

VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Date July 24, 2009

Contract ID 071221-502

Job No. JSP0590

County Camden Route 5

Original Bid Cost _____

Contractor APAC-Missouri, Inc.

By Mike Crane

Designed By _____

Phone 573-228-7010

VECP # VECP 09-59

VECP or VECPP/PDU

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

APAC proposes to leave in place existing asphalt from approximately stations 84+76.25 – 81+00. will eliminate the need for the temporary bypass, thus producing significant quantity savings and reduced traffic flow interruption on existing Route 5.

This proposal will use planned alignment altering only the grade of the existing roadway turning this area into an overlay instead of tearing out and replacing Route 5. This proposal will lessen the impact on the traveling public and expedite the construction process.

2. Estimate of reduction in construction costs. ~~\$60,210.23~~ \$60,473.⁸⁵₅₅

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

This proposal should not effect any other departments.

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

August 3, 2009
(date)

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

(date)

(effect)

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

None

(date and/or dates)

Additional Comments:

030 Class A Excavation	= 1,796 cu.yds. @ 6.30	= \$ 11,314.80
050 Compaction in Cut	= 3.75 sta. @ \$472.50	= \$ 1,771.88
100 Type 1 Aggregate for Base 4"	= 1,087 sq.yds. @ \$5.38	= \$ 5,848.44 → \$ 5,848. ⁰⁶ 5
130 Bit. Base (tons on bypass)	= 597 tons @ \$41.45	= \$ 24,745.65
130 Bit. Base (proposed new road)	= 345 tons @ \$41.45	= \$ 14,300.25
290 Construction Signs	= 32 sq.ft. @ \$ 6.93	= \$ 221.76
320 Type B Warning Lights	= 8 each @ \$159.9	= \$ 1,279.20
430 4" White (bypass)	= 1,774 lf. @ \$.21	= \$ 372.54
440 4" Yellow	= 215 lf. @ \$.21	= \$ 45.15
380 4" White Tape	= 146 lf. @ \$ 3.10	= \$ 452.60
490 Tape Removal (white edge)	= 146 lf. @ \$.26	= \$ 37.96
390 4" Yellow Tape	= 25 lf. @ \$ 3.10	= \$ 77.50
490 Tape Removal (Yellow skips)	= 25 lf. @ \$.26	= \$ 6.50

Comments: BASED ON COST / TIME SAVINGS WHICH WILL MINIMIZE TRAFFIC DISRUPTION TO BUSINESS RTE. 5 I RECOMMEND APPROVAL OF THIS V.E.

Michael K. O'Malley

Submitted By Resident Engineer

7/29/09

Date

Comments:

Agree with comments above.

Roger Schwartz

District Engineer

7/29/09

Date

- Approval Recommended
- Rejection Recommended

Comments:

Elimination of temporary by-pass 50/50 Split.
Use in place pavement 75/25 split.

Approval

Rejection

David D. Oakes

8-5-09

State Construction and Materials Engineer

BAW

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

V.E. Proposal from 81+00 to 84+76.25

	Qty.	Unit	Price Per Unit	Price	MODOT	APAC	MODOT	APAC	Final MODOT	Final APAC
Class A Excavation	1796.00	Cu Yd	6.30	11314.80	5657.40	5657.40	8486.10	2828.70	8486.10	2828.70
Compaction in Cut	3.75	sta.	472.50	1771.88	885.94	885.94	1328.91	442.97	1328.91	442.97
Type 1 Aggregate for base	1087.00	Sq. yd	5.38	5848.06	2924.03	2924.03	4386.05	1462.02	4386.05	1462.02
Bit Base (Bypass)	597.00	tons	41.45	24745.65	12372.83	12372.83	18559.24	6186.41	12372.83	12372.83
Bit Base (Proposed)	345.00	tons	41.45	14300.25	7150.13	7150.13	10725.19	3575.06	10725.19	3575.06
Construction Signs	32.00	Sq. ft.	6.93	221.76	110.88	110.88	166.32	55.44	110.88	110.88
Type B Warning Lights	8.00	each	159.90	1279.20	639.60	639.60	959.40	319.80	639.60	639.60
4" White (Bypass)	1774.00	L.F.	0.21	372.54	186.27	186.27	279.41	93.14	186.27	186.27
4" Yellow	215.00	L.F.	0.21	45.15	22.58	22.58	33.86	11.29	22.58	22.58
4" White Tape	146.00	L.F.	3.10	452.60	226.30	226.30	339.45	113.15	226.30	226.30
Tape Removal	146.00	L.F.	0.26	37.96	18.98	18.98	28.47	9.49	18.98	18.98
4" Yellow Tape	25.00	L.F.	3.10	77.50	38.75	38.75	58.13	19.38	38.75	38.75
Tape Removal (Yellow Skips)	25.00	L.F.	0.26	6.50	3.25	3.25	4.88	1.63	3.25	3.25
TOTALS				30236.92	30236.92	45355.38	15118.46	38545.67	21928.18	

DIFFERENCE THIS V.E.

8308.75 -8308.75

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 will use in place existing pavement to eliminate the need for temporary bypass. This will be a 50/50 split. Contractor will overlay existing roadway in lieu of remove and replace. This will be a 75/25 split.

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.
