

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

**Conceptual Proposal**       **Final Proposal**      Date 14 DEC 11

Contract ID 111118-H07      Job No. J9P3000

County Wayne      Original Bid Cost \$1,445,581.72

Contractor H R Quadri Contractors LLC      By Steve Bubanovich

Designed By Andy Meyer, MoDOT      Phone 573-945-2224

VECP# 12-06 (to be completed by C.O.)      VECP  or PDVECP

1. **Description of existing requirements and proposed change(s). Advantages/Disadvantages**  
Project was designed utilizing AgLime (1/4" minus limestone chips) as a component to the fill material in various locations throughout the project. The locations requiring AgLime also incorporate "Chimney Drains" to facilitate drainage.

Most of the major slides are located at the end of long ridges, the original slope cuts were much steeper than the original natural contours, thus creating a failure plane. The "chimney drains" will provide required relief and drain the areas well. The actual soils do not appear to exhibit any poor qualities, and we therefore are requesting the AgLime be eliminated by a PDVECP. The areas will be seeded, and growth guaranteed by section 805.

2. **Estimate of reduction in construction costs.**      \$49,164.00

3. **Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.**  
None.

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

January 9, 2012

(date)

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

Negotiable

(date)

(effect)

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

n/a

(date and/or dates)



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Van Buren, MO 63965

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573.945.2226 (fax )  
[quadri@mcmo.net](mailto:quadri@mcmo.net)

December 14, 2011

Mr. Audie Pulliam  
Resident Engineer  
Missouri Dept of Transportation  
2910 Barron Road  
Poplar Bluff, MO 63091

Subject: Value Engineering Concept Proposal  
Contract 111118-H07  
US67 – Wayne Co.

Dear Mr. Pulliam,

Please find attached a Practical Design Value Engineering Concept Proposal for the above captioned project.

I have spent considerable time in both my past and present careers evaluating the slides along US67, both the causes and possible solutions. The proposed solution to install chimney drains to aid in draining these large ridges is a good solution and should provide much needed relief. The soils present in these areas are excellent, and appear to have failed due to being supersaturated. This saturation has caused the soils to slide. Normal manipulation and compaction of these excavated soils will cause a drying action and the addition of the chimney drains will prevent them from becoming supersaturated in the future.

I am proposing eliminating the AgLime portion of the project. There are locations throughout the corridor that appear to have failed since the original design was completed. The savings may be better spent correcting these other areas.

If you have any questions, please feel free to call me at the number above, my cellular phone at 573-429-3164, or via email at [steveb@hrquadri.com](mailto:steveb@hrquadri.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen Bubanovich".

Stephen Bubanovich, PE  
Member

sab

Attachment

Copy: Andy Meyer, PM & DCME  
Dave Ahlvers, State C&ME  
File

**Additional Comments:**

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

**Comments:** As a part of this proposal, the contractor has agreed to incorporate the lime used in seeding during the final finishing process. This should provide the long term soil neutralization desired by MoDOT. Moisture control required by the Compacting Emb. specification will require the material to be dried, which was the other benefit of adding the Ag Lime.



Digitally signed by Audie A. Pulliam  
DN: cn=Audie A. Pulliam, o=MoDOT, ou=7HCD,  
email=audie.pulliam@modot.mo.gov, c=US  
Date: 2012.01.30 06:17:29 -06'00'

Submitted By Resident Engineer

Date

**Comments:**

- Approval Recommended**
- Rejection Recommended**



Digitally signed by Andrew Meyer  
DN: cn=Andrew Meyer, o=MoDOT,  
ou=SE Construction and Materials,  
email=andrew.meyer@modot.mo.gov,  
c=US  
Date: 2012.02.08 14:12:12 -06'00'

District Engineer

Date

**Comments:**

- Approval Recommended**
- Rejection Recommended**

Federal Highway Administration  
Required for FHWA Full Oversight Projects

Date

**Comments:**

- Approval**
- Rejection**



Digitally signed by John P Donahue  
DN: cn=John P Donahue, o=MoDOT,  
ou=3H35,  
email=john.donahue@modot.mo.gov,  
c=US  
Date: 2012.02.09 07:27:05 -06'00'

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

VE 12-06

## **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)

This practical design VECP proposal will eliminate the Ag lime soil stabilization requirement because (1) the to-be constructed chimney drains will suffice for evacuating future excess rain runoff and (2) the existing soils at normal optimum moisture and density are stable enough.