

**REPAIR OF OLD BRIDGE**

It is difficult to estimate the costs and life expectancy if the existing bridge were to be rehabilitated. The costs in order to realize an additional 10 – 15 year life span for the Old Bridge are estimated in the order of \$6 - \$10 million.

Construct new piers	\$5 million
Rehabilitation of steel chord/trusses	\$1 million
Replacement of floor beams	\$1 million
Replacement/repair of timber deck	\$.5 million
Engineering	\$1 million
Contingency	\$1 million
<b>TOTAL</b>	<b>\$10 million</b>

*\*This translates to an annual depreciation of \$666,667 per year over the 15 year life expectancy.*

Due to the substandard condition of the bridge structures, any form of reconstruction is not recommended by the consulting engineer.

**OPTION 1: FULL REPLACEMENT BRIDGE**

The budgetary cost estimate is based on a standard ‘unit deck area cost’ typically utilized in the bridge construction industry. Following is Buckland & Taylor’s order of magnitude qualitative assessment of the associated costs:

• Abutments	\$3 million
• River Foundations & Piers	\$6 million
• Superstructure	\$7 million
• Engineering	\$1 million
• Contingency	\$3 million
<b>TOTAL</b>	<b>\$20 million</b>

*\*This translates to an annual depreciation of \$226, 667 per year over the 75 year life expectancy.*

**OPTION 2: PEDESTRIAN SUSPENSION BRIDGE**

A cost estimate for a pedestrian bridge does not utilize standardized costing due to the unique requirements for each structure, rather is based on the following: Weight of superstructure, pipelines, pedestrian loading; Size of main cables and hangers for these loads; Size of the wind cables and wind stays; Pricing of cable infrastructure and related hardware costs; Size, weight and fabrication costs of the towers; Superstructure costs.

Following is Buckland & Taylor’s order of magnitude breakdown based on the components identified above:

• Towers & calve anchors	\$1.9 million
• Superstructure	\$3.3 million
• Engineering	\$.5 million
• Contingency	\$.8 million
<b>TOTAL</b>	<b>\$6.5 million</b>

*\*This translates to an annual depreciation of \$86,667 per year over the 75 year life expectancy.*

