

CONSTRUCTION VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Contract ID 071130-805 Job No. J8S0851 Date 6/17/08
County Greene Route 266 Original Bid Cost \$11,889,618.21
Contractor APAC-Missouri, Inc. By Doug Fronick
Designed By APAC-Missouri, Inc. Phone 417-868-6700

VECP 08-53

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

Proposed Change to Temporary Bypass.

The original traffic control plans show building temporary pavement in stage 1 from STA 598+05 – 618+95 (RT) Rt. 266 and stage 2 from STA 595+87.5 – 607+50 (LT) Rt. 266. The temporary pavement is to allow tie-in construction at the west end of Rt. 266. APAC proposes to construct the south leg of Rt. 266 and Airport Blvd intersection with permanent asphalt (highlighted with red on the attached drawing), excluding the SP125 surface, eliminating temporary pavement from STA 604+02.39 – 610+00 (RT). At the east end of Rt. 266 from STA 610+00 – 615+87.5 bit base(yellow) will used to make a smooth transition onto existing Rt. 266 and maintain a 25:1 taper, see attached drawing. At the west end of Rt. 266 from STA 595+30 – 605+50 Bit Base(yellow) will also be used and will butt up next to existing Rt. 266. As mentioned above permanent asphalt (red) will be placed from STA 604+02.39 – 610+00 as shown. Also included in this proposal is a price to clear the fencerow from STA 597+00 – 603+49 (RT). There is a minimum quantity of 1 acre. APAC's proposal eliminates approximately 544 tons of temporary pavement. By extending the box culvert at STA 613+75 before constructing the temporary widening, temporary pipe will not be needed. At STA 597+25 the temporary pavement will be 8' wide. Temporary pipe will not be needed at STA 597+25, because there is 12' from the existing pipe to the edge of pavement. The payment will be based on the actual tons laid, not the calculated tons. The advantages of the change are to provide MODOT with a more cost effective alternative by eliminating unnecessary temporary pavement and also eliminate joints/headers to provide a higher quality roadway. This proposal will also allow APAC to complete construction from STA 600+17.35 – 602+00 that was not addressed in the original staging plans. By accepting this proposal there would be a savings of \$24,026.60 of the Missouri Tax payers' money. Savings will be split 50%/50% (MODOT/APAC) in accordance with the Value Engineering Specifications. Temporary striping quantities and payment will be addressed in the previous temporary striping value engineering proposal.

The estimated net savings is \$24,026.60 See attached sheet showing detailed breakdowns of contract items.

2. Estimate of reduction in construction costs.

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

APAC-Missouri, Inc. foresees no additional costs for MODOT. The changes effect temporary and stage construction.

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

Detailed breakdowns are attached
(date)

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

July 1, 2008

(date)

No change to completion date or schedule.

(effect)

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

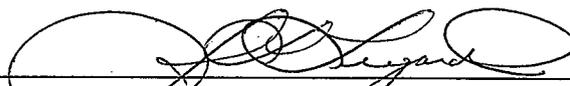
6/2/08
2/26/08

(date and/or dates)

Additional Comments:

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

Comments: I concur that this VE is constructible and provides a product that is of good value for the taxpayer by reducing the cost of construction and inconvenience to the motorists by minimizing the number of detours built on Rte 266. This VE savings should be split 50/50.


Submitted By Resident Engineer

6/26/08

Date

Comments:

Value Engineering Proposal. dot

I concur with the Resident Engineer's recommendation.

- Approval Recommended
- Rejection Recommended

Asst. Mgr. for Kirk Juranas

7/07/08

District Engineer

Date

Comments:

- Approval
- Rejection

David Akers by DMB

7-29-08

State Construction and Materials Engineer

Date

Distribution: Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer
*Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

APAC-Missouri Inc.
 Rt. 266 Greene County
 J8S0851

Rt. 266

STA. 598+05 - 618+95

Current Original Contract						
Item	Description	Quantity	Unit	Unit Price	Total Price	
1270	STA 598+05 - 607+50 RT	504.3	TONS	\$ 48.90	\$ 24,660.27	
1270	STA 607+50 - 618+95 RT	626.2	TONS	\$ 48.90	\$ 30,621.18	
1270	STA 595+87.5 - 607+50 LT	284.5	TONS	\$ 48.90	\$ 13,912.05	
Total				\$	\$ 69,193.50	

V.E. Proposal						
6" Temporary Asphalt						
Item	Description	Quantity	Unit	Unit Price	Total Price	
1270	STA 595+30 - 605+50 (1894 SY)	625	TON	\$ 48.90	\$ 30,562.50	
1270	STA 610+00 - 615+87.5 (528 SY)	246	TON	\$ 48.90	\$ 12,029.40	
1190	STA 598+00 - 608+00	1	ACRE	\$ 2,575.00	\$ 2,575.00	
Total				\$	\$ 45,166.90	



MEMORANDUM

Missouri Department of Transportation

District 8

Springfield Construction

TO: Andy Mueller
Assistant District Engineer

CC:

FROM: Johnny Teegardin
Resident Engineer

DATE: June 26, 2008

SUBJECT: VE Proposal (#5 Revised) – Change to Rte 266 West Detour
Job No.: J8S0851
Route: 266
County: Greene

Please find enclosed for your review, comments, and recommendation/rejection and forward to Construction Division this VE proposal to change the temporary detour on the west end of the project on Rte 266. This change moves the 25:1 taper shown on the plans further west in order to allow the contractor to make all tie-in connections on the west end without having to build and switch traffic onto a second detour as shown on the Stage 2 traffic control plans. In addition, permanent pavement will be installed in designated locations eliminating the need for removal.

I concur that this proposal is both constructible and provides a good value for both MoDOT and our customers and recommend approval. This VE results in an estimated cost savings of \$24,026.00 that will be split 50/50 with the contractor in accordance with Section 104.6 of the Standard Specifications.

Copy: File

jt

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)

____ Revise staging of tie-in to reduce the number of times that traffic will need to be switched. _____

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 proposal only. There is no need to reproduce the plan sheets. _____
