Form C-104
Rev. 5/2000

CONSTRUCTION VALUE ENGINEERNG CONCEPT PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Date 7/22/09

Contract ID 090123-611

Job No. J6S2027

County Jefferson

Route MM

Original Bid Cost $6,523,990.00

Contractor Fred Weber, Inc.

By Don McGraw

Designed By

Phone 314-792-6720

VECP 09-63

1. **Description of existing requirements and proposed change(s). Advantages/Disadvantages**
   Existing plans provide for 4 inches of Type 1 Base Rock beneath 7 inches of bituminous temporary pavement.

   The temporary pavement will be placed on a stable rock fill base for a short duration and removed in a later stage. Because of the short duration of usage for the temporary pavement and the stability of the rock base used to build the roadway fill the elimination of the 4 inches of Type 1 base will not effect the service of the temporary pavement and provide a cost savings.

2. **Estimate of reduction in construction costs.** $33,564.35

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. N/A**

5. **Deadline for issuing a change order to obtain maximum cost reduction, noting the effect on contract completion time or delivery schedule. 8/15/09**

6. **Dates of any previous or concurrent submissions of the same proposal. N/A**

RECEIVED
AUG - 7 2009
BY:

Additional comments:

*** For District Use Only***

Comments:

I have discussed this proposal with the project Manager and MoDOT District 6 Materials Dept and we feel that this method/product is Acceptable. The project Manager & I feel that this proposal meets more the criteria of a "Practical Design" in Lieu of a Value Engineering Proposal.

Submitted By Resident Engineer — Date: 8/4/09

Comments:

I AGREE THAT THIS SHOULD BE A PRACTICAL DESIGN VE. 75/25.

[M]

Approval Recommended

Rejection Recommended

District Engineer — Date: 8-10-09

Comments:

This VE is acceptable. The contractor will be responsible for the maintenance of the temporary pavement. Denis Glascock 8/10/2009

Approval

Rejection

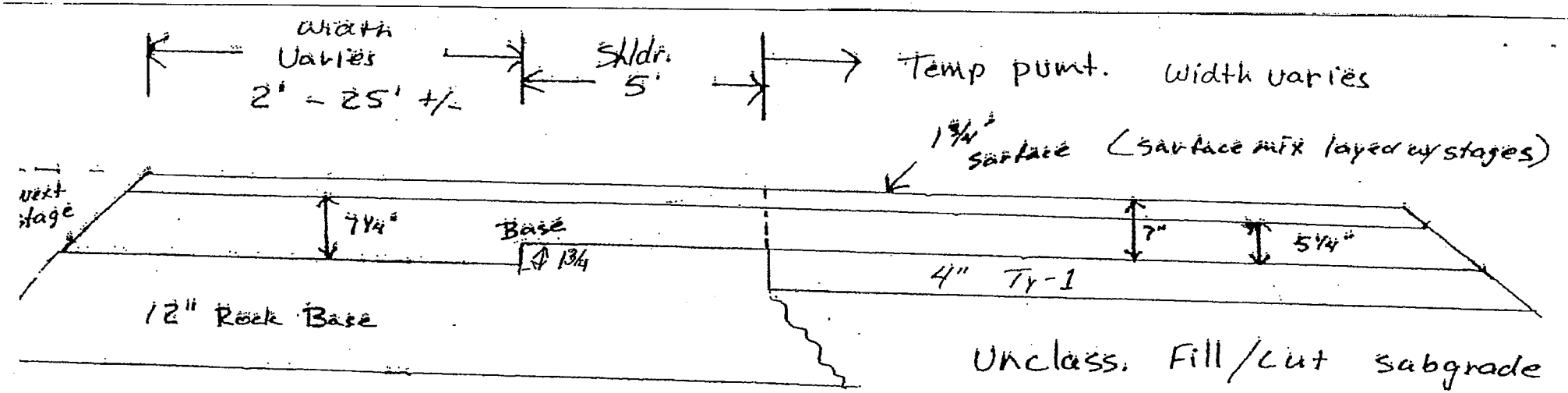
Division Engineer, Construction — Date: 8-12-09

Distribution: Resident Engineer, Operations Engineer, Division Engineer – Construction; Value Engineering Administrator, MoDOT, P.O. Box 270, Jefferson City, MO 65102
Project Manager

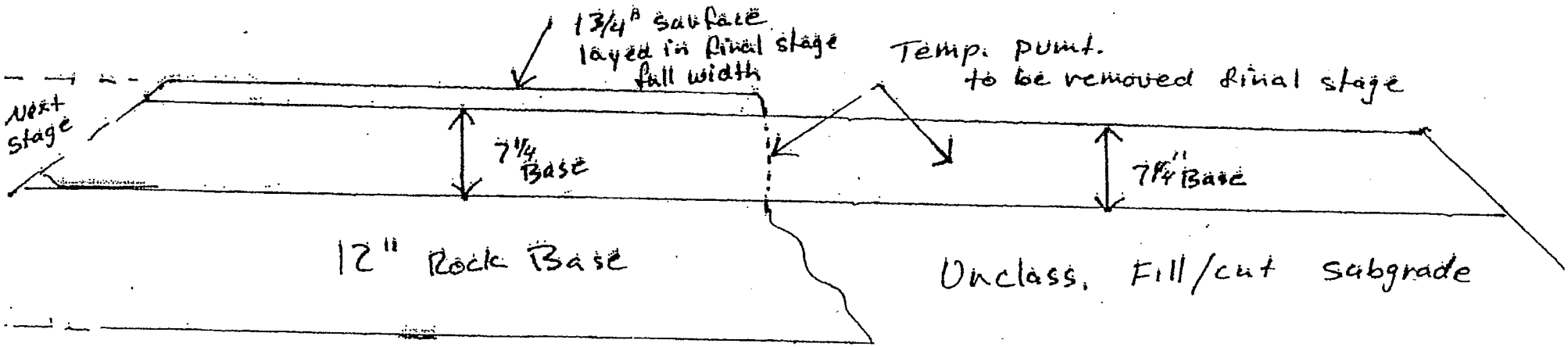
Rte MM VE Design on Temp Pavement base

Station	Station	Sta. Length (ft)	Opt. 7" Asphalt Pvmt S.Y.	5' Shoulder S.Y.	Type 1 Agg. S.Y.
2500.00	3050.00	550.00	755.0	305.56	449.44
3250.00	3700.00	450.00	600.0	250.00	350.00
4384.43	6400.00	2015.57	1484.1	1119.76	364.34
13994.71	14700.00	705.29	503.5	391.83	111.67
17100.00	18214.25	1114.25	685.0	619.03	65.97
13250.00	14150.00	900.00	2249.6	500.00	1749.60
13050.00	13250.00	200.00	416.0	111.11	304.89
16700.00	17850.00	1150.00	2167.5	638.89	1528.61
2340.00	2500.00	160.00	170.4	88.89	81.51
3050.00	3250.00	200.00	388.9	111.11	277.79
3700.00	4384.43	684.43	355.8	380.24	0.00
3700.00	4384.43	684.43	468.7	380.24	88.46
6400.00	6600.00	200.00	242.2	111.11	131.09
6400.00	6600.00	200.00	120.9	111.11	9.79
17850.00	18214.25	364.25	360.8	202.36	158.44
12770.09	13050	279.91	282.4	155.51	126.89
3000	3200	200.00	25.0	111.11	0.00
				0.00	0.00
15800	16050	250.00	443.0	138.89	304.11
	Totals =		11718.8	5726.74	6102.61

Total Cost = 33564.36111 $5.50



Plan stg. 1A



Proposed change to plan.

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. - Base eliminated

SUMMARY OF PROPOSAL

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

This VE involves the placement of temporary pavement without using aggregate base in an area where the subgrade is adequate for the life of the pavement.

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.