

VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

Conceptual Proposal Final Proposal Date July 13, 2012

Contract ID 120120-A02 Job No. J1P2217

County Dekalb/Buchcana Route 36 Original Contract Amount 2,223,498.17

Contractor APAC By Jason Stastny

Designed By MODOT Phone (573) 449-0886

VECP# 12-41 (to be completed by C.O.) VECP or PDVECP

1. **Description of existing requirements and proposed change(s). Advantages/Disadvantages**
Current typical section consists of four lifts of asphalt; a .5" SP048F, 2" SP190C (64-22), 2" SP190C (70-22), 1.5" SP095C. APAC proposes to eliminate the SP048 and replace with 2.25" ^{2.00"} SP190C (64-22) warm mix on the base lift. Please note the breakdown of cost and savings on the attached sheet. *JAS*

2. **Estimate of reduction in construction costs.** \$ 121,020.49

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

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.**

(date) _____
(effect)

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

June 6, 2012, June 25 & June 27
(date and/or dates)

Additional Comments:

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

Comments:

I am recommending that this value engineering proposal be accepted. The elimination of the 0.5" of SP048 will reduce the structure of the pavement however; the existing pavement upon which this overlay is being constructed is concrete that is in overall good condition. The elimination of this layer of asphalt could negatively impact the bump mitigation properties of the original design therefore the contractor is proposing to utilize warm mix for the first lift of asphalt. This should eliminate any issues with bump formation at the joints. The contractor will assume full responsibility for any bumps that may arise from this design change and will correct the noted bumps at their expense in accordance with section 403.20.2 of the specifications.

Submitted By Resident Engineer

Date

Comments:



Approval
Recommended



Rejection
Recommended

District Engineer

Date

Comments:

N/A



Approval
Recommended



Rejection
Recommended

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments:

This V.E. is approved as a 75/25 cost share. Warm mix is required on the first lift.



Approval



Rejection

State Construction and Materials Engineer

Date

Value Engineering Proposal

J1P2217

Eliminate

Line item 460 SP048F 1,920.1 tons @ \$73.42/ton = \$140,973.74

Line item 470 SP190C 7,981.3 tons @ \$56.70/ton = \$452,539.71

Additional

New item for warm mix;

Line item 471 SP190C (64-22) 7,981.3 tons @ \$59.20/ton = \$ 472,492.96

Summary

\$ 593,513.45 planned cost

\$ 472,492.96 proposed cost

\$ 121,020.49 Total Value Engineering savings

\$ 90,765.36 75% MODOT

\$ 30,255.13 25% APAC