

75 York Street, Portland, Maine 04101 207.879.1838 ■ beckerstructural.com

Project: W.O.

Calculated By:

Checked By:

River Point Bridge

2477 BTW Sheet: 3/7/2011

Date:

RIVER POINT BRIDGE FALMOUTH, ME OPINION OF PROBABLE COST

# OPTION 1 - COMPLETE REMOVAL OF EXISTING STRUCTURE AND ABANDON THE CROSSING

### CONSTRUCTION

21101110011011								
Removal of existing wood structure	1	U	х	\$	12,000.00	11	\$	12,000.00
Disposal of treated wood structure	1	U	Χ_	\$	4,000.00	III	\$	4,000.00
Removal of existing granite piers	1	U	X	\$	9,000.00		\$	9,000.00
Temporary RxR crossing	1	U	Х	\$	4,000.00	11	\$	4,000.00
River Point access	1	U	Χ	\$	3,000.00		\$	3,000.00
Erosion control	1	U	Х	\$	3,000.00	II	\$	3,000.00
Clear and grubbing	180	SY	Х	\$	10.00	11	\$	1,800.00
Riprap	55	CY	X	\$	30.00		\$	1,650.00
Loam and seed	35	CY	Х	\$	50.00	II	\$	1,750.00
Saw cut pavement	30	LF	Х	\$	6.00	11	\$	180.00
Railing	30	LF	Х	\$	50.00		\$	1,500.00
<sup>1</sup> CMP De-energize transmission lines	4	Days	х	\$	500.00	II	\$	2,000.00
PanAm RxR inspector / flagman	8	Days	Х	\$	850.00	II	\$	6,800.00
							=1 000 00	

SUBTOTAL = \$ 51,000.00

10% GENERAL CONDITIONS = \$ 5,100.00

10% MOBILIZATION = \$ 5,100.00

10% CONTINGENCY = \$ 5,100.00

### CONSTRUCTION TOTAL = \$ 67,000.00

### **ENGINEERING**

Preparation of bid documents	1	U	х	\$ 5,000.00	11	\$	5,000.00
Bidding	1	U	х	\$ 1,800.00	_ =	\$	1,800.00
Construction administration	1	Ü	Х	\$ 1,800.00	=	\$	1,800.00
PanAm review of plans and specifications	1	U	х	\$ 3,000.00	=	\$	3,000.00
				 		_	10 000

SUBTOTAL = \$12,000.00

TOTAL PROJECT COST = \$ 79,000.00

#### Notes:

<sup>1.</sup> Approximate cost given by CMP to temporarily de-energize the transmission lines for 1 day. Assume lines to be de-energized in the morning and energized in the evening.



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RIVER POINT BRIDGE FALMOUTH, ME OPINION OF PROBABLE COST

## OPTION 2 - REMOVAL OF EXISTING STRUCTURE AND CONSTRUCT PREFABRICATED STEEL TRUSS

### CONSTRUCTION

1		Х	\$	12,000.00	=	\$	12,000.00
1	-						
	U	X	\$	4,000.00	н	65	4,000.00
1	C	X	\$	9,000.00		\$	9,000.00
1	U	Х	\$	4,000.00	=	\$	4,000.00
1	U	Х	\$	3,000.00	=	63	3,000.00
1	Ü	X	\$	3,000.00	=	\$	3,000.00
250	SY	Х	\$	10.00	=	\$	2,500.00
55	CY	Х	\$	30.00	=	<b>\$</b> \$	1,650.00
125	CY	Х	\$	25.00	=	\$	3,125.00
250	CY	Х	\$	20.00	=	\$	5,000.00
50	CY	Х	\$	500.00	=	65	25,000.00
1	U	Х	\$	40,000.00	=	\$	40,000.00
1	C	Х	\$	125,000.00	=	<b>\$</b> \$	125,000.00
1	U	Х	\$	5,000.00	11	\$	5,000.00
1	U	Х	\$	10,000.00	11	\$	10,000.00
55	CY	X	\$	50.00	=	649	2,750.00
25	CY	Х	\$	20.00	=	\$	500.00
25	TONS	Х	\$	100.00	=	\$	2,500.00
80	LF	Х	\$	6.00		\$	480.00
80	LF	Х	\$	10.00	= _	\$	800.00
60	LF	Х	\$	15.00	II	\$	900.00
100	LF	Х	\$	50.00		<del>(</del> \$	5,000.00
1	U	X	\$	1,000.00	-	\$	1,000.00
4	Days	Х	\$	500.00	II	\$	2,000.00
1	Ū	Х	\$	10,000.00	=	\$	10,000.00
20	Days	×	\$	850.00	=	\$	17,000.00
	1 1 250 55 125 250 50 1 1 1 1 55 25 80 80 60 100 1 4	1 U 1 U 250 SY 55 CY 125 CY 250 CY 50 CY 1 U 1 U 1 U 1 U 1 U 55 CY 25 CY 25 TONS 80 LF 80 LF 60 LF 100 LF 1 U 4 Days 1 U	1 U x 1 U x 250 SY x 55 CY x 125 CY x 250 CY x 250 CY x 10 U x 1 U x 1 U x 1 U x 1 U x 1 U x 1 U x 1 U x 1 U x 1 U x 1 U x 1 U x 25 CY x 25 CY x 25 CY x 25 TONS x 80 LF x 80 LF x 60 LF x 100 LF x 1 U x 4 Days x 1 U x	1 U x \$ 1 U x \$ 1 U x \$ 250 SY x \$ 55 CY x \$ 125 CY x \$ 250 CY x \$ 125 CY x \$ 10 U x \$ 1 U x \$ 25 CY x \$ 25 CY x \$ 25 CY x \$ 25 TONS x \$ 80 LF x \$ 80 LF x \$ 80 LF x \$ 100 LF x \$ 100 LF x \$ 1 U x \$ 1 U x \$ 1 U x \$ 1 U x \$ 25 TONS x \$ 26 CY x \$ 27 TONS x \$ 28 TONS x \$ 30 LF x \$ 40 LF x \$ 40 LF x \$ 50 LF x	1         U         x         \$ 4,000.00           1         U         x         \$ 3,000.00           1         U         x         \$ 3,000.00           250         SY         x         \$ 10.00           55         CY         x         \$ 25.00           250         CY         x         \$ 20.00           50         CY         x         \$ 500.00           1         U         x         \$ 40,000.00           1         U         x         \$ 125,000.00           1         U         x         \$ 5,000.00           1         U         x         \$ 5,000.00           1         U         x         \$ 5,000.00           25         CY         x         \$ 50.00           25         TONS         x         \$ 100.00           80         LF         x         \$ 6.00           80         LF         x         \$ 15.00           100         LF         x         \$ 50.00           1         U         x         \$ 1,000.00           4         Days         x         \$ 500.00           20         Days         x <td>1 U x \$ 4,000.00 = 1 U x \$ 3,000.00 = 1 U x \$ 3,000.00 = 250 SY x \$ 10.00 = 55 CY x \$ 30.00 = 125 CY x \$ 25.00 = 250 CY x \$ 20.00 = 50 CY x \$ 500.00 = 1 U x \$ 40,000.00 = 1 U x \$ 125,000.00 = 1 U x \$ 10,000.00 = 1 U x \$ 10,000.00 = 25 CY x \$ 20.00 = 25 CY x \$ 50.00 = 25 CY x \$ 50.00 = 25 CY x \$ 50.00 = 26 CY x \$ 50.00 = 27 CY x \$ 50.00 = 28 CY x \$ 50.00 = 28 CY x \$ 50.00 = 29 CY x \$ 50.00 = 20 CY x \$ 50.00 = 21 U x \$ 10.00 = 22 CY x \$ 50.00 = 23 CY x \$ 50.00 = 24 Days x \$ 50.00 = 25 TONS x \$ 10.00 =</td> <td>1       U       x       \$ 4,000.00       =       \$         1       U       x       \$ 3,000.00       =       \$         250       SY       x       \$ 10.00       =       \$         55       CY       x       \$ 30.00       =       \$         125       CY       x       \$ 25.00       =       \$         250       CY       x       \$ 20.00       =       \$         50       CY       x       \$ 500.00       =       \$         1       U       x       \$ 40,000.00       =       \$         1       U       x       \$ 125,000.00       =       \$         1       U       x       \$ 5,000.00       =       \$         1       U       x       \$ 10,000.00       =       \$         25       CY       x       \$ 20.00       =       \$         25       TONS       x       \$ 100.00       =       \$         80       LF       x       \$ 6.00       =       \$         80       LF       x       \$ 10.00       =       \$         100       LF       x       \$ 50.00</td>	1 U x \$ 4,000.00 = 1 U x \$ 3,000.00 = 1 U x \$ 3,000.00 = 250 SY x \$ 10.00 = 55 CY x \$ 30.00 = 125 CY x \$ 25.00 = 250 CY x \$ 20.00 = 50 CY x \$ 500.00 = 1 U x \$ 40,000.00 = 1 U x \$ 125,000.00 = 1 U x \$ 10,000.00 = 1 U x \$ 10,000.00 = 25 CY x \$ 20.00 = 25 CY x \$ 50.00 = 25 CY x \$ 50.00 = 25 CY x \$ 50.00 = 26 CY x \$ 50.00 = 27 CY x \$ 50.00 = 28 CY x \$ 50.00 = 28 CY x \$ 50.00 = 29 CY x \$ 50.00 = 20 CY x \$ 50.00 = 21 U x \$ 10.00 = 22 CY x \$ 50.00 = 23 CY x \$ 50.00 = 24 Days x \$ 50.00 = 25 TONS x \$ 10.00 =	1       U       x       \$ 4,000.00       =       \$         1       U       x       \$ 3,000.00       =       \$         250       SY       x       \$ 10.00       =       \$         55       CY       x       \$ 30.00       =       \$         125       CY       x       \$ 25.00       =       \$         250       CY       x       \$ 20.00       =       \$         50       CY       x       \$ 500.00       =       \$         1       U       x       \$ 40,000.00       =       \$         1       U       x       \$ 125,000.00       =       \$         1       U       x       \$ 5,000.00       =       \$         1       U       x       \$ 10,000.00       =       \$         25       CY       x       \$ 20.00       =       \$         25       TONS       x       \$ 100.00       =       \$         80       LF       x       \$ 6.00       =       \$         80       LF       x       \$ 10.00       =       \$         100       LF       x       \$ 50.00

SUBTOTAL = \$ 296,000.00

8% GENERAL CONDITIONS = \$ 23,700.00 8% MOBILIZATION = \$ 23,700.00

6% CONTINGENCY = \$ 17,800.00

### CONSTRUCTION TOTAL = \$ 362,000.00

TOTAL PROJECT COST = \$400,000.00

## **ENGINEERING**

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Survey	1	U ·	Х	\$ 4,000.00	II	\$	4,000.00
Geotechnical	1	Ū	Х	\$ 9,500.00	=	\$	9,500.00
Preparation of bid documents	1	U	Х	\$ 15,000.00	_ =	\$	15,000.00
Bidding	1	U	Х	\$ 1,800.00	= _	\$	1,800.00
Construction Administration	1	U	Х	\$ 4,300.00	11	\$	4,300.00
PanAm review of plans and specifications	1	U	Х	\$ 3,000.00	=	<b>\\$</b>	3,000.00

SUBTOTAL = \$ 38,000.00

#### Notes:

- 1. Approximate cost given by Keeley Crane (Portland ME) for a 275 ton crane for 1 day.
- Approximate cost given by CMP to temporarily de-energize the transmission lines for 1 day. Assume lines to be de-energized in the morning and energized in the evening.
- 3. Approximate cost given by CMP to temporarily deconstruct the transmission lines over the bridge site. Assume one day to deconstruct and one day to reconstruct the transmission lines by CMP transmission line crew.