

VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

Conceptual Proposal **Final Proposal** **Date** 1/16/13

Contract ID 121116-F01 **Job No.** J6I1248

County St. Louis City **Original Bid Cost** \$17,923,239.90

Contractor Fred Weber, Inc. **By** Brandon Bates

Designed By MODOT **Phone** (314) 210-0833

VECP# 13-04 (to be completed by C.O.) **VECP** **or** **PDVECP**

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

Existing: Construct I-64 with staging according to Job J6I1248 staging plans.

Proposed: Fred Weber, Inc. proposes to alter Stage 1 thru 3 to eliminate the temporary asphalt wedge and minimize the amount of pinned temporary traffic barrier in new pavement. Will allow construction of the North and South End Bents of Taylor and Newstead Bridges to occur simultaneously.

2. Estimate of reduction in construction costs. \$77,348

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

Eliminates the damage to the new pavement caused by the pinned temporary traffic barrier.

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.

2/28/2013 Progress of Project
(date) (effect)

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

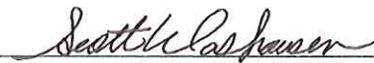
N/A
(date and/or dates)

Additional Comments:

Please see attached for Price Breakdown and Proposed Stage Changes.

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

Comments: T This VE conceptual proposal was reviewed by MoDOT's St Louis City Area Team (RE, PM, AE, SHD, MS, Traffic Engineers). This redesign does provide a savings to MoDOT. Therefore, I along with the St Louis City Area Team recommend this VE conceptual proposal be approved.


Submitted By Resident Engineer

1/23/13
Date

Comments:

Approval Recommended _____
 Rejection Recommended _____

District Engineer

Date

Comments:

Approval Recommended _____
 Rejection Recommended _____

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments:

Approval _____
 Rejection _____

State Construction and Materials Engineer

Date

Project Number	Line Item Number	Description	Units	Units Previously Provided For	Units To Be Constructed	Units Overrun, Underrun	Unit Price	Amount Of Overrun	Amount Of Underrun
J611248	160	Asphaltic Concrete Mixture PG 70-22 (SP125CLP MIX)	TN	208.50	0.00	-208.50	\$138.00		-\$28,773.00
	180	Asphaltic Concrete Mixture PG 64-22 (SP190C MIX)	TN	970.40	0.00	-970.40	\$90.00		-\$87,336.00
	200	Tack Coat	GL	2750.00	2690.00	-60.00	\$3.00		-\$180.00
	970	Concrete Traffic Barrier Type C	LF	2038.00	1838.00	-200.00	\$50.00		-\$10,000.00
	1000	Temporary Traffic Barrier	LF	2427.00	10832.00	8405.00	\$18.00	\$151,290.00	
	1010	Relocating Temporary Traffic Barrier	LF	7128.00	14022.00	6894.00	\$7.00	\$48,258.00	
	1050	Temporary Traffic Barrier (Pinned)	LF	3853.00	500.00	-3353.00	\$23.00		-\$77,119.00
	1060	Relocating Temporary Traffic Barrier (Pinned)	LF	7408.00	1284.00	-6124.00	\$12.00		-\$73,488.00
								\$199,548.00	-\$276,896.00

Total VE Savings To Be Shared

\$77,348.00

Total Savings - MoDot

\$38,674.00

Total Savings - Fred Weber, Inc.

\$38,674.00

Original Plan	TTB (Pinned) LF	TTB (Un-Pinned) LF	Relocate TTB (Pinned) LF	Relocate TTB (Un-Pinned) LF
Stage 1	3853	1545	398	
Stage 2		882	4065	1333
Stage 3			2661	1973
Stage 4			284	842
Stage 5				2980
	3853	2427	7408	7128

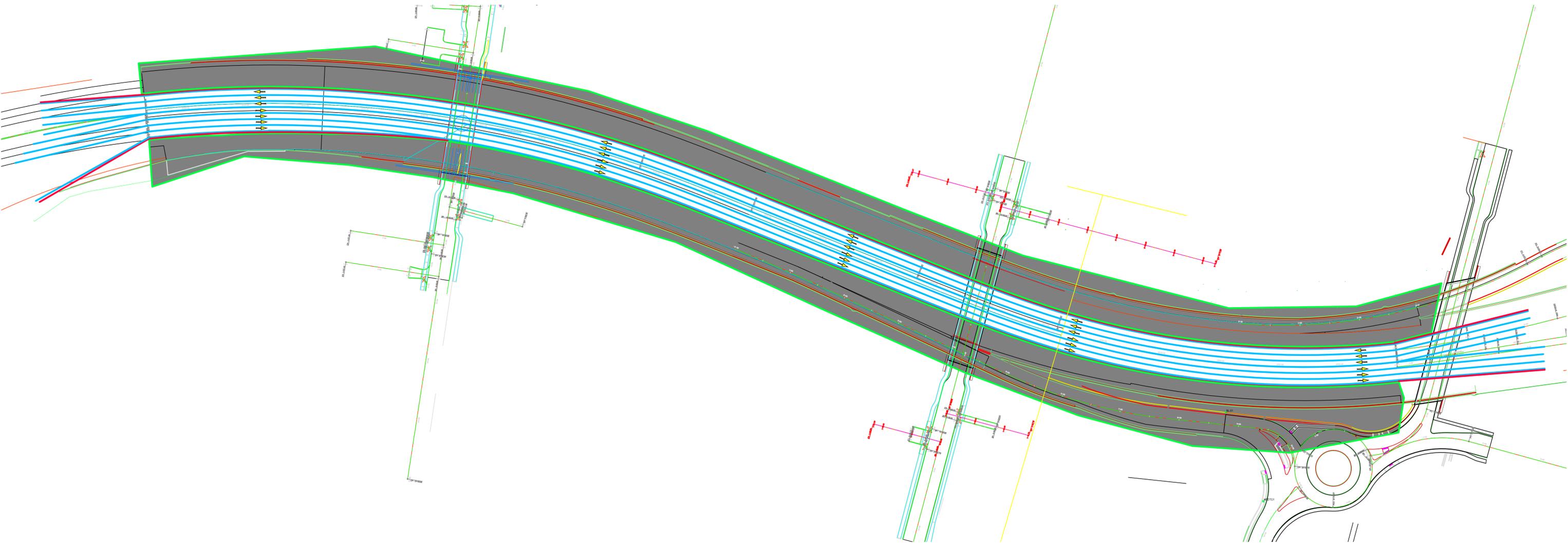
New Plan	TTB (Pinned) LF	TTB (Un-Pinned) LF	Relocate TTB (Pinned) LF	Relocate TTB (Un-Pinned) LF
Stage 1A Median	500			
Stage 1A Outside 1229 to 1255		5200		
Stage 1A CID		232		
Stage 1B EB Outside 1227 to 1237		200		800
Stage 2		5200		5200
Stage 3			1000	4200
Stage 4			284	842
Stage 5				2980
	500	10832	1284	14022

	SP125 Tons	SP190 Tons	Tack Coat
Asphalt Wedge	208.5	970.4	60

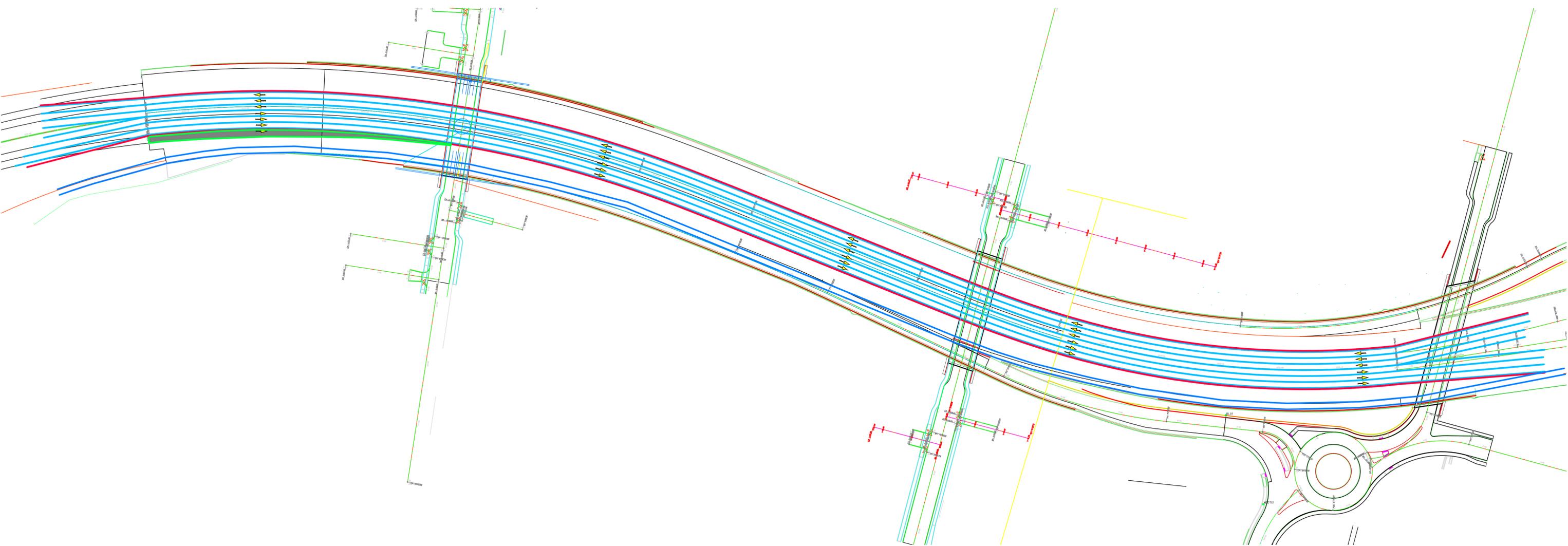
Type C Barrier Removed and Replaced for Traffic Staging 1229 to 1231	LF
	200

Lighting?

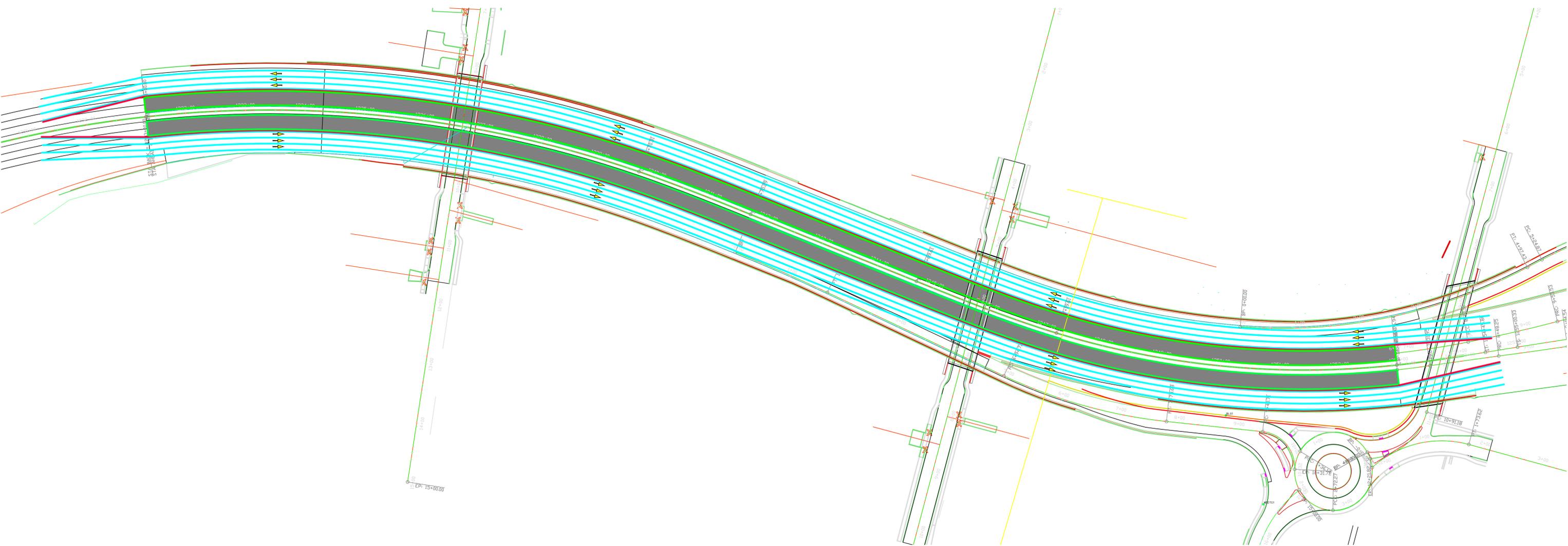
Stage 1A



Stage 1B

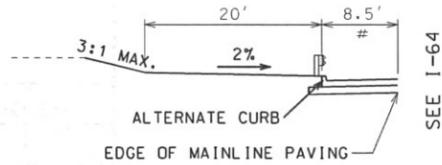


Stage 3

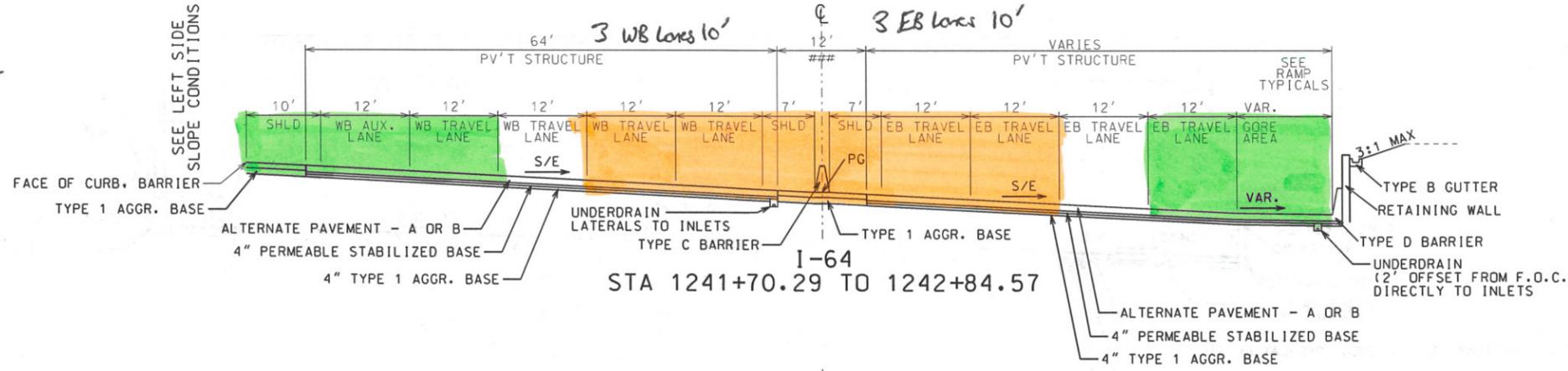


LEFT SIDE SLOPE CONDITIONS

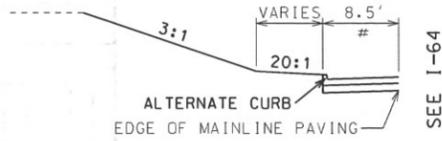
Stage 1



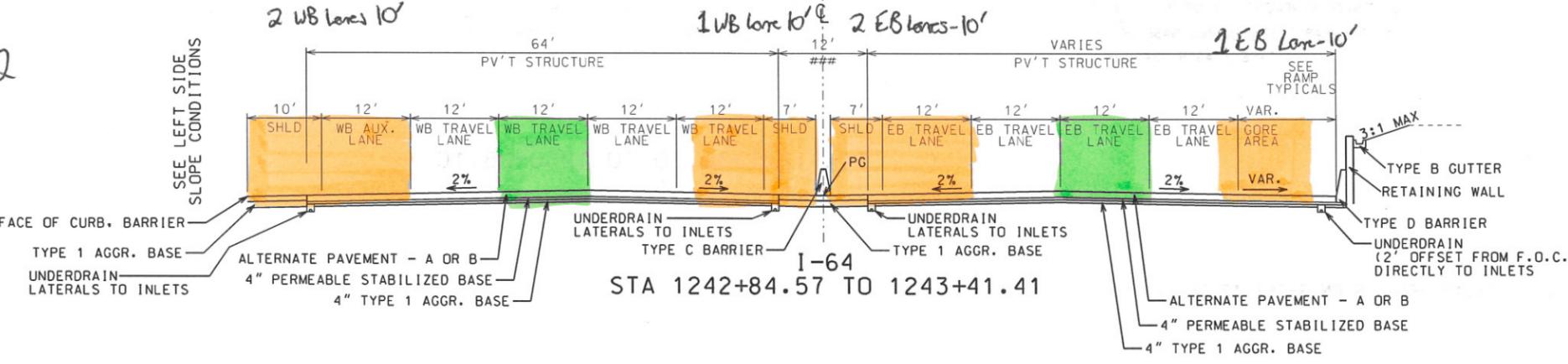
STA 1242+25 TO 1243+00



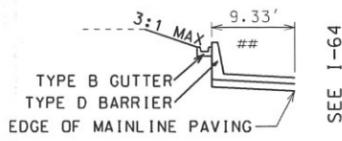
Stage 2



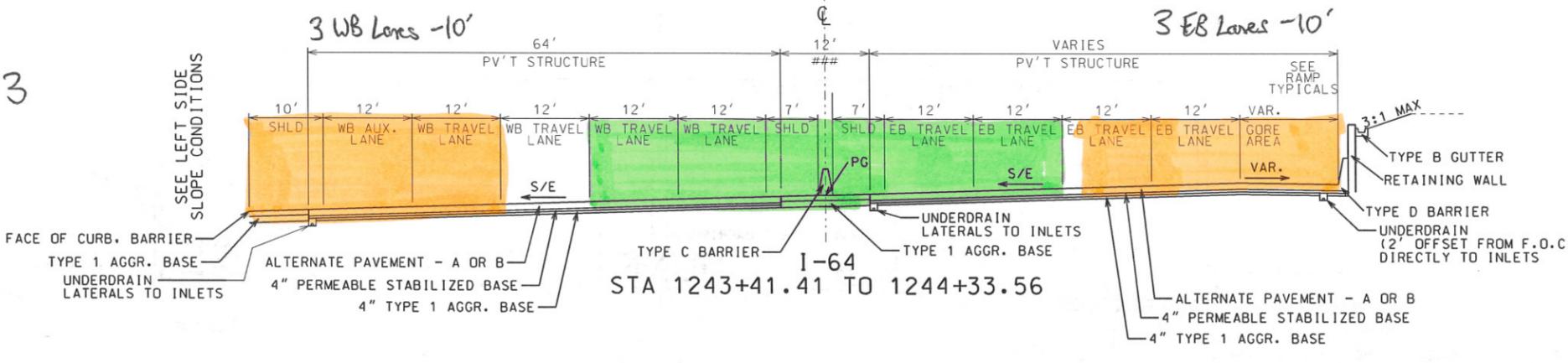
STA 1243+00 TO 1243+90



Stage 3



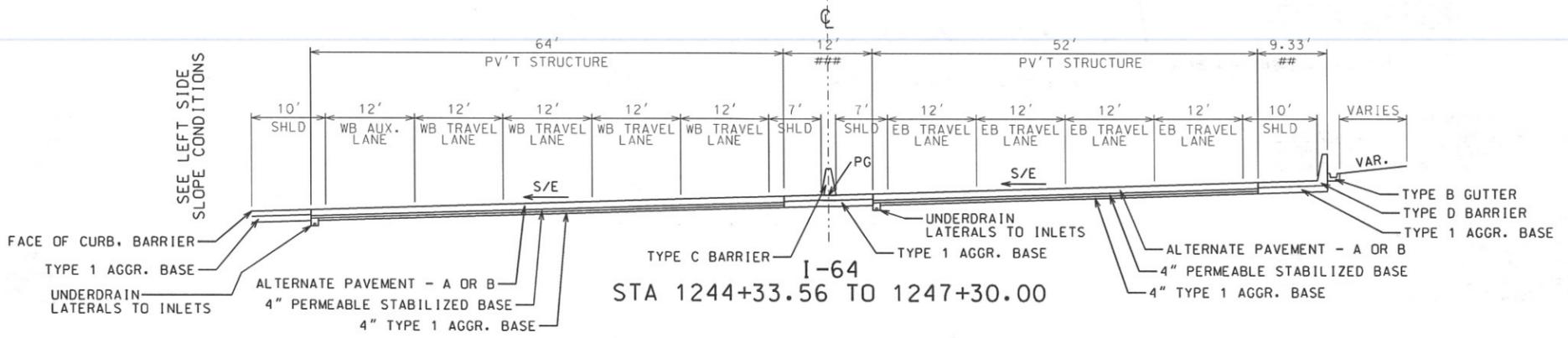
STA 1243+90 TO 1244+50



- # A2 SHOULDER-ALTERNATE PAVEMENT G OR H
 - ## 8" SHOULDER-ALTERNATE PAVEMENT G OR H
 - ### 8" CONCRETE SHOULDER
- ALTERNATE PAVEMENT - A OR B
FOR MAINLINE PAVING
- | | |
|----------------------------|---------------|
| ASPHALT 13" SMA/SUPERPAVE | CONCRETE |
| 1 3/4" SP125BSM (PG76-22) | 10 1/2" PCCP |
| ON 3" SP250B (PG76-22) | 1 1/2" DOWELS |
| ON 8 1/4" SP250C (PG64-22) | 15' JOINTS |

- ALTERNATE PAVEMENT - G OR H
FOR A2 SHOULDER PAVING
- | | |
|----------------------|-------------|
| ASPHALT | CONCRETE |
| 5 3/4" BP1 (PG64-22) | 5 3/4" PCCP |
| MAX 3" LIFTS | 15' JOINTS |
- ALTERNATE PAVEMENT - G OR H
FOR 8" SHOULDER PAVING
- | | |
|------------------|------------|
| ASPHALT | CONCRETE |
| 8" BP1 (PG64-22) | 8" PCCP |
| MAX 3" LIFTS | 15' JOINTS |

	ALTERNATE CURB	
GUARDRAIL?	W/ ASPHALT	W/ CONCRETE
YES	4" TYPE S	4" TYPE A
NO	6" MOD. TYPE S	6" TYPE M



STA 1244+33.56 TO 1247+30.00

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
9/21/2012	
ROUTE	STATE
I-64	MO
DISTRICT	SHEET NO.
SL	2
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J611248	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL SECTION I-64 SHEET 2 OF 12

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.