

VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

Conceptual Proposal Final Proposal Date 11/15/2011

Contract ID 100514-501 Job No. J5P0347G

County Camden Rt. 54 Original Bid Cost \$16,758,269.92

Contractor Emery Sapp & Sons, Inc. By Matthew Oesch

Designed By Matthew Oesch Phone 573-489-9216

VECP# 12-08 (to be completed by C.O.) VECP or PDVECP

1. **Description of existing requirements and proposed change(s). Advantages/Disadvantages**
 The following Practical Design Proposal regards changes in staging and pavement type on Jefferies Ramp 1 and Osage Beach Parkway. Driveway into Marina Road will be moved back allowing a large area of the existing US 54 corridor to be left in place. A mill and fill overlay of 1 3/4" will then be placed over the existing 12-24" thick asphalt for final paving surface of Jefferies Ramp 1 and Osage Beach Parkway. This will produce cost savings and allow Jefferies Ramp 1 to be functional before Thanksgiving weekend.

2. **Estimate of reduction in construction costs.** \$76,119.71

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.**
11/15/2011
 (date)

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

11/18/2011 Allow time to line up subcontractor to expedite completion
 (date) (effect)

6. **Dates of any previous or concurrent submission of the same proposal.**
N/A
 (date and/or dates)

Additional Comments:

Spreadsheet detailing cost savings breakdown and remarks included.

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

Comments:

John L Sanders

Digitally signed by John L. Sanders
DN: cn=John L. Sanders, c=US, ou=Construction
and Materials, email=John.Sanders@modot.mo.gov
Date: 2012.03.02 13:48:38 -06'00'

Submitted By Resident Engineer

Date

Comments:

This final VE proposal reflects a cooperative effort between Sapp & MoDOT to salvage existing pavement in place and rework staging of work for earlier completion and improved traffic flow. VE will be a 75/25 split

Approval Recommended

Rejection Recommended

[Signature]

District Engineer

Date

3/2/12

Comments:

N/A

Approval Recommended

Rejection Recommended

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments:

This PDVECP is approved at a 75%/25% cost share.

David D. Brucks

Digitally signed by Dennis Brucks
DN: cn=Dennis Brucks, o=Field Office,
ou=6N25,
email=Dennis.Brucks@modot.mo.gov, c=US
Date: 2012.03.05 10:08:58 -06'00'

Approval

Rejection

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 Proposal for Jefferies Ramp 1 Construction

Original Line Items for Jefferies Ramp 1 & Osage Beach Pkwy

Item	Description	Quantity	Unit	Unit Price	Cost
0070	Class A Excavation	3177	CY	\$3.42	\$10,865.34
0080	Compacting Embankment	1309	CY	\$0.25	\$327.25
0090	Compacting in Cut	6.04	STA	\$515.00	\$3,110.60
0160	18" Rock Fill Base	549	SY	\$1.40	\$768.60
0170	12" Rock Fill Base	585	SY	\$1.40	\$819.00
0180	4" Type 1 Aggr Base	2383	SY	\$6.15	\$14,655.45
0200	A3 Shoulder	362.4	SY	\$17.15	\$6,215.16
0210	BP-1	21.4	TN	\$100.00	\$2,140.00
0220	BIT BASE	49.2	TN	\$85.00	\$4,182.00
0260	Misc 7" Bit Pvmnt	34.4	SY	\$30.24	\$1,040.26
0300	9" Non Reinf PCCP	1798.9	SY	\$42.00	\$75,553.80
0330	Type A Guardrail	241	LF	\$15.00	\$3,615.00
0600	5x3 Grate/Bearing Plate	1	EA	\$1,140.00	\$1,140.00
1040	18" CMP Grp C	24	LF	\$35.00	\$840.00
1050	21" CMP Grp C	173	LF	\$41.00	\$7,093.00
1100	21" RCP	79	LF	\$41.00	\$3,239.00
1270	5x3 Drop Inlet	5	LF	\$217.00	\$1,085.00
1320	21" Precast FES	1	EA	\$656.00	\$656.00
1620	9" Non Reinf PCCP (main line)	427	SY	\$26.55	\$11,336.85

Total Cost \$148,682.31

Proposed Line Items for New Construction Extents

USED					
Item	Description	Quantity	Unit	Unit Price	Cost
6001	LB & EQP for Grading & Concrete	1	LS	\$13,225.00	\$13,225.00
6002	Mob & Mill-Out-Old 54	1	LS	\$6,500.00	\$6,500.00
6004	Super Pave 64-22 Oil	374	TN	\$121.00	\$45,254.00
1030	15" CMP Grp C	78	LF	\$34.00	\$2,652.00
1050	21" CMP	70	LF	\$41.00	\$2,870.00
xxxx	21" RCP (Invoice Cost)	56	LF	\$12.35	\$691.60
xxxx	5x3 Grate/Bearing Plate (Invoice C	1	EA	\$895.00	\$895.00
xxxx	5x3 Drop Inlet (Invoice Cost)	5	LF	\$95.00	\$475.00

Total Cost \$72,562.60

Cost Savings

\$148,682.31

-\$72,562.60

Total Cost Savings from VE Proposal \$76,119.71

MODOT Cost Savings (75%)

\$57,089.78

ESS Cost Savings (25%)

\$19,029.93

Remarks

Unclassified Exc off Jeff R1 & Osg Pkwy

Comp Embk off Osg Pkwy

Cut Comp off Jeff R1 & Osg Pkwy

RB off Jeff R1 + Rte 54 168+71-171+50 area outside 26' width

RB off Jeff R1

All Type 1 was saved, rock base was placed under 9" PCCP on Jeff R3; Drive west of Marina RD Eliminated due to VE

A3 Shld off Jeff R1, Osage Pkwy, & Marina Rd

Drive west of Marina RD Eliminated due to VE

Drive west of Marina RD Eliminated due to VE

Marina Rd Under-run

Total area of Osage Pkwy, Jeff R1, and Jeff Ramp 3 minus 238.5 SY poured on Jeff R3 at Tie-in to parkway

Guardrail shortened up from 170+00-3+45 by leaving second drive at Bridgeport Marina in place

Structure D13

Drive west of Marina RD Eliminated due to VE

Pipe run P30

Pipe run P29

Structure D13

Pipe Run P29

Area of ML pvmt from 168+71-171+50 reduced by only paving 26' wide, remainder paved in asphalt overlay via VE

Remark

Change Order Item

Change Order Item

Change Order Item

Installed in earth island at bridge port

Installed in ditch west of Marina Rd then filled over

Reimbursement for already delivered material

Reimbursement for already delivered material

Reimbursement for already delivered material

