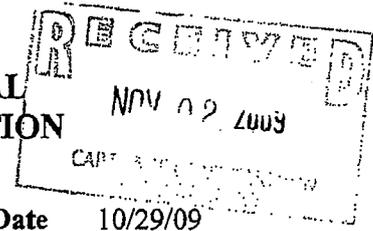


VALUE ENGINEERING CHANGE PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION



Conceptual Proposal       Final Proposal

Date 10/29/09

Contract ID 0905522-701

Job No. J7S2161

County Jasper and Newton      FF

Original Bid Cost \$2,814,568.07

Contractor Sprouls Construction Inc.

By Dwight Sprouls

Designed By Dwight Sprouls

Phone 417-682-9577

VECP# 09-97 (to be completed by C.O.)

VECP  or PDVECP

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

The existing proposal calls for temporary traffic barriers located at three pipe culvert replacement locations. Placing and removing these barriers would expose the workers and traffic to more opportunity for conflict during the construction of the traffic control than the actual installation of the pipe culverts. Workers and the traffic will be exposed to the traffic during work time including the time for setting the normal work zone.

2. Estimate of reduction in construction costs. \$41,736.50

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

Changing the traffic control will not effect the quality of the final installation of the culvert.

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

10/29/09  
(date)

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

12/15/09  
(date)

There should be no effect on the completion time.  
(effect)

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

This proposal was discussed at the  
pre-con meeting for this project.  
(date and/or dates)

Additional Comments:

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

Comments:

I recommend that this VE Proposal be approved. This proposal will decrease the length of time that the traveling public is affect by a workzone. I recommend that this be 50/50 Cost Share.

All traffic queues will be less than 5 minutes. One lane flagging operation will continue until entire roadway can be opened (Sprouls will provide night time

lighting/flagging if necessary at their cost)

*Donald B. Bisher*

11/3/09

Submitted By Resident Engineer

Date

*Michael C. Miller D.C.M.B. 11/6/09*

Comments:

*I concur 50/50 Cost Share*

Approval Recommended

*Becky Bally*  
District Engineer

11-6-09

Date

Rejection Recommended

Comments:

*N/A APPROVED PER DISTRICT RECOMMENDATION AT 11/20/09 SAIT*

Approval Recommended

*by [signature]*

11-13-09

Date

Rejection Recommended

Federal Highway Administration  
Required for FHWA Full Oversight Projects

Comments:

Approval

*David D. Cooper*

12-7-09

Date

Rejection

State Construction and Materials Engineer



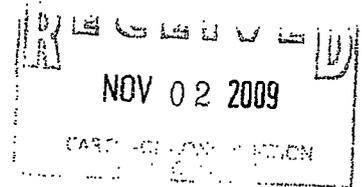
397 W. DD Hwy. • Lamar, MO 64759

(417) 682-9577 • (417) 682-2277 fax

**General Contractors**

October 29, 2009

Mr. Brad Gripka P.E.  
Missouri Department of Transportation  
P.O. Box 855  
Carthage, Mo 64835



This is to provide you with information as required in Sect. 104.6 of the Missouri Standard Specifications for a value engineering proposal

Current plans call for concrete barrier placement for traffic control around the construction of crossroad drainage structures at three locations. The drainage structures include double 24" pipes at two locations and a single 24" pipe at a third location.

Placement of concrete barriers and temporary attenuators will cost \$32,000. The placement of this type of traffic control would take as much time as the actual construction or placement of the pipe. This would actually increase the time of exposure for both the traffic and the workers to build the traffic control including barriers and attenuators and install the pipe. Our proposal would reduce the amount of time to set proposed work zone by setting a normal MUTCD approved work zone using 42" trimline cones. The signage would remain the same. The placement of the proposed work zone would be approximately \$1805.00.

Resulting pipe installation would not be effected by this proposal. The time of completion should be improved since it will take much more time to set the concrete barriers and attenuators as it would to use a normal work zone using trimline cones. Additionally, relocating these barriers and attenuators would again expose the traffic and workers to possible conflict. Relocation of a normal work zone using trimline cones will take much less time and costs.

Due to the relocation of utilities we would also propose eliminating the barriers and attenuators around the utility pole in the southwest quadrant at Kodiak.

Eliminating the barriers and attenuators increases the channelizer need to 190 units. This increase is not totally due to the reduction of barriers. It would appear the quantity of 57 channelizers in the bid items would have not been sufficient whether or not barriers are used. This should provide for additional needs near Kodiak Road.

The items affected are:

	Planned	Proposed	Reduction
Line 1130 Impact Attenuator (9 Sand Barrels)	2 ea	0	\$9000
Line 1140 Impact Attenuator (12 sand Barrels)	2ea	0	\$10000
Line 1150 Replacement Sand barrel	4ea	0	\$2000
Line 1160 Impact Attenuator (Relocation)	14	0	\$7000
Line 1250 Temporary Traffic Barrier, contractor furnished and retained	150 LF	0	\$7500
Line 1260 Relocating Temporary Traffic Barrier	750 LF	0	\$7500
Total Reduction			\$43,000
	Planned	Proposed	Additional Costs
Line 12 Channelizer (trim line)	57 @ \$9.50	190	\$1263.50
Total Savings			\$41,736.50

Attached is form C-104. We would like to know if this proposal is acceptable as soon as possible. Thereby if we need to alter current plans for traffic control we can do so. If there are additional questions or clarification needed, please let us know.

Sincerely,



Dwight Sprouls

Attachment

Contract ID: 090522-701

Fed St/Pr Prj Nbr: FAS-S776(11)

Status: Active

Primary PCN: J7S2161

District: 07

OrgCode: 7CC

Funding

- Federal
- State/Province
- Both

Progress Sched:

Variance Pct: .00

Desc: J7S2161, J7U0605B - ROUTE FF - JASPER, NEWTON COUNTIES

Time Charges: COMPLETION DATE

Bid Days: 334

Bid Amt: \$2,814,568.07

Contract Type: Construction Project Above \$500,000

Fed Oversight

Work Type: ASPHALT PROJECTS

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)

\_\_\_\_\_ Construct cross-road drainage under traffic in lieu of placing temporary 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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