

Additional Comments:

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

Comments: This proposal should reduce construction time and will provide significant savings to the project. In addition, MoDOT's pavement design section has concurred the shoulder area should sustain temporary traffic as needed for the project. As such, the RE office is recommending approval of this 50/50 VE. Please note, if any corrections are required, ESS has agreed to monetarily participate in corrections as indicated in their cover letter.

 Digitally signed by Gregory R. Chapman, P.E.
DN: cn=Gregory R. Chapman, P.E., o=MoDOT, ou=Legislative Construction, email=gregorchapman@modot.mo.gov, c=US
Date: 2012.08.31 16:27:01 -05'00'

Submitted By Resident Engineer 8/31/12
Date

Comments:

I concur.

 Digitally signed by Marilyn Gabriel
DN: cn=Marilyn Gabriel, o=MoDOT, ou=Construction and Materials, email=Marilyn.Gabriel@modot.mo.gov, c=US
Date: 2012.09.05 06:14:11 -05'00'

Approval Recommended Date
 Rejection Recommended
District Engineer

Comments:

I concur.

 Digitally signed by Felix R. Gonzalez
DN: cn=Felix R. Gonzalez, o, ou, email=felix.r.gonzalez@dot.gov, c=US
Date: 2012.09.13 13:04:39 -05'00'

Approval Recommended Date
 Rejection Recommended
Federal Highway Administration
Required for FHWA Full Oversight Projects

Comments:

Approved per District recommendation at 50/50 split.

 Digitally signed by Dennis Bryant
DN: cn=Dennis Bryant, o=MoDOT, ou=3H35, email=dennis.bryant@modot.mo.gov, c=US
Date: 2012.09.17 08:40:14 -05'00'

Approval Date
 Rejection
State Construction and Materials Engineer

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



PH 573 445 3391
F 573 446 0208

5402 WORTH STADIUM BLVD.
COLUMBIA, MO 65202

WWW.EMERYSAPP.COM

August 30, 2012

Mr. Greg Chapman, R.E.
Missouri Dept. of Transportation
1501 Malcolm Mosby Dr.
Neosho, MO 64850

**RE: Value Engineering Optional Shoulders
Rt I-44 Newton Cty
Job J710691**

Mr. Chapman:

This letter is being submitted in regards to the attached Value Engineering Proposal for the elimination of the Optional Shoulders. The current design calls for the removal and replacement of the existing outside shoulders on I-44 between the loop ramps and the sweeping ramps. We elected to core the existing shoulders to verify the quality and depth of the existing asphalt. Our investigation revealed that these shoulders consisted of 10 IN of sound asphalt. With this discovery we are requesting to eliminate the Temporary Optional Shoulders. Approval of this Value Engineering will result in the following modifications to the existing design.

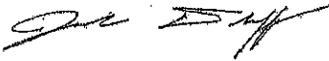
1. By leaving the exiting shoulders in place MoDOT will be able to completely under run the Optional Shoulders, Type 5 Aggregate Base and Compacting In Cut beneath the Optional Shoulders, as well as the budget for Shaping Slopes in each of these areas.
2. With the elimination of the Optional Shoulders it will be necessary to mill and overlay the existing shoulders to remove the current rumble strips. A budget quantity for the mill and overlay is Included In the Value Engineering for the entire length and full width of these existing shoulders.
3. The elimination of the products listed in item 1 also resulted in the elimination of the Type F Traffic Barrier and Impact Attenuators needed for protection of this work. The Type F Barrier originally budgeted for the protection of this work will still be needed in Stage 2 on I-44. Although the complete elimination of the Type F Barrier is not feasible we will still be able to eliminate a significant quantity of Type F Barrier Relocation. It is not apparent at this time that

the Impact Attenuators will be needed in future phasing. Our subcontractor PCI Roads purchased and mobilized all of the Impact Attenuators which were eliminated prior to this proposed design modification. In order to cover their expenses already incurred they are requesting to be paid for half of the contract amount for this items eliminated.

Attached you will find a complete breakdown of all quantities and cost associated with the modifications listed above. In order to expedite the approval process Emery Sapp & Sons is willing to split any unforeseen costs equal to our share of the total savings realized for possible repairs needed to these optional shoulders. We do not foresee any issues with the existing shoulders and believe the acceptance of this Value Engineering Proposal will benefit the project in numerous ways. This design modification will reduce the duration of Stage 1 on I-44 by several days, increase the safety of the traveling public due to the elimination of several lane closures, and provide a temporary product of equal or better value which will be removed at the completion of the project at a significant savings. Please review the attached proposal and let me know if you have any questions.

Sincerely,

Emery Sapp & Sons, Inc.



Digitally signed by Josh Doerhoff
DN: cn=Josh Doerhoff, o=Emery Sapp
& Sons Inc, ou,
email=josh.doerhoff@emerysapp.com,
c=US
Date: 2012.08.30 09:44:04 -05'00'

Josh Doerhoff
Project Manager



Newton Cty J710691

Optional Shoulders left in Place with Coldmilling & Overlay

-1	X	Asphalt Mixture PG 76-22 (SP095BSM)	285.7	TNS	X	\$	112.50	/TN	\$	(32,141.25)
-1	X	Coldmilling	3,071.8	SY	X	\$	5.25	/SY	\$	(16,126.95)
-1	X	Asphalt Coring - Anderson Engineering	1.0	LS	X	\$	2,074.32	/LS	\$	(2,074.32)
-1	X	Misc Cost for Material	1.0	LS	X	\$	6,075.00	/EA	\$	(6,075.00)
1	X	Shaping Slopes	27.0	STA	X	\$	180.00	/STA	\$	4,860.00
1	X	Optional Shoulders	2,907.0	SY	X	\$	39.70	/SY	\$	115,407.90
1	X	Type 5 Aggregate Base	2,907.0	SY	X	\$	4.40	/SY	\$	12,790.80
1	X	Compacting in Cut	27.7	STA	X	\$	485.00	/STA	\$	13,434.50
1	X	Type F Barrier Wall Relocation	3,092.5	LF	X	\$	3.78	/LF	\$	11,689.65
1	X	Impact Attenuators (19 Barrel)	3.0	EA	X	\$	2,750.00	/EA	\$	8,250.00
1	X	Impact Attenuators (9 Barrel)	2.0	EA	X	\$	1,950.00	/EA	\$	3,900.00

TOTAL SAVINGS = \$ 113,915.33

Job # J710691

Contract ID: 120525-G01

VE: Optional Shoulders Left in Place with Coldmilling and Overlay

Line Number	Description	Quantity	Units	Unit Price	Total
0140	Asphalt Mixture PG 76-22 (SP095BSM)	285.7	Tons	\$112.50	\$32,141.25
0840	Coldmilling	3071.8	SQYD	\$5.25	\$16,126.95
50XX	Asphalt Coring	1	LS	\$2,074.32	\$2,074.32
50XX	Misc. Cost for Material	1	LS	\$6,075.00	\$6,075.00
0090	Shaping Slopes	-27.0	STA	\$180.00	-\$4,860.00
0160	Optional Shoulders	-2907.0	SQYD	\$39.70	-\$115,407.90
0110	Type 5 Aggregate for Base	-2907.0	SQYD	\$4.40	-\$12,790.80
0050	Compacting in Cut	-27.7	STA	\$485.00	-\$13,434.50
0680	Type F Barrier Wall (Relocation)	-3092.5	LF	\$3.78	-\$11,689.65
0470	Impact Attenuators (19 Barrel)	-3	EACH	\$2,750.00	-\$8,250.00
0460	Impact Attenuators (9 Barrel)	-2	EACH	\$1,950.00	-\$3,900.00
	Total			Total	-\$113,915.33