



1/14/11

Mark Mackintosh
SW Regional Construction Engineer
Vermont Agency of Transportation
61 Valley View
Mendon, VT 05701

Re: Pittsfield ER BRF 022-1(23)

Dear Mark

Please consider this submittal as a Conceptual Value Engineering Proposal for the Pittsfield ER BRF 022-1(23).

- a. **Description:** Cold River Bridges, LLC is proposing to self-perform the pre-casting of the abutments and wing-walls, with cast-in place approach slabs as discussed. TY-Lin is currently working on re-designing the post-tensioning. Complete working drawings will be submitted with the DVEP.
- b. **Advantages:**

A summary of the advantages of the conceptual Value Engineering proposal are listed below.

1. On site self-performance of the pre-cast keeps the work in-house and keeps our local workers employed.
2. Keeps material sales to localized businesses (concrete suppliers, R-bar fabricators, suppliers)
3. With aggressive completion dates and short bridge closure periods, self-performance pre-cast concrete keeps control in the hands of the prime contractor reducing delays.
4. With a growing increase of projects specifying pre-cast concrete and a limited amount of available pre-casters with openings in their casting schedules to meet tight completion dates, self-performance pre-cast opens an additional avenue for both innovative contractors and the Agency to complete projects on time and within budget.
5. As the demand for pre-cast increases the prices have and will continue to escalate. The use of self-performance pre-cast concrete in the future will help to balance these cost increases.



b.1 Request to work during the time period of December 1st 2013 to April 15th 2013. Cold River Bridges, LLC is requesting to perform the following items under the self-performance pre-cast proposal.

ITEM: 540.10 Pre-cast Abutment # 1

ITEM: 540.10 Pre-Cast Abutment #2

Cold River Bridges is proposing the following concrete mix designs:

1. Self-Performance pre-cast abutments and wing-walls- HPC Class A (modified) 5000 PSI
2. Cast in place approach slabs-HPC A
3. Closure pour -Concrete HPC-Rapid Set

To complete this project as a self-performance pre-cast project Cold River Bridges, LLC will require this work to be completed during the time frame of December 1st 2013 to April 15th 2013. The 6 advantages listed above also apply as beneficial reasons for working during the winter months.

It is understood that if permission is granted to Self-perform this work Cold River Bridges, LLC would be required to meet all cold weather Concrete requirements. Cold River Bridges is currently performing a self-performance pre-cast on the Cavendish ER BRF 0146 (13) project. Cold River has constructed a large heated enclosure that is currently being used to cast the abutments and approach slabs for the Cavendish project. Cold River is proposing the use of the Cavendish enclosure for the casting of the Pittsfield wing-walls and Abutments.



c. Impacts to permits and/or third party agreements.

There are no current permit impacts or third party agreements.

d. Identification of Prior CVEPs.

Cold River Bridges, LLC submitted a Value Engineering Proposal for the Plymouth ER BRS 0149 (5) project. This Value engineering proposal was accepted as a zero dollar Value Engineering proposal to Self Perform the Pre-casting of the wing walls and approach slabs with a larger closure pour. This project was completed successfully as a self-performance project.

Cold River Bridges, LLC is currently completing self-performance pre-cast of the abutments and approach slabs for the Cavendish ER BRF 0146 (13). This project was accepted as a zero dollar value engineering.

e. Known use or testing.

This method was used on the Plymouth ER BRS 0149 (5) project, and the Cavendish ER BRF 0146 (13)

f. Estimate of Net savings:

This Value engineering proposal is being submitted as a Zero dollar Value Engineering proposal.

g. Estimate of Developmental Cost.

Developmental cost are projected to be minimal and will be at the contractor's expense.



Original as designed

ITEM #	DESCRIPTION	QTY	UNIT	BID		EXTEND
				UNIT	UNIT	
540.1	PRE-CAST ABUT 1	1	LS	\$	116,000	\$ 116,000
540.1	PRE-CAST ABUT 2	1	LS	\$	116,000	\$ 116,000
540.1	PRE-CAST APPROACH SLAB 1	1	LS	\$	40,000	\$ 40,000
540.1	PRE-CAST APPROACH SLAB 2	1	LS	\$	40,000	\$ 40,000
900.608	RAPID SET	43	CY	\$	500	\$ 21,500
						\$ 333,500

Self-performance /cast in place

ITEM #	DESCRIPTION	QTY	UNIT	BID		EXTEND
				UNIT	UNIT	
900.545	SELF PERFORM PRE-CAST ABUT 1	1	LS	\$	116,000	\$ 116,000
900.545	SELF PERFORM PRE-CAST ABUT 2	1	LS	\$	116,000	\$ 116,000
900.???	CAST IN-PLACE APPROACH SLAB 1	1	LS	\$	40,000	\$ 40,000
900.???	CAST IN-PLACE APPROACH SLAB 2	1	LS	\$	40,000	\$ 40,000
900.608	RAPID SET	1	LS	\$	21,500	\$ 21,500
						\$ 333,500

Thank you for your consideration,

Chad Contaldi
Cold River Bridges, LLC



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