



BECKER

STRUCTURAL ENGINEERS

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

Project: River Point Bridge
W.O. 2477 Sheet:
Calculated By: BTW Date: 3/7/2011
Checked By: Date:

RIVER POINT BRIDGE FALMOUTH, ME OPINION OF PROBABLE COST

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

CONSTRUCTION

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

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	x	\$ 5,000.00	=	\$ 5,000.00
Bidding	1	U	x	\$ 1,800.00	=	\$ 1,800.00
Construction administration	1	U	x	\$ 1,800.00	=	\$ 1,800.00
PanAm review of plans and specifications	1	U	x	\$ 3,000.00	=	\$ 3,000.00

SUBTOTAL = \$ 12,000.00

TOTAL PROJECT COST = \$ 79,000.00

Notes:

1. 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.



BECKER

STRUCTURAL ENGINEERS

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

Project: River Point Bridge
W.O. 2477 Sheet:
Calculated By: BTW Date: 3/7/2011
Checked By: Date:

RIVER POINT BRIDGE FALMOUTH, ME OPINION OF PROBABLE COST

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

CONSTRUCTION

Removal of existing wood structure	1	U	x	\$ 12,000.00	=	\$ 12,000.00
Disposal of treated wood structure	1	U	x	\$ 4,000.00	=	\$ 4,000.00
Removal of existing granite piers	1	U	x	\$ 9,000.00	=	\$ 9,000.00
Temporary RxR crossing	1	U	x	\$ 4,000.00	=	\$ 4,000.00
River Point access	1	U	x	\$ 3,000.00	=	\$ 3,000.00
Erosion control	1	U	x	\$ 3,000.00	=	\$ 3,000.00
Clear and grubbing	250	SY	x	\$ 10.00	=	\$ 2,500.00
Riprap	55	CY	x	\$ 30.00	=	\$ 1,650.00
Structural excavation	125	CY	x	\$ 25.00	=	\$ 3,125.00
Common borrow/structural fill	250	CY	x	\$ 20.00	=	\$ 5,000.00
Concrete abutments w/ reinforcement	50	CY	x	\$ 500.00	=	\$ 25,000.00
Piles (mobilization, material and installation)	1	U	x	\$ 40,000.00	=	\$ 40,000.00
Prefabricated steel truss	1	U	x	\$ 125,000.00	=	\$ 125,000.00
Steel truss bridge erection	1	U	x	\$ 5,000.00	=	\$ 5,000.00
¹ Crane	1	U	x	\$ 10,000.00	=	\$ 10,000.00
Loam and seed	55	CY	x	\$ 50.00	=	\$ 2,750.00
Stone Dust	25	CY	x	\$ 20.00	=	\$ 500.00
Pavement	25	TONS	x	\$ 100.00	=	\$ 2,500.00
Saw cut pavement	80	LF	x	\$ 6.00	=	\$ 480.00
Removal of existing granite curbs	80	LF	x	\$ 10.00	=	\$ 800.00
Reset existing granite curbs	60	LF	x	\$ 15.00	=	\$ 900.00
Approach railing	100	LF	x	\$ 50.00	=	\$ 5,000.00
Steel Bollard (removable)	1	U	x	\$ 1,000.00	=	\$ 1,000.00
² CMP De-energize transmission lines	4	Days	x	\$ 500.00	=	\$ 2,000.00
³ CMP temporary deconstruct transmission lines	1	U	x	\$ 10,000.00	=	\$ 10,000.00
PanAm RxR inspector / flagman	20	Days	x	\$ 850.00	=	\$ 17,000.00

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

ENGINEERING

Survey	1	U	x	\$ 4,000.00	=	\$ 4,000.00
Geotechnical	1	U	x	\$ 9,500.00	=	\$ 9,500.00
Preparation of bid documents	1	U	x	\$ 15,000.00	=	\$ 15,000.00
Bidding	1	U	x	\$ 1,800.00	=	\$ 1,800.00
Construction Administration	1	U	x	\$ 4,300.00	=	\$ 4,300.00
PanAm review of plans and specifications	1	U	x	\$ 3,000.00	=	\$ 3,000.00

SUBTOTAL = \$ 38,000.00

TOTAL PROJECT COST = \$ 400,000.00

Notes:

1. Approximate cost given by Keeley Crane (Portland ME) for a 275 ton crane for 1 day.
2. 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.