10D

Rte 5

Form C-104
Rev. 10/07

VE No. 11-35

VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Date 05/20/11

Contract ID 110218-503 | Job No. J5P2158

County Moniteau/Morgan | Route 5 | Original Bid Cost 2,934,530.26

Contractor APAC-Missouri, Inc. | By Casey Castrop

Designed By MoDOT | Phone 573-449-0886

VECP # 11-35 | VECP ☒ or VECP/PDU

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

Plans call for 1,191.6 SYDS Modified Coldmilling Depth Transitions at LM 0.004 on J5P2158 for transition into Rte. 50. APAC's operations are to first pave Rte. 50 (J5P0961), leaving the intersections of Rte. 5 elevated 1.75". We will then pave Rte. 5 from the 1.75" elevation left on Rte. 50. Thus eliminating any need for the Modified Coldmilling Depth Transitions, and saving MoDOT $5,243.04. This will expedite the project and lessen the impact on the traveling public. Please see the attached cost savings sheet.

2. Estimate of reduction in construction costs. $5,243.04

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

None anticipated

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

_____
(date)

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

May 20, 2011 _____
(date) (effect)

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

_____

(date and/or dates)

Additional Comments:

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

Comments: Due to Job. No. J5P2158 & Job No. J5P0961 adjoining at the intersection of Rte 5 & Rte 50 in Tipton, it is unnecessary to perform modified cold mill depth transitions at this location. Therefore, this 50% VE proposal is acceptable.

Terry Schroff — 5-20-11

Submitted By Resident Engineer — Date

Comments:

Agree with comments above. Proposal makes sense and is the right thing to do. given the circumstances, and APAC's willingness to coordinate operations among the projects.

☒ **Approval Recommended**

☐ **Rejection Recommended**

Roger Schwartz — 5/24/11

Asst. District Engineer — Date

Eric Schroeder by DC

Comments:

Concur with comments above.

☒ **Approval**

☐ **Rejection**

David D. Alvarez — 6-8-11

Digitally signed by Travis Koestner
DN: cn=Travis Koestner, o=Missouri Department of Transportation, ou=Assistant State Construction and Materials Engineer, email=travis.koestner@modot.mo.gov, c=US
Date: 2011.06.08 07:55:33 -05'00'

State Construction and Materials Engineer — Date

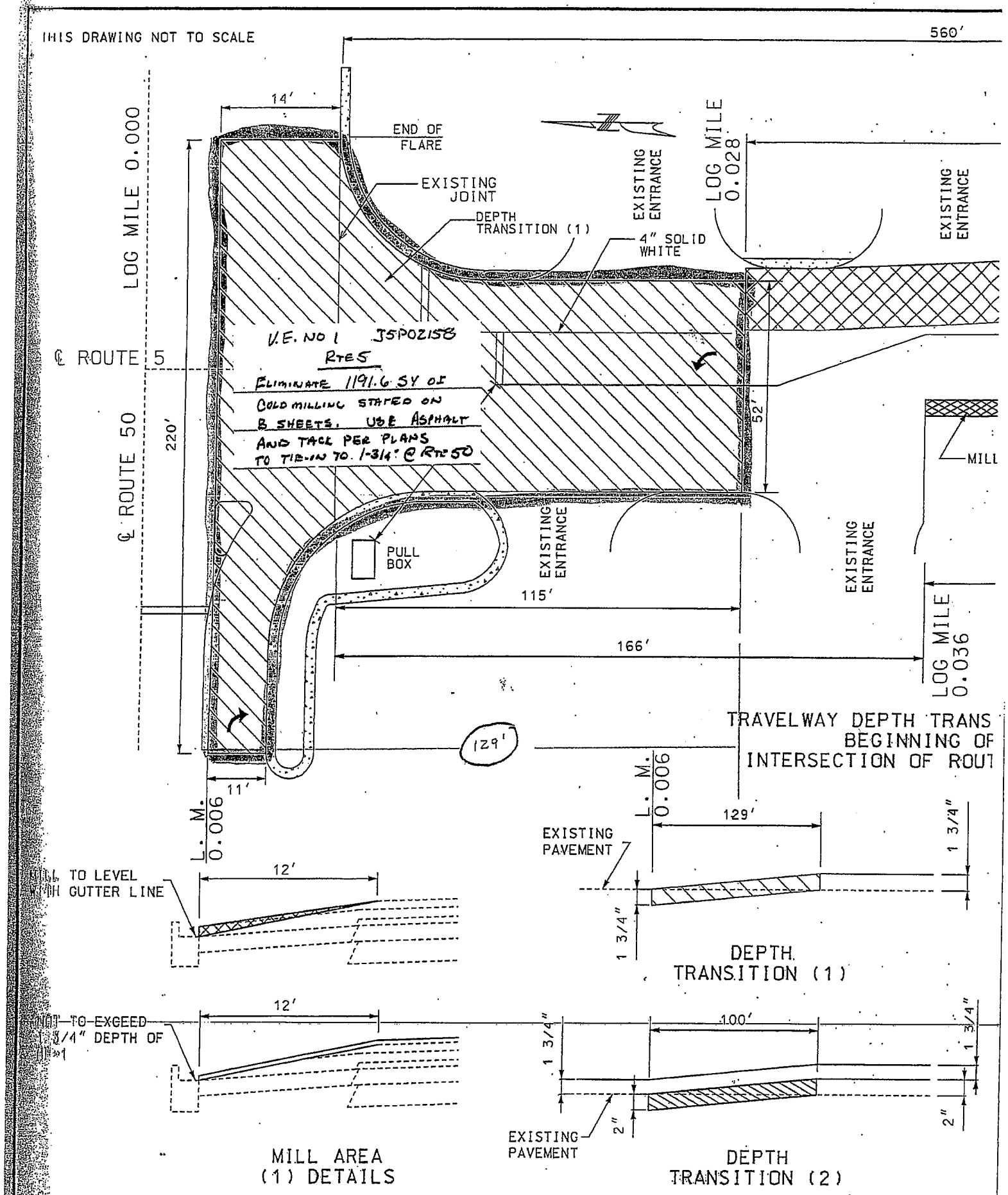
Distribution: Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer
*Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

Rt. 5 Moniteau/Morgan Counties
J5P2158
ID# 110218-503

VE #1 - @ LM 0.004 - Begin Project Depth Transition - Rt. 5 (J5P2158)

Item	310	**J5P2158** Depth Transitions - 1,191.6 SQYD @ $4.40/SQYD	**Savings**	**$5,243.04**

Total Savings	**$5,243.04**
Total Savings MoDOT	**$2,621.52**
Total Savings APAC	**$2,621.52**


THIS DRAWING NOT TO SCALE
560'
14'
END OF FLARE
EXISTING JOINT
DEPTH TRANSITION (1)
4" SOLID WHITE
EXISTING ENTRANCE
LOG MILE 0.028
EXISTING ENTRANCE
LOG MILE 0.000
℄ ROUTE 5
℄ ROUTE 50
220'
V.E. NO 1 J5P0215B
RTE 5
ELIMINATE 1191.6 SY OF
COLD MILLING STATED ON
B SHEETS. USE ASPHALT
AND TACK PER PLANS
TO TIE-IN TO 1-3/4" @ RTE 50
52'
MILL
PULL BOX
EXISTING ENTRANCE
EXISTING ENTRANCE
115'
166'
LOG MILE 0.036
TRAVELWAY DEPTH TRANS
BEGINNING OF
INTERSECTION OF ROUT
129'
11'
L. M. 0.006
L. M. 0.006
129'
EXISTING PAVEMENT
1 3/4"
1 3/4"
MILL TO LEVEL WITH GUTTER LINE
12'
DEPTH TRANSITION (1)
NOT TO EXCEED 1 3/4" DEPTH OF MILL
12'
1 3/4"
100'
1 3/4"
2"
2"
EXISTING PAVEMENT
MILL AREA (1) DETAILS
DEPTH TRANSITION (2)

MISSOURI HIGHWAYS AND TRANSPORTA

SUMMARY OF QUANTITIES

GUARDRAIL

LOG MILE	LOG MILE	LENGTH FT.	LOCATION	GUARDRAIL TYPE A W/ 7' POST L.F.	BRIDGE ANCHOR SECTION EACH	TRANSITION SECTION EACH	TERMINAL SECTION EACH	TYPE A CRASHWORTHY END TERMINAL EACH
1.526	1.567	218.15	LT.	150.0	1	1		1
1.497	1.567	368.15	RT.	300.0	1	1		1
1.582	1.652	368.15	LT.	300.0	1	1		1
1.582	1.601	218.15	RT.	150.0	1	1	1	
6.959	6.987	150.0	LT.	100.0				1
6.937	6.994	300.0	RT.	250.0				1
7.069	7.126	300.0	LT.	250.0				1
7.076	7.111	185.0	RT.	135.0				1
			TOTAL	1635.0	4	4	1	7
			USE	1635	4	4	1	7

CONCRETE SIDEWALK, 4 IN.

LOG MILE	LOG MILE	LOCATION	LENGTH FEET	WIDTH FEET	QUANTITY S.Y.	TRUNCATED DOMES S.F. *	
5.941	5.941	RT. ROUTE 5 RT.	17.3333	5.00	9.6	10.0	INCLUDES ALL GRADING, TRUNCATED DOMES AND
5.945	6.102	RT. ROUTE 5 RT.	835.0	5.00	463.9	40.0	INCLUDES ALL GRADING, TRUNCATED DOMES AND
				TOTAL	473.5	50.0	
				USE	473.5	50	* FOR INFORMATIONAL PURPOSES ONLY

COLD MILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3" THICK OR LESS)

LOG MILE	LOCATION	LENGTH FEET *	WIDTH FEET *	MODIFIED COLDMILLING SQ.YD.	REMARKS
0.036	ROUTE 5 RT.	80.0	4	35.6	SHOULDER AREA - MILL AREA (2)
			TOTAL	36	* LENGTHS AND WIDTHS ARE APPROXIMATE

MODIFIED COLD MILLING (DEPTH TRANSITIONS)

LOG MILE	LOCATION	LENGTH FEET *	WIDTH FEET *	MODIFIED COLDMILLING DEPTH TRANSITION SQ.YD.	REMARKS
* 0.004	ROUTE 5	129.0	VAR.	1191.6	BEGIN OF PROJECT - SEE SHEET 7 FOR DETAILS
14.263	ROUTE 5	87.5	40	388.9	END OF PROJECT
0.112	ROUTE 5	100.0	34	377.8	FROM 2" DEPTH TO 0" DEPTH
1.530	ROUTE 5	87.5	42	408.3	NORTH OF WILLOW FORK CREEK BRIDGE
1.582	ROUTE 5	87.5	42	408.3	SOUTH OF WILLOW FORK CREEK BRIDGE
1.976	ROUTE 5 - RT.	65.0	VAR.	337.0	ROUTE NN
5.496	ROUTE 5 - LT.	80.0	VAR.	400.0	ROUTE W
5.896	ROUTE 5 - RT.	35.0	VAR.	90.7	ROUTE Z
6.955	ROUTE 5	87.5	38	369.4	NORTH OF MOREAU CREEK BRIDGE
7.072	ROUTE 5	87.5	38	369.4	SOUTH OF MOREAU CREEK BRIDGE
10.159	ROUTE 5 - LT.	35.0	VAR.	168.5	ROUTE HH
5.975	ROUTE 5 - RT.	12.0	8	10.7	ALLEY
5.995	ROUTE 5 - RT.	12.0	8	10.7	PRIVATE ENTRANCE
6.002	ROUTE 5 - RT.	12.0	8	10.7	PRIVATE ENTRANCE
			TOTAL	4542	* LENGTHS AND WIDTHS ARE APPROXIMATE

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- X Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

_____Due to same contractor having three jobs there can be savings in the intersection transition from project to project.

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.