

VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

Conceptual Proposal **Final Proposal** **Date** 24 JUL 13

Contract ID 130628-H02 **Job No.** J9P0582 & 2245B

County Shannon & Reynolds **Original Bid Cost** \$11,283,000.00

Contractor Pace Construction Company, LLC **By** Steve Bubanovich, H R Quadri (sub)

Designed By MoDOT (Pete Berry) **Phone** 573-945-2224

VECP# 13-45 (to be completed by C.O.) **VECP** or **PDVECP**

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages
The proposed changes eliminate the steep gradients on several cross road pipes and reduce to manageable grades near 1%. These shorter and flatter pipes will drain to a heavy rock (24" minus shot-rock) letdown to the existing flowline.

2. Estimate of reduction in construction costs. \$122,864.50

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.
The proposed changes will result in lower maintenance costs, as pipes normally out of MoDOT repair will be constructed such that normal maintenance equipment, i.e. rubber tire backhoe, can replace and repair.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

July 31, 2013
(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

July 31, 2013 Written approval is necessary to procure pipes and other materials.
(date) (effect)

6. Dates of any previous or concurrent submission of the same proposal.

None
(date and/or dates)

Additional Comments:

The spreadsheet below captures all quantity changes necessary for this Value Engineering Proposal. Revised drawings will also be submitted detailing the changes.

Rock Letdowns will be constructed of durable stone, with an approximate gradation of 24” minus pit/quarry run. Rock Lining is being deleted, however will be constructed as part of the Rock Letdown item, utilizing the same material. Existing pipes will be plugged. New pipes may require minor realignment so as to not interfere with existing pipes.

Line No.	Item No.	Description	Unit	Quantity	Price	Underrun	Overrun
0030	2063000	Class 3 Excavation	CY	213	\$40.00	\$8,520.00	
0050	3049907	Misc. Type 1 Aggregate	CY	986.5	\$50.00	\$49,325.00	
0060	401300	Bit. Pavt Mix PG64-22 (Base)	TONS	26.3	\$115.00	\$3,024.50	
0150	6097000	Rock Lining	CY	12	\$50.00	\$600.00	
0290	7250418	18 IN. Pipe Group C	LF	53	\$110.00	\$5,830.00	
0300	7250424	24 IN. Pipe Group C	LF	28	\$110.00	\$3,080.00	
5001	609XXXX	Rock Letdowns	EA	5	\$1,500.00		\$7,500.00
5002	202XXXX	Pipe Plugging	EA	5	\$2,200.00		\$11,000.00
5003	1XXXXXX	VE Savings	EA	25939.75	\$1.00		\$25,939.75
0400	2063000	Class 3 Excavation	CY	335	\$40.00	\$13,400.00	
0430	3049907	Misc. Type 1 Aggregate	CY	1281.6	\$50.00	\$64,080.00	
0440	4013000	Bit. Pavt Mix PG64-22 (Base)	TONS	37.5	\$110.00	\$4,125.00	
0550	6097000	Rock Lining	CY	8	\$50.00	\$400.00	
0710	7250424	24 IN. Pipe Group C	LF	9	\$110.00	\$990.00	
0720	7250430	30 IN. Pipe Group C	LF	59	\$110.00	\$6,490.00	
5101	609XXXX	Rock Letdowns	EA	5	\$1,500.00		\$7,500.00
5102	202XXXX	Pipe Plugging	EA	5	\$2,200.00		\$11,000.00
5103	1XXXXXX	VE Savings	EA	35492.5	\$1.00		\$35,492.50
- MoDOT SAVINGS						\$61,432.25	

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments:
I agree that this proposal will decrease construction costs, closure times and allow easier replacement in the future.



Digitally signed by Lindell Huskey
DN: cn=Lindell Huskey, o=MoDOT,
ou=Willow Springs RE Office,
email=Lindell.Huskey@modot.mo.gov,
c=US
Date: 2013.07.25 09:47:14 -05'00'

Submitted By Resident Engineer Date

Comments:



Digitally signed by Andrew Meyer
DN: cn=Andrew Meyer, o=MoDOT, ou=SE
Construction and Materials,
email=andrew.meyer@modot.mo.gov, c=US
Date: 2013.07.28 19:33:57 -05'00'

Approval Recommended Date

Rejection Recommended District Engineer

Comments:



Digitally signed by Mike McGee
DN: cn=Mike McGee, o=FHWA,
ou=Missouri Division,
email=mike.mcgee@dot.gov, c=US
Date: 2013.07.29 08:33:22 -05'00'

Approval Recommended Date

Rejection Recommended Federal Highway Administration
Required for FHWA Full Oversight Projects

Comments:



Digitally signed by Randy C. Hitt
DN: cn=Randy C. Hitt, o, ou,
email=randy.hitt@modot.mo.gov,
c=US
Date: 2013.07.29 08:13:05 -05'00'

Approval Date

Rejection State Construction and Materials Engineer

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator – MoDOT, P. O. Box 270, Jefferson City, MO 65102