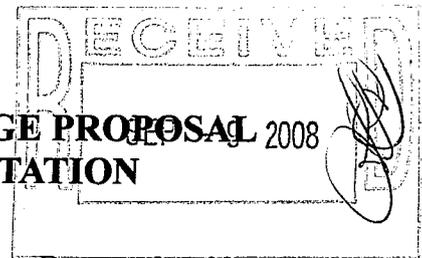


CONSTRUCTION VALUE ENGINEERING CHANGE PROPOSAL 2008
MISSOURI DEPARTMENT OF TRANSPORTATION



Date 9-5-08

Contract ID 071130-805 Job No. J8S0851 and J8S0795
 County Greene Route 266 & Airport Blvd. Original Bid Cost \$11,889,618.21
 Contractor APAC-Missouri, Inc. By Doug Fronick
 Designed By APAC-Missouri, Inc. Phone 417-868-6700

VECP 08-81

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

The original typical section for Rt. 266 and Airport Blvd was designed for 12" Superpave over 4" Type 5 base rock and the connector roads were 10" Superpave over 4" Type 1 base rock. APAC-Missouri, Inc. proposes to substitute 12" rock base instead of the 4" base rock in the following areas:

J8S0795

Airport Blvd: STA 36+49.49 (South end of the RR Bridge) to STA 74+70.98 20,521.7 SY

J8S0851

Rt. 266:	STA 615+00 to STA 652+00	36,177.8 SY
Golf Road North	STA 8+10 to STA 9+66	1,102.2 SY
Golf Road South	STA 10+34 to STA 14+40	2,515.4 SY
Haseltine South	STA 35+65.56 to STA 31+57.35	2,533.3 SY
Haseltine North	STA 11+42.67 to STA 30+88.4 (445 SY was changed in previous V.E.)	7,355 SY

The 12" rock base will be paid for at the same unit prices as the 4" base rock:

J8S0795	Item 780 12" Rock Base instead of 4" Type 5 Base	20,521.7 SY @ \$3.28/SY
J8S0851	Item 2110 12" Rock Base instead of 4" Type 5 Base	36,177.8 SY @ \$3.70/SY
	Item 2100 12" Rock Base instead of 4" Type 1 Base	13,505.9 SY @ \$4.16/SY

The change to rock base in the above areas has allowed the pavement thickness to be decreased by 2" except for Haseltine North which will remain the same as the original typical sections. The 2" will be removed from the bottom lift of SP250C/E 64-22. The original profile grade will remain the same with all the changes. The following is a breakdown of the asphalt lifts:

Airport Blvd and Rt. 266 12" asphalt changed to 10"

Original lift thicknesses

1-3/4" SP125C 70-22
 3" SP250C 70-22
 7-1/4" SP250C 64-22

Changed lift thicknesses

1-3/4" SP125C 70-22
 3" SP250C 70-22
 5-1/4" SP250C 64-22

Golf Road North, Golf Road South, and Haseltine South 10" asphalt changed to 8"

Original lift thicknesses

1-3/4" SP125C 64-22
 8-1/4" SP250E 64-22

Changed lift thicknesses

1-3/4" SP125C 64-22
 6-1/4" SP250E 64-22

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

Comments: I AGREE THAT THIS VE IS CONSTRUCTABLE AND PROVIDES GOOD VALUE TO MODOT AND THE TAXPAYERS OF MISSOURI. IN ADDITION, THIS VE WAS REVIEWED AND APPROVED BY THE PROJECT MANAGER. THE NEW PAVEMENT THICKNESSES WERE DETERMINED BY THE CENTRAL OFFICE PAVEMENT SELECTION TEAM BASED ON THE CHANGE FROM 4" TYPE 1 AND 5 BASE TO 12" ROCK FILL BASE (RFB). THE MATERIAL FOR THE RFB WILL COME FROM THE SPRINGFIELD UNDERGROUND, INC. JUST NORTH OF RTE 266.


Submitted By Resident Engineer

9/11/08

Date

Comments: I concur with the Resident Engineer and recommend approval. The pavement selection team has verified that this change does provide an equivalent performing product at a reduced cost.

Approval Recommended

Rejection Recommended


District Engineer

9/15/08

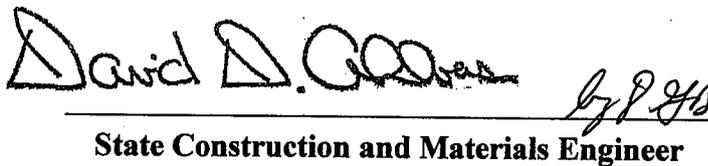
Date

Comments:

APPROVED ACCORDING TO DISTRICT RECOMMENDATION

Approval

Rejection


State Construction and Materials Engineer

9-22-08

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



MEMORANDUM

Missouri Department of Transportation

District 8
Springfield Construction

TO: Andy Mueller
Assistant District Engineer

CC:

FROM: Johnny Teegardin 
Resident Engineer

DATE: September 11, 2008

SUBJECT: VE Proposal # 8 – Change to 12” Rock Fill Base
Job No.: J8S0795/851
Route: Airport BLVD / 266
County: Greene

Please find enclosed for your review, comments, and recommendation/rejection and forward to Construction Division this VE proposal to use 12” Rock Fill Base (RFB) in lieu of the proposed 4” Type 1 and 5 bases under the relocated Airport BLVD and Rte 266 pavements. The 12” RFB will be paid utilizing the unit prices for Type 1 and 5 base resulting in no cost savings. However, the Project Manager and Central Office Pavement Selection Team reviewed this proposal and recommended a 2” reduction in asphalt paving thicknesses resulting in a net savings of \$184,274.20. This savings shall be split 50/50 due to agreement with contractor who submitted the original VE.

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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)

_____ Reduce full depth pavement thickness by using Rock Fill Base in lieu of the planned aggregate base. _____

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.
