

VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Conceptual Proposal Final Proposal Date 8-12-2011

Contract ID 110527-605 Job No. J6P2206

County Franklin Original Bid Cost 1,310,000.00

Contractor NB West Contracting By Michael T. Manion

Designed By Tim Schroeder Phone 314-962-3145

VECP# 11-59 (to be completed by C.O.) VECP or PDVECP

1. **Description of existing requirements and proposed change(s). Advantages/Disadvantages**
Pave mainline with SP095CLP 1.25" and the shoulder with BP-2.
We are proposing to use a 3/4" crack resistant 9.5MM thin bonded overlay on mainline and the inside shoulders and a 3/4" BP-3 on the outside shoulder. The modified binder along with the polymer modified tack will allow the mix to meet very high requirements when tested by the DCT (measures cracking resistance). By changing the gradation, binder type, and binder content, permeability and air voids in the mix will be greatly reduced when compared to Novachip.

2. **Estimate of reduction in construction costs.** \$ 26,808.08

3. **Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.**
With the undiluted high shot rate polymer modified tack coat (CPEM-1 at .13 gal/sy); MoDOT should reduce future maintenance cost due to sealing of the existing pavement surface of moisture that would penetrate the pavement layers beneath the overlay. The polymer modified tack will provide a superior bond between pavement layers for the entire life of the pavement structure as is assumed when calculating pavement structure.

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

8-12-2011
(date)

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

8-24-2011 Time is critical to get the mix design and testing done.
(date) (effect)

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

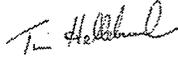
N/A
(date and/or dates)

Additional Comments:

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

Comments:

After a thorough review by the Franklin County Area Management Team, I recommend accepting this PDVECP based upon the contractor meeting the follow stipulations: 1) Revised UBAWS and BP-3 mixes must perform satisfactory in field (constructability); 2) Joint between UBAWS and BP-3 Shoulder will need to be flush at surface to prevent ponding; 3) Revised mix design must meet applicable MoDOT specifications Section 413 (Field Office Review and Acceptance) and any additional proposed testing; 4) Current DBE goal will need to be met if it is affected by VE change (WW Petroleum - AC Supplier).



Digitally signed by Patricia A. Miller
DN: cn=Patricia A. Miller, c=US, o=MoDOT St.Clair Project
Office, ou=ECG, email=Patricia.A.Miller@modot.mo.gov
Date: 2011.08.16 12:05:00 -0500

08/16/11

Submitted By Resident Engineer

Date

Comments: Approval is Recommended as outlined above.



Digitally signed by Matthew Budd
DN: cn=Matthew Budd, o=MoDOT, ou=D6
Construction and Materials,
email=Matthew.Budd@modot.mo.gov, c=US
Date: 2011.08.17 11:15:40 -05'00'

**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: Approval is recommended based on the district's comments above.



Digitally signed by Ronald Morris
DN: cn=Ronald Morris, o=MoDOT, ou=3H35,
email=Ronald.Morris@modot.mo.gov, c=US
Date: 2011.08.18 15:33:14 -05'00'

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

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

SUMMARY OF PROPOSAL

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

Contractor proposed to use 3/4" crack resistant 9.5MM thin bonder overlay in lieu of 1.25" SP095CLP

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.

