

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

**Conceptual Proposal**       **Final Proposal**      Date September 24, 12  
Contract ID 120824-D03      Job No. J5P0965, J5P0966, J5M0257  
County Cole      Route 50      Original Contract Amount 1,055,099.53  
Contractor APAC-Missouri, Inc.      By Jason Stastny  
Designed By APAC      Phone (573) 449-0886  
VECP# 12-64 (to be completed by C.O.)      VECP  or PDVECP

**1. Description of existing requirements and proposed change(s). Advantages/Disadvantages**  
APAC proposes to add RAP to the Type C Ultrathin Bonded Wearing Surface (Nova-Chip) on Route 50. APAC will use RAP processed to 3/8" minus with a 20% virgin AC replacement in compliance with the forthcoming specification change for UBAWS. Please see attached cost savings sheet.

**2. Estimate of reduction in construction costs.**      \$ 10,911.27

**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.**  
October 1, 2012  
(date)

**5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.**  
October 1, 2012      time to submit for approval a new mix design  
(date)      (effect)

**6. Dates of any previous or concurrent submission of the same proposal.**  
none  
(date and/or dates)

**Additional Comments:**

anticipated start date for the UBAWS is October 10<sup>th</sup> 2012

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

Comments: Prior approved VE proposals throughout the State utilizing RAP material in the production of UBAWS warrants the approval of this 50/50 VE proposal. This VE proposal reduces the unit price for UBAWS by \$0.05, \$0.05 & \$0.04 per square yard for Job No. J5P0965, Job No. J5P0966 & Job No. J5M0257 respectively. Job No. J4P2402, Rte 7, Henry County was previously approved at a reduction of \$0.04 per sq. yd. for UBAWS. Therefore, based on the information above,

Submitted By Resident Engineer Larry A. Huff Date 10-3-12

Comments: I recommend approval of this 50/50 VE proposal.

Agree with comments above

Approval Recommended \_\_\_\_\_  
 Rejection Recommended \_\_\_\_\_  
District Engineer Date

Comments: N/A

Approval Recommended \_\_\_\_\_  
 Rejection Recommended \_\_\_\_\_  
Federal Highway Administration Date  
Required for FHWA Full Oversight Projects

Comments: Approved as a 50/50 cost share. Spec change is in the works, but not fully implemented.

Approval \_\_\_\_\_  
 Rejection \_\_\_\_\_  
State Construction and Materials Engineer Date

**Contract ID 120824-D03**

**Jobs J5P0965, J5P0966, J5M0257**

**Route 50 Cole County**

**Value Engineering Proposal 1**

Unit price breakdown

**Original**

Line 0010	UBAWS	82,624 SQYD	\$ 4.12	\$340,410.88
Line 0230	UBAWS	134,671 SQYD	\$ 4.01	\$540,030.71
Line 0450	UBAWS	1,163 SQYD	\$10.34	\$ 12,025.42

**Proposed**

Line 0010	UBAWS w/ RAP	82,624 SQYD	\$ 4.07	\$336,279.68
Line 0230	UBAWS w/ RAP	134,671 SQYD	\$ 3.96	\$533,297.16
<u>Line 0450</u>	<u>UBAWS w/ RAP</u>	<u>1,163 SQYD</u>	<u>\$10.30</u>	<u>\$ 11,978.90</u>

**Total savings**

**UBAWS w/RAP \$ 10,911.27**

**50-50 cost savings breakdown**

**MODOT \$ 5,455.64**

**APAC \$ 5,455.63**