

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

Conceptual Proposal       Final Proposal      Date 4-21-10  
Contract ID 090626-802      Job No. J8P0605B, 605D, 605E  
County Greene 65      Original Bid Cost \$26,943,391.78  
Contractor Emery Sapp & Sons      By Josh Doerhoff  
Designed By MoDOT      Phone 573-445-8331  
VECP# 10-49 (to be completed by C.O.)      VECF  or PDVECF

1. **Description of existing requirements and proposed change(s). Advantages/Disadvantages**  
The existing plans call for placement of Type F Barrier and Impact Attenuators along the outside shoulders of Rt 65 in order to protect the existing overpasses. Instead of removing the existing guardrail and placing Type F Barrier wall we would like to propose leaving the existing guardrail in place during the construction in that area. We believe we can work around the existing guardrail while replacing the outside shoulders in these areas. The only disadvantage to the acceptance of this proposal would be the inability to daylight the baserock beneath the A3 Shoulders in the area of the existing guardrail.

2. **Estimate of reduction in construction costs.** \$92,748.20

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.**

4-21-10  
(date)

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

5-21-10      \_\_\_\_\_  
(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: *Plan has been reviewed by MoDOT, District Design and Construction and appears to be acceptable, if inslope base material is incorporated during guardrail removal and replacement operations.*

*[Signature]*  
Submitted By Resident Engineer

*4/30/10*  
Date

Comments: *I concur with proposal and process as noted by Resident Engineer.*

- Approval Recommended
- Rejection Recommended

*[Signature]*  
District Engineer

*5/5/2010*  
Date

Comments:

*NOT FEDERAL OVERSIGHT  
P292*

- ~~Approval Recommended~~
- ~~Rejection Recommended~~

Federal Highway Administration  
Required for FHWA Full Oversight Projects

Date

Comments:

*APPROVED PER DISTRICT RECOMMENDATION*

- Approval
- Rejection

*[Signature]*  
State Construction and Materials Engineer

*5-11-10*  
Date



EMERY SAPP & SONS, INC.

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April 21, 2010

Mr. Gayle Davis R.E.  
Missouri Dept. of Transportation  
251 SW Outer Road  
Branson, MO 65616

**RE: Value Engineering #5  
Rte.65, Greene County  
Job No J8P0605B, J8P0605D, & J8P0605E**

Mr. Davis:

Attached is a Value Engineering Proposal for the elimination of some Type F Barrier and Impact Attenuators originally set up for protection along the outside shoulders of the existing bridges at the following interchanges: Gasgnade, Battlefield, Cherry St, Division, and Kearney.

We believe we can leave the existing guardrail in place during the construction of the shoulders in these areas. After all of the shoulders are replaced in these areas we will be able to remove and replace the existing guardrail in a single operation without the use of Type F Barrier and Impact Attenuators.

The only disadvantage to this proposal is the fact that we will not be able to daylight the baserock around the existing guardrail. We do not believe this will cause any future problems since the existing runs of guardrail are very short and any water that would need to drain out of these areas will be able to drain out of the adjacent daylighted base.

I have also attached a breakdown of the locations of the proposed eliminations.

If you have any questions or need any additional information please don't hesitate to call.

Sincerely,

Emery Sapp & Sons, Inc.

Josh Doerhoff

**Greene Co Rt 65**

**Value Engineering Proposal Eliminating Type F Barrier and Impact Attenuators**

Job #	Route	Station	Station	Location	F Barrier Length (LF)	Impact Attenuators (EA)
J8P0605B	65	1065+44	1068+32	RT	287.5	1.00
J8P0605B	65	1066+58	1069+71	LT	312.5	1.00
J8P0605B	65	1112+17	1114+67	RT	250.0	1.00
J8P0605B	65	1113+31	1115+94	LT	262.5	1.00
J8P0605D	65	904+20	905+95	RT	175.0	1.00
J8P0605D	65	904+63	906+51	LT	187.5	1.00
J8P0605E	65	770+05	772+30	RT	224.9	1.00
J8P0605E	65	770+68	772+93	LT	225.0	1.00
J8P0605E	65	823+31	825+56	RT	225.0	1.00
J8P0605E	65	823+82	826+07	LT	225.0	1.00

**Totals = 2374.9 10.0**

**Total Savings = \$ 42,748.20 \$ 50,000.00**

Contract ID: 090626-802

Fed St/Prj Nbr: FAF-65-2(64)

Status: Active

Primary PCN: J8P0605B

District: 08 OrgCode: 8CD

Funding

Progress Sched:

Variance Pct: .00

- Federal
- State/Province
- Both

Desc: J8P0605B, D, E - ROUTE 65 - GREENE COUNTY

Time Charges: Completion Date

Bid Days: 740

Bid Amt: \$26,943,391.77

Contract Type: Construction Project Above \$500,000

Fed Oversight

Work Type: NEW CONSTRUCTION

Local Oversight

Proposal Fund Type:

Spec Yr: 1996

Unit System: English

Suppl Spec Bk Yr: 1996

Alt ID:

# 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)

\_\_\_\_\_ Use existing guardrail during construction in lieu of planned temporary Type F Barrier.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## *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.

\_\_\_\_\_ Scan entire document.

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