

**VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION**

Conceptual Proposal **Final Proposal** Date 4/11/13

Contract ID 130222-D02 Job No. J9P2208

County Phelps Route 72 Original Contract Amount \$2,382,114.57

Contractor APAC-Missouri, Inc. By Casey J. Castrop

Designed By MoDOT Phone 573-449-0886

VECP# * 13-12 (to be completed by C.O.) 1.5" VECP or PDVECP

* Revised

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

APAC proposes to coldmill the mainline 1.75" from Station 127+42.95 to Station 400+11.03 and seal coat, grade C the existing 6' shoulders and Rt. F shoulders. Milling in lieu of the planned overlay will improve the typical profile, eliminating all of the BP-1 asphalt quantities. This will also eliminate the tack oil needed for the shoulders and all of the modified coldmilling depth transitions. APAC will also value the RAP for a \$2.00 per ton credit. This will combine multiple operations to limit the impact on the traveling public and expedite the project. Please see the attached savings worksheet.

2. Estimate of reduction in construction costs. \$1,095.65

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

The VE proposal will eliminate a shoulder drop off that will be created by planned design, thus saving maintenance forces from future expense.

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

(date)

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

3/25/13 Asphalt Aggregate For BP-1
(date) (effect)

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

3/22/13
(date and/or dates)

Additional Comments:

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

Comments:

This a revision to the previously approved VE. The depth of milling was changed from 1.75" to 1.5" to allow for the chip seal thickness that was placed on the shoulder to be flush with the new pavement. I recommend approval of this VE Concept Proposal.



Digitally signed by Dennis Krenning
DN: cn=Dennis Krenning, o=MoDOT, ou=48CB,
email=dennis.krenning@modot.mo.gov, c=US
Date: 2013.06.26 08:08:48 -05'00'

Submitted By Resident Engineer

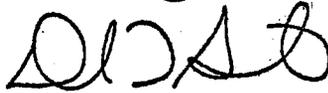
Date

Comments:

VE (revised) reflects a slightly increased cost for milling due to the lesser volume of millings produced w/ a 1.5" mill in lieu of 1 3/4", and therefore, lesser value of salvage (total tons).



Approval
Recommended



6/26/13



Rejection
Recommended

District Engineer

Date

Comments:

N/A



Approval
Recommended



Rejection
Recommended

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments:



Approval



Rejection

State Construction and Materials Engineer

Date

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

Rt. 72 Phelps
J9P2208
ID# 130222-D02

VE #2 - Rt. 72 Phelps W/ Seal Coat

Eliminate - Savings

Item 30 BP-1 Asphalt Shoulders
Item 50 Tack Oil Shoulders - Rt.72 & F & Entrances
Item 440 Mod Coldmill Depth Trans.

2,801.2 tons @ \$47.81/ton
36,161 syds (@ 0.05) = 1,848.05 gals @ \$2.22/gal
4,437 syds @ \$3.36/syd
TOTAL SAVINGS

\$133,925.37
\$4,102.67
\$14,908.32
\$152,936.36

Additional - Cost

New Item 1.75" Milling - Rt. 72 & F
New Item Seal-Coat, Grade C - Rt. 72 & F

118,764.02 syds @ \$0.70/syd
36,161 syds @ \$1.90/syd
TOTAL ADD COST

\$83,134.81
\$68,705.90
\$151,840.71

Savings

\$1,095.65

Total Savings MoDOT

\$821.74

Total Savings APAC

\$273.91