

PREPARED BY : WINZLER & KELLY

CONCEPTUAL REHABILITATION DESIGN - ALTERNATIVE 1 "TRESTLE REHABILITATION"

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
1	CONSTRUCTION AREA SIGNS	4	EA	500.00	2,000.00
2	TEMPORARY EROSION CONTROL FENCE	350	LF	9.00	3,150.00
3	ENVIRONMENTAL PROTECTION - FLOATING BARRIER	600	LF	30.00	18,000.00
4	CLEARING & GRUBBING	1	LS	3,000.00	3,000.00
5	REMOVE/DISPOSE TIMBER DECKING AND TIES	7,450	SF	22.00	163,900.00
6	REMOVE/DISPOSE TIMBER HANDRAILING	350	LF	5.75	2,012.50
7	REMOVE/DISPOSE TIMBER SWAY/SASH BRACES	142	EA	170.00	24,140.00
8	REMOVE/DISPOSE TIMBER BENTS - AREA OF SLOPE FAILURE	8	EA	3,000.00	24,000.00
9	REMOVE/DISPOSE TIMBER FENDER PILES, WALERS AND BLOCKING	500	LF	185.00	92,500.00
10	FURNISH AND INSTALL STEEL PIPE PILES - 16" dia.x 1/2" wall x 60 feet (8 bents)	24	EA	8,400.00	201,600.00
11	COAT STEEL PIPE PILES (high build epoxy coating)	360	LF	25.00	9,000.00
12	NEW TIMBER BENT CAPS	8	EA	1,300.00	10,400.00
13	SOLDIER PILE RETAINING WALL	50	LF	3,000.00	150,000.00
14	FRP PILE JACKET REPAIR	105	EA	4,300.00	451,500.00
15	REPAIR DAMAGED PILE HEADS	55	EA	525.00	28,875.00
16	TIMBER PILE ENCAPSULATION (HDPE wrap)	70	EA	1,200.00	84,000.00
17	REPAIR TIMBER BENT CAPS	15	EA	1,100.00	16,500.00
18	NEW STEEL STRINGERS (MC18 channels)	910	LF	225.00	204,750.00
19	3X10 TIMBER DECKING	7,450	SF	19.75	147,137.50
20	METAL HANDRAILING	940	LF	120.00	112,800.00
21	WATERPROOFING TREATMENT ON NEW TIMBER	1,350	SF	2.00	2,700.00
22	WOOD PRESERVATIVE TREATMENT ON NEW TIMBER DECKING	7,450	SF	2.50	18,625.00
23	MISCELLANEOUS METAL	300	LB	6.00	1,800.00
24	NEW RAILROAD TIES (8' long @ 12" o.c.) RECYCLED PLASTIC	460	LF	105.00	48,300.00
25	REFURBISH AND REINSTALL TRACK RAIL	460	LF	75.00	34,500.00
26	EDUCATIONAL/INTREPRETATIVE SIGNAGE	4	EA	6,200.00	24,800.00
27	ADA / EGRESS IMPROVEMENTS (access bridge, bollards, etc.)	1	LS	100,000.00	100,000.00
28	TRESTLE WALKWAY LIGHTING (Light Poles, Conduit, etc.)	1	LS	43,500.00	43,500.00
29	MOBILIZATION (10%)	10%	1	LS	197,999.00
SUBTOTAL					\$2,221,489.00
DESIGN AND ESTIMATING CONTINGENCY (30%)					\$666,446.70
GENERAL CONDITIONS, BONDS AND INSURANCE (15%)					\$333,223.35
CONTRACTOR OVERHEAD AND PROFIT (8%)					\$257,692.72
TOTAL					\$3,478,851.77
TOTAL ESTIMATED PROBABLE CONSTRUCTION COST					
CALL					\$3,478,852
OPTIONAL	NEW TIMBER FENDER PILES, WALES AND BLOCKING (poly urea coating for piles, spaced at approx. 6'-0" o.c.)	70	EA	3,500.00	245,000.00
SUBTOTAL					\$2,466,489.00
DESIGN AND ESTIMATING CONTINGENCY (30%)					\$739,946.70
GENERAL CONDITIONS, BONDS AND INSURANCE (15%)					\$369,973.35
CONTRACTOR OVERHEAD AND PROFIT (8%)					\$286,112.72
TOTAL					\$3,862,521.77
TOTAL ESTIMATED PROBABLE CONSTRUCTION COST WITH OPTIONAL FENDER PILES					
CALL					\$3,862,522

ITEMISED COST LIST

SIGNIFICANT SAVINGS CAN BE ACHIEVED BY AVOIDING SCREW PILES & OTHER UNNECESSARY, NON-HISTORIC SOLUTIONS THAT REQUIRE THE DISMANTLING OF THE TRESTLE.

→ (\$100,000.) THE TIES DON'T HAVE TO BE REMOVED OR DISPOSED OF.

→ (\$ 24,000.) TIMBER BENTS DO NOT HAVE TO BE REMOVED FOR SCREW PILES.

→ (\$ 201,600.) SCREW STEEL PILES UNNECESSARY FOR LOAD BEARING ON TRESTLE.

→ (\$ 9,000.) NO NEED TO COAT STEEL PILES.

→ (\$ 10,000.) TIMBER REPORT SAYS BENT CAPS OK FOR BEARING LOAD OF HUMAN CROWD

THIS TOTAL ALREADY INCLUDES REPAIR OF ALL THE 180 PILES WHICH IS 36 BENTS X 5 PILES EACH SO ALL THE TRESTLE PILES REPAIRS ALREADY INCLUDED HERE.

→ (\$ 16,500.) ACCORDING TO TIMBER REPORT, BENTCAPS: FINE

→ (\$ 204,750.) ACCORDING TO TIMBER REPORT NEW STEEL STRINGERS UNNECESSARY

NOTE: THE TRESTLE WAS BUILT TO CARRY FREIGHT & LIVE-LOAD TESTED TO HOLD 180 TONS: TEN TIMES WHAT IS NEEDED.

→ (\$ 48,300.) RR TIES DO NOT HAVE TO BE REMOVED

→ (\$ 34,500.) TRACK DOES NOT HAVE TO BE REMOVED

ELIMINATING SCREW PILES REDUCES IMPACT ON & COST OF ALL OTHER PARTS

\$ 132,135.00 10% OF \$1,321,350 NEW ADJUSTED TOTAL

\$1,453,700.00 SUBTOTAL AFTER REMOVING RED ITEMS

\$ 436,110.00 30% ADDITIONAL CONTINGENCY

\$218,055.00 15% BONDS AND INSURANCE

\$116,296.00 8% CONTRACTORS OVERHEAD & PROFIT

\$ 2,224,161 TOTAL WITHOUT FENDER PILES OR SCREW PILES

\$ 2,224,161

245,000.00

\$ 1,698,700.00 SUBTOTAL COST WITH FENDER PILES

\$ 509,610.00 30% CONTINGENCY (SAFTY OVERAGE)

\$ 245,805.00 BONDS AND INSURANCE

\$ 134,960.00 CONTRACTORS PROFIT

\$2,589,075.00 TOTAL COST OF REHABILITATION

USING REDEVELOPMENT ESTIMATES

\$2,589,075 THAT DON'T INCLUDE SCREWPILES OR UNNECESSARY STRINGERS.