

2007 APPLICATION FORM

(required for each entry)

Job No. J6U1028E **Route** 364 **County** St. Charles

STIP Description (Scoping or Construction, state which STIP) 05-09 06-10 07-11
Construction 07-11

Project Manager (could have both)

MoDOT Barry Bergman **Consultant** Cassie Reiter,
Crawford Murphy and Tilly, Inc.

Active core team members as approved by the MoDOT PM (may include consultants)

Jim Gremaud Jeff Bohler, Rob Lauer

Todd Strong, John Lewis, Arisa Prapaisilp

Project Contacts (will have both for consultant entry)

District Barry Bergman **Consultant** Cassie Reiter

STIP budget \$25,581,000 **or Award cost** \$19,736,169.72

Value Engineering study during design? yes no (if yes) **Project Stage**

VE Contact person Tom Allen

Construction-stage VE (VECP)? yes no (if yes) **Explain**

Total VECP savings \$ _____ **VECP Contact Person** _____

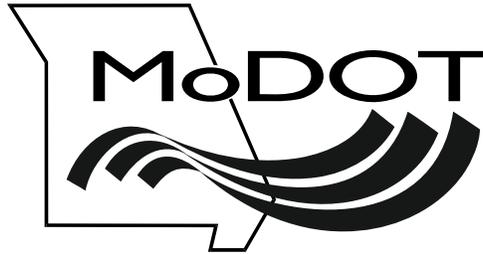
Why is this entry the “poster” image for MoDOT’s practical design philosophy?

(In layman’s terms - 100 words or fewer – attach additional sheet if necessary)

This project used virtually every practical design idea available to the team, including reducing shoulders, thinner pavement, adjusting profiles to reduce earthwork and retaining walls, removing a u-turn ramp for the one way outer roads, etc. The result of these practical design changes was almost a 23% reduction of the STIP estimate for a savings of \$5,844,830.28.

Send entries to: MoDOT Design Division, ATTN: Jay Bestgen
1320 Creek Trail Dr.
Jefferson City, Missouri 65109

All entries must be received no later than close of business on February 1, 2007



Ed Hassinger, District Engineer



2007 Missouri Quality Award Winner

January 8, 2008

Practical Design Committee:

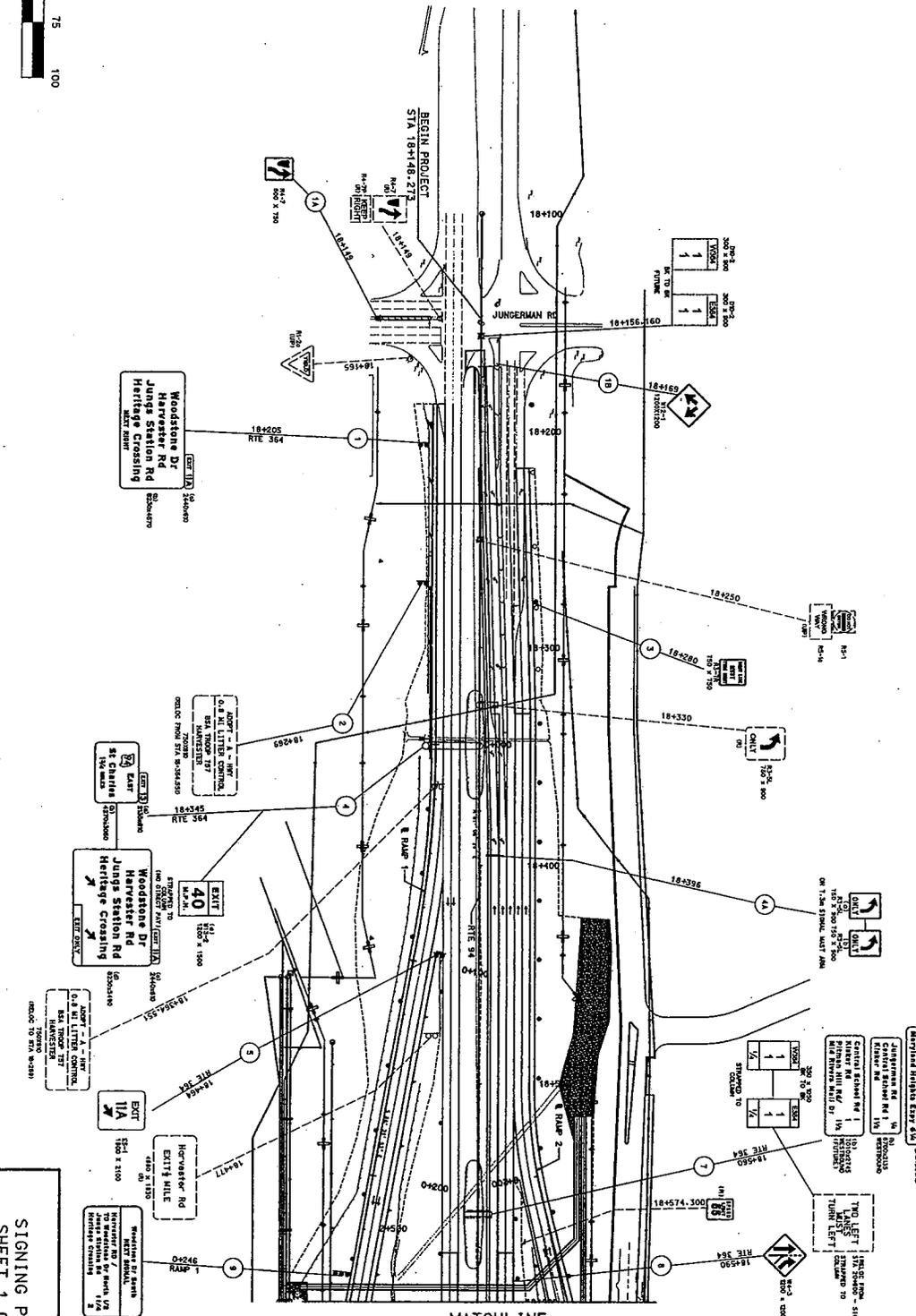
This Page Avenue project (J6U1028E) consisted of 1.2 miles of freeway upgrade along the Route 94 corridor from Woodstone Drive to east of Harvester Road in St. Charles County. Our review consisted of looking at all aspects of the project for the possibility of practical design. The following items were revised based on the review.

1. The shoulder width on the both Route 364 and the one way outer road was reduced.
2. The width of the Harvester bridge over Rte. 364 was reduced based on practical design.
3. The original design included a u-turn ramp and bridge at Harvester Road, however, after reviewing the traffic data we determined that the traffic signals would have sufficient capacity to handle the u-turns. As a result, the u-turn ramp was removed from the plans but could be built in the future if the need arises.
4. The pavement design was reinvestigated and resulted in thinner pavement for Rte. 364, the ramps and outer roads.
5. The grade of Harvester Road was raised in order to reduce the amount of excess earthwork along Rte. 364 on the project. This grade change also saved money by reducing the height of retaining walls.
6. Since the excess material from the project was needed for future Page projects, areas along existing right of way were provided for the stockpiles. Storing the material for future projects that are in need of material will save money.
7. Although the u-turn ramp was removed from this project, the area between the north outer road and Route 364 was used as a detention basin for the project to mitigate the additional pavement.
8. On the northeast quadrant of Route 94 and Harvester Road the right of way plans were changed to reduce the taking. Our normal procedure would be to purchase property approximately 10' past the construction slope line. In this case we only purchased property to approximately 20' past the edge of shoulder and acquired a temporary construction easement for the remainder of the grading. The property owner intends to develop the property commercially and grade down the hill near the one way outer road. Not only did we save money on right of way but we were able to move the utilities closer to the road to allow the property owner more are to develop.

Barry Bergman
Project Manager
District 6

MOBILE STATE DISTRICT SHEET NO.
 364 MO 6 163
 JOB NO. J6U1028E
 CONTRACT 10
 PROJECT NO.
 COUNTY ST. CHARLES

DATE: 4/26/07



SIGN 6 OMITTED

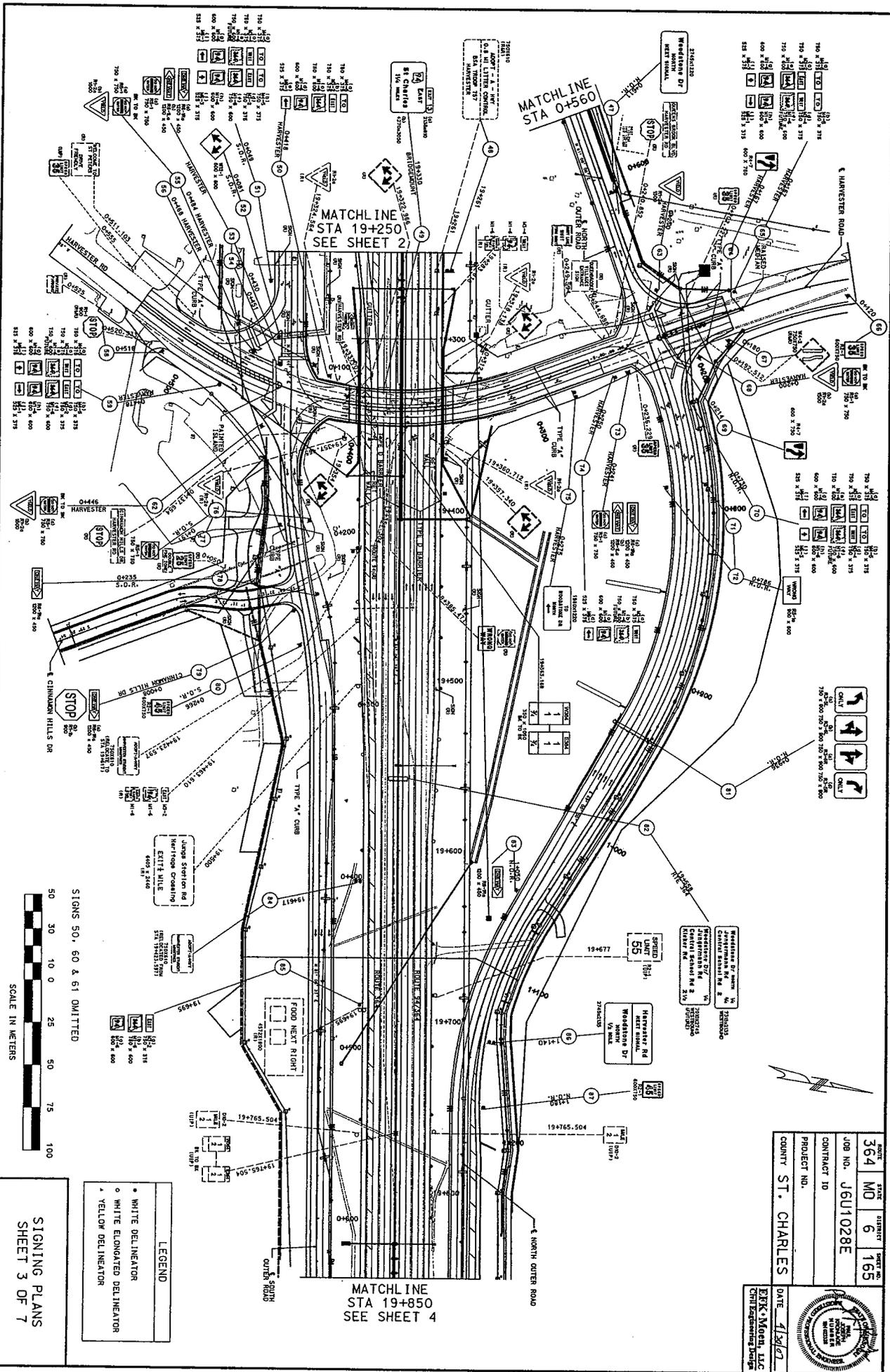
•	WHITE DELINEATOR
o	WHITE ELONGATED DELINEATOR
▲	YELLOW DELINEATOR



MATCHLINE
 STA 18+600
 SEE SHEET 2

SIGNING PLANS
 SHEET 1 OF 7

34827 PM 04/30/2007



MATCHLINE
STA 19+250
SEE SHEET 2

MATCHLINE
STA 0+560

MATCHLINE
STA 19+850
SEE SHEET 4

SIGNS 50, 60 & 61 OMITTED

50 30 10 0 25 50 75 100

SCALE IN METERS

LEGEND	
•	WHITE DELINEATOR
◦	WHITE ELONGATED DELINEATOR
•	YELLOW DELINEATOR

SIGNING PLANS
SHEET 3 OF 7

PROJECT NO.	364
STATE DISTRICT	MO 6
JOB NO.	J6U1028E
CONTRACT ID	
PROJECT NO.	
COUNTY	ST. CHARLES



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