

VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

Conceptual Proposal Final Proposal Date 02-08-2010

Contract ID 091218-605 Job No. J6P2139

County Franklin Original Bid Cost 2,141,168

Contractor NB West Contracting By Tim Schulte

Designed By Tim Schroeder Phone 314-962-3145

VECP# 10-11 (to be completed by C.O.) VECP or PDVECP

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages
Level the roadway with SP095. Overlay mainline, shoulders and side roads with SP125CLP.

Propose to substitute the asphalt on the shoulder and side roads from a SP125CLP mix to a BP-1 mix.

2. Estimate of reduction in construction costs. \$ 56,929.00 (\$ 14,232.00 & \$ 42,697.00)

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.

2-8-2010
(date)

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

2-12-2010 Production of aggregates can not begin until VE is approved to determine how much rock is required for each mix type.
(date) (effect)

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

1-26-2010
(date and/or dates)

Additional Comments:

The previous submittal proposed a switch on the surface mix type. At this time we are going to use the original mix design with SP125CLP for the mainline pavement and switch the shoulder mix to BP-1. This concept is considered to be a practical design change and would be split out at 25%/75% savings. Please review the revised typical section and calculation sheets.

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

Comments:

I recommend approval of PDVECP#1. The Franklin County Area Team, District 6 Materials, and the Support Center all concur with utilizing BP-1 on the shoulders in lieu of the original plan SP125CLP as long as the construction joint is outside the rumble stripe - see attached typical section (13'6" from centerline). This PDVECP#1 will result in a significant cost savings to MoDOT.

Tim Hellebusch D.P.

Submitted By Resident Engineer

2-11-10

Date

Comments:

I AM IN AGREEMENT WITH THE ABOVE AND RECOMMEND APPROVAL.
CONTRACTOR IS TO FOLLOW ALL THE SPECIFICATIONS FOR PLACEMENT OF BP-1 MIX
AND PROVIDE ACCEPTABLE RESULTS IN THE FIELD.

Approval
Recommended

Rejection
Recommended

Ed Hines

District Engineer

3-8-10

Date

Comments:

N/A

Approval
Recommended

Rejection
Recommended

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments:

Approved on the basis of the district's comments. 3/10/2010 Denis Glascock

Approval

Rejection

David D. Coover

State Construction and Materials Engineer

Digitally signed by Denis Glascock
DN: cn=Denis Glascock, c=US, o=MoDOT,
ou=3H35, email=Denis.Glascock@modot.mo.gov
Date: 2010.03.10 09:54:05 -05'00'

3/10/2010

Date

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Since 1956

February 8, 2010

Modot
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St Clair, MO 63077

091218-605
J6P2139
Rte 47
Franklin County

Revised VE

We are providing a revised typical section and calculation for the new VE concept. The main savings is still provided by substituting BP-1 for the SP125CLP on the shoulders and entrances. See Below

Rte 47 will still be wedge leveled with the SP095C mix.

- Change the asphalt on the shoulders and entrances from SP125CLP 70-22 @ \$ 67.94 to BP-1 64-22 @ \$ 58.25.

| | |
|----------------------|-----------------|
| Mainline plan qty | 17,020.4 Tons |
| Deduct shoulder qty | (4,679.0 Tons) |
| Deduct entrances qty | (1,196.0 Tons) |

New shoulder & entrance 5,875.0 Tons X \$ 58.25 = \$ 342,218.75

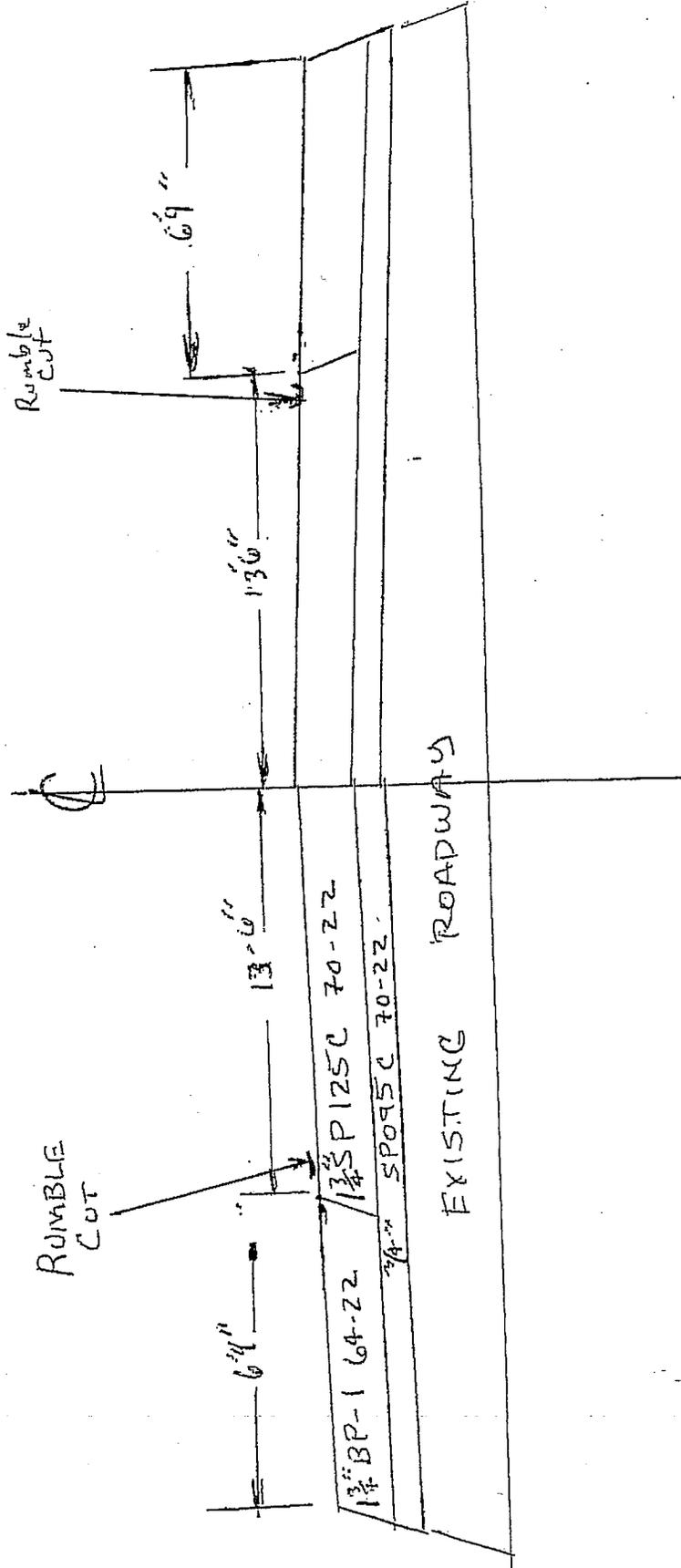
(\$67.94-\$58.25) \$9.69 X 5,875.0 \$ 56,928.75

Proposed savings for NB West \$ 14,232.00 & MODOT \$ 42,697.00)

Sincerely,

Tim Schulte
Vice President Highway Operations

NEW TYPICAL PROPOSAL RTE 47



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)

This VE involves downgrading the paving material on the shoulder from SP125CLP to BP-1.

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.
