

BILL OF REINFORCING STEEL - ONE ABUTMENT - 0°Skew																					
Bridge Length				70'-0		80'-0		90'-0		100'-0		110'-0		120'-0		130'-0		140'-0		150'-0	
Mark	Location	Shape	Length	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight
8r1	Abutment Footing Longitudinal		26'-4	7	492	7	492	7	492	7	492	7	492	7	492	7	492	7	492	7	492
8r2	Abutment Footing Longitudinal		21'-4	7	399	7	399	7	399	7	399	7	399	7	399	7	399	7	399	7	399
5s1	Abutment Footing Hoops		11'-0	39	447	39	447	39	447	39	447	40	459	40	459	40	459	39	447	36	413
6t1	Footing To Slab Bars		5'-0	46	345	46	345	46	345	46	345	46	345	46	345	46	345	46	345	46	345
6t2	Footing To Slab Bars		5'-7	46	386	46	386	46	386	46	386	46	386	46	386	46	386	46	386	46	386
#2	Pile Spiral		38'-6	6	39	6	39	6	39	6	39	7	45	7	45	7	45	8	51	9	58
	Spiral Spacers - L 7/8x7/8x1/8x 0.70		1'-10	18	24	18	24	18	24	18	24	21	27	21	27	21	27	24	31	27	35
Reinforcing steel epoxy coated - total (lbs.)					2132		2132		2132		2132		2153		2153		2153		2151		2128

BILL OF REINFORCING STEEL - ONE ABUTMENT - 15°Skew																					
Bridge Length				70'-0		80'-0		90'-0		100'-0		110'-0		120'-0		130'-0		140'-0		150'-0	
Mark	Location	Shape	Length	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight
8r1	Abutment Footing Longitudinal		27'-2	7	508	7	508	7	508	7	508	7	508	7	508	7	508	7	508	7	508
8r2	Abutment Footing Longitudinal		22'-1	7	413	7	413	7	413	7	413	7	413	7	413	7	413	7	413	7	413
5s1	Abutment Footing Hoops		11'-0	36	413	36	413	36	413	36	413	36	413	36	413	35	402	40	459	40	459
5s2	Abutment Footing Hoops		11'-3	4	47	4	47	4	47	4	47	4	47	4	47	4	47	4	47	4	47
6t1	Footing To Slab Bars		5'-0	46	345	46	345	46	345	46	345	46	345	46	345	46	345	46	345	46	345
6t2	Footing To Slab Bars		5'-7	46	386	46	386	46	386	46	386	46	386	46	386	46	386	46	386	46	386
#2	Pile Spiral		38'-6	7	45	7	45	7	45	7	45	7	45	7	45	8	52	9	58	9	58
	Spiral Spacers - L 7/8x7/8x1/8x 0.70		1'-10	21	28	21	28	21	28	21	28	21	27	21	27	24	31	27	35	27	35
Reinforcing steel epoxy coated - total (lbs.)					2184		2184		2184		2184		2184		2184		2183		2251		2251

BILL OF REINFORCING STEEL - ONE ABUTMENT - 30°Skew																					
Bridge Length				70'-0		80'-0		90'-0		100'-0		110'-0		120'-0		130'-0		140'-0		150'-0	
Mark	Location	Shape	Length	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight
8r1	Abutment Footing Longitudinal		29'-6	7	551	7	551	7	551	7	551	7	551	7	551	7	551	7	551	7	551
8r2	Abutment Footing Longitudinal		24'-5	7	456	7	456	7	456	7	456	7	456	7	456	7	456	7	456	7	456
5s1	Abutment Footing Hoops		11'-0	42	482	42	482	42	482	42	482	42	482	42	482	42	482	40	459	40	459
5s2	Abutment Footing Hoops		11'-11	4	50	4	50	4	50	4	50	4	50	4	50	4	50	4	50	4	50
6t1	Footing To Slab Bars		5'-0	46	345	46	345	46	345	46	345	46	345	46	345	46	345	46	345	46	345
6t2	Footing To Slab Bars		5'-7	46	386	46	386	46	386	46	386	46	386	46	386	46	386	46	386	46	386
#2	Pile Spiral		38'-6	7	45	7	45	7	45	7	45	7	45	7	45	8	52	9	58	9	58
	Spiral Spacers - L 7/8x7/8x1/8x 0.70		1'-10	21	27	21	27	21	27	21	28	21	28	21	27	24	31	27	35	27	35
Reinforcing steel epoxy coated - total (lbs.)					2342		2342		2342		2342		2342		2342		2352		2340		2340

BILL OF REINFORCING STEEL - ONE ABUTMENT - 45°Skew																					
Bridge Length				70'-0		80'-0		90'-0		100'-0		110'-0		120'-0		130'-0		140'-0		150'-0	
Mark	Location	Shape	Length	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight	No.	Weight
8r1	Abutment Footing Longitudinal		34'-8	7	648	7	648	7	648	7	648	7	648	7	648	7	648	7	648	7	648
8r2	Abutment Footing Longitudinal		29'-7	7	553	7	553	7	553	7	553	7	553	7	553	7	553	7	553	7	553
5s1	Abutment Footing Hoops		11'-0	56	642	56	642	56	642	56	642	56	642	56	642	56	642	56	642	54	620
5s2	Abutment Footing Hoops		13'-6	4	56	4	56	4	56	4	56	4	56	4	56	4	56	4	56	4	56
6t1	Footing To Slab Bars		5'-0	46	345	46	345	46	345	46	345	46	345	46	345	46	345	46	345	46	345
6t2	Footing To Slab Bars		5'-7	46	386	46	386	46	386	46	386	46	386	46	386	46	386	46	386	46	386
#2	Pile Spiral		38'-6	9	58	9	58	9	58	9	58	9	58	9	58	9	58	9	58	10	64
	Spiral Spacers - L 7/8x7/8x1/8x 0.70		1'-10	27	35	27	35	27	35	27	35	27	35	27	35	27	35	27	35	30	39
Reinforcing steel epoxy coated - total (lbs.)					2723		2723		2723		2723		2723		2723		2723		2723		2711

Note: The pile spirals and spiral spacers are to be non-coated reinforcing but may be epoxy-coated at the contractor's option and expense.

ESTIMATED QUANTITIES - ONE ABUT. - 0°Skew											
Location		Unit	Quantity								
Bridge Length			70'-0	80'-0	90'-0	100'-0	110'-0	120'-0	130'-0	140'-0	150'-0
Structural Concrete (Bridge)		c.y.	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Reinforcing Steel, Epoxy-Coated		lbs.	2132	2132	2132	2132	2153	2153	2153	2151	2128
Steel Piling HP 10x24		no.	6	6	6	6	7	7	7	8	9
Prebored Holes		ft.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	80	90

ESTIMATED QUANTITIES - ONE ABUT. - 15°Skew											
Location		Unit	Quantity								
Bridge Length			70'-0	80'-0	90'-0	100'-0	110'-0	120'-0	130'-0	140'-0	150'-0
Structural Concrete (Bridge)		c.y.	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
Reinforcing Steel, Epoxy-Coated		lbs.	2184	2184	2184	2184	2184	2184	2183	2251	2251
Steel Piling HP 10x24		no.	7	7	7	7	7	7	8	9	9
Prebored Holes		ft.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	90	90

ESTIMATED QUANTITIES - ONE ABUT. - 30°Skew										
Location	Unit	Quantity								
Bridge Length		70'-0	80'-0	90'-0	100'-0	110'-0	120'-0	130'-0	140'-0	150'-0
Structural Concrete (Bridge)	c.y.	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
Reinforcing Steel, Epoxy-Coated	lbs.	2342	2342	2342	2342	2342	2342	2352	2340	2340
Steel Piling HP 10x24	no.	7	7	7	7	7	7	8	9	9
Prebored Holes	ft.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	90	90