

VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Date 9-12-08

Contract ID 071221-502

Job No. J5P0590 & J5P0591

County Camden Route 5

Original Bid Cost 9,206,186.96

Contractor APAC

By Casey Castrop

Designed By _____

Phone 573-449-0886

VECP # VECP 08-93

VECP or VECPP/PDU

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages
Substituting MoDOT specified Generation Two traffic paint for the currently specified epoxy pavement markings. The advantages are that the initial retro reflectivity is higher and the long term performance is better. Plus the cost of the material is considerably less.

2. Estimate of reduction in construction costs. \$ 21,989.06

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

None anticipated.

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.

(date and/or dates)

Additional Comments:

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

Comments: APPROVAL OF THIS V.E. PROPOSAL IS RECOMMENDED. BASED ON THE ADVANTAGES OF GENERATION TWO PAINT AND THE ASSOCIATED COST SAVINGS.

Michael K. O'Malley 10/27/08
Submitted By Resident Engineer Date

Comments: Substituting epoxy pavement markings with 2nd generation has been a concept initiated by MoDOT and has been handled statewide by re-negotiating cost with contractors. In addition, it is questionable as to the equal value between epoxy and 2nd gen. pavement markings.

Approval Recommended
 Rejection Recommended

Roger Schwartz 10/30/08
District Engineer Date

Comments: As stated above, this is not considered as a VE proposal. Guidance was sent out earlier this year to allow substitution of paint for epoxy pavement markings.

Approval
 Rejection

^{P.S.M. for} Dave Adams 11/03/08
State Construction and Materials Engineer Date

Distribution: Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer
*Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

VE #1 - Substitute MoDOT traffic paint for epoxy pavement markings

Epoxy 4" Marking	64,627 LF @ \$0.37/LF ✓	\$23,911.99 ✓	
Epoxy 6" Marking	109,050 LF @ \$0.42/LF ✓	\$45,801.00 ✓	
Epoxy 8" Marking	102 L.F. @ \$0.74 = \$75.48 / 1904 2,006-LF @ \$0.63/LF ✓ 1199.52	\$1,263.78 1275.00	
Epoxy 12" Marking	3,696 LF @ \$0.84/LF ✓	\$3,104.64 ✓	
	Totals	\$74,081.41 74,092.63	
4" Paint line	64,627 LF @ \$0.25/LF	\$16,156.75	
6" Paint line	109,050 LF @ \$0.30/LF	\$32,715.00	
8" Paint line	2,006 LF @ \$0.50/LF	\$1,003.00	
12" Paint line	3,696 LF @ \$0.60/LF	\$2,217.60	
	Totals	\$52,092.35	
Total Cost Reduction		\$21,989.06	22,000.28

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- Bridge/Structure/Footings
- Drainage Structures (RCP, RCB, CMP's ect)
- TCP/MOT
- Paving (PCCP, ect.)
- Grading/MSE Walls
- Signal/Lighting/ITS
- Misc. Pavement Marking

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

Substitute Generation Two traffic paint for epoxy pavement marking.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

All