3	3-6	54	7-1
296-3	2-5	2-7	2-10	3-0	3-3	3-5	3-8	3-11	55	-0-11
264-8	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-2	56	-10-6
289-8	2-4	2-6	2-8	2-11	3-1	3-4	3-6	3-9	57	-4-2
255-5	1-10	1-11	2-1	2-3	2-5	2-7	2-9	2-11	58	1-11
264-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	59	1-3
294-9	2-5	2-7	2-9	3-0	3-2	3-5	3-8	3-11	60	11-0
344-5	3-3	3-6	3-10	4-1	4-5	4-8	5-0	5-4	61	16-11

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
265-5	4.17	4.33	4.49	4.65	4.82	4.98	5.15	5.30	52	-5-5
226-10	3.56	3.70	3.84	3.98	4.12	4.26	4.40	4.53	53	-0-1
279-8	4.39	4.56	4.73	4.90	5.08	5.25	5.42	5.59	54	7-1
296-3	4.65	4.83	5.01	5.19	5.38	5.56	5.74	5.92	55	-0-11
264-8	4.16	4.32	4.48	4.64	4.81	4.97	5.13	5.29	56	-10-6
289-8	4.55	4.72	4.90	5.08	5.26	5.44	5.62	5.78	57	-4-2
255-5	4.01	4.16	4.32	4.48	4.64	4.79	4.95	5.10	58	1-11
264-9	4.16	4.32	4.48	4.64	4.81	4.97	5.13	5.29	59	1-3
294-9	4.63	4.81	4.99	5.17	5.36	5.54	5.72	5.89	60	11-0
344-5	5.41	5.62	5.83	6.04	6.26	6.47	6.68	6.88	61	16-11

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
942	873	812	755	704	659	618	582

Stringing Chart Report

Section #33 from structure #62 to structure #63, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 2800.wir', Ruling span (ft) 403.777

Sagging data: Catenary (ft) 8708.09, Horiz. Tension (lbs) 1807.8 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 34.6 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 22.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 403-9	(ft-in) 2-0	(ft-in) 2-1	(ft-in) 2-3	(ft-in) 2-4	(ft-in) 2-6	(ft-in) 2-7	(ft-in) 2-9	(ft-in) 2-11	62	(ft-in) 1-6

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 403-9	Sec. 4.24	Sec. 4.35	Sec. 4.46	Sec. 4.58	Sec. 4.70	Sec. 4.83	Sec. 4.98	Sec. 5.13	62	(ft-in) 1-6

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs) 2104	(lbs) 2004	(lbs) 1905	(lbs) 1808	(lbs) 1711	(lbs) 1619	(lbs) 1528	(lbs) 1441

Stringing Chart Report

Section #34 from structure #63 to structure #64, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 2800.wir', Ruling span (ft) 172.427

Sagging data: Catenary (ft) 10428.7, Horiz. Tension (lbs) 2165 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 38.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 8.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
174-11	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6		63	-29-10

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
174-11	1.70	1.74	1.78	1.83	1.87	1.92	1.98	2.04		63	-29-10

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2494	2383	2274	2163	2056	1945	1838	1729

Stringing Chart Report

Section #35 from structure #64 to structure #99, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1500.wir', Ruling span (ft) 242.716

Sagging data: Catenary (ft) 3045.76, Horiz. Tension (lbs) 632.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 16.0 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 16.0 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
174-10	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	64	-1-1
232-2	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	65	-6-3
144-3	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-1	66	-1-2
171-3	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7	67	-1-3
175-5	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	68	0-4
231-9	1-9	1-11	2-1	2-3	2-5	2-7	2-9	2-11	69	-2-3
218-2	1-6	1-8	1-10	1-11	2-1	2-3	2-5	2-7	70	-0-8
222-8	1-7	1-9	1-11	2-0	2-2	2-4	2-6	2-8	71	0-3
281-9	2-7	2-9	3-0	3-3	3-6	3-9	4-0	4-3	72	10-0
279-11	2-6	2-9	3-0	3-3	3-6	3-9	3-11	4-2	73	-0-2
283-11	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4	74	-4-1
284-2	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-4	75	4-9
294-3	2-10	3-0	3-3	3-7	3-10	4-1	4-4	4-8	76	-0-11
275-0	2-5	2-8	2-10	3-1	3-4	3-7	3-10	4-1	77	0-9
271-7	2-5	2-7	2-10	3-0	3-3	3-6	3-9	4-0	78	0-0
264-8	2-3	2-6	2-8	2-11	3-1	3-4	3-6	3-9	79	-0-4
209-0	1-5	1-6	1-8	1-10	1-11	2-1	2-2	2-4	80	-0-5
195-3	1-3	1-4	1-5	1-7	1-8	1-10	1-11	2-1	81	0-2
162-7	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	82	4-10
285-8	2-8	2-10	3-1	3-4	3-7	3-10	4-1	4-5	83	-0-2
207-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-4	84	-3-7
268-11	2-4	2-6	2-9	3-0	3-2	3-5	3-8	3-11	85	-6-5
196-9	1-3	1-4	1-6	1-7	1-9	1-10	1-11	2-1	86	-0-2
203-11	1-4	1-6	1-7	1-9	1-10	2-0	2-1	2-3	87	-4-10
191-8	1-2	1-3	1-5	1-6	1-8	1-9	1-10	2-0	88	0-4
191-8	1-2	1-3	1-5	1-6	1-8	1-9	1-10	2-0	89	-0-2
266-11	2-4	2-6	2-9	2-11	3-2	3-5	3-7	3-10	90	4-10
254-9	2-1	2-3	2-6	2-8	2-10	3-1	3-3	3-6	91	-6-1
241-4	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-2	92	0-6
264-5	2-3	2-5	2-8	2-11	3-1	3-4	3-6	3-9	93	5-0
261-4	2-3	2-5	2-7	2-10	3-0	3-3	3-5	3-8	94	-5-11
164-11	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-6	95	0-7
224-1	1-7	1-9	1-11	2-1	2-3	2-5	2-6	2-8	96	-0-4

257-4	2-2	2-4	2-6	2-9	2-11	3-2	3-4	3-7	97	4-8
252-6	2-1	2-3	2-5	2-7	2-10	3-0	3-3	3-5	98	11-4

Span	3	3	3	3	3	3	3	3	3	Left	Span
Length	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Struct	Vertical
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Number	Projection
(ft-in)	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			(ft-in)
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			
174-10	2.97	3.10	3.22	3.35	3.48	3.60	3.72	3.83	64		-1-1
232-2	3.95	4.11	4.28	4.45	4.62	4.78	4.93	5.09	65		-6-3
144-3	2.45	2.56	2.66	2.77	2.87	2.97	3.07	3.16	66		-1-2
171-3	2.91	3.03	3.16	3.28	3.41	3.52	3.64	3.75	67		-1-3
175-5	2.98	3.11	3.24	3.36	3.49	3.61	3.73	3.84	68		0-4
231-9	3.94	4.11	4.27	4.44	4.61	4.77	4.93	5.08	69		-2-3
218-2	3.71	3.87	4.02	4.18	4.34	4.49	4.64	4.78	70		-0-8
222-8	3.79	3.95	4.11	4.27	4.43	4.58	4.73	4.88	71		0-3
281-9	4.79	4.99	5.20	5.40	5.61	5.80	5.99	6.18	72		10-0
279-11	4.76	4.96	5.16	5.37	5.57	5.76	5.95	6.14	73		-0-2
283-11	4.83	5.03	5.24	5.45	5.65	5.84	6.04	6.22	74		-4-1
284-2	4.83	5.04	5.24	5.45	5.65	5.85	6.04	6.23	75		4-9
294-3	5.00	5.21	5.43	5.64	5.85	6.06	6.25	6.45	76		-0-11
275-0	4.68	4.87	5.07	5.27	5.47	5.66	5.84	6.03	77		0-9
271-7	4.62	4.81	5.01	5.21	5.40	5.59	5.77	5.95	78		0-0
264-8	4.50	4.69	4.88	5.08	5.27	5.45	5.63	5.80	79		-0-4
209-0	3.55	3.70	3.85	4.01	4.16	4.30	4.44	4.58	80		-0-5
195-3	3.32	3.46	3.60	3.74	3.88	4.02	4.15	4.28	81		0-2
162-7	2.77	2.88	3.00	3.12	3.23	3.35	3.46	3.56	82		4-10
285-8	4.86	5.06	5.27	5.48	5.68	5.88	6.07	6.26	83		-0-2
207-3	3.52	3.67	3.82	3.97	4.12	4.27	4.40	4.54	84		-3-7
268-11	4.57	4.77	4.96	5.16	5.35	5.54	5.72	5.89	85		-6-5
196-9	3.35	3.49	3.63	3.77	3.91	4.05	4.18	4.31	86		-0-2
203-11	3.47	3.62	3.76	3.91	4.06	4.20	4.34	4.47	87		-4-10
191-8	3.26	3.40	3.53	3.68	3.81	3.95	4.07	4.20	88		0-4
191-8	3.26	3.40	3.53	3.68	3.81	3.95	4.07	4.20	89		-0-2
266-11	4.54	4.73	4.92	5.12	5.31	5.49	5.67	5.85	90		4-10
254-9	4.33	4.52	4.70	4.89	5.07	5.24	5.42	5.58	91		-6-1
241-4	4.10	4.28	4.45	4.63	4.80	4.97	5.13	5.29	92		0-6
264-5	4.50	4.69	4.88	5.07	5.26	5.44	5.62	5.80	93		5-0
261-4	4.45	4.63	4.82	5.01	5.20	5.38	5.56	5.73	94		-5-11
164-11	2.80	2.92	3.04	3.16	3.28	3.39	3.50	3.61	95		0-7
224-1	3.81	3.97	4.13	4.30	4.46	4.61	4.76	4.91	96		-0-4
257-4	4.38	4.56	4.75	4.94	5.12	5.30	5.47	5.64	97		4-8
252-6	4.30	4.48	4.66	4.85	5.03	5.20	5.37	5.54	98		11-4

Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
803	739	683	631	587	548	514	483

Stringing Chart Report

Section #36 from structure #99 to structure #132, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1500.wir', Ruling span (ft) 234.59

Sagging data: Catenary (ft) 3095.38, Horiz. Tension (lbs) 642.601 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 16.0 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 15.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
265-3	2-3	2-5	2-7	2-10	3-1	3-4	3-6	3-9	99	-4-0
111-2	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	100	0-1
110-1	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8	101	1-5
218-7	1-6	1-8	1-9	1-11	2-1	2-3	2-5	2-7	102	-7-2
268-5	2-3	2-6	2-8	2-11	3-2	3-5	3-7	3-10	103	-5-0
132-5	0-7	0-7	0-8	0-9	0-9	0-10	0-11	0-11	104	-0-10
124-3	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	105	0-9
155-6	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	106	0-1
124-0	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	107	0-1
239-4	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	108	-0-1
177-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8	109	-0-1
171-8	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7	110	5-3
177-8	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8	111	9-3
209-11	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-4	112	-1-3
266-8	2-3	2-5	2-8	2-11	3-1	3-4	3-7	3-10	113	6-2
304-5	2-11	3-2	3-5	3-9	4-1	4-4	4-8	5-0	114	1-0
238-11	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-1	115	-5-3
206-9	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-3	116	-4-11
188-7	1-1	1-3	1-4	1-5	1-7	1-8	1-9	1-11	117	0-5
267-8	2-3	2-6	2-8	2-11	3-2	3-4	3-7	3-10	118	9-7
224-9	1-7	1-9	1-11	2-1	2-2	2-4	2-6	2-8	119	-5-1
275-6	2-5	2-7	2-10	3-1	3-4	3-7	3-10	4-1	120	3-9
290-7	2-8	2-11	3-2	3-5	3-8	4-0	4-3	4-6	121	-4-0
239-11	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	122	-4-9
242-7	1-10	2-0	2-2	2-5	2-7	2-9	3-0	3-2	123	1-2
226-1	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	124	4-9
251-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2	3-5	125	-0-3
247-4	1-11	2-1	2-3	2-6	2-8	2-10	3-1	3-3	126	0-8
277-10	2-5	2-8	2-11	3-1	3-4	3-8	3-11	4-2	127	-1-2
304-6	2-11	3-2	3-5	3-9	4-1	4-4	4-8	5-0	128	-0-9
185-4	1-1	1-2	1-3	1-5	1-6	1-7	1-9	1-10	129	-5-0
176-2	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	130	-1-0
140-2	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	131	-4-0

Span	3	3	3	3	3	3	3	3	3	Left	Span
Length	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Struct	Vertical
(ft-in)	Time	Time	Time	Time	Time	Time	Time	Time	Time	Number	Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			(ft-in)
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			
265-3	4.45	4.65	4.84	5.05	5.24	5.44	5.63	5.81	99		-4-0
111-2	1.87	1.95	2.03	2.11	2.20	2.28	2.36	2.43	100		0-1
110-1	1.85	1.93	2.01	2.09	2.18	2.26	2.33	2.41	101		1-5
218-7	3.67	3.83	3.99	4.16	4.32	4.48	4.64	4.79	102		-7-2
268-5	4.51	4.70	4.90	5.11	5.30	5.50	5.69	5.88	103		-5-0
132-5	2.22	2.32	2.42	2.52	2.62	2.71	2.81	2.90	104		-0-10
124-3	2.09	2.18	2.27	2.36	2.45	2.55	2.63	2.72	105		0-9
155-6	2.61	2.72	2.84	2.96	3.07	3.19	3.30	3.40	106		0-1
124-0	2.08	2.17	2.26	2.36	2.45	2.54	2.63	2.71	107		0-1
239-4	4.02	4.19	4.37	4.55	4.73	4.90	5.07	5.24	108		-0-1
177-11	2.99	3.12	3.25	3.38	3.52	3.65	3.77	3.89	109		-0-1
171-8	2.88	3.01	3.13	3.27	3.39	3.52	3.64	3.76	110		5-3
177-8	2.99	3.11	3.25	3.38	3.51	3.64	3.77	3.89	111		9-3
209-11	3.52	3.68	3.83	3.99	4.15	4.30	4.45	4.59	112		-1-3
266-8	4.48	4.67	4.87	5.07	5.27	5.47	5.66	5.84	113		6-2
304-5	5.11	5.33	5.56	5.79	6.02	6.24	6.46	6.66	114		1-0
238-11	4.01	4.19	4.36	4.55	4.72	4.90	5.07	5.23	115		-5-3
206-9	3.47	3.62	3.78	3.93	4.09	4.24	4.39	4.53	116		-4-11
188-7	3.17	3.30	3.44	3.59	3.73	3.86	4.00	4.13	117		0-5
267-8	4.50	4.69	4.89	5.09	5.29	5.49	5.68	5.86	118		9-7
224-9	3.77	3.94	4.10	4.28	4.44	4.61	4.77	4.92	119		-5-1
275-6	4.63	4.83	5.03	5.24	5.44	5.65	5.84	6.03	120		3-9
290-7	4.88	5.09	5.30	5.53	5.74	5.96	6.16	6.36	121		-4-0
239-11	4.03	4.20	4.38	4.56	4.74	4.92	5.09	5.25	122		-4-9
242-7	4.07	4.25	4.43	4.62	4.79	4.97	5.14	5.31	123		1-2
226-1	3.80	3.96	4.13	4.30	4.47	4.63	4.80	4.95	124		4-9
251-10	4.23	4.41	4.60	4.79	4.98	5.16	5.34	5.51	125		-0-3
247-4	4.15	4.33	4.52	4.71	4.89	5.07	5.25	5.41	126		0-8
277-10	4.66	4.87	5.07	5.29	5.49	5.69	5.89	6.08	127		-1-2
304-6	5.11	5.33	5.56	5.79	6.02	6.24	6.46	6.67	128		-0-9
185-4	3.11	3.25	3.38	3.53	3.66	3.80	3.93	4.06	129		-5-0
176-2	2.96	3.09	3.22	3.35	3.48	3.61	3.74	3.86	130		-1-0
140-2	2.35	2.46	2.56	2.67	2.77	2.87	2.97	3.07	131		-4-0

Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
823	756	697	642	595	553	516	485

Stringing Chart Report

Section #37 from structure #132 to structure #151, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1500.wir', Ruling span (ft) 226.629

Sagging data: Catenary (ft) 3178.23, Horiz. Tension (lbs) 659.801 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 16.7 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 15.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Span Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
164-6	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	132	3-6
254-5	2-0	2-2	2-4	2-7	2-9	3-0	3-2	3-5	133	5-6
254-5	2-0	2-2	2-4	2-7	2-9	3-0	3-2	3-5	134	-2-6
254-7	2-0	2-2	2-4	2-7	2-9	3-0	3-3	3-5	135	-0-4
214-7	1-5	1-6	1-8	1-10	2-0	2-1	2-3	2-5	136	-1-9
271-7	2-3	2-5	2-8	2-11	3-2	3-5	3-8	3-11	137	3-4
260-1	2-1	2-3	2-5	2-8	2-11	3-1	3-4	3-7	138	-2-5
127-8	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-10	139	-1-1
163-6	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	140	0-9
233-9	1-8	1-10	2-0	2-2	2-4	2-6	2-8	2-11	141	-2-2
196-7	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1	142	0-2
262-4	2-1	2-3	2-6	2-8	2-11	3-2	3-5	3-8	143	3-6
227-1	1-7	1-9	1-10	2-0	2-2	2-5	2-7	2-9	144	-2-9
227-10	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	145	-6-10
139-5	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-0	146	0-9
194-9	1-2	1-3	1-4	1-6	1-7	1-9	1-11	2-0	147	-2-2
139-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-0	148	-0-6
271-9	2-3	2-5	2-8	2-11	3-2	3-5	3-8	3-11	149	4-4
129-3	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	150	2-1

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
(ft-in)	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		(ft-in)
164-6	2.71	2.83	2.96	3.09	3.21	3.34	3.46	3.58	132	3-6
254-5	4.20	4.38	4.58	4.77	4.97	5.17	5.35	5.54	133	5-6
254-5	4.20	4.38	4.58	4.77	4.97	5.17	5.35	5.54	134	-2-6
254-7	4.20	4.38	4.58	4.77	4.97	5.17	5.36	5.54	135	-0-4
214-7	3.54	3.69	3.86	4.02	4.19	4.36	4.52	4.67	136	-1-9
271-7	4.48	4.68	4.89	5.09	5.31	5.52	5.72	5.91	137	3-4
260-1	4.29	4.48	4.68	4.88	5.08	5.28	5.47	5.66	138	-2-5
127-8	2.11	2.20	2.30	2.39	2.49	2.59	2.69	2.78	139	-1-1
163-6	2.70	2.82	2.94	3.07	3.19	3.32	3.44	3.56	140	0-9
233-9	3.85	4.02	4.21	4.38	4.57	4.75	4.92	5.09	141	-2-2
196-7	3.24	3.39	3.54	3.69	3.84	3.99	4.14	4.28	142	0-2
262-4	4.33	4.52	4.72	4.92	5.12	5.33	5.52	5.71	143	3-6
227-1	3.74	3.91	4.09	4.26	4.44	4.61	4.78	4.94	144	-2-9
227-10	3.76	3.92	4.10	4.27	4.45	4.63	4.80	4.96	145	-6-10
139-5	2.30	2.40	2.51	2.62	2.72	2.83	2.93	3.04	146	0-9
194-9	3.21	3.35	3.50	3.65	3.80	3.96	4.10	4.24	147	-2-2
139-6	2.30	2.40	2.51	2.62	2.73	2.83	2.94	3.04	148	-0-6
271-9	4.48	4.68	4.89	5.10	5.31	5.52	5.72	5.92	149	4-4
129-3	2.13	2.23	2.33	2.42	2.52	2.63	2.72	2.81	150	2-1

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
854	783	717	660	608	563	524	490

Stringing Chart Report

Section #38 from structure #151 to structure #153, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1500.wir', Ruling span (ft) 140.64

Sagging data: Catenary (ft) 3984.59, Horiz. Tension (lbs) 827.201 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 17.4 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 10.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
150-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	151		1-11
128-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	152		4-6

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
150-5	2.17	2.27	2.39	2.52	2.67	2.83	3.00	3.19	151		1-11
128-4	1.85	1.94	2.04	2.15	2.28	2.41	2.56	2.72	152		4-6

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1115	1016	919	825	738	657	582	518

Stringing Chart Report

Section #39 from structure #153 to structure #154, start set #11 '', end set #1 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 2800.wir', Ruling span (ft) 294.791

Sagging data: Catenary (ft) 9723.99, Horiz. Tension (lbs) 2018.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 36.4 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 14.9 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F	Number	
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
294-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5	153	9-9

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct	Span Vertical Projection
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
294-11	2.94	3.01	3.08	3.17	3.25	3.34	3.44	3.55	153	9-9

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2336	2230	2123	2016	1912	1811	1707	1608

Stringing Chart Report

Section #40 from structure #154 to structure #Existing -Sugg STR 30, start set #11 '', end set #1 ''
Cable 'C:\projects\GUC\PLS-CADD\WIR\7no_9_alumoweld - 1500.wir', Ruling span (ft) 228.449

Sagging data: Catenary (ft) 3139.69, Horiz. Tension (lbs) 651.8 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 16.3 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 15.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
300-6	2-9	3-0	3-4	3-7	3-11	4-3	4-6	4-10		154 -11-7
181-2	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9		155 0-4
173-7	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-7		156 -4-7
255-5	2-0	2-2	2-5	2-7	2-10	3-0	3-3	3-6		157 -4-2
237-8	1-9	1-11	2-1	2-3	2-5	2-8	2-10	3-0		158 -0-2
272-1	2-3	2-6	2-9	2-11	3-2	3-5	3-8	3-11		159 -5-9
209-2	1-4	1-6	1-7	1-9	1-11	2-0	2-2	2-4		160 0-9
181-4	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9		161 -0-10
127-5	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10		162 -0-1
145-6	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2		163 4-2

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
300-6	4.99	5.21	5.44	5.68	5.90	6.14	6.35	6.57		154 -11-7
181-2	3.01	3.14	3.28	3.42	3.56	3.70	3.83	3.96		155 0-4
173-7	2.88	3.01	3.14	3.28	3.41	3.54	3.67	3.80		156 -4-7
255-5	4.24	4.43	4.63	4.82	5.02	5.21	5.40	5.58		157 -4-2
237-8	3.95	4.12	4.30	4.49	4.67	4.85	5.02	5.20		158 -0-2
272-1	4.52	4.72	4.93	5.14	5.35	5.56	5.75	5.95		159 -5-9
209-2	3.47	3.63	3.79	3.95	4.11	4.27	4.42	4.57		160 0-9
181-4	3.01	3.15	3.28	3.43	3.56	3.70	3.83	3.96		161 -0-10
127-5	2.11	2.21	2.31	2.41	2.50	2.60	2.69	2.78		162 -0-1
145-6	2.42	2.52	2.63	2.75	2.86	2.97	3.08	3.18		163 4-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
842	771	708	651	602	557	520	486

Stringing Chart Report

Section #78 from structure #1 to structure #3, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 203.088

Sagging data: Catenary (ft) 3382.57, Horiz. Tension (lbs) 2523.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 30.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 26.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
206-8	1-1	1-3	1-5	1-7	1-10	2-1	2-4	2-7	1		3-3
199-4	1-0	1-2	1-3	1-6	1-8	1-11	2-2	2-5	2		3-2

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
206-8	3.13	3.31	3.52	3.76	4.02	4.29	4.56	4.82	1		3-3
199-4	3.02	3.19	3.40	3.62	3.87	4.13	4.39	4.65	2		3-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3639	3248	2872	2523	2210	1940	1716	1533

Stringing Chart Report

Section #79 from structure #3 to structure #4, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 164.533

Sagging data: Catenary (ft) 3382.57, Horiz. Tension (lbs) 2523.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 27.9 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 23.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
164-7	0-8	0-9	0-10	1-0	1-2	1-4	1-7	1-10	3	4-1

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F	Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
164-7	2.46	2.61	2.79	2.99	3.23	3.49	3.76	4.02	3	4-1

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3722	3311	2907	2524	2168	1858	1602	1398

Stringing Chart Report

Section #80 from structure #4 to structure #5, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 325.805

Sagging data: Catenary (ft) 4366.62, Horiz. Tension (lbs) 3257.5 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 40.3 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 39.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 325-10	(ft-in) 2-4	(ft-in) 2-6	(ft-in) 2-9	(ft-in) 3-0	(ft-in) 3-4	(ft-in) 3-8	(ft-in) 4-0	(ft-in) 4-4	4	(ft-in) 5-8

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 325-10	Sec. 4.56	Sec. 4.76	Sec. 4.98	Sec. 5.21	Sec. 5.47	Sec. 5.72	Sec. 5.99	Sec. 6.25	4	(ft-in) 5-8

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs) 4264	(lbs) 3910	(lbs) 3576	(lbs) 3258	(lbs) 2962	(lbs) 2703	(lbs) 2470	(lbs) 2267

Stringing Chart Report

Section #81 from structure #5 to structure #6, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 173.28

Sagging data: Catenary (ft) 3200.13, Horiz. Tension (lbs) 2387.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 27.6 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 23.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct Number	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
173-9	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-1		5	-12-7

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
173-9	2.67	2.83	3.03	3.25	3.50	3.77	4.04	4.30	5	-12-7

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3550	3146	2756	2387	2060	1779	1550	1368

Stringing Chart Report

Section #82 from structure #6 to structure #11, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 243.233

Sagging data: Catenary (ft) 3786.46, Horiz. Tension (lbs) 2824.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 33.9 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 30.8 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
229-5	1-3	1-5	1-7	1-9	1-11	2-2	2-5	2-9	6	6-0
239-3	1-4	1-6	1-8	1-11	2-1	2-5	2-8	2-11	7	-1-4
262-7	1-8	1-10	2-0	2-3	2-7	2-10	3-2	3-7	8	-6-6
262-6	1-8	1-10	2-0	2-3	2-7	2-10	3-2	3-7	9	-1-1
210-2	1-1	1-2	1-4	1-5	1-8	1-10	2-1	2-3	10	-4-2

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
229-5	3.35	3.53	3.72	3.94	4.18	4.43	4.67	4.92	6	6-0
239-3	3.50	3.68	3.88	4.11	4.36	4.62	4.88	5.14	7	-1-4
262-7	3.84	4.04	4.26	4.51	4.78	5.07	5.35	5.64	8	-6-6
262-6	3.84	4.04	4.26	4.51	4.78	5.06	5.35	5.64	9	-1-1
210-2	3.07	3.23	3.41	3.61	3.83	4.05	4.28	4.51	10	-4-2

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3908	3529	3165	2825	2514	2242	2009	1810

Stringing Chart Report

Section #83 from structure #11 to structure #13, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 257.412

Sagging data: Catenary (ft) 3899.06, Horiz. Tension (lbs) 2908.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 35.0 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 32.2 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
252-10	1-6	1-8	1-10	2-1	2-4	2-7	2-10	3-2	11		0-8
261-9	1-7	1-9	2-0	2-2	2-5	2-9	3-1	3-4	12		-0-2

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
252-10	3.66	3.85	4.05	4.28	4.53	4.79	5.05	5.30	11		0-8
261-9	3.79	3.98	4.20	4.43	4.69	4.95	5.22	5.49	12		-0-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3979	3602	3244	2909	2599	2329	2094	1896

Stringing Chart Report

Section #84 from structure #13 to structure #18, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 282.925

Sagging data: Catenary (ft) 4076.41, Horiz. Tension (lbs) 3041 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 37.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 35.0 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
285-1	1-10	2-0	2-3	2-6	2-9	3-1	3-5	3-9	13	6-6
323-8	2-5	2-7	2-11	3-3	3-7	3-11	4-4	4-10	14	-0-10
301-0	2-1	2-3	2-6	2-9	3-1	3-5	3-9	4-2	15	-3-4
252-5	1-5	1-7	1-9	1-11	2-2	2-5	2-8	2-11	16	-0-2
213-0	1-0	1-2	1-3	1-5	1-7	1-9	1-11	2-1	17	1-11

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
285-1	4.07	4.27	4.49	4.72	4.97	5.24	5.50	5.77	13	6-6
323-8	4.62	4.84	5.09	5.36	5.64	5.95	6.25	6.55	14	-0-10
301-0	4.30	4.51	4.74	4.99	5.25	5.53	5.81	6.09	15	-3-4
252-5	3.61	3.78	3.97	4.18	4.40	4.64	4.87	5.11	16	-0-2
213-0	3.04	3.19	3.35	3.53	3.72	3.91	4.11	4.31	17	1-11

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
4087	3723	3369	3041	2742	2471	2238	2038

Stringing Chart Report

Section #85 from structure #18 to structure #21, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 285.124

Sagging data: Catenary (ft) 4095.58, Horiz. Tension (lbs) 3055.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 37.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 35.0 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
302-10	2-1	2-3	2-6	2-10	3-1	3-5	3-10	4-2	18	3-9
287-5	1-11	2-1	2-3	2-6	2-10	3-1	3-5	3-9	19	1-3
260-4	1-7	1-8	1-10	2-1	2-4	2-7	2-10	3-1	20	5-11

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
302-10	4.32	4.53	4.75	5.01	5.27	5.55	5.83	6.10	18	3-9
287-5	4.10	4.30	4.51	4.75	5.00	5.27	5.53	5.79	19	1-3
260-4	3.71	3.89	4.09	4.30	4.53	4.77	5.01	5.25	20	5-11

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
4098	3734	3386	3052	2754	2486	2253	2053

Stringing Chart Report

Section #86 from structure #21 to structure #22, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 323.757

Sagging data: Catenary (ft) 4351.47, Horiz. Tension (lbs) 3246.2 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 40.3 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 39.2 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 323-10	(ft-in) 2-4	(ft-in) 2-6	(ft-in) 2-9	(ft-in) 3-0	(ft-in) 3-4	(ft-in) 3-8	(ft-in) 4-0	(ft-in) 4-4	21	(ft-in) 8-2

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 323-10	Sec. 4.54	Sec. 4.74	Sec. 4.96	Sec. 5.19	Sec. 5.45	Sec. 5.71	Sec. 5.97	Sec. 6.23	21	(ft-in) 8-2

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs) 4253	(lbs) 3899	(lbs) 3564	(lbs) 3246	(lbs) 2951	(lbs) 2689	(lbs) 2458	(lbs) 2255

Stringing Chart Report

Section #87 from structure #22 to structure #23, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 204.021

Sagging data: Catenary (ft) 3477.21, Horiz. Tension (lbs) 2594 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 30.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 26.9 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct Number	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
204-1	1-1	1-2	1-4	1-6	1-9	1-11	2-2	2-6	22		-4-5

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
204-1	3.06	3.23	3.43	3.66	3.91	4.17	4.44	4.70	22	-4-5

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3716	3328	2947	2594	2270	1995	1762	1570

Stringing Chart Report

Section #88 from structure #23 to structure #25, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 228.568

Sagging data: Catenary (ft) 3661.66, Horiz. Tension (lbs) 2731.6 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 32.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 29.0 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
221-7	1-2	1-4	1-6	1-8	1-11	2-2	2-5	2-8	23		-9-11
235-8	1-4	1-6	1-8	1-11	2-2	2-5	2-9	3-0	24		-15-10

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
221-7	3.27	3.45	3.65	3.88	4.12	4.37	4.63	4.88	23		-9-11
235-8	3.48	3.67	3.88	4.13	4.38	4.65	4.93	5.20	24		-15-10

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3832	3446	3079	2729	2419	2146	1912	1718

Stringing Chart Report

Section #89 from structure #25 to structure #35, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 291.588

Sagging data: Catenary (ft) 4130.16, Horiz. Tension (lbs) 3081.1 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 37.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 35.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
244-10	1-4	1-6	1-8	1-10	2-0	2-3	2-5	2-8	25	9-5
275-8	1-9	1-11	2-1	2-4	2-7	2-10	3-1	3-5	26	0-8
298-5	2-0	2-3	2-5	2-8	3-0	3-4	3-8	4-0	27	2-8
298-11	2-0	2-3	2-5	2-8	3-0	3-4	3-8	4-0	28	0-6
292-2	1-11	2-1	2-4	2-7	2-10	3-2	3-6	3-10	29	0-3
299-0	2-0	2-3	2-5	2-8	3-0	3-4	3-8	4-0	30	-3-3
290-3	1-11	2-1	2-4	2-7	2-10	3-1	3-5	3-9	31	-0-11
260-11	1-6	1-8	1-10	2-1	2-3	2-6	2-9	3-1	32	2-10
319-2	2-4	2-6	2-9	3-1	3-5	3-9	4-2	4-7	33	0-3
312-11	2-3	2-5	2-8	3-0	3-3	3-8	4-0	4-5	34	-1-11

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
244-10	3.49	3.65	3.83	4.03	4.24	4.46	4.68	4.90	25	9-5
275-8	3.92	4.11	4.31	4.54	4.77	5.02	5.27	5.52	26	0-8
298-5	4.25	4.45	4.67	4.91	5.17	5.43	5.70	5.97	27	2-8
298-11	4.25	4.45	4.68	4.92	5.18	5.44	5.71	5.98	28	0-6
292-2	4.16	4.35	4.57	4.81	5.06	5.32	5.59	5.85	29	0-3
299-0	4.25	4.46	4.68	4.92	5.18	5.45	5.72	5.98	30	-3-3
290-3	4.13	4.33	4.54	4.78	5.03	5.29	5.55	5.81	31	-0-11
260-11	3.71	3.89	4.08	4.29	4.52	4.75	4.99	5.22	32	2-10
319-2	4.54	4.76	4.99	5.25	5.53	5.81	6.10	6.39	33	0-3
312-11	4.45	4.66	4.90	5.15	5.42	5.70	5.98	6.26	34	-1-11

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
4119	3756	3408	3081	2783	2515	2283	2084

Stringing Chart Report

Section #90 from structure #35 to structure #38, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 271.319

Sagging data: Catenary (ft) 3995.58, Horiz. Tension (lbs) 2980.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 36.0 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 33.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
271-7	1-8	1-11	2-1	2-4	2-7	2-10	3-2	3-6	35	-4-9
271-4	1-8	1-10	2-1	2-4	2-7	2-10	3-2	3-6	36	4-7
271-3	1-8	1-10	2-1	2-4	2-7	2-10	3-2	3-6	37	-5-4

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
271-7	3.90	4.10	4.31	4.54	4.79	5.05	5.32	5.58	35	-4-9
271-4	3.90	4.09	4.31	4.54	4.79	5.05	5.32	5.58	36	4-7
271-3	3.90	4.09	4.30	4.54	4.79	5.05	5.32	5.58	37	-5-4

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
4038	3668	3312	2981	2678	2409	2172	1975

Stringing Chart Report

Section #91 from structure #38 to structure #40, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 236.12

Sagging data: Catenary (ft) 3735.79, Horiz. Tension (lbs) 2786.9 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 33.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 30.1 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
249-2	1-6	1-8	1-10	2-1	2-4	2-8	2-11	3-3	38		1-0
220-5	1-2	1-4	1-5	1-8	1-10	2-1	2-4	2-7	39		0-3

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
249-2	3.66	3.85	4.07	4.31	4.58	4.85	5.14	5.41	38		1-0
220-5	3.23	3.41	3.60	3.81	4.05	4.29	4.54	4.78	39		0-3

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3875	3496	3128	2787	2472	2200	1964	1771

Stringing Chart Report

Section #92 from structure #40 to structure #42, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 231.403

Sagging data: Catenary (ft) 3704.69, Horiz. Tension (lbs) 2763.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 32.9 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 29.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
252-9	1-7	1-9	1-11	2-2	2-5	2-9	3-1	3-5	40	4-7
201-7	1-0	1-1	1-3	1-4	1-7	1-9	1-11	2-2	41	6-4

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
252-9	3.72	3.92	4.14	4.39	4.67	4.95	5.24	5.53	40	4-7
201-7	2.96	3.13	3.30	3.50	3.72	3.95	4.18	4.41	41	6-4

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3859	3474	3108	2764	2449	2173	1939	1743

Stringing Chart Report

Section #93 from structure #42 to structure #45, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 296.568

Sagging data: Catenary (ft) 4183.65, Horiz. Tension (lbs) 3121 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 38.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 36.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
298-2	2-0	2-2	2-5	2-8	2-11	3-3	3-7	3-11	42		-1-7
313-2	2-2	2-5	2-8	2-11	3-3	3-7	3-11	4-4	43		-5-4
274-8	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-4	44		-3-11

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
298-2	4.23	4.42	4.64	4.88	5.13	5.39	5.66	5.92	42		-1-7
313-2	4.44	4.65	4.87	5.12	5.39	5.66	5.94	6.22	43		-5-4
274-8	3.89	4.07	4.27	4.49	4.73	4.96	5.21	5.45	44		-3-11

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
4151	3789	3445	3118	2818	2554	2319	2117

Stringing Chart Report

Section #94 from structure #45 to structure #46, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 200.862

Sagging data: Catenary (ft) 3453.62, Horiz. Tension (lbs) 2576.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 30.4 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 26.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct Number	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
200-11	1-0	1-2	1-3	1-6	1-8	1-11	2-2	2-5	45		3-1

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
200-11	3.01	3.19	3.39	3.61	3.87	4.13	4.40	4.66	45	3-1

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3705	3311	2930	2576	2252	1974	1741	1552

Stringing Chart Report

Section #95 from structure #46 to structure #49, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 310.669

Sagging data: Catenary (ft) 4225.74, Horiz. Tension (lbs) 3152.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 39.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 37.8 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
318-7	2-3	2-6	2-9	3-0	3-4	3-8	4-0	4-4	46	3-8
284-6	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-6	47	4-9
324-7	2-4	2-7	2-10	3-1	3-5	3-9	4-2	4-6	48	-3-2

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
318-7	4.51	4.71	4.94	5.18	5.44	5.71	5.98	6.24	46	3-8
284-6	4.02	4.21	4.41	4.63	4.86	5.10	5.34	5.58	47	4-9
324-7	4.59	4.80	5.03	5.28	5.55	5.82	6.09	6.36	48	-3-2

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
4167	3811	3470	3152	2858	2598	2369	2171

Stringing Chart Report

Section #96 from structure #49 to structure #50, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 297.915

Sagging data: Catenary (ft) 4256.17, Horiz. Tension (lbs) 3175.1 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 38.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 36.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct Number	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
297-11	2-0	2-2	2-4	2-7	2-11	3-2	3-6	3-10	49		-0-6

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
297-11	4.19	4.38	4.60	4.83	5.08	5.34	5.60	5.86	49	-0-6

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
4216	3855	3503	3172	2870	2601	2360	2156

Stringing Chart Report

Section #97 from structure #50 to structure #52, start set #18 '', end set #7 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 304.751

Sagging data: Catenary (ft) 4275.34, Horiz. Tension (lbs) 3189.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 38.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 37.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
318-6	2-3	2-5	2-8	3-0	3-3	3-7	4-0	4-4	50	7-2
289-0	1-10	2-0	2-3	2-5	2-8	3-0	3-3	3-7	51	3-11

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
318-6	4.48	4.68	4.91	5.15	5.41	5.69	5.96	6.24	50	7-2
289-0	4.06	4.25	4.45	4.68	4.91	5.16	5.41	5.66	51	3-11

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
4221	3861	3514	3187	2887	2618	2381	2177

Stringing Chart Report

Section #114 from structure #1 to structure #3, start set #19 '', end set #9 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 203.025

Sagging data: Catenary (ft) 3382.57, Horiz. Tension (lbs) 2523.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 30.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 26.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
206-8	1-1	1-3	1-5	1-7	1-10	2-1	2-4	2-7	1		3-3
199-3	1-0	1-2	1-3	1-6	1-8	1-11	2-2	2-5	2		3-2

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
206-8	3.13	3.31	3.52	3.76	4.02	4.29	4.56	4.82	1		3-3
199-3	3.02	3.19	3.40	3.62	3.87	4.13	4.39	4.65	2		3-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3639	3248	2872	2520	2210	1940	1716	1533

Stringing Chart Report

Section #115 from structure #3 to structure #4, start set #19 '', end set #9 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 164.659

Sagging data: Catenary (ft) 3382.57, Horiz. Tension (lbs) 2523.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 27.9 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 23.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 164-9	(ft-in) 0-8	(ft-in) 0-9	(ft-in) 0-10	(ft-in) 1-0	(ft-in) 1-2	(ft-in) 1-4	(ft-in) 1-7	(ft-in) 1-10	3	(ft-in) 4-1

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 164-9	Sec. 2.47	Sec. 2.61	Sec. 2.79	Sec. 2.99	Sec. 3.23	Sec. 3.49	Sec. 3.76	Sec. 4.02	3	(ft-in) 4-1

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs) 3722	(lbs) 3311	(lbs) 2907	(lbs) 2524	(lbs) 2168	(lbs) 1858	(lbs) 1602	(lbs) 1400

Stringing Chart Report

Section #116 from structure #4 to structure #5, start set #19 '', end set #9 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 325.81

Sagging data: Catenary (ft) 4366.62, Horiz. Tension (lbs) 3257.5 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 40.3 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 39.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 325-10	(ft-in) 2-4	(ft-in) 2-6	(ft-in) 2-9	(ft-in) 3-0	(ft-in) 3-4	(ft-in) 3-8	(ft-in) 4-0	(ft-in) 4-4	4	(ft-in) 5-8

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 325-10	Sec. 4.56	Sec. 4.76	Sec. 4.98	Sec. 5.21	Sec. 5.47	Sec. 5.72	Sec. 5.99	Sec. 6.25	4	(ft-in) 5-8

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs) 4264	(lbs) 3910	(lbs) 3576	(lbs) 3258	(lbs) 2962	(lbs) 2703	(lbs) 2470	(lbs) 2267

Stringing Chart Report

Section #117 from structure #5 to structure #6, start set #19 '', end set #9 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 173.277

Sagging data: Catenary (ft) 3200.13, Horiz. Tension (lbs) 2387.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 27.6 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 23.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct Number	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
173-9	0-10	0-11	1-0	1-2	1-4	1-7	1-10	2-1	5		-12-7

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
173-9	2.67	2.83	3.03	3.25	3.50	3.77	4.04	4.30	5	-12-7

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3550	3146	2756	2387	2060	1779	1550	1368

Stringing Chart Report

Section #118 from structure #6 to structure #8, start set #19 '', end set #9 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\ARBUTUS_AAC_GCC.wir', Ruling span (ft) 235.109

Sagging data: Catenary (ft) 3720.24, Horiz. Tension (lbs) 2775.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 33.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 30.1 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
229-4	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-9	6		6-0
240-7	1-5	1-7	1-9	1-11	2-2	2-6	2-9	3-1	7		-2-0

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
229-4	3.37	3.55	3.75	3.98	4.22	4.48	4.74	4.99	6		6-0
240-7	3.53	3.72	3.94	4.17	4.43	4.70	4.97	5.24	7		-2-0

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
3864	3485	3114	2775	2460	2188	1955	1761

Stringing Chart Report

Section #42 from structure #1 to structure #4, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 191.903

Sagging data: Catenary (ft) 4396.98, Horiz. Tension (lbs) 1600.5 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 29.4 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 24.1 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
206-0	0-10	0-11	1-1	1-3	1-5	1-7	1-11	2-2	1		2-7
199-4	0-9	0-11	1-0	1-2	1-4	1-6	1-9	2-0	2		3-11
161-10	0-6	0-7	0-8	0-9	0-10	1-0	1-2	1-4	3		4-1

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
206-0	2.74	2.90	3.07	3.29	3.53	3.81	4.10	4.40	1		2-7
199-4	2.66	2.80	2.97	3.18	3.42	3.68	3.97	4.26	2		3-11
161-10	2.16	2.28	2.42	2.58	2.78	2.99	3.22	3.46	3		4-1

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2292	2058	1827	1597	1383	1191	1026	891

Stringing Chart Report

Section #43 from structure #4 to structure #5, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 322.226

Sagging data: Catenary (ft) 5490.66, Horiz. Tension (lbs) 1998.6 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 37.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 43.1 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 322-3	(ft-in) 1-10	(ft-in) 2-0	(ft-in) 2-2	(ft-in) 2-4	(ft-in) 2-7	(ft-in) 2-11	(ft-in) 3-3	(ft-in) 3-7	4	(ft-in) 5-8

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 322-3	Sec. 4.02	Sec. 4.19	Sec. 4.39	Sec. 4.60	Sec. 4.84	Sec. 5.10	Sec. 5.37	Sec. 5.64	4	(ft-in) 5-8

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs) 2621	(lbs) 2409	(lbs) 2198	(lbs) 1997	(lbs) 1805	(lbs) 1629	(lbs) 1469	(lbs) 1329

Stringing Chart Report

Section #44 from structure #5 to structure #6, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 169.639

Sagging data: Catenary (ft) 4142.58, Horiz. Tension (lbs) 1507.9 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 27.9 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 21.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
170-1	0-7	0-8	0-9	0-11	1-0	1-2	1-5	1-8		5	-12-7

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
170-1	2.31	2.44	2.61	2.80	3.03	3.28	3.57	3.85		5	-12-7

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2216	1976	1736	1508	1288	1094	928	797

Stringing Chart Report

Section #45 from structure #6 to structure #22, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 3000.wir', Ruling span (ft) 272.872

Sagging data: Catenary (ft) 4223.63, Horiz. Tension (lbs) 1537.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 31.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 33.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Span Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
228-9	1-1	1-3	1-5	1-7	1-9	1-11	2-2	2-5	6	5-3
239-4	1-3	1-4	1-6	1-8	1-11	2-2	2-5	2-8	7	-1-4
262-6	1-6	1-8	1-10	2-0	2-4	2-7	2-10	3-2	8	1-6
262-6	1-6	1-8	1-10	2-0	2-4	2-7	2-10	3-2	9	-1-1
210-4	0-11	1-1	1-2	1-4	1-6	1-8	1-10	2-0	10	-3-6
252-8	1-4	1-6	1-8	1-11	2-1	2-5	2-8	2-11	11	-0-1
261-11	1-6	1-7	1-10	2-0	2-3	2-7	2-10	3-2	12	0-7
284-11	1-9	1-11	2-2	2-5	2-8	3-0	3-4	3-9	13	5-9
323-8	2-3	2-6	2-9	3-1	3-6	3-11	4-4	4-10	14	-0-10
300-11	1-11	2-2	2-5	2-8	3-0	3-5	3-9	4-2	15	-3-4
252-5	1-4	1-6	1-8	1-11	2-1	2-5	2-8	2-11	16	-0-2
213-0	1-0	1-1	1-2	1-4	1-6	1-8	1-11	2-1	17	2-8
302-7	1-11	2-2	2-5	2-9	3-1	3-5	3-10	4-2	18	3-1
287-5	1-9	1-11	2-2	2-5	2-9	3-1	3-5	3-9	19	1-3
260-5	1-5	1-7	1-9	2-0	2-3	2-6	2-10	3-1	20	6-8
321-4	2-2	2-5	2-9	3-1	3-5	3-10	4-3	4-9	21	0-2

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
(ft-in)	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F	Sec.	Sec.	(ft-in)
228-9	3.16	3.33	3.51	3.72	3.95	4.18	4.41	4.64	6	6	5-3
239-4	3.30	3.48	3.68	3.89	4.13	4.37	4.61	4.85	7	7	-1-4
262-6	3.62	3.82	4.03	4.27	4.53	4.80	5.06	5.32	8	8	1-6
262-6	3.62	3.82	4.03	4.27	4.53	4.80	5.06	5.32	9	9	-1-1
210-4	2.90	3.06	3.23	3.42	3.63	3.84	4.05	4.26	10	10	-3-6
252-8	3.48	3.67	3.88	4.11	4.36	4.62	4.87	5.12	11	11	-0-1
261-11	3.61	3.81	4.02	4.26	4.52	4.79	5.05	5.31	12	12	0-7
284-11	3.93	4.14	4.38	4.64	4.92	5.21	5.49	5.77	13	13	5-9
323-8	4.46	4.70	4.97	5.27	5.58	5.91	6.24	6.56	14	14	-0-10
300-11	4.15	4.37	4.62	4.90	5.19	5.50	5.80	6.10	15	15	-3-4
252-5	3.48	3.67	3.88	4.11	4.35	4.61	4.86	5.11	16	16	-0-2
213-9	2.94	3.10	3.27	3.47	3.68	3.89	4.11	4.32	17	17	2-8
302-7	4.17	4.40	4.65	4.92	5.22	5.53	5.83	6.13	18	18	3-1
287-5	3.96	4.18	4.41	4.68	4.96	5.25	5.54	5.82	19	19	1-3
260-5	3.59	3.79	4.00	4.24	4.49	4.76	5.02	5.28	20	20	6-8
321-4	4.43	4.67	4.94	5.23	5.54	5.87	6.19	6.51	21	21	0-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
2140	1927	1725	1537	1368	1219	1096	991

Stringing Chart Report

Section #46 from structure #22 to structure #23, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 201.864

Sagging data: Catenary (ft) 4518.41, Horiz. Tension (lbs) 1644.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 30.4 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 25.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 201-11	(ft-in) 0-10	(ft-in) 0-11	(ft-in) 1-0	(ft-in) 1-2	(ft-in) 1-4	(ft-in) 1-6	(ft-in) 1-9	(ft-in) 2-0	22	(ft-in) 3-7

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 201-11	Sec. 2.67	Sec. 2.81	Sec. 2.98	Sec. 3.18	Sec. 3.40	Sec. 3.66	Sec. 3.93	Sec. 4.21	22	(ft-in) 3-7

Horiz Tension 30 F (lbs)	Horiz Tension 40 F (lbs)	Horiz Tension 50 F (lbs)	Horiz Tension 60 F (lbs)	Horiz Tension 70 F (lbs)	Horiz Tension 80 F (lbs)	Horiz Tension 90 F (lbs)	Horiz Tension 100 F (lbs)
2333	2100	1870	1645	1432	1239	1073	935

Stringing Chart Report

Section #47 from structure #23 to structure #25, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 227.093

Sagging data: Catenary (ft) 4789.29, Horiz. Tension (lbs) 1743.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 32.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 28.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
221-9	0-11	1-0	1-2	1-3	1-6	1-8	1-11	2-2	23		-10-8
232-9	1-0	1-2	1-3	1-5	1-7	1-10	2-1	2-5	24		-15-1

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
221-9	2.88	3.02	3.20	3.39	3.62	3.86	4.13	4.40	23		-10-8
232-9	3.02	3.18	3.36	3.56	3.80	4.06	4.34	4.63	24		-15-1

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2417	2190	1963	1740	1533	1342	1173	1033

Stringing Chart Report

Section #48 from structure #25 to structure #52, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 285.347

Sagging data: Catenary (ft) 5353.85, Horiz. Tension (lbs) 1948.8 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 36.0 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 37.8 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
243-8	1-1	1-2	1-3	1-5	1-7	1-9	1-11	2-2	25	8-8
275-7	1-4	1-5	1-7	1-9	2-0	2-3	2-6	2-9	26	0-8
298-6	1-7	1-8	1-11	2-1	2-4	2-7	2-11	3-3	27	2-8
298-11	1-7	1-9	1-11	2-1	2-4	2-7	2-11	3-3	28	0-6
292-3	1-6	1-8	1-10	2-0	2-3	2-6	2-9	3-1	29	0-3
298-11	1-7	1-9	1-11	2-1	2-4	2-7	2-11	3-3	30	-3-3
290-4	1-6	1-7	1-9	2-0	2-2	2-5	2-9	3-1	31	-0-11
261-0	1-2	1-4	1-5	1-7	1-9	2-0	2-3	2-6	32	2-10
319-2	1-9	1-11	2-2	2-5	2-8	3-0	3-4	3-9	33	0-3
313-1	1-9	1-11	2-1	2-3	2-7	2-10	3-2	3-7	34	-1-2
271-5	1-4	1-5	1-7	1-9	1-11	2-2	2-5	2-8	35	-5-6
271-4	1-3	1-5	1-7	1-9	1-11	2-2	2-5	2-8	36	4-7
271-4	1-3	1-5	1-7	1-9	1-11	2-2	2-5	2-8	37	-4-7
249-0	1-1	1-2	1-4	1-5	1-7	1-10	2-0	2-3	38	0-4
220-8	0-10	0-11	1-0	1-2	1-3	1-5	1-7	1-9	39	0-11
252-7	1-1	1-3	1-4	1-6	1-8	1-10	2-1	2-4	40	3-10
201-9	0-9	0-9	0-10	0-11	1-1	1-2	1-4	1-6	41	7-1
298-1	1-7	1-8	1-11	2-1	2-4	2-7	2-11	3-3	42	-2-3
313-1	1-9	1-11	2-1	2-3	2-7	2-10	3-2	3-7	43	-5-4
274-7	1-4	1-5	1-7	1-9	2-0	2-2	2-6	2-9	44	-3-2
200-5	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-6	45	3-1
318-3	1-9	1-11	2-2	2-4	2-8	2-11	3-4	3-8	46	3-0
284-6	1-5	1-7	1-8	1-11	2-1	2-4	2-8	2-11	47	4-9
324-8	1-10	2-0	2-3	2-6	2-9	3-1	3-5	3-10	48	-2-5
297-11	1-7	1-8	1-10	2-1	2-4	2-7	2-11	3-3	49	-0-6
318-4	1-9	1-11	2-2	2-4	2-8	2-11	3-4	3-8	50	6-5
290-4	1-6	1-7	1-9	2-0	2-2	2-5	2-9	3-1	51	1-2

Span	3	3	3	3	3	3	3	3	3	Left	Span
Length	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Struct	Vertical
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Number	Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
243-8	3.05	3.19	3.35	3.52	3.72	3.94	4.17	4.40	25		8-8
275-7	3.45	3.61	3.79	3.98	4.21	4.45	4.71	4.98	26		0-8
298-6	3.74	3.91	4.10	4.32	4.56	4.82	5.10	5.39	27		2-8
298-11	3.74	3.91	4.11	4.32	4.56	4.83	5.11	5.40	28		0-6
292-3	3.66	3.83	4.01	4.22	4.46	4.72	4.99	5.28	29		0-3
298-11	3.74	3.91	4.11	4.32	4.56	4.83	5.11	5.40	30		-3-3
290-4	3.64	3.80	3.99	4.20	4.43	4.69	4.96	5.24	31		-0-11
261-0	3.27	3.42	3.59	3.77	3.98	4.21	4.46	4.71	32		2-10
319-2	4.00	4.18	4.38	4.61	4.87	5.15	5.45	5.76	33		0-3
313-1	3.92	4.10	4.30	4.53	4.78	5.05	5.35	5.65	34		-1-2
271-5	3.40	3.55	3.73	3.92	4.14	4.38	4.64	4.90	35		-5-6
271-4	3.40	3.55	3.73	3.92	4.14	4.38	4.64	4.90	36		4-7
271-4	3.40	3.55	3.73	3.92	4.14	4.38	4.64	4.90	37		-4-7
249-0	3.12	3.26	3.42	3.60	3.80	4.02	4.26	4.50	38		0-4
220-8	2.76	2.89	3.03	3.19	3.37	3.56	3.77	3.98	39		0-11
252-7	3.16	3.31	3.47	3.65	3.86	4.08	4.32	4.56	40		3-10
201-9	2.53	2.64	2.77	2.92	3.08	3.26	3.45	3.64	41		7-1
298-1	3.73	3.90	4.10	4.31	4.55	4.81	5.09	5.38	42		-2-3
313-1	3.92	4.10	4.30	4.53	4.78	5.05	5.35	5.65	43		-5-4
274-7	3.44	3.59	3.77	3.97	4.19	4.43	4.69	4.96	44		-3-2
200-5	2.51	2.62	2.75	2.90	3.06	3.24	3.43	3.62	45		3-1
318-3	3.99	4.17	4.37	4.60	4.86	5.14	5.44	5.75	46		3-0
284-6	3.56	3.72	3.91	4.11	4.34	4.59	4.86	5.14	47		4-9
324-8	4.07	4.25	4.46	4.69	4.96	5.24	5.55	5.86	48		-2-5
297-11	3.73	3.90	4.09	4.31	4.55	4.81	5.09	5.38	49		-0-6
318-4	3.99	4.17	4.37	4.60	4.86	5.14	5.44	5.75	50		6-5
290-4	3.64	3.80	3.99	4.20	4.43	4.69	4.96	5.24	51		1-2

Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2595	2375	2156	1947	1747	1562	1393	1248

Stringing Chart Report

Section #49 from structure #52 to structure #62, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 282.731

Sagging data: Catenary (ft) 5343.96, Horiz. Tension (lbs) 1945.2 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 36.4 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 37.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
264-9	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	52	0-10
226-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	53	-0-1
279-8	1-4	1-6	1-8	1-10	2-1	2-3	2-7	2-10	54	-3-5
296-3	1-6	1-8	1-10	2-1	2-3	2-7	2-11	3-3	55	-0-11
264-8	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	56	0-0
289-8	1-6	1-7	1-9	2-0	2-2	2-5	2-9	3-1	57	-4-2
255-5	1-2	1-3	1-5	1-6	1-8	1-11	2-2	2-5	58	1-11
264-9	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	59	1-3
294-9	1-6	1-8	1-10	2-0	2-3	2-7	2-10	3-2	60	6-0
343-7	2-1	2-3	2-6	2-9	3-1	3-6	3-10	4-4	61	14-2

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
264-9	3.32	3.47	3.64	3.83	4.05	4.28	4.53	4.79	52	0-10
226-10	2.84	2.97	3.12	3.28	3.47	3.67	3.89	4.11	53	-0-1
279-8	3.51	3.66	3.84	4.05	4.27	4.53	4.79	5.06	54	-3-5
296-3	3.71	3.88	4.07	4.29	4.53	4.79	5.07	5.36	55	-0-11
264-8	3.32	3.47	3.64	3.83	4.04	4.28	4.53	4.79	56	0-0
289-8	3.63	3.79	3.98	4.19	4.43	4.69	4.96	5.24	57	-4-2
255-5	3.20	3.35	3.51	3.69	3.90	4.13	4.37	4.62	58	1-11
264-9	3.32	3.47	3.64	3.83	4.05	4.28	4.53	4.79	59	1-3
294-9	3.69	3.86	4.05	4.26	4.50	4.77	5.05	5.33	60	6-0
343-7	4.31	4.50	4.72	4.97	5.25	5.56	5.89	6.22	61	14-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
2591	2372	2156	1945	1743	1554	1388	1243

Stringing Chart Report

Section #98 from structure #52 to structure #62, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 283.688

Sagging data: Catenary (ft) 5343.96, Horiz. Tension (lbs) 1945.2 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 36.4 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 37.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
267-6	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	52	0-10
226-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	53	-0-7
279-8	1-4	1-6	1-8	1-10	2-1	2-3	2-7	2-10	54	4-1
296-3	1-6	1-8	1-10	2-1	2-3	2-7	2-11	3-3	55	-0-11
264-8	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	56	-7-6
289-8	1-6	1-7	1-9	2-0	2-2	2-5	2-9	3-1	57	-3-8
255-5	1-2	1-3	1-5	1-6	1-8	1-11	2-2	2-5	58	1-11
264-9	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	59	1-3
294-8	1-6	1-8	1-10	2-0	2-3	2-6	2-10	3-2	60	6-0
347-10	2-2	2-4	2-7	2-10	3-2	3-6	4-0	4-5	61	14-2

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
267-6	3.35	3.50	3.67	3.87	4.09	4.33	4.58	4.84	52	0-10
226-10	2.84	2.97	3.12	3.28	3.47	3.67	3.89	4.11	53	-0-7
279-8	3.51	3.66	3.84	4.05	4.27	4.52	4.79	5.06	54	4-1
296-3	3.71	3.88	4.07	4.29	4.53	4.79	5.07	5.36	55	-0-11
264-8	3.32	3.47	3.64	3.83	4.05	4.28	4.53	4.79	56	-7-6
289-8	3.63	3.79	3.98	4.19	4.43	4.68	4.96	5.24	57	-3-8
255-5	3.20	3.35	3.51	3.69	3.90	4.13	4.37	4.62	58	1-11
264-9	3.32	3.47	3.64	3.83	4.05	4.28	4.53	4.79	59	1-3
294-8	3.69	3.86	4.05	4.26	4.50	4.77	5.05	5.33	60	6-0
347-10	4.36	4.56	4.78	5.03	5.32	5.63	5.96	6.30	61	14-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
2591	2372	2156	1945	1743	1556	1388	1243

Stringing Chart Report

Section #100 from structure #63 to structure #64, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 170.48

Sagging data: Catenary (ft) 4050.27, Horiz. Tension (lbs) 1474.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 27.6 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 21.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
173-0	0-8	0-9	0-10	0-11	1-1	1-4	1-6	1-9		63	-29-10

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
173-0	2.38	2.53	2.69	2.90	3.13	3.40	3.69	3.97		63	-29-10

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2178	1937	1704	1474	1258	1067	908	783

Stringing Chart Report

Section #101 from structure #64 to structure #65, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 172.851

Sagging data: Catenary (ft) 3187.64, Horiz. Tension (lbs) 1160.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 24.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 19.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 172-11	(ft-in) 0-9	(ft-in) 0-10	(ft-in) 1-0	(ft-in) 1-2	(ft-in) 1-5	(ft-in) 1-7	(ft-in) 1-10	(ft-in) 2-1	64	(ft-in) 4-2

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 172-11	Sec. 2.59	Sec. 2.78	Sec. 2.99	Sec. 3.24	Sec. 3.51	Sec. 3.79	Sec. 4.07	Sec. 4.33	64	(ft-in) 4-2

Horiz Tension 30 F (lbs)	Horiz Tension 40 F (lbs)	Horiz Tension 50 F (lbs)	Horiz Tension 60 F (lbs)	Horiz Tension 70 F (lbs)	Horiz Tension 80 F (lbs)	Horiz Tension 90 F (lbs)	Horiz Tension 100 F (lbs)
1812	1580	1360	1158	986	845	735	651

Stringing Chart Report

Section #102 from structure #65 to structure #99, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 244.025

Sagging data: Catenary (ft) 2981.04, Horiz. Tension (lbs) 1085.1 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 25.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 26.2 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
232-5	1-7	1-9	2-0	2-3	2-6	2-10	3-1	3-4	65	-1-6
144-3	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-3	66	-1-2
171-1	0-10	1-0	1-1	1-3	1-5	1-6	1-8	1-10	67	-1-3
175-6	0-11	1-0	1-2	1-4	1-5	1-7	1-9	1-11	68	0-4
231-9	1-7	1-9	2-0	2-3	2-6	2-10	3-1	3-4	69	-2-3
218-2	1-5	1-7	1-9	2-0	2-3	2-6	2-9	2-11	70	-0-8
222-7	1-5	1-8	1-10	2-1	2-4	2-7	2-10	3-1	71	0-3
281-8	2-4	2-7	2-11	3-4	3-9	4-2	4-6	4-11	72	10-0
279-11	2-3	2-7	2-11	3-4	3-8	4-1	4-6	4-10	73	-0-2
283-11	2-4	2-8	3-0	3-5	3-9	4-2	4-7	5-0	74	-4-1
284-4	2-4	2-8	3-0	3-5	3-10	4-2	4-7	5-0	75	2-9
294-3	2-6	2-10	3-3	3-8	4-1	4-6	4-11	5-4	76	-0-5
275-0	2-2	2-6	2-10	3-2	3-7	3-11	4-4	4-8	77	0-3
271-7	2-2	2-5	2-9	3-1	3-6	3-10	4-3	4-7	78	2-0
264-9	2-0	2-4	2-7	2-11	3-4	3-8	4-0	4-4	79	-2-4
209-0	1-3	1-5	1-8	1-10	2-1	2-3	2-6	2-8	80	1-7
195-3	1-1	1-3	1-5	1-7	1-9	2-0	2-2	2-4	81	0-2
163-5	0-9	0-11	1-0	1-1	1-3	1-5	1-6	1-8	82	1-1
285-8	2-4	2-8	3-0	3-5	3-10	4-3	4-8	5-1	83	0-1
206-4	1-3	1-5	1-7	1-9	2-0	2-3	2-5	2-8	84	-0-1
269-0	2-1	2-4	2-8	3-0	3-5	3-9	4-2	4-6	85	-7-5
196-9	1-1	1-3	1-5	1-8	1-10	2-0	2-3	2-5	86	-0-2
204-0	1-2	1-4	1-7	1-9	1-11	2-2	2-4	2-7	87	-3-10
191-8	1-1	1-2	1-4	1-7	1-9	1-11	2-1	2-3	88	0-4
191-8	1-1	1-2	1-4	1-7	1-9	1-11	2-1	2-3	89	-0-2
266-10	2-1	2-4	2-8	3-0	3-4	3-8	4-1	4-5	90	4-10
254-10	1-11	2-2	2-5	2-9	3-1	3-5	3-9	4-0	91	-6-1
241-4	1-8	1-11	2-2	2-5	2-9	3-0	3-4	3-7	92	0-6
264-4	2-0	2-4	2-7	2-11	3-3	3-8	4-0	4-4	93	5-0
261-5	2-0	2-3	2-7	2-10	3-3	3-7	3-11	4-3	94	-5-11
164-11	0-9	0-11	1-0	1-2	1-3	1-5	1-7	1-8	95	0-7
224-1	1-5	1-8	1-10	2-1	2-4	2-7	2-10	3-1	96	-0-4
257-4	1-11	2-2	2-6	2-9	3-1	3-5	3-9	4-1	97	3-8

252-11	1-10	2-1	2-5	2-8	3-0	3-4	3-8	4-0	98	1-10
Span	3	3	3	3	3	3	3	3	Left	Span
Length	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Struct	Vertical
(ft-in)	Time	Time	Time	Time	Time	Time	Time	Time	Number	Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		(ft-in)
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		
232-5	3.74	3.98	4.24	4.51	4.76	5.01	5.25	5.47	65	-1-6
144-3	2.32	2.47	2.63	2.80	2.96	3.11	3.26	3.39	66	-1-2
171-1	2.75	2.93	3.12	3.32	3.51	3.69	3.87	4.03	67	-1-3
175-6	2.82	3.01	3.20	3.40	3.60	3.79	3.97	4.13	68	0-4
231-9	3.73	3.97	4.23	4.49	4.75	5.00	5.24	5.45	69	-2-3
218-2	3.51	3.74	3.98	4.23	4.47	4.71	4.93	5.14	70	-0-8
222-7	3.58	3.81	4.06	4.31	4.56	4.80	5.03	5.24	71	0-3
281-8	4.53	4.83	5.14	5.46	5.78	6.08	6.37	6.63	72	10-0
279-11	4.50	4.80	5.11	5.43	5.74	6.04	6.33	6.59	73	-0-2
283-11	4.57	4.86	5.18	5.50	5.82	6.12	6.42	6.68	74	-4-1
284-4	4.57	4.87	5.19	5.51	5.83	6.13	6.42	6.69	75	2-9
294-3	4.73	5.04	5.37	5.70	6.03	6.35	6.65	6.93	76	-0-5
275-0	4.42	4.71	5.02	5.33	5.64	5.93	6.21	6.47	77	0-3
271-7	4.37	4.65	4.95	5.26	5.57	5.86	6.14	6.39	78	2-0
264-9	4.26	4.54	4.83	5.13	5.43	5.71	5.98	6.23	79	-2-4
209-0	3.36	3.58	3.81	4.05	4.28	4.51	4.72	4.92	80	1-7
195-3	3.14	3.34	3.56	3.78	4.00	4.21	4.41	4.59	81	0-2
163-5	2.63	2.80	2.98	3.17	3.35	3.52	3.69	3.85	82	1-1
285-8	4.59	4.89	5.21	5.54	5.85	6.16	6.45	6.72	83	0-1
206-4	3.32	3.53	3.76	4.00	4.23	4.45	4.66	4.86	84	-0-1
269-0	4.33	4.61	4.91	5.21	5.51	5.80	6.08	6.33	85	-7-5
196-9	3.16	3.37	3.59	3.81	4.03	4.24	4.44	4.63	86	-0-2
204-0	3.28	3.49	3.72	3.95	4.18	4.40	4.61	4.80	87	-3-10
191-8	3.08	3.28	3.50	3.72	3.93	4.13	4.33	4.51	88	0-4
191-8	3.08	3.28	3.50	3.72	3.93	4.13	4.33	4.51	89	-0-2
266-10	4.29	4.57	4.87	5.17	5.47	5.76	6.03	6.28	90	4-10
254-10	4.10	4.37	4.65	4.94	5.22	5.50	5.76	6.00	91	-6-1
241-4	3.88	4.13	4.40	4.68	4.95	5.21	5.45	5.68	92	0-6
264-4	4.25	4.53	4.82	5.12	5.42	5.70	5.97	6.22	93	5-0
261-5	4.21	4.48	4.77	5.07	5.36	5.64	5.91	6.15	94	-5-11
164-11	2.65	2.82	3.01	3.20	3.38	3.56	3.73	3.88	95	0-7
224-1	3.60	3.84	4.09	4.34	4.59	4.83	5.06	5.27	96	-0-4
257-4	4.14	4.41	4.69	4.99	5.27	5.55	5.82	6.06	97	3-8
252-11	4.07	4.33	4.61	4.90	5.18	5.46	5.71	5.95	98	1-10

Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1573	1387	1223	1083	969	875	797	735

Stringing Chart Report

Section #103 from structure #99 to structure #100, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 263.763

Sagging data: Catenary (ft) 2948.9, Horiz. Tension (lbs) 1073.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 26.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 28.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F	Number	(ft-in)
(ft-in) 263-9	(ft-in) 2-1	(ft-in) 2-4	(ft-in) 2-8	(ft-in) 2-11	(ft-in) 3-3	(ft-in) 3-7	(ft-in) 3-11	(ft-in) 4-2	99	(ft-in) 1-9

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Number	(ft-in)
(ft-in) 263-9	Sec. 4.32	Sec. 4.59	Sec. 4.86	Sec. 5.14	Sec. 5.41	Sec. 5.66	Sec. 5.91	Sec. 6.13	99	(ft-in) 1-9

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
(lbs) 1514	(lbs) 1346	(lbs) 1197	(lbs) 1074	(lbs) 969	(lbs) 884	(lbs) 812	(lbs) 754

Stringing Chart Report

Section #104 from structure #100 to structure #101, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 111.043

Sagging data: Catenary (ft) 3408.52, Horiz. Tension (lbs) 1240.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 22.7 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 14.2 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
111-1	0-3	0-4	0-5	0-5	0-7	0-8	0-10	1-0	100	0-1

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F	Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
111-1	1.59	1.70	1.84	2.01	2.23	2.49	2.78	3.05	100	0-1

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1990	1740	1487	1241	1008	808	650	539

Stringing Chart Report

Section #105 from structure #101 to structure #102, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 110.112

Sagging data: Catenary (ft) 3408.52, Horiz. Tension (lbs) 1240.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 22.3 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 13.9 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F	Number	(ft-in)
110-1	0-3	0-4	0-4	0-5	0-7	0-8	0-10	1-0	101	1-5

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct	Span Vertical Projection
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Number	(ft-in)
110-1	1.57	1.68	1.82	2.00	2.21	2.47	2.76	3.03	101	1-5

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1994	1740	1487	1237	1008	806	648	536

Stringing Chart Report

Section #106 from structure #102 to structure #132, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 236.333

Sagging data: Catenary (ft) 2996.98, Horiz. Tension (lbs) 1090.9 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 25.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 25.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
218-8	1-4	1-7	1-9	2-0	2-3	2-6	2-9	3-0	102	-2-6
268-5	2-1	2-4	2-8	3-0	3-5	3-9	4-2	4-6	103	-5-0
132-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	104	-0-10
124-3	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	105	0-9
155-6	0-8	0-9	0-11	1-0	1-2	1-3	1-5	1-6	106	0-1
123-11	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	107	0-1
239-4	1-8	1-10	2-1	2-5	2-8	3-0	3-4	3-7	108	-0-1
177-11	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0	109	-0-1
171-8	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-10	110	5-3
178-6	0-11	1-0	1-2	1-4	1-6	1-8	1-10	2-0	111	1-9
209-11	1-3	1-5	1-7	1-10	2-1	2-4	2-6	2-9	112	-1-3
266-7	2-0	2-4	2-7	3-0	3-4	3-9	4-1	4-5	113	5-5
304-4	2-8	3-0	3-5	3-10	4-4	4-10	5-4	5-10	114	1-0
238-10	1-8	1-10	2-1	2-5	2-8	3-0	3-3	3-7	115	-4-6
206-9	1-3	1-5	1-7	1-9	2-0	2-3	2-6	2-8	116	-5-8
188-7	1-0	1-2	1-4	1-6	1-8	1-10	2-1	2-3	117	0-5
267-8	2-1	2-4	2-8	3-0	3-4	3-9	4-1	4-6	118	10-3
224-9	1-5	1-8	1-10	2-1	2-4	2-8	2-11	3-2	119	-5-1
275-6	2-2	2-5	2-10	3-2	3-7	4-0	4-4	4-9	120	3-9
290-7	2-5	2-9	3-1	3-6	4-0	4-5	4-10	5-3	121	-4-0
239-1	1-8	1-10	2-1	2-5	2-8	3-0	3-3	3-7	122	2-9
242-7	1-8	1-11	2-2	2-5	2-9	3-1	3-5	3-8	123	1-2
226-11	1-6	1-8	1-11	2-2	2-5	2-8	3-0	3-3	124	-2-9
251-10	1-10	2-1	2-4	2-8	3-0	3-4	3-8	4-0	125	-0-3
247-4	1-9	2-0	2-3	2-7	2-10	3-2	3-6	3-10	126	0-8
277-9	2-2	2-6	2-10	3-3	3-7	4-0	4-5	4-10	127	-1-2
304-6	2-8	3-0	3-5	3-10	4-4	4-10	5-4	5-10	128	2-6
185-3	1-0	1-1	1-3	1-5	1-7	1-10	2-0	2-2	129	-4-4
176-2	0-11	1-0	1-2	1-4	1-5	1-7	1-9	1-11	130	-5-0
139-0	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	131	-6-6

Span	3	3	3	3	3	3	3	3	3	Left	Span
Length	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Struct	Vertical
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Number	Projection
(ft-in)	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			(ft-in)
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			
218-8	3.49	3.72	3.97	4.22	4.48	4.73	4.96	5.18	102		-2-6
268-5	4.29	4.57	4.87	5.18	5.50	5.80	6.09	6.35	103		-5-0
132-5	2.12	2.25	2.40	2.56	2.71	2.86	3.00	3.13	104		-0-10
124-3	1.98	2.11	2.26	2.40	2.55	2.69	2.82	2.94	105		0-9
155-6	2.48	2.65	2.82	3.00	3.19	3.36	3.53	3.68	106		0-1
123-11	1.98	2.11	2.25	2.39	2.54	2.68	2.81	2.93	107		0-1
239-4	3.82	4.07	4.34	4.62	4.90	5.17	5.43	5.66	108		-0-1
177-11	2.84	3.03	3.23	3.44	3.64	3.85	4.04	4.21	109		-0-1
171-8	2.74	2.92	3.12	3.32	3.52	3.71	3.89	4.06	110		5-3
178-6	2.85	3.04	3.24	3.45	3.66	3.86	4.05	4.22	111		1-9
209-11	3.35	3.57	3.81	4.05	4.30	4.54	4.76	4.97	112		-1-3
266-7	4.26	4.54	4.84	5.15	5.46	5.76	6.05	6.31	113		5-5
304-4	4.86	5.18	5.53	5.88	6.23	6.58	6.90	7.20	114		1-0
238-10	3.82	4.06	4.34	4.61	4.89	5.16	5.42	5.65	115		-4-6
206-9	3.30	3.52	3.75	3.99	4.24	4.47	4.69	4.89	116		-5-8
188-7	3.01	3.21	3.42	3.64	3.86	4.08	4.28	4.46	117		0-5
267-8	4.28	4.56	4.86	5.17	5.49	5.79	6.07	6.34	118		10-3
224-9	3.59	3.82	4.08	4.34	4.60	4.86	5.10	5.32	119		-5-1
275-6	4.40	4.69	5.00	5.32	5.64	5.96	6.25	6.52	120		3-9
290-7	4.64	4.94	5.28	5.61	5.95	6.28	6.59	6.88	121		-4-0
239-1	3.82	4.07	4.34	4.62	4.90	5.17	5.42	5.66	122		2-9
242-7	3.88	4.13	4.40	4.69	4.97	5.24	5.50	5.74	123		1-2
226-11	3.63	3.86	4.12	4.38	4.65	4.91	5.15	5.37	124		-2-9
251-10	4.02	4.29	4.57	4.86	5.16	5.44	5.71	5.96	125		-0-3
247-4	3.95	4.21	4.49	4.78	5.07	5.35	5.61	5.85	126		0-8
277-9	4.44	4.73	5.04	5.37	5.69	6.01	6.30	6.57	127		-1-2
304-6	4.86	5.18	5.53	5.88	6.24	6.58	6.91	7.21	128		2-6
185-3	2.96	3.15	3.36	3.58	3.80	4.01	4.20	4.38	129		-4-4
176-2	2.81	3.00	3.20	3.40	3.61	3.81	4.00	4.17	130		-5-0
139-0	2.22	2.37	2.52	2.69	2.85	3.01	3.15	3.29	131		-6-6

Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1595	1406	1235	1091	970	871	791	727

Stringing Chart Report

Section #107 from structure #132 to structure #145, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 233.844

Sagging data: Catenary (ft) 3007.69, Horiz. Tension (lbs) 1094.8 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 25.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 25.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
163-4	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	132	5-9
254-5	1-10	2-1	2-4	2-8	3-0	3-5	3-9	4-1	133	6-3
254-5	1-10	2-1	2-4	2-8	3-0	3-5	3-9	4-1	134	-2-6
254-7	1-10	2-1	2-4	2-8	3-0	3-5	3-9	4-1	135	-0-4
214-7	1-4	1-6	1-8	1-11	2-2	2-5	2-8	2-11	136	-2-6
271-7	2-1	2-4	2-8	3-1	3-5	3-10	4-3	4-8	137	4-1
260-1	1-11	2-2	2-6	2-10	3-2	3-6	3-11	4-3	138	-3-2
127-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0	139	-1-1
163-3	0-9	0-10	1-0	1-1	1-3	1-5	1-6	1-8	140	0-9
233-7	1-7	1-9	2-0	2-3	2-7	2-10	3-2	3-5	141	-2-2
196-6	1-1	1-3	1-5	1-7	1-10	2-0	2-3	2-5	142	0-2
262-3	1-11	2-3	2-6	2-10	3-3	3-7	4-0	4-4	143	4-3
226-1	1-5	1-8	1-10	2-1	2-5	2-8	2-11	3-3	144	0-0

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
163-4	2.60	2.77	2.96	3.15	3.34	3.53	3.71	3.87	132	5-9
254-5	4.05	4.32	4.61	4.91	5.21	5.50	5.77	6.03	133	6-3
254-5	4.05	4.32	4.61	4.91	5.21	5.50	5.77	6.03	134	-2-6
254-7	4.05	4.32	4.61	4.91	5.21	5.50	5.78	6.03	135	-0-4
214-7	3.42	3.64	3.88	4.14	4.39	4.64	4.87	5.08	136	-2-6
271-7	4.32	4.61	4.92	5.24	5.56	5.87	6.16	6.44	137	4-1
260-1	4.14	4.41	4.71	5.01	5.32	5.62	5.90	6.16	138	-3-2
127-5	2.03	2.16	2.31	2.46	2.61	2.75	2.89	3.02	139	-1-1
163-3	2.60	2.77	2.95	3.15	3.34	3.53	3.70	3.87	140	0-9
233-7	3.72	3.96	4.23	4.50	4.78	5.05	5.30	5.54	141	-2-2
196-6	3.13	3.33	3.56	3.79	4.02	4.25	4.46	4.66	142	0-2
262-3	4.18	4.45	4.75	5.06	5.37	5.67	5.95	6.21	143	4-3
226-1	3.60	3.84	4.09	4.36	4.63	4.89	5.13	5.36	144	0-0

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1606	1413	1242	1095	972	871	790	725

Stringing Chart Report

Section #108 from structure #145 to structure #147, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 199.043

Sagging data: Catenary (ft) 3108.52, Horiz. Tension (lbs) 1131.5 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 24.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 22.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
228-0	1-4	1-7	1-10	2-1	2-5	2-9	3-1	3-5	145		-2-2
139-4	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-3	146		-4-0

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
228-0	3.50	3.74	4.02	4.32	4.65	4.96	5.27	5.55	145		-2-2
139-4	2.14	2.29	2.46	2.64	2.84	3.03	3.22	3.39	146		-4-0

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1730	1510	1311	1132	980	859	763	687

Stringing Chart Report

Section #109 from structure #147 to structure #151, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 209.871

Sagging data: Catenary (ft) 3124.18, Horiz. Tension (lbs) 1137.2 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 25.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 23.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
195-9	1-0	1-2	1-4	1-6	1-9	2-0	2-3	2-6	147	-4-11
139-6	0-6	0-7	0-8	0-9	0-11	1-0	1-2	1-3	148	-0-6
271-9	2-0	2-3	2-7	3-0	3-5	3-10	4-4	4-9	149	4-4
128-3	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-1	150	-0-11

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
195-9	3.02	3.22	3.46	3.71	3.97	4.22	4.47	4.70	147	-4-11
139-6	2.15	2.30	2.46	2.64	2.83	3.01	3.18	3.35	148	-0-6
271-9	4.19	4.47	4.80	5.15	5.51	5.86	6.20	6.52	149	4-4
128-3	1.98	2.11	2.26	2.43	2.60	2.77	2.93	3.08	150	-0-11

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1715	1502	1307	1135	992	875	782	707

Stringing Chart Report

Section #110 from structure #151 to structure #153, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 139.748

Sagging data: Catenary (ft) 3803.57, Horiz. Tension (lbs) 1384.5 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 25.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 17.8 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
149-5	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-6	151	4-11
127-7	0-4	0-5	0-5	0-6	0-8	0-9	0-11	1-1	152	1-7

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
149-5	2.07	2.21	2.37	2.56	2.80	3.08	3.38	3.68	151	4-11
127-7	1.77	1.88	2.02	2.19	2.39	2.63	2.88	3.14	152	1-7

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2113	1866	1623	1385	1158	958	797	672

Stringing Chart Report

Section #111 from structure #153 to structure #154, start set #18 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 292.594

Sagging data: Catenary (ft) 5392.86, Horiz. Tension (lbs) 1963 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 36.7 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 38.8 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 292-9	(ft-in) 1-6	(ft-in) 1-8	(ft-in) 1-10	(ft-in) 2-0	(ft-in) 2-3	(ft-in) 2-6	(ft-in) 2-9	(ft-in) 3-1	153	(ft-in) 9-3

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 292-9	Sec. 3.66	Sec. 3.82	Sec. 4.01	Sec. 4.22	Sec. 4.45	Sec. 4.70	Sec. 4.97	Sec. 5.25	153	(ft-in) 9-3

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs) 2604	(lbs) 2385	(lbs) 2170	(lbs) 1963	(lbs) 1761	(lbs) 1577	(lbs) 1410	(lbs) 1268

Stringing Chart Report

Section #112 from structure #154 to structure #Existing -Sugg STR 30, start set #18 '', end set #8 ''
 Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC - 2500.wir', Ruling span (ft) 228.171

Sagging data: Catenary (ft) 3018.41, Horiz. Tension (lbs) 1098.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 25.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 24.8 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
299-9	2-6	2-10	3-3	3-9	4-3	4-8	5-3	5-8		154 -9-1
181-2	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-1		155 0-10
173-7	0-10	1-0	1-1	1-3	1-5	1-7	1-9	1-11		156 -4-7
254-6	1-10	2-1	2-4	2-8	3-0	3-5	3-9	4-1		157 3-4
237-9	1-7	1-10	2-1	2-4	2-8	3-0	3-3	3-7		158 -0-2
272-2	2-1	2-4	2-8	3-1	3-6	3-11	4-4	4-8		159 -5-9
209-3	1-3	1-5	1-7	1-10	2-1	2-4	2-6	2-9		160 0-9
181-4	0-11	1-1	1-2	1-4	1-6	1-9	1-11	2-1		161 -0-10
127-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0		162 -0-1
145-4	0-7	0-8	0-9	0-11	1-0	1-1	1-3	1-4		163 -5-10

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
299-9	4.75	5.06	5.41	5.77	6.14	6.49	6.83	7.13		154 -9-1
181-2	2.87	3.06	3.27	3.49	3.71	3.92	4.12	4.31		155 0-10
173-7	2.75	2.93	3.13	3.34	3.55	3.76	3.95	4.13		156 -4-7
254-6	4.03	4.30	4.59	4.90	5.21	5.51	5.79	6.06		157 3-4
237-9	3.76	4.01	4.29	4.58	4.86	5.15	5.41	5.66		158 -0-2
272-2	4.31	4.59	4.91	5.24	5.57	5.89	6.20	6.48		159 -5-9
209-3	3.31	3.53	3.78	4.03	4.28	4.53	4.76	4.98		160 0-9
181-4	2.87	3.06	3.27	3.49	3.71	3.92	4.13	4.32		161 -0-10
127-5	2.02	2.15	2.30	2.45	2.61	2.76	2.90	3.03		162 -0-1
145-4	2.30	2.45	2.62	2.80	2.98	3.15	3.31	3.46		163 -5-10

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
1624	1428	1250	1099	972	869	785	719

Stringing Chart Report

Section #120 from structure #52 to structure #62, start set #19 '', end set #9 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 282.748

Sagging data: Catenary (ft) 5343.96, Horiz. Tension (lbs) 1945.2 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 36.0 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 37.1 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
265-4	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	52	0-10
226-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	1-11	53	-0-7
279-8	1-4	1-6	1-8	1-10	2-1	2-3	2-7	2-10	54	4-1
296-3	1-6	1-8	1-10	2-1	2-3	2-7	2-11	3-3	55	-0-11
264-8	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	56	-7-6
289-8	1-6	1-7	1-9	2-0	2-2	2-5	2-9	3-1	57	-3-8
255-5	1-2	1-3	1-5	1-6	1-8	1-11	2-2	2-5	58	1-11
264-9	1-3	1-4	1-6	1-8	1-10	2-1	2-4	2-7	59	1-3
294-11	1-6	1-8	1-10	2-0	2-3	2-7	2-10	3-2	60	6-0
343-4	2-1	2-3	2-6	2-9	3-1	3-5	3-10	4-4	61	14-2

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
265-4	3.33	3.48	3.65	3.84	4.06	4.29	4.54	4.80	52	0-10
226-10	2.84	2.97	3.12	3.28	3.47	3.67	3.89	4.11	53	-0-7
279-8	3.51	3.66	3.84	4.05	4.27	4.53	4.79	5.06	54	4-1
296-3	3.71	3.88	4.07	4.29	4.53	4.79	5.07	5.36	55	-0-11
264-8	3.32	3.47	3.64	3.83	4.05	4.28	4.53	4.79	56	-7-6
289-8	3.63	3.79	3.98	4.19	4.43	4.69	4.96	5.24	57	-3-8
255-5	3.20	3.35	3.51	3.70	3.90	4.13	4.37	4.62	58	1-11
264-9	3.32	3.47	3.64	3.83	4.05	4.28	4.53	4.79	59	1-3
294-11	3.70	3.86	4.05	4.27	4.51	4.77	5.05	5.34	60	6-0
343-4	4.30	4.50	4.72	4.97	5.25	5.56	5.88	6.22	61	14-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
2591	2372	2156	1942	1743	1554	1388	1243

Stringing Chart Report

Section #121 from structure #62 to structure #63, start set #19 '', end set #8 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\MERLIN_ACSR_GA2_GCC.wir', Ruling span (ft) 401.614

Sagging data: Catenary (ft) 5066.76, Horiz. Tension (lbs) 1844.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 38.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 54.0 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
401-8	3-1	3-4	3-8	4-0	4-4	4-9	5-2	5-7	62	3-6

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F	Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
401-8	5.25	5.47	5.71	5.97	6.23	6.50	6.78	7.05	62	3-6

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
2383	2193	2012	1844	1690	1552	1429	1323

Stringing Chart Report

Section #60 from structure #Mt. Pleasant Sub to structure #1, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 174.626

Sagging data: Catenary (ft) 2965.49, Horiz. Tension (lbs) 3540.8 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 21.3 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 21.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
176-0	0-10	1-0	1-2	1-4	1-6	1-9	2-0	2-3	Mt. Pleasant Sub	22-4

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
176-0	2.79	2.97	3.19	3.43	3.70	3.97	4.24	4.50	Mt. Pleasant Sub	22-4

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
5347	4712	4096	3541	3052	2644	2317	2060

Stringing Chart Report

Section #61 from structure #1 to structure #4, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 192.191

Sagging data: Catenary (ft) 3143.97, Horiz. Tension (lbs) 3753.9 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 23.0 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 22.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
206-8	1-2	1-4	1-6	1-8	1-11	2-3	2-6	2-10	1	2-0
199-2	1-1	1-3	1-5	1-7	1-10	2-1	2-4	2-8	2	3-11
162-1	0-9	0-10	0-11	1-1	1-2	1-4	1-7	1-9	3	3-8

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
206-8	3.21	3.41	3.64	3.90	4.18	4.47	4.76	5.03	1	2-0
199-2	3.10	3.29	3.51	3.76	4.03	4.31	4.58	4.85	2	3-11
162-1	2.52	2.68	2.86	3.06	3.28	3.51	3.73	3.95	3	3-8

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
5526	4896	4304	3754	3265	2856	2521	2253

Stringing Chart Report

Section #62 from structure #4 to structure #5, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 323.392

Sagging data: Catenary (ft) 3962.23, Horiz. Tension (lbs) 4730.9 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 33.6 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 32.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
323-5	2-6	2-9	3-0	3-4	3-7	4-0	4-4	4-8	4	4-8

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F	Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
323-5	4.73	4.95	5.18	5.44	5.69	5.96	6.22	6.48	4	4-8

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
6246	5707	5199	4726	4310	3933	3608	3331

Stringing Chart Report

Section #63 from structure #5 to structure #6, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 170.612

Sagging data: Catenary (ft) 2957.29, Horiz. Tension (lbs) 3531 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 20.9 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 20.9 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
171-2	0-10	0-11	1-1	1-3	1-5	1-8	1-11	2-2	5	-13-7

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F	Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
171-2	2.71	2.89	3.09	3.34	3.60	3.87	4.14	4.39	5	-13-7

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
5356	4712	4096	3526	3032	2619	2291	2031

Stringing Chart Report

Section #64 from structure #6 to structure #22, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac - 6800.wir', Ruling span (ft) 272.829

Sagging data: Catenary (ft) 3143.3, Horiz. Tension (lbs) 3753.1 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 26.9 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 26.9 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Span Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
229-3	1-6	1-8	1-11	2-1	2-4	2-7	2-9	3-0	6	2-9
239-4	1-8	1-10	2-1	2-3	2-6	2-9	3-0	3-3	7	-0-10
262-6	2-0	2-3	2-6	2-9	3-0	3-4	3-8	3-11	8	-6-6
262-6	2-0	2-3	2-6	2-9	3-0	3-4	3-8	3-11	9	-1-1
210-3	1-3	1-5	1-7	1-9	1-11	2-2	2-4	2-6	10	-1-6
252-5	1-10	2-1	2-3	2-6	2-10	3-1	3-4	3-8	11	-0-1
261-8	2-0	2-2	2-5	2-9	3-0	3-4	3-7	3-11	12	0-1
284-9	2-4	2-7	2-11	3-3	3-7	3-11	4-3	4-8	13	5-9
323-8	3-0	3-4	3-9	4-2	4-7	5-1	5-6	6-0	14	-0-10
300-11	2-7	2-11	3-3	3-7	4-0	4-5	4-9	5-2	15	-4-10
252-5	1-10	2-1	2-3	2-6	2-10	3-1	3-4	3-8	16	0-4
212-9	1-4	1-5	1-7	1-10	2-0	2-2	2-5	2-7	17	3-8
302-4	2-8	2-11	3-3	3-8	4-0	4-5	4-10	5-3	18	3-1
287-5	2-5	2-8	3-0	3-3	3-8	4-0	4-4	4-9	19	1-3
260-2	2-0	2-2	2-5	2-8	3-0	3-3	3-7	3-10	20	6-8
321-8	3-0	3-4	3-9	4-1	4-7	5-0	5-6	5-11	21	7-9

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
(ft-in)	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F	Sec.	Sec.	(ft-in)
229-3	3.69	3.89	4.10	4.33	4.55	4.77	4.98	5.18	6	6	2-9
239-4	3.85	4.06	4.28	4.52	4.75	4.98	5.20	5.41	7	7	-0-10
262-6	4.22	4.46	4.70	4.96	5.21	5.46	5.71	5.93	8	8	-6-6
262-6	4.22	4.45	4.70	4.95	5.21	5.46	5.70	5.93	9	9	-1-1
210-3	3.38	3.57	3.76	3.97	4.17	4.37	4.57	4.75	10	10	-1-6
252-5	4.06	4.28	4.52	4.76	5.01	5.25	5.49	5.70	11	11	-0-1
261-8	4.21	4.44	4.68	4.94	5.19	5.45	5.69	5.91	12	12	0-1
284-9	4.58	4.83	5.10	5.37	5.65	5.93	6.19	6.44	13	13	5-9
323-8	5.21	5.49	5.79	6.11	6.42	6.73	7.03	7.31	14	14	-0-10
300-11	4.84	5.11	5.39	5.68	5.97	6.26	6.54	6.80	15	15	-4-10
252-5	4.06	4.28	4.52	4.76	5.01	5.25	5.48	5.70	16	16	0-4
212-9	3.42	3.61	3.81	4.02	4.22	4.43	4.62	4.81	17	17	3-8
302-4	4.86	5.13	5.41	5.71	6.00	6.29	6.57	6.83	18	18	3-1
287-5	4.62	4.88	5.14	5.42	5.70	5.98	6.24	6.49	19	19	1-3
260-2	4.19	4.42	4.66	4.91	5.16	5.41	5.65	5.88	20	20	6-8
321-8	5.18	5.46	5.76	6.07	6.38	6.69	6.99	7.27	21	21	7-9

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
5157	4637	4166	3748	3392	3084	2828	2615

Stringing Chart Report

Section #65 from structure #22 to structure #23, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 202.817

Sagging data: Catenary (ft) 3228.64, Horiz. Tension (lbs) 3855 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 24.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 23.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F	Number	(ft-in)
202-10	1-1	1-3	1-5	1-7	1-10	2-1	2-4	2-7	22	-4-9

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct	Span Vertical Projection
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Number	(ft-in)
202-10	3.13	3.32	3.54	3.78	4.04	4.31	4.57	4.83	22	-4-9

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
5607	4988	4398	3855	3373	2966	2627	2356

Stringing Chart Report

Section #66 from structure #23 to structure #25, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 227.474

Sagging data: Catenary (ft) 3380.9, Horiz. Tension (lbs) 4036.79 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 26.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 25.1 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
222-2	1-3	1-5	1-7	1-10	2-1	2-4	2-7	2-11	23		-10-6
233-2	1-5	1-7	1-9	2-0	2-3	2-7	2-10	3-2	24		-15-7

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
222-2	3.39	3.59	3.81	4.05	4.30	4.56	4.82	5.07	23		-10-6
233-2	3.56	3.76	4.00	4.25	4.51	4.79	5.06	5.33	24		-15-7

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
5731	5133	4557	4032	3573	3174	2839	2565

Stringing Chart Report

Section #67 from structure #25 to structure #52, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac - 6800.wir', Ruling span (ft) 285.205

Sagging data: Catenary (ft) 3155.28, Horiz. Tension (lbs) 3767.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 27.6 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 27.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
244-1	1-9	1-11	2-2	2-4	2-7	2-10	3-1	3-4	25	6-1
275-7	2-3	2-5	2-9	3-0	3-4	3-8	3-11	4-3	26	0-8
298-6	2-7	2-11	3-2	3-6	3-11	4-3	4-7	5-0	27	4-8
298-11	2-7	2-11	3-2	3-6	3-11	4-3	4-8	5-0	28	0-6
292-3	2-6	2-9	3-1	3-5	3-9	4-1	4-5	4-9	29	0-3
298-11	2-7	2-11	3-2	3-6	3-11	4-3	4-8	5-0	30	-5-3
290-4	2-5	2-9	3-0	3-4	3-8	4-0	4-4	4-9	31	-0-11
261-0	2-0	2-2	2-5	2-8	3-0	3-3	3-6	3-10	32	4-10
319-2	3-0	3-4	3-8	4-0	4-5	4-10	5-3	5-8	33	0-3
312-11	2-10	3-2	3-6	3-11	4-3	4-8	5-1	5-6	34	-1-2
271-5	2-2	2-5	2-8	2-11	3-3	3-6	3-10	4-1	35	-6-0
271-4	2-2	2-5	2-8	2-11	3-3	3-6	3-10	4-1	36	4-7
271-2	2-2	2-5	2-8	2-11	3-3	3-6	3-10	4-1	37	-4-1
248-10	1-10	2-0	2-3	2-5	2-8	2-11	3-3	3-6	38	-0-2
220-6	1-5	1-7	1-9	1-11	2-1	2-4	2-6	2-9	39	1-5
252-4	1-10	2-1	2-3	2-6	2-9	3-0	3-4	3-7	40	3-4
201-8	1-2	1-4	1-6	1-7	1-9	1-11	2-1	2-3	41	7-7
297-11	2-7	2-10	3-2	3-6	3-10	4-3	4-7	5-0	42	-2-3
313-0	2-10	3-2	3-6	3-11	4-3	4-8	5-1	5-6	43	-5-10
274-3	2-2	2-5	2-8	3-0	3-3	3-7	3-11	4-3	44	-2-8
199-6	1-2	1-3	1-5	1-7	1-9	1-11	2-1	2-3	45	3-1
318-0	2-11	3-3	3-7	4-0	4-5	4-10	5-3	5-8	46	3-0
284-6	2-4	2-7	2-11	3-2	3-6	3-10	4-2	4-6	47	4-9
324-4	3-1	3-5	3-9	4-2	4-7	5-0	5-5	5-11	48	-2-5
297-1	2-7	2-10	3-2	3-6	3-10	4-3	4-7	4-11	49	-0-6
317-10	2-11	3-3	3-7	4-0	4-5	4-10	5-3	5-8	50	6-5
290-4	2-5	2-9	3-0	3-4	3-8	4-0	4-4	4-9	51	8-2

Span	3	3	3	3	3	3	3	3	3	Left	Span
Length	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Struct	Vertical
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Number	Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
244-1	3.94	4.15	4.37	4.60	4.82	5.04	5.26	5.46	25		6-1
275-7	4.45	4.69	4.93	5.19	5.44	5.70	5.94	6.17	26		0-8
298-6	4.82	5.08	5.34	5.62	5.90	6.17	6.43	6.68	27		4-8
298-11	4.83	5.08	5.35	5.63	5.91	6.18	6.44	6.69	28		0-6
292-3	4.72	4.97	5.23	5.50	5.77	6.04	6.29	6.54	29		0-3
298-11	4.83	5.08	5.35	5.63	5.91	6.18	6.44	6.69	30		-5-3
290-4	4.69	4.94	5.20	5.47	5.74	6.00	6.25	6.50	31		-0-11
261-0	4.21	4.44	4.67	4.91	5.16	5.39	5.62	5.84	32		4-10
319-2	5.15	5.43	5.71	6.01	6.31	6.60	6.87	7.14	33		0-3
312-11	5.05	5.32	5.60	5.89	6.18	6.47	6.74	7.00	34		-1-2
271-5	4.38	4.62	4.86	5.11	5.36	5.61	5.85	6.07	35		-6-0
271-4	4.38	4.61	4.86	5.11	5.36	5.61	5.85	6.07	36		4-7
271-2	4.38	4.61	4.86	5.11	5.36	5.60	5.84	6.07	37		-4-1
248-10	4.02	4.23	4.45	4.68	4.92	5.14	5.36	5.57	38		-0-2
220-6	3.56	3.75	3.95	4.15	4.36	4.56	4.75	4.93	39		1-5
252-4	4.08	4.29	4.52	4.75	4.99	5.22	5.44	5.65	40		3-4
201-8	3.26	3.43	3.61	3.80	3.99	4.17	4.35	4.51	41		7-7
297-11	4.81	5.07	5.33	5.61	5.89	6.16	6.42	6.67	42		-2-3
313-0	5.06	5.32	5.60	5.89	6.19	6.47	6.74	7.00	43		-5-10
274-3	4.43	4.66	4.91	5.16	5.42	5.67	5.91	6.14	44		-2-8
199-6	3.22	3.39	3.57	3.76	3.94	4.12	4.30	4.46	45		3-1
318-0	5.14	5.41	5.69	5.99	6.28	6.57	6.85	7.12	46		3-0
284-6	4.59	4.84	5.09	5.36	5.62	5.88	6.13	6.37	47		4-9
324-4	5.24	5.51	5.81	6.11	6.41	6.70	6.99	7.26	48		-2-5
297-1	4.80	5.05	5.32	5.59	5.87	6.14	6.40	6.65	49		-0-6
317-10	5.13	5.41	5.69	5.98	6.28	6.57	6.85	7.11	50		6-5
290-4	4.69	4.94	5.20	5.47	5.74	6.00	6.25	6.50	51		8-2

Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
5120	4618	4166	3767	3421	3126	2878	2668

Stringing Chart Report

Section #68 from structure #52 to structure #62, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 282.725

Sagging data: Catenary (ft) 3728.81, Horiz. Tension (lbs) 4452.2 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 30.4 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 29.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
264-8	1-9	1-11	2-1	2-4	2-7	2-11	3-2	3-6	52	-2-3
226-10	1-3	1-5	1-7	1-9	1-11	2-1	2-4	2-7	53	-0-1
279-8	1-11	2-2	2-4	2-7	2-11	3-3	3-6	3-10	54	7-1
296-3	2-2	2-5	2-8	2-11	3-3	3-7	4-0	4-4	55	-0-11
264-8	1-9	1-11	2-1	2-4	2-7	2-11	3-2	3-6	56	-10-6
289-8	2-1	2-3	2-6	2-10	3-1	3-5	3-10	4-2	57	-4-2
255-5	1-7	1-9	2-0	2-2	2-5	2-8	2-11	3-3	58	1-11
264-9	1-9	1-11	2-1	2-4	2-7	2-11	3-2	3-6	59	1-3
294-7	2-2	2-4	2-7	2-11	3-3	3-7	3-11	4-3	60	9-0
343-11	2-11	3-3	3-7	4-0	4-5	4-10	5-4	5-10	61	14-8

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
264-8	3.94	4.13	4.35	4.58	4.83	5.08	5.32	5.56	52	-2-3
226-10	3.37	3.54	3.73	3.93	4.14	4.35	4.56	4.77	53	-0-1
279-8	4.16	4.37	4.60	4.84	5.10	5.36	5.63	5.88	54	7-1
296-3	4.41	4.63	4.87	5.13	5.40	5.68	5.96	6.23	55	-0-11
264-8	3.94	4.13	4.35	4.59	4.83	5.08	5.33	5.57	56	-10-6
289-8	4.31	4.52	4.76	5.02	5.28	5.56	5.83	6.09	57	-4-2
255-5	3.80	3.99	4.20	4.42	4.66	4.90	5.14	5.37	58	1-11
264-9	3.94	4.13	4.35	4.58	4.83	5.08	5.32	5.57	59	1-3
294-7	4.38	4.60	4.84	5.10	5.37	5.65	5.93	6.19	60	9-0
343-11	5.12	5.37	5.65	5.96	6.27	6.60	6.92	7.23	61	14-8

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
6038	5475	4945	4452	4016	3629	3301	3022

Stringing Chart Report

Section #69 from structure #62 to structure #63, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 403.065

Sagging data: Catenary (ft) 4329.73, Horiz. Tension (lbs) 5169.7 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 39.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 38.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 403-1	(ft-in) 3-8	(ft-in) 4-0	(ft-in) 4-4	(ft-in) 4-8	(ft-in) 5-1	(ft-in) 5-6	(ft-in) 5-11	(ft-in) 6-4	62	(ft-in) 0-6

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 403-1	Sec. 5.75	Sec. 5.98	Sec. 6.22	Sec. 6.48	Sec. 6.74	Sec. 7.00	Sec. 7.26	Sec. 7.51	62	(ft-in) 0-6

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs) 6554	(lbs) 6061	(lbs) 5598	(lbs) 5165	(lbs) 4780	(lbs) 4429	(lbs) 4121	(lbs) 3847

Stringing Chart Report

Section #70 from structure #63 to structure #64, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 171.429

Sagging data: Catenary (ft) 2916.42, Horiz. Tension (lbs) 3482.21 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 20.9 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 20.9 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F	Number	(ft-in)
174-1	0-10	1-0	1-2	1-4	1-6	1-9	2-0	2-3	63	-30-10

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
174-1	2.79	2.97	3.19	3.44	3.71	3.98	4.25	4.52	63	-30-10

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
5284	4647	4039	3482	2992	2589	2270	2016

Stringing Chart Report

Section #71 from structure #64 to structure #99, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac - 6100.wir', Ruling span (ft) 242.701

Sagging data: Catenary (ft) 2664.49, Horiz. Tension (lbs) 3181.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 22.7 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 23.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
174-4	1-0	1-2	1-3	1-5	1-7	1-9	1-11	2-1	64	0-2
231-11	1-9	2-0	2-3	2-6	2-10	3-1	3-4	3-7	65	-4-3
144-3	0-8	0-9	0-10	1-0	1-1	1-2	1-4	1-5	66	-1-2
171-3	1-0	1-1	1-3	1-5	1-6	1-8	1-10	2-0	67	-1-3
175-5	1-0	1-2	1-4	1-5	1-7	1-9	1-11	2-1	68	0-4
231-9	1-9	2-0	2-3	2-6	2-10	3-1	3-4	3-7	69	-2-3
218-2	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-2	70	-0-8
222-8	1-8	1-10	2-1	2-4	2-7	2-10	3-1	3-4	71	0-3
281-9	2-8	3-0	3-4	3-9	4-2	4-7	4-11	5-4	72	10-0
279-11	2-7	2-11	3-4	3-8	4-1	4-6	4-11	5-3	73	-0-2
283-11	2-8	3-0	3-5	3-9	4-2	4-7	5-0	5-5	74	-4-1
284-2	2-8	3-0	3-5	3-9	4-2	4-7	5-0	5-5	75	4-9
294-3	2-11	3-3	3-8	4-1	4-6	4-11	5-5	5-10	76	-0-11
275-0	2-6	2-10	3-2	3-7	3-11	4-4	4-9	5-1	77	0-9
271-7	2-5	2-9	3-1	3-6	3-10	4-3	4-7	4-11	78	0-0
264-8	2-4	2-7	2-11	3-3	3-8	4-0	4-4	4-8	79	-0-4
209-0	1-5	1-8	1-10	2-1	2-3	2-6	2-9	2-11	80	-0-5
195-3	1-3	1-5	1-7	1-9	2-0	2-2	2-4	2-7	81	0-2
162-7	0-11	1-0	1-1	1-3	1-5	1-6	1-8	1-9	82	4-10
285-8	2-9	3-1	3-5	3-10	4-3	4-8	5-1	5-6	83	-0-2
207-3	1-5	1-7	1-10	2-0	2-3	2-5	2-8	2-11	84	-3-7
268-11	2-5	2-9	3-0	3-5	3-9	4-2	4-6	4-10	85	-6-5
196-9	1-3	1-5	1-8	1-10	2-0	2-3	2-5	2-7	86	-0-2
203-11	1-5	1-7	1-9	1-11	2-2	2-5	2-7	2-10	87	-4-10
191-8	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-6	88	0-4
191-8	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-6	89	-0-2
266-11	2-4	2-8	3-0	3-4	3-9	4-1	4-5	4-9	90	4-10
254-9	2-2	2-5	2-9	3-1	3-5	3-9	4-1	4-4	91	-6-1
241-4	1-11	2-2	2-5	2-9	3-0	3-4	3-8	3-11	92	0-6
264-5	2-4	2-7	2-11	3-3	3-8	4-0	4-4	4-8	93	5-0
261-4	2-3	2-7	2-10	3-2	3-7	3-11	4-3	4-7	94	-5-11
164-11	0-11	1-0	1-2	1-3	1-5	1-7	1-8	1-10	95	0-7
224-1	1-8	1-11	2-1	2-4	2-7	2-10	3-2	3-4	96	-0-4

257-4	2-2	2-6	2-9	3-1	3-5	3-9	4-2	4-5	97	4-8
252-2	2-1	2-5	2-8	3-0	3-4	3-8	4-0	4-3	98	7-2

Span Length (ft-in)	3								Left Struct Number	Span Vertical Projection (ft-in)
	Wave Time 30 F Sec.	Wave Time 40 F Sec.	Wave Time 50 F Sec.	Wave Time 60 F Sec.	Wave Time 70 F Sec.	Wave Time 80 F Sec.	Wave Time 90 F Sec.	Wave Time 100 F Sec.		
174-4	3.01	3.19	3.38	3.57	3.76	3.94	4.11	4.27	64	0-2
231-11	4.00	4.24	4.50	4.75	5.01	5.25	5.47	5.69	65	-4-3
144-3	2.49	2.64	2.80	2.95	3.11	3.26	3.40	3.54	66	-1-2
171-3	2.95	3.13	3.32	3.51	3.70	3.87	4.04	4.20	67	-1-3
175-5	3.03	3.21	3.40	3.59	3.79	3.97	4.14	4.30	68	0-4
231-9	4.00	4.24	4.49	4.75	5.00	5.24	5.47	5.68	69	-2-3
218-2	3.76	3.99	4.23	4.47	4.71	4.93	5.15	5.35	70	-0-8
222-8	3.84	4.07	4.32	4.56	4.81	5.04	5.25	5.46	71	0-3
281-9	4.86	5.16	5.46	5.77	6.08	6.37	6.65	6.91	72	10-0
279-11	4.83	5.12	5.43	5.73	6.04	6.33	6.61	6.86	73	-0-2
283-11	4.90	5.20	5.51	5.82	6.13	6.42	6.70	6.96	74	-4-1
284-2	4.90	5.20	5.51	5.82	6.13	6.43	6.71	6.97	75	4-9
294-3	5.08	5.38	5.71	6.03	6.35	6.66	6.94	7.21	76	-0-11
275-0	4.74	5.03	5.33	5.63	5.94	6.22	6.49	6.74	77	0-9
271-7	4.69	4.97	5.27	5.56	5.86	6.14	6.41	6.66	78	0-0
264-8	4.57	4.84	5.13	5.42	5.71	5.99	6.25	6.49	79	-0-4
209-0	3.61	3.83	4.05	4.28	4.51	4.73	4.93	5.12	80	-0-5
195-3	3.37	3.57	3.79	4.00	4.21	4.42	4.61	4.79	81	0-2
162-7	2.81	2.98	3.15	3.33	3.51	3.68	3.84	3.99	82	4-10
285-8	4.93	5.23	5.54	5.85	6.17	6.46	6.74	7.00	83	-0-2
207-3	3.58	3.79	4.02	4.25	4.47	4.69	4.89	5.08	84	-3-7
268-11	4.64	4.92	5.22	5.51	5.81	6.08	6.35	6.59	85	-6-5
196-9	3.39	3.60	3.81	4.03	4.25	4.45	4.64	4.82	86	-0-2
203-11	3.52	3.73	3.96	4.18	4.40	4.61	4.81	5.00	87	-4-10
191-8	3.31	3.51	3.72	3.93	4.14	4.34	4.52	4.70	88	0-4
191-8	3.31	3.51	3.72	3.93	4.14	4.34	4.52	4.70	89	-0-2
266-11	4.61	4.89	5.18	5.47	5.76	6.04	6.30	6.54	90	4-10
254-9	4.40	4.66	4.94	5.22	5.50	5.76	6.01	6.25	91	-6-1
241-4	4.16	4.42	4.68	4.94	5.21	5.46	5.69	5.92	92	0-6
264-5	4.56	4.84	5.13	5.42	5.71	5.98	6.24	6.48	93	5-0
261-4	4.51	4.78	5.07	5.35	5.64	5.91	6.17	6.41	94	-5-11
164-11	2.85	3.02	3.20	3.38	3.56	3.73	3.89	4.04	95	0-7
224-1	3.87	4.10	4.34	4.59	4.84	5.07	5.29	5.49	96	-0-4
257-4	4.44	4.71	4.99	5.27	5.56	5.82	6.07	6.31	97	4-8
252-2	4.35	4.62	4.89	5.17	5.44	5.70	5.95	6.18	98	7-2

Horiz Tension 30 F (lbs)	Horiz Tension 40 F (lbs)	Horiz Tension 50 F (lbs)	Horiz Tension 60 F (lbs)	Horiz Tension 70 F (lbs)	Horiz Tension 80 F (lbs)	Horiz Tension 90 F (lbs)	Horiz Tension 100 F (lbs)
4484	3987	3551	3182	2866	2610	2398	2222

Stringing Chart Report

Section #72 from structure #99 to structure #132, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac - 6100.wir', Ruling span (ft) 234.517

Sagging data: Catenary (ft) 2648.07, Horiz. Tension (lbs) 3161.8 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 22.3 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 23.4 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
264-8	2-4	2-7	2-11	3-4	3-8	4-1	4-5	4-10	99	-2-10
110-7	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	100	0-1
109-6	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	101	1-5
218-6	1-7	1-9	2-0	2-3	2-6	2-9	3-0	3-3	102	-5-2
268-5	2-5	2-8	3-0	3-5	3-9	4-2	4-7	4-11	103	-5-0
132-5	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	104	-0-10
124-3	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	105	0-9
155-6	0-10	0-11	1-0	1-2	1-3	1-5	1-6	1-8	106	0-1
124-0	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	107	0-1
239-4	1-11	2-2	2-5	2-8	3-0	3-4	3-7	3-11	108	-0-1
177-11	1-1	1-2	1-4	1-6	1-8	1-10	2-0	2-2	109	-0-1
171-8	1-0	1-1	1-3	1-5	1-7	1-8	1-10	2-0	110	5-3
177-8	1-1	1-2	1-4	1-6	1-8	1-10	2-0	2-2	111	7-3
209-11	1-6	1-8	1-10	2-1	2-4	2-7	2-9	3-0	112	-1-3
266-6	2-4	2-8	3-0	3-4	3-9	4-1	4-6	4-10	113	6-2
304-1	3-1	3-5	3-11	4-4	4-10	5-4	5-10	6-4	114	1-0
238-8	1-11	2-2	2-5	2-8	3-0	3-4	3-7	3-11	115	-5-3
206-9	1-5	1-7	1-10	2-0	2-3	2-6	2-8	2-11	116	-4-11
188-7	1-2	1-4	1-6	1-8	1-10	2-1	2-3	2-5	117	0-5
267-8	2-5	2-8	3-0	3-5	3-9	4-2	4-6	4-11	118	9-7
224-8	1-8	1-11	2-2	2-5	2-8	2-11	3-2	3-5	119	-5-1
275-6	2-6	2-10	3-2	3-7	4-0	4-5	4-10	5-2	120	3-9
290-7	2-10	3-2	3-7	4-0	4-5	4-11	5-4	5-9	121	-4-0
239-11	1-11	2-2	2-5	2-9	3-0	3-4	3-8	3-11	122	-2-9
242-7	1-11	2-2	2-6	2-9	3-1	3-5	3-9	4-0	123	1-2
226-1	1-8	1-11	2-2	2-5	2-8	3-0	3-3	3-6	124	2-9
251-9	2-1	2-4	2-8	3-0	3-4	3-8	4-0	4-4	125	-0-3
247-3	2-0	2-3	2-7	2-11	3-3	3-6	3-10	4-2	126	0-8
277-9	2-7	2-11	3-3	3-8	4-1	4-6	4-11	5-3	127	-1-2
304-5	3-1	3-6	3-11	4-5	4-10	5-4	5-10	6-4	128	1-3
185-3	1-2	1-3	1-5	1-7	1-10	2-0	2-2	2-4	129	-5-0
176-2	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-1	130	-3-0
139-11	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	131	-6-2

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
(ft-in)	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F	100 F		(ft-in)
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		
264-8	4.56	4.84	5.14	5.44	5.74	6.03	6.30	6.55	99		-2-10
110-7	1.90	2.02	2.15	2.27	2.40	2.52	2.63	2.74	100		0-1
109-6	1.88	2.00	2.13	2.25	2.37	2.49	2.60	2.71	101		1-5
218-6	3.76	4.00	4.24	4.49	4.74	4.97	5.20	5.41	102		-5-2
268-5	4.62	4.91	5.21	5.52	5.82	6.11	6.39	6.64	103		-5-0
132-5	2.28	2.42	2.57	2.72	2.87	3.01	3.15	3.28	104		-0-10
124-3	2.14	2.27	2.41	2.55	2.69	2.83	2.96	3.07	105		0-9
155-6	2.68	2.84	3.02	3.20	3.37	3.54	3.70	3.85	106		0-1
124-0	2.13	2.27	2.41	2.55	2.69	2.82	2.95	3.07	107		0-1
239-4	4.12	4.38	4.65	4.92	5.19	5.45	5.69	5.92	108		-0-1
177-11	3.06	3.25	3.45	3.66	3.86	4.05	4.23	4.40	109		-0-1
171-8	2.96	3.14	3.33	3.53	3.72	3.91	4.08	4.25	110		5-3
177-8	3.06	3.25	3.45	3.65	3.85	4.04	4.23	4.40	111		7-3
209-11	3.61	3.84	4.08	4.32	4.55	4.78	4.99	5.19	112		-1-3
266-6	4.59	4.87	5.17	5.48	5.78	6.07	6.34	6.60	113		6-2
304-1	5.24	5.56	5.90	6.25	6.59	6.92	7.23	7.53	114		1-0
238-8	4.11	4.37	4.64	4.91	5.18	5.43	5.68	5.91	115		-5-3
206-9	3.56	3.78	4.02	4.25	4.48	4.71	4.92	5.12	116		-4-11
188-7	3.25	3.45	3.66	3.88	4.09	4.29	4.49	4.67	117		0-5
267-8	4.61	4.90	5.20	5.51	5.80	6.09	6.37	6.63	118		9-7
224-8	3.87	4.11	4.36	4.62	4.87	5.12	5.35	5.56	119		-5-1
275-6	4.74	5.04	5.35	5.67	5.97	6.27	6.55	6.82	120		3-9
290-7	5.00	5.31	5.64	5.98	6.30	6.61	6.91	7.19	121		-4-0
239-11	4.13	4.39	4.66	4.93	5.20	5.46	5.71	5.94	122		-2-9
242-7	4.18	4.44	4.71	4.99	5.26	5.52	5.77	6.00	123		1-2
226-1	3.89	4.14	4.39	4.65	4.90	5.15	5.38	5.60	124		2-9
251-9	4.34	4.60	4.89	5.18	5.46	5.73	5.99	6.23	125		-0-3
247-3	4.26	4.52	4.80	5.08	5.36	5.63	5.88	6.12	126		0-8
277-9	4.78	5.08	5.39	5.71	6.02	6.32	6.61	6.87	127		-1-2
304-5	5.24	5.57	5.91	6.26	6.60	6.93	7.24	7.54	128		1-3
185-3	3.19	3.39	3.60	3.81	4.02	4.22	4.41	4.59	129		-5-0
176-2	3.03	3.22	3.42	3.62	3.82	4.01	4.19	4.36	130		-3-0
139-11	2.41	2.56	2.72	2.88	3.03	3.19	3.33	3.46	131		-6-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
4503	3991	3541	3157	2841	2577	2359	2181

Stringing Chart Report

Section #73 from structure #132 to structure #151, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac - 6100.wir', Ruling span (ft) 226.552

Sagging data: Catenary (ft) 2635.68, Horiz. Tension (lbs) 3147 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 22.0 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 22.7 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Span Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
164-3	0-11	1-0	1-2	1-3	1-5	1-7	1-9	1-11	132	4-9
254-5	2-2	2-5	2-9	3-1	3-5	3-10	4-2	4-6	133	5-6
254-5	2-2	2-5	2-9	3-1	3-5	3-10	4-2	4-6	134	-2-6
254-7	2-2	2-5	2-9	3-1	3-5	3-10	4-2	4-6	135	-0-4
214-7	1-6	1-9	1-11	2-2	2-5	2-8	3-0	3-3	136	-1-9
271-6	2-5	2-9	3-1	3-6	3-11	4-4	4-9	5-2	137	3-4
259-11	2-3	2-6	2-10	3-3	3-7	4-0	4-4	4-9	138	-2-5
127-1	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-2	139	-1-1
162-9	0-10	1-0	1-1	1-3	1-5	1-7	1-8	1-10	140	0-9
233-6	1-10	2-0	2-4	2-7	2-11	3-2	3-6	3-10	141	-2-2
196-3	1-3	1-5	1-7	1-10	2-0	2-3	2-6	2-8	142	0-2
262-3	2-3	2-7	2-11	3-3	3-8	4-0	4-5	4-10	143	3-6
227-2	1-8	1-11	2-2	2-5	2-9	3-0	3-4	3-7	144	-2-9
227-9	1-9	1-11	2-2	2-6	2-9	3-1	3-4	3-7	145	-4-10
139-5	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	146	-1-3
194-7	1-3	1-5	1-7	1-10	2-0	2-3	2-5	2-8	147	-2-2
139-5	0-8	0-9	0-10	0-11	1-0	1-2	1-3	1-4	148	-0-6
271-9	2-5	2-9	3-1	3-6	3-11	4-4	4-9	5-2	149	4-4
129-0	0-7	0-7	0-8	0-9	0-11	1-0	1-1	1-2	150	-0-2

Span	3	3	3	3	3	3	3	3	3	Left	Span
Length	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Struct	Vertical
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Number	Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
164-3	2.82	3.00	3.19	3.39	3.58	3.76	3.94	4.10	132		4-9
254-5	4.37	4.65	4.94	5.24	5.54	5.83	6.10	6.35	133		5-6
254-5	4.37	4.65	4.94	5.25	5.54	5.83	6.10	6.35	134		-2-6
254-7	4.37	4.65	4.95	5.25	5.54	5.83	6.10	6.36	135		-0-4
214-7	3.69	3.92	4.17	4.42	4.67	4.92	5.14	5.36	136		-1-9
271-6	4.67	4.96	5.28	5.60	5.91	6.22	6.51	6.78	137		3-4
259-11	4.47	4.75	5.05	5.36	5.66	5.95	6.23	6.49	138		-2-5
127-1	2.18	2.32	2.47	2.62	2.77	2.91	3.05	3.17	139		-1-1
162-9	2.80	2.97	3.16	3.35	3.54	3.73	3.90	4.06	140		0-9
233-6	4.01	4.27	4.54	4.81	5.08	5.35	5.60	5.83	141		-2-2
196-3	3.37	3.58	3.81	4.04	4.27	4.49	4.70	4.90	142		0-2
262-3	4.51	4.79	5.10	5.41	5.71	6.01	6.29	6.55	143		3-6
227-2	3.90	4.15	4.41	4.68	4.95	5.20	5.45	5.67	144		-2-9
227-9	3.91	4.16	4.42	4.69	4.96	5.22	5.46	5.69	145		-4-10
139-5	2.39	2.55	2.71	2.87	3.03	3.19	3.34	3.48	146		-1-3
194-7	3.34	3.55	3.78	4.01	4.24	4.46	4.66	4.86	147		-2-2
139-5	2.40	2.55	2.71	2.87	3.04	3.19	3.34	3.48	148		-0-6
271-9	4.67	4.96	5.28	5.60	5.92	6.22	6.51	6.79	149		4-4
129-0	2.22	2.36	2.51	2.66	2.81	2.95	3.09	3.22	150		-0-2

Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
4522	4001	3537	3142	2816	2545	2324	2142

Stringing Chart Report

Section #74 from structure #151 to structure #153, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 140.417

Sagging data: Catenary (ft) 2665.49, Horiz. Tension (lbs) 3182.6 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 17.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 18.8 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
150-2	0-8	0-9	0-11	1-1	1-3	1-6	1-9	2-0	151		3-2
128-1	0-6	0-7	0-8	0-9	0-11	1-1	1-3	1-5	152		2-4

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
150-2	2.43	2.61	2.83	3.08	3.36	3.65	3.94	4.20	151		3-2
128-1	2.08	2.23	2.41	2.63	2.86	3.11	3.36	3.58	152		2-4

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
5085	4414	3770	3178	2671	2262	1945	1708

Stringing Chart Report

Section #75 from structure #153 to structure #154, start set #15 '', end set #5 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 294.258

Sagging data: Catenary (ft) 3810.8, Horiz. Tension (lbs) 4550.1 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 31.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 30.1 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 294-5	(ft-in) 2-1	(ft-in) 2-4	(ft-in) 2-7	(ft-in) 2-10	(ft-in) 3-2	(ft-in) 3-6	(ft-in) 3-10	(ft-in) 4-2	153	(ft-in) 8-9

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in) 294-5	Sec. 4.35	Sec. 4.56	Sec. 4.80	Sec. 5.04	Sec. 5.31	Sec. 5.57	Sec. 5.84	Sec. 6.09	153	(ft-in) 8-9

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs) 6116	(lbs) 5556	(lbs) 5031	(lbs) 4550	(lbs) 4111	(lbs) 3731	(lbs) 3399	(lbs) 3121

Stringing Chart Report

Section #76 from structure #154 to structure #Existing -Sugg STR 30, start set #15 '', end set #5 ''
Cable 'C:\projects\GUC\PLS-CADD\WIR\narcissus_aac.wir', Ruling span (ft) 228.415

Sagging data: Catenary (ft) 3392.88, Horiz. Tension (lbs) 4051.1 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 26.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 25.1 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
300-3	2-4	2-7	2-11	3-4	3-9	4-3	4-9	5-3		154 -10-4
181-2	0-10	0-11	1-1	1-3	1-4	1-6	1-9	1-11		155 0-4
173-8	0-9	0-11	1-0	1-1	1-3	1-5	1-7	1-9		156 -4-7
255-6	1-8	1-11	2-2	2-5	2-9	3-1	3-5	3-9		157 -2-2
237-8	1-6	1-8	1-10	2-1	2-4	2-8	3-0	3-3		158 -0-2
272-1	1-11	2-2	2-5	2-9	3-1	3-6	3-11	4-4		159 -5-9
209-2	1-2	1-3	1-5	1-7	1-10	2-1	2-4	2-6		160 0-9
181-4	0-10	0-11	1-1	1-3	1-4	1-7	1-9	1-11		161 -0-10
127-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	0-11		162 -0-1
145-1	0-7	0-7	0-8	0-9	0-11	1-0	1-1	1-3		163 1-5

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
300-3	4.58	4.84	5.13	5.45	5.80	6.15	6.50	6.84		154 -10-4
181-2	2.76	2.92	3.10	3.29	3.50	3.71	3.92	4.12		155 0-4
173-8	2.65	2.80	2.97	3.15	3.35	3.56	3.76	3.95		156 -4-7
255-6	3.90	4.12	4.37	4.64	4.93	5.23	5.53	5.82		157 -2-2
237-8	3.62	3.83	4.06	4.32	4.59	4.87	5.15	5.41		158 -0-2
272-1	4.15	4.38	4.65	4.94	5.25	5.57	5.89	6.20		159 -5-9
209-2	3.19	3.37	3.58	3.80	4.04	4.28	4.53	4.76		160 0-9
181-4	2.77	2.92	3.10	3.29	3.50	3.71	3.93	4.13		161 -0-10
127-5	1.94	2.05	2.18	2.31	2.46	2.61	2.76	2.90		162 -0-1
145-1	2.21	2.34	2.48	2.64	2.80	2.97	3.14	3.30		163 1-5

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
5739	5142	4571	4046	3583	3184	2849	2575

Stringing Chart Report

Section #50 from structure #62 to structure #63, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\raven_acsr_aw.wir', Ruling span (ft) 402.091

Sagging data: Catenary (ft) 5422.58, Horiz. Tension (lbs) 749.401 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 26.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 137.8 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag 30 F	Sag 40 F	Sag 50 F	Sag 60 F	Sag 70 F	Sag 80 F	Sag 90 F	Sag 100 F	Number	(ft-in)
402-1	3-0	3-3	3-6	3-9	4-0	4-4	4-8	5-0	62	3-6

Span Length	Wave Time 30 F	Wave Time 40 F	Wave Time 50 F	Wave Time 60 F	Wave Time 70 F	Wave Time 80 F	Wave Time 90 F	Wave Time 100 F	Left Struct	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Number	(ft-in)
402-1	5.17	5.36	5.56	5.77	6.00	6.23	6.47	6.70	62	3-6

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
934	869	807	750	694	643	598	556

Stringing Chart Report

Section #51 from structure #63 to structure #64, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\raven_acsr_aw.wir', Ruling span (ft) 170.472

Sagging data: Catenary (ft) 5939.94, Horiz. Tension (lbs) 820.9 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 24.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 54.0 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct Number	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag		
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
173-1	0-6	0-6	0-7	0-8	0-9	0-10	0-11	1-0		63	-30-4

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
173-1	2.11	2.19	2.28	2.39	2.52	2.67	2.83	3.03		63	-30-4

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1056	979	900	820	741	661	585	512

Stringing Chart Report

Section #52 from structure #64 to structure #99, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\raven_acsr_aw.wir', Ruling span (ft) 242.694

Sagging data: Catenary (ft) 6276.41, Horiz. Tension (lbs) 867.4 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 26.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 78.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
173-11	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	64	8-2
232-3	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-7	65	-2-3
144-3	0-4	0-4	0-5	0-5	0-5	0-6	0-7	0-7	66	-1-2
171-3	0-6	0-6	0-6	0-7	0-8	0-8	0-9	0-10	67	-1-3
175-5	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	68	-2-8
231-9	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	69	0-9
218-2	0-9	0-10	0-10	0-11	1-0	1-2	1-3	1-5	70	-0-8
222-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	1-6	71	0-3
281-9	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-4	72	10-0
279-11	1-3	1-4	1-5	1-7	1-9	1-11	2-1	2-4	73	-0-2
283-11	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-5	74	-7-7
284-2	1-3	1-4	1-6	1-7	1-9	1-11	2-2	2-5	75	6-3
294-3	1-4	1-6	1-7	1-9	1-11	2-1	2-4	2-7	76	-0-5
275-0	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-3	77	0-3
271-7	1-2	1-3	1-4	1-6	1-7	1-9	2-0	2-2	78	2-0
264-8	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1	79	-2-4
209-0	0-8	0-9	0-10	0-10	0-11	1-1	1-2	1-4	80	1-7
195-3	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	81	0-2
162-7	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	82	-0-8
285-8	1-3	1-5	1-6	1-8	1-9	2-0	2-2	2-5	83	-1-8
207-3	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	84	3-5
268-11	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	85	-7-5
196-9	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-2	86	-0-2
203-11	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-3	87	-3-10
191-8	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	88	0-4
191-8	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	89	-0-2
266-11	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-1	90	4-10
254-9	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-11	91	-6-1
241-4	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	92	0-6
264-5	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1	93	5-0
261-4	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	94	-5-11
164-11	0-5	0-6	0-6	0-6	0-7	0-8	0-9	0-10	95	0-7
224-1	0-10	0-10	0-11	1-0	1-1	1-2	1-4	1-6	96	-0-4

257-4	1-1	1-2	1-3	1-4	1-5	1-7	1-9	2-0	97	3-8
251-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-11	98	-1-5

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
173-11	2.07	2.15	2.23	2.32	2.43	2.55	2.69	2.84	64	8-2
232-3	2.76	2.86	2.97	3.10	3.24	3.40	3.59	3.79	65	-2-3
144-3	1.72	1.78	1.85	1.93	2.02	2.11	2.23	2.35	66	-1-2
171-3	2.04	2.11	2.19	2.29	2.39	2.51	2.64	2.79	67	-1-3
175-5	2.09	2.16	2.25	2.34	2.45	2.57	2.71	2.86	68	-2-8
231-9	2.76	2.86	2.97	3.09	3.24	3.40	3.58	3.78	69	0-9
218-2	2.59	2.69	2.79	2.91	3.05	3.20	3.37	3.56	70	-0-8
222-8	2.65	2.74	2.85	2.97	3.11	3.26	3.44	3.63	71	0-3
281-9	3.35	3.47	3.61	3.76	3.94	4.13	4.35	4.59	72	10-0
279-11	3.33	3.45	3.59	3.74	3.91	4.10	4.32	4.56	73	-0-2
283-11	3.38	3.50	3.64	3.79	3.97	4.16	4.38	4.63	74	-7-7
284-2	3.38	3.50	3.64	3.79	3.97	4.17	4.39	4.63	75	6-3
294-3	3.50	3.63	3.77	3.93	4.11	4.31	4.54	4.80	76	-0-5
275-0	3.27	3.39	3.52	3.67	3.84	4.03	4.25	4.48	77	0-3
271-7	3.23	3.35	3.48	3.62	3.80	3.98	4.19	4.43	78	2-0
264-8	3.15	3.26	3.39	3.53	3.70	3.88	4.09	4.32	79	-2-4
209-0	2.49	2.58	2.68	2.79	2.92	3.06	3.23	3.41	80	1-7
195-3	2.32	2.41	2.50	2.61	2.73	2.86	3.01	3.18	81	0-2
162-7	1.93	2.00	2.08	2.17	2.27	2.38	2.51	2.65	82	-0-8
285-8	3.40	3.52	3.66	3.81	3.99	4.19	4.41	4.66	83	-1-8
207-3	2.46	2.55	2.65	2.77	2.90	3.04	3.20	3.38	84	3-5
268-11	3.20	3.32	3.45	3.59	3.76	3.94	4.15	4.39	85	-7-5
196-9	2.34	2.42	2.52	2.63	2.75	2.88	3.04	3.21	86	-0-2
203-11	2.43	2.51	2.61	2.72	2.85	2.99	3.15	3.33	87	-3-10
191-8	2.28	2.36	2.46	2.56	2.68	2.81	2.96	3.13	88	0-4
191-8	2.28	2.36	2.46	2.56	2.68	2.81	2.96	3.13	89	-0-2
266-11	3.17	3.29	3.42	3.56	3.73	3.91	4.12	4.35	90	4-10
254-9	3.03	3.14	3.26	3.40	3.56	3.73	3.93	4.15	91	-6-1
241-4	2.87	2.97	3.09	3.22	3.37	3.54	3.73	3.93	92	0-6
264-5	3.14	3.26	3.39	3.53	3.69	3.88	4.08	4.31	93	5-0
261-4	3.11	3.22	3.35	3.49	3.65	3.83	4.04	4.26	94	-5-11
164-11	1.96	2.03	2.11	2.20	2.30	2.42	2.55	2.69	95	0-7
224-1	2.66	2.76	2.87	2.99	3.13	3.28	3.46	3.65	96	-0-4
257-4	3.06	3.17	3.30	3.44	3.60	3.77	3.97	4.20	97	3-8
251-11	3.00	3.11	3.23	3.36	3.52	3.69	3.89	4.11	98	-1-5

Horiz Tension 30 F	Horiz Tension 40 F	Horiz Tension 50 F	Horiz Tension 60 F	Horiz Tension 70 F	Horiz Tension 80 F	Horiz Tension 90 F	Horiz Tension 100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1093	1017	942	867	791	719	648	581

Stringing Chart Report

Section #53 from structure #99 to structure #132, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\raven_acsr_aw.wir', Ruling span (ft) 234.58

Sagging data: Catenary (ft) 6257.6, Horiz. Tension (lbs) 864.8 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 26.2 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 75.8 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Span Struct Number	Span Vertical Projection
264-7	1-1	1-2	1-3	1-5	1-6	1-8	1-11	2-1	99	2-9
111-1	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	100	3-1
110-0	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	101	1-5
218-6	0-9	0-10	0-11	0-11	1-1	1-2	1-3	1-5	102	-3-2
268-5	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	103	-5-0
132-5	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	104	-0-10
124-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	105	0-9
155-6	0-5	0-5	0-5	0-6	0-6	0-7	0-8	0-9	106	0-1
124-0	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-6	107	0-1
239-4	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-9	108	-0-1
177-11	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	109	-0-1
171-8	0-6	0-6	0-6	0-7	0-8	0-9	0-10	0-11	110	5-3
177-8	0-6	0-6	0-7	0-8	0-8	0-9	0-10	0-11	111	-1-9
209-11	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4	112	-1-3
266-8	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	113	6-2
304-7	1-6	1-7	1-8	1-10	2-0	2-3	2-6	2-9	114	1-0
239-0	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-9	115	-5-3
206-10	0-8	0-9	0-9	0-10	0-11	1-0	1-2	1-3	116	-4-11
188-7	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	117	0-5
267-8	1-2	1-3	1-4	1-5	1-7	1-9	1-11	2-2	118	9-7
224-9	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6	119	-5-1
275-6	1-2	1-3	1-5	1-6	1-8	1-10	2-0	2-3	120	3-9
290-7	1-4	1-5	1-7	1-8	1-10	2-0	2-3	2-6	121	-4-0
239-11	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	122	6-3
242-7	0-11	1-0	1-1	1-2	1-3	1-5	1-7	1-9	123	1-2
226-1	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-6	124	-6-3
251-11	1-0	1-1	1-2	1-3	1-5	1-6	1-8	1-11	125	-0-3
247-5	1-0	1-0	1-1	1-3	1-4	1-6	1-8	1-10	126	0-8
277-11	1-3	1-4	1-5	1-7	1-8	1-10	2-1	2-4	127	-1-2
304-6	1-6	1-7	1-8	1-10	2-0	2-3	2-6	2-9	128	3-3
185-4	0-7	0-7	0-8	0-8	0-9	0-10	0-11	1-0	129	-5-0
176-2	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11	130	-5-0

Span	3	3	3	3	3	3	3	3	3	Left	Span
Length	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Wave	Struct	Vertical
(ft-in)	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		Number	Projection
	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
139-5	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	131		-6-3
264-7	3.15	3.26	3.39	3.54	3.70	3.89	4.10	4.33	99		2-9
111-1	1.32	1.37	1.42	1.48	1.55	1.63	1.72	1.82	100		3-1
110-0	1.31	1.36	1.41	1.47	1.54	1.62	1.71	1.80	101		1-5
218-6	2.60	2.70	2.80	2.92	3.06	3.21	3.39	3.58	102		-3-2
268-5	3.19	3.31	3.44	3.59	3.76	3.95	4.16	4.40	103		-5-0
132-5	1.57	1.63	1.70	1.77	1.85	1.95	2.05	2.17	104		-0-10
124-3	1.48	1.53	1.59	1.66	1.74	1.83	1.93	2.04	105		0-9
155-6	1.85	1.92	1.99	2.08	2.18	2.29	2.41	2.55	106		0-1
124-0	1.48	1.53	1.59	1.66	1.74	1.82	1.92	2.03	107		0-1
239-4	2.85	2.95	3.07	3.20	3.35	3.52	3.71	3.92	108		-0-1
177-11	2.12	2.19	2.28	2.38	2.49	2.62	2.76	2.91	109		-0-1
171-8	2.04	2.12	2.20	2.30	2.40	2.52	2.66	2.81	110		5-3
177-8	2.11	2.19	2.28	2.38	2.49	2.61	2.76	2.91	111		-1-9
209-11	2.50	2.59	2.69	2.81	2.94	3.09	3.25	3.44	112		-1-3
266-8	3.17	3.29	3.42	3.57	3.73	3.92	4.14	4.37	113		6-2
304-7	3.62	3.76	3.90	4.07	4.26	4.48	4.72	4.99	114		1-0
239-0	2.84	2.95	3.06	3.19	3.35	3.51	3.71	3.92	115		-5-3
206-10	2.46	2.55	2.65	2.76	2.89	3.04	3.21	3.39	116		-4-11
188-7	2.24	2.33	2.42	2.52	2.64	2.77	2.92	3.09	117		0-5
267-8	3.19	3.30	3.43	3.58	3.75	3.94	4.15	4.39	118		9-7
224-9	2.67	2.77	2.88	3.00	3.15	3.30	3.48	3.68	119		-5-1
275-6	3.28	3.40	3.53	3.68	3.86	4.05	4.27	4.51	120		3-9
290-7	3.46	3.58	3.72	3.88	4.07	4.27	4.51	4.76	121		-4-0
239-11	2.85	2.96	3.08	3.21	3.36	3.53	3.72	3.93	122		6-3
242-7	2.89	2.99	3.11	3.24	3.40	3.57	3.76	3.97	123		1-2
226-1	2.69	2.79	2.90	3.02	3.16	3.32	3.51	3.70	124		-6-3
251-11	3.00	3.11	3.23	3.37	3.53	3.70	3.91	4.13	125		-0-3
247-5	2.94	3.05	3.17	3.31	3.46	3.64	3.84	4.05	126		0-8
277-11	3.31	3.43	3.56	3.71	3.89	4.08	4.31	4.55	127		-1-2
304-6	3.62	3.76	3.90	4.07	4.26	4.48	4.72	4.99	128		3-3
185-4	2.20	2.29	2.38	2.48	2.59	2.72	2.87	3.04	129		-5-0
176-2	2.10	2.17	2.26	2.36	2.47	2.59	2.73	2.89	130		-5-0
139-5	1.66	1.72	1.79	1.86	1.95	2.05	2.16	2.28	131		-6-3

Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz	Horiz
Tension	Tension	Tension	Tension	Tension	Tension	Tension	Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1092	1016	940	865	789	715	643	576

Stringing Chart Report

Section #54 from structure #132 to structure #151, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\raven_acsr_aw.wir', Ruling span (ft) 226.616

Sagging data: Catenary (ft) 6219.25, Horiz. Tension (lbs) 859.5 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 25.5 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 72.6 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Span Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
163-9	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	132	5-9
254-5	1-0	1-1	1-2	1-4	1-5	1-7	1-9	2-0	133	5-6
254-5	1-0	1-1	1-2	1-4	1-5	1-7	1-9	2-0	134	-2-6
254-7	1-0	1-1	1-2	1-4	1-5	1-7	1-9	2-0	135	-0-4
214-7	0-9	0-9	0-10	0-11	1-0	1-1	1-3	1-5	136	-1-9
271-7	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	137	3-4
260-2	1-1	1-2	1-3	1-4	1-6	1-8	1-10	2-1	138	-2-5
127-11	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	139	-1-1
163-10	0-5	0-5	0-6	0-6	0-7	0-8	0-9	0-10	140	0-9
233-10	0-10	0-11	1-0	1-1	1-2	1-4	1-6	1-8	141	-2-2
196-7	0-7	0-8	0-9	0-9	0-10	0-11	1-1	1-2	142	0-2
262-3	1-1	1-2	1-3	1-5	1-6	1-8	1-10	2-1	143	3-6
227-0	0-10	0-11	0-11	1-0	1-2	1-3	1-5	1-7	144	4-3
227-10	0-10	0-11	1-0	1-1	1-2	1-3	1-5	1-7	145	-2-10
139-6	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	146	-3-3
194-10	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-2	147	-9-2
139-7	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	148	-0-6
271-9	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3	149	4-4
128-4	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6	150	-0-2

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Struct Number	Span Vertical Projection
(ft-in)	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		(ft-in)
163-9	1.95	2.02	2.11	2.20	2.30	2.42	2.55	2.70	132	5-9
254-5	3.03	3.14	3.27	3.41	3.57	3.76	3.97	4.19	133	5-6
254-5	3.03	3.14	3.27	3.41	3.57	3.76	3.97	4.19	134	-2-6
254-7	3.04	3.15	3.27	3.42	3.58	3.76	3.97	4.20	135	-0-4
214-7	2.56	2.65	2.76	2.88	3.01	3.17	3.35	3.54	136	-1-9
271-7	3.24	3.36	3.49	3.64	3.81	4.01	4.23	4.48	137	3-4
260-2	3.10	3.22	3.34	3.49	3.65	3.84	4.06	4.29	138	-2-5
127-11	1.53	1.58	1.64	1.72	1.80	1.89	1.99	2.11	139	-1-1
163-10	1.95	2.02	2.11	2.20	2.30	2.42	2.55	2.70	140	0-9
233-10	2.79	2.89	3.01	3.14	3.28	3.45	3.65	3.85	141	-2-2
196-7	2.34	2.43	2.53	2.64	2.76	2.90	3.06	3.24	142	0-2
262-3	3.13	3.24	3.37	3.52	3.68	3.87	4.09	4.32	143	3-6
227-0	2.71	2.81	2.92	3.05	3.19	3.35	3.54	3.74	144	4-3
227-10	2.72	2.82	2.93	3.06	3.20	3.36	3.55	3.76	145	-2-10
139-6	1.66	1.72	1.79	1.87	1.96	2.06	2.17	2.30	146	-3-3
194-10	2.32	2.41	2.51	2.62	2.74	2.88	3.04	3.21	147	-9-2
139-7	1.66	1.72	1.79	1.87	1.96	2.06	2.18	2.30	148	-0-6
271-9	3.24	3.36	3.49	3.65	3.82	4.01	4.24	4.48	149	4-4
128-4	1.53	1.59	1.65	1.72	1.80	1.89	2.00	2.11	150	-0-2

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1087	1012	935	858	783	708	636	569

Stringing Chart Report

Section #55 from structure #151 to structure #153, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\raven_acsr_aw.wir', Ruling span (ft) 139.787

Sagging data: Catenary (ft) 6007.96, Horiz. Tension (lbs) 830.3 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 24.1 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 44.5 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Mid Span Sag	Left Span Sag	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)			(ft-in)
149-6	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-9	151		4-2
127-8	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-7	152		2-9

Span Length	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	3 Wave Time	Left Span Wave Time	Struct Number	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F			
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.			(ft-in)
149-6	1.80	1.87	1.95	2.04	2.15	2.28	2.43	2.61	151		4-2
127-8	1.53	1.59	1.66	1.74	1.83	1.94	2.07	2.23	152		2-9

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1069	990	911	830	748	666	585	508

Stringing Chart Report

Section #56 from structure #153 to structure #154, start set #12 '', end set #2 ''

Cable 'C:\projects\GUC\PLS-CADD\WIR\raven_acsr_aw.wir', Ruling span (ft) 293.201

Sagging data: Catenary (ft) 6419.68, Horiz. Tension (lbs) 887.2 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 27.6 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 96.9 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Mid Span	Left Struct	Span Vertical Projection
	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Number	
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F		
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
293-4	1-4	1-5	1-7	1-8	1-10	2-0	2-2	2-5	153	8-8

Span Length	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Wave Time	Left Struct	Span Vertical Projection
	30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F	Number	
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
293-4	3.47	3.59	3.72	3.87	4.04	4.22	4.42	4.64	153	8-8

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F	40 F	50 F	60 F	70 F	80 F	90 F	100 F
(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)
1105	1032	959	887	816	745	679	617

Stringing Chart Report

Section #57 from structure #154 to structure #Existing -Sugg STR 30, start set #12 '', end set #2 ''
Cable 'C:\projects\GUC\PLS-CADD\WIR\raven_acsr_aw.wir', Ruling span (ft) 228.213

Sagging data: Catenary (ft) 6228.65, Horiz. Tension (lbs) 860.799 Condition I Temperature (deg F) 60

Weather case for final after creep 60 Deg F, Equivalent to 25.8 (deg F) temperature increase

Weather cases for final after load:

'NESC Medium District Loading (250B)'

'NESC Extreme Wind (250C)'

'NESC Concurrent Ice and Wind (250D)' (controlling case), Equivalent to 73.3 (deg F) temperature increase

'Extreme Ice'

Results below for condition 'Initial RS'

Calculations done using actual span lengths and vertical projections

Span Length	Mid Span Sag 30 F	Mid Span Sag 40 F	Mid Span Sag 50 F	Mid Span Sag 60 F	Mid Span Sag 70 F	Mid Span Sag 80 F	Mid Span Sag 90 F	Mid Span Sag 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)	(ft-in)		(ft-in)
299-6	1-5	1-6	1-8	1-10	2-0	2-2	2-5	2-9		154 -9-3
181-2	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0		155 0-10
173-7	0-6	0-6	0-7	0-7	0-8	0-9	0-10	0-11		156 -4-7
255-5	1-0	1-1	1-2	1-4	1-5	1-7	1-9	2-0		157 6-10
237-8	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-9		158 -0-2
272-1	1-2	1-3	1-4	1-6	1-8	1-10	2-0	2-3		159 -5-9
209-3	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-4		160 0-9
181-4	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0		161 -0-10
127-5	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-6		162 -0-1
144-4	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8		163 -8-1

Span Length	3 Wave Time 30 F	3 Wave Time 40 F	3 Wave Time 50 F	3 Wave Time 60 F	3 Wave Time 70 F	3 Wave Time 80 F	3 Wave Time 90 F	3 Wave Time 100 F	Left Struct Number	Span Vertical Projection
(ft-in)	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.	Sec.		(ft-in)
299-6	3.57	3.70	3.85	4.01	4.20	4.42	4.66	4.93		154 -9-3
181-2	2.16	2.24	2.33	2.43	2.54	2.67	2.82	2.98		155 0-10
173-7	2.07	2.14	2.23	2.33	2.44	2.56	2.70	2.86		156 -4-7
255-5	3.04	3.15	3.28	3.42	3.58	3.77	3.97	4.21		157 6-10
237-8	2.83	2.94	3.05	3.18	3.34	3.51	3.70	3.91		158 -0-2
272-1	3.24	3.36	3.50	3.65	3.82	4.02	4.23	4.48		159 -5-9
209-3	2.49	2.58	2.69	2.80	2.94	3.09	3.25	3.44		160 0-9
181-4	2.16	2.24	2.33	2.43	2.54	2.68	2.82	2.99		161 -0-10
127-5	1.52	1.57	1.64	1.71	1.79	1.88	1.98	2.10		162 -0-1
144-4	1.72	1.78	1.85	1.93	2.03	2.13	2.25	2.38		163 -8-1

Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension	Horiz Tension
30 F (lbs)	40 F (lbs)	50 F (lbs)	60 F (lbs)	70 F (lbs)	80 F (lbs)	90 F (lbs)	100 F (lbs)
1088	1013	937	861	785	710	638	570