

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: STP00-00MS-00(005) Chatham **OFFICE:** Engineering Services
P.I. No.: 550560
Whitfield Avenue/SR 204 Spur **DATE:** August 30, 2010

FROM: Ronald E. Wishon, State Project Review Engineer *REW*

TO: Bobby K. Hilliard, PE, State Program Delivery Engineer
Attn.: Michelle Wright

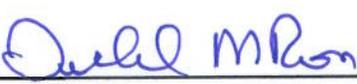
SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES

The VE Study for the above project was held January 26-29, 2010. Responses were received on August 30, 2010. Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. The Project Manager shall incorporate the VE alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT #	Description	Potential Savings/LCC	Implement	Comments
DR-1	<p>Modify closed drainage system (5 different recommendations)</p> <p>A – Connect G-10 to 30” storm drain pipe; B – Remove cross drain at Old Whitfield Ave.; C – Eliminate the manhole at A-5; D – Reroute piping at Sta. 15+00, 17+00, 22+50 and 35+40; E – Use available open ditches to eliminate storm drain pipes at various stations.</p>	<p>Proposed = \$99,242</p> <p>Actual = \$24,550</p>	Yes, Partially	<p>Items A, C, and D will be done. The revised savings for these three items are \$24,550.</p> <p>Item B is not accepted. The existing drainage pattern for item B is maintained with the pipe located under the proposed relocated roadway.</p> <p>Item E is not accepted. The invert elevations of the roadside drainage must be lowered approximately 2.7 to 5.6 feet to accept the roadway drainage from the curb inlets. Lowering the ditches would require an additional 23,200 sf of ROW. This would require an additional \$85,000 for ROW and \$40,000 for County administrative cost.</p>

RD-1	Reduce depth of milling and inlay	\$385,418	No	After the pavement design was reevaluated, the truck traffic was increased to 8%. The revised structural needs of the project would require 7½ inches of overlay. Because several of the cores indicated less than 6 inches of existing asphalt and no stone base, the existing asphalt will be removed and replaced with a full depth pavement structure. The 5 inch milling and inlay originally proposed no longer applies.
RD-2	Utilize Type "A" median openings in lieu of Type "B" median openings	\$179,306	No	On high speed corridors, Type B median openings have a much improved operational efficiency, mainly due to the offset nature of the left turn lane, which improves sight distance. GDOT has programmed dozens of safety projects throughout the state to convert existing Type A median openings to Type B median openings. Modifying the crossovers within existing projects is more cost effective than retrofitting the intersections in future stand alone projects.
RD-12	Eliminate U-turn at Sta. 34+75 (school)	\$65,461	No	Right of way has already been purchased in this area, and as part of the negotiation with the church, a commitment was made to maintain the ability to make this U-turn movement.
RD-14	Reduce length of side road improvements – Lavon, Crossbrook Place, Old Whitfield	\$67,620	No	Right of way has already been acquired in these areas. If this recommendation were accepted the grades on the side roads would be more than twice their original grades.
RD-16	Eliminate retaining walls	\$29,975	Yes	This will be done.
RD-20	End project at Sta. 125+50 instead of Sta. 133+00	\$104,342	Yes	This will be done.
RD-21	Eliminate rumble strips	\$2,200	Yes	This will be done.

RD-22	Use 4 ft paved shoulder	\$89,738	Yes	This will be done.
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Approved:  Date: 9/2/10
Gerald M. Ross, PE, Chief Engineer

REW/LLM

Attachments

- c: Ben Buchan
Russell McMurry/Darrell Richardson/Butch Welch/Marcela Coll
Larry Bowman
Will Murphy/Troy Pittman
Brad Saxon/Teresa Scott
Ken Werho
Lisa Myers
Matt Sanders

THOMAS & HUTTON ENGINEERING CO.

50 PARK OF COMMERCE WAY
POST OFFICE BOX 2727
SAVANNAH, GEORGIA 31402-2727
TELEPHONE (912) 234-5300
FAX (912) 234-2950

August 25, 2010

Ms. Michelle Wright
Office of Program Deliver
Georgia Department of Transportation
One Georgia Center
600 West Peachtree Street NW, 27th Floor
Atlanta, GA 30308

Re: STP00-00MS-00(005) Chatham County
Whitefield Avenue/SR 204 Spur
Old Whitefield Avenue to Ferguson Avenue
P. I. No. 550560
Value Engineering Study Final Report

Dear Ms. Wright:

On behalf of our client Chatham County, please see the following responses to the Value Engineering Study Report Recommendations dated February 12, 2010:

Recommendations:

DR-1 Modify Closed Drainage System

The total potential savings if accepted is \$99,242.00.

- VE Recommendation DR-1 is partially accepted. Items A, C and D are accepted for a total savings of \$24,550. Items B is not accepted. The existing drainage pattern for Item B is maintained with the pipe located under the proposed relocated roadway. Item E is not accepted. The cost savings for implementing Item E is approximately \$82,000. The invert elevations of the roadside drainage would need to be lowered approximately 2.7 to 5.6 feet to accept the roadway drainage from the curb inlets. Lowering the ditches will require approximately 23,200 square feet of additional right-of-way, which would result in \$125,000 additional costs (\$85,000 right-of-way and \$40,000 County administrative cost).

RD-1 Reduce Depth of Milling and Inlay

The total potential savings if accepted is \$385,418.00.

- VE Recommendation RD-1 is not accepted. After the pavement design was re-evaluated, the truck traffic was increased to 8%. The revised structural needs of the project would require 7.5-inch of overlay. Because several of the cores indicated less than 6-inch of existing asphalt and no stone base, the existing asphalt will be removed and replaced with a full depth pavement structure. Therefore, the 5-inch milling and inlay will be replaced with full depth construction.

RD-2 Use Type "A" in-lieu of Type "B" Left Turn Lanes

The total potential savings if accepted is \$179,306.00.

- VE Recommendation RD-2 is not accepted. On high traffic corridors, the Type "B" median openings have a much improved operational efficiency. Attached is an e-mail from Mr. Scott Zehngraff providing input from the Traffic Operations office regarding the use of a Type "B" versus Type "A" median.

RD-12 Eliminate U-Turn at Station 34+75 +/-

The total potential savings if accepted is \$65,461.00.

- VE Recommendation RD-12 is not accepted. Right-of-way for the project in this area has been purchased and as a part of the negotiations with the church, the commitment was made by the District Pre-Construction Engineer and County to maintain the ability to make this u-turn movement.

RD-14 Reduce Length of Side Road Improvements (Laxon Avenue, Crossbrook Place, Old Whitefield Avenue)

The total potential savings if accepted is \$67,620.00.

- VE Recommendation RD-14 is not accepted. The right-of-way for the project in these areas has already been acquired. During the acquisition process, the property Owner was shown a layout for their property with a reconstructed driveway and making a change to that area now would not be a good faith negotiation. Also, the grade on side roads would be more than doubled from the original grade.

RD-16 Eliminate the Retaining Walls

The total potential savings if accepted is \$29,975.00.

- VE Recommendation RD-16 is accepted

RD-20 End Project at Sta. 125+50

The total potential savings if accepted is \$104,342.00.

- VE Recommendation RD-20 is accepted

RD-21 Eliminate Rumble Strips

The total potential savings if accepted is \$2,200.00.

- VE Recommendation RD-21 is accepted

Ms. Michelle Wright
Office of Program Deliver
Georgia Department of Transportation
August 25, 2010
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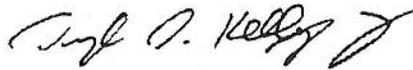
RD-22 Use 4.0' Paved Shoulder

The total potential savings if accepted is \$89,738.00.

> **VE Recommendation RD-22 is accepted**

Sincerely,

THOMAS & HUTTON



Doyle D. Kelley, Jr., P.E.

DDK/sawr

cc Leon Davenport, Chatham County

Wright, Michelle

From: Wright, Michelle
Sent: Wednesday, August 25, 2010 5:17 PM
To: Pahno, Steve V
Cc: Jubran, Abdallah (AJ); 'Williams, Donnie'
Subject: RE: Proposed VE Study Responses - STP00-00MS-00(005), Chatham - PI No. 550560 (Concurrence on RD-1 due to Revised Pavement Evaluation Report)

Steve,

Thanks so much for your quick response.

Michelle Wright
Project Manager
Georgia Department of Transportation
Office of Program Delivery
600 West Peachtree Street, 35th Floor
Atlanta, GA 30308
(404) 271-7561
miewright@dot.ga.gov

From: Pahno, Steve V
Sent: Wednesday, August 25, 2010 5:11 PM
To: Wright, Michelle; Jubran, Abdallah (AJ)
Subject: RE: Proposed VE Study Responses - STP00-00MS-00(005), Chatham - PI No. 550560 (Revised due to Revised Pavement Evaluation Report)

Michelle,

We do concur with Alternative RD-1, as you will see from our acceptance letter of WPC's report. There will be no mill and inlay, but full-depth reconstruction instead.

For your info, you will probably get the word that VE Studies will no longer be able to adjust the recommendations on pavements.

Steve

Steve V. Pahno
State Pavement Design Engineer
Pavement Management Branch
spahno@dot.ga.gov
404-608-4772 <-- New, Digitally Improved Number
404-608-4752 (Fax)

From: Wright, Michelle
Sent: Wednesday, August 25, 2010 11:48 AM
To: Pahno, Steve V; Jubran, Abdallah (AJ)
Cc: 'Williams, Donnie'
Subject: Proposed VE Study Responses - STP00-00MS-00(005), Chatham - PI No. 550560 (Revised due to Revised Pavement Evaluation Report)

Wright, Michelle

From: Zehngraff, Scott E.
Sent: Tuesday, August 10, 2010 11:02 AM
To: Wright, Michelle; Zahul, Kathy
Cc: Werho, Ken
Subject: RE: Proposed VE Study Responses - STP00-00MS-00(005), Chatham - PI No. 550560

In the VE Report, Alternate RD-2, recommended removing the Type B left turn lane and replacing it with a Type A. This is a \$179,000 cost savings.
Ken and I don't recommend removing any Type B's based on the geometric advantages of them, i.e.: improved sight distance.
With the volumes of traffic on SR 204, current & project, it would greatly enhance the efficiency of the intersection.

If you need Kathy to respond, she will return on the 16th.

Scott E. Zehngraff, P.E. General Operations Manager Traffic Operations 404-635-8127 cell: 404-805-8016

From: Wright, Michelle
Sent: Monday, August 09, 2010 4:59 PM
To: Zahul, Kathy
Cc: Werho, Ken; Zehngraff, Scott E.
Subject: FW: Proposed VE Study Responses - STP00-00MS-00(005), Chatham - PI No. 550560

Good Afternoon, Kathy,

Have you had a chance to complete your review of the PI 550560 Proposed VE Responses?

We are trying to finalize these responses and get them submitted.

Thanks,

Michelle Wright
Project Manager
Georgia Department of Transportation
Office of Program Delivery
100 West Peachtree Street, 25th Floor
Atlanta, GA 30308
(404) 211-7562
mich.zahul@dot.ga.gov

From: Wright, Michelle
Sent: Thursday, July 29, 2010 12:00 PM
To: Zahul, Kathy
Subject: FW: Proposed VE Study Responses - STP00-00MS-00(005), Chatham - PI No. 550560

Good morning, Kathy,

Have you had a chance to complete your review of the PI 550560 Proposed VE Responses?

Michelle Wright
Project Manager
Georgia Department of Transportation

PRECONSTRUCTION STATUS REPORT FOR PI:550560-

PROJ ID: 550560-
COUNTY: Chatham
LENGTH (MI): 2.46
PROJ NO.: STP00-00MS-00(005)
PROJ MGR: Wright, Michelle O.
AQHD Initials: SSH
OFFICE: Program Delivery
CONSULTANT: Local Design, Reimbursed by GDOT funds
SPONSOR: Chatham County
DESIGN FIRM: Thomas & Hutton Engineering Co.

SR 204 SPUR FROM HANEYS CREEK TO CR 767/FERGUSON AVE
MPO: Savannah TMA
TIP #: 87-H-39
MODEL YR: Widening
TYPE WORK: ADD 4U(MED 20)
CONCEPT: Reconstruction/Rehabilitation
PROG TYPE: N
Prov. for ITS: N
BOND PROJ.:

MGMT LET DATE: 04/15/2011
MGMT ROW DATE: 11/2/2008
BASELINE LET DATE: 04/07/2011
SCHED LET DATE: 2/7/2011
WHO LETS?: GDOT Let
LET WITH:

PRIORITY CODE:
DOT DIST: 5
CONG. DIST: 1
BIKE: Y
MEASURE: E
NEEDS SCORE: 05
BRIDGE SUFF:

BASE START	BASE FINISH	LATE START	LATE FINISH	TASKS	ACTUAL START	ACTUAL FINISH	%	PROGRAMMED FUNDS						
								Activity	Approved	Proposed	Cost	Fund	Status	Date Auth
4/9/2010	4/22/2010	9/10/2010	9/23/2010	Concept Development	4/4/1994	7/17/1995	100	PE	1993	1993	545,000.00	3AA	AUTHORIZED	2/10/1993
				Concept Meeting	4/21/1995	4/21/1995	100	ROW	2009	2009	6,000,000.00	L230	AUTHORIZED	6/18/2009
				PM Submit Concept Report	12/9/2007	12/9/2007	100	ROW	2010	2010	1,371,691.85	L230S	AUTHORIZED	6/18/2009
				Concept Report Review and Comments	6/2/1995	6/15/1995	100	ROW	2004	2004	290,000.00	Q23	AUTHORIZED	6/18/2009
				Management Concept Approval Complete	6/21/1995	7/17/1995	100	UTL	2011	2011	1,764,042.00	L230S	PRECAST	
				Revise or Re-validate Approved Concept	9/30/2005	9/24/2007	100	CST	2011	2011	11,747,857.00	L230S	PRECAST	
				Value Engineering Study	11/30/2009		67							
				Public Information Open House Held	9/1/1995	9/1/1995	100							
				Environmental Approval	6/1/1998	2/13/2004	100							
				Pub Hear Field/Comm Resp (EA/FONSI, GEPA)	2/20/2003	2/20/2003	100							
				Field Surveys/SDE	6/2/2000	6/29/2000	100							
				Preliminary Plans	8/31/2000	4/4/2008	100							
				Underground Storage Tanks	4/10/2009	8/14/2009	100							
				PFPR Inspection	5/14/2008	4/25/2008	100							
				R/W Plans Preparation	3/15/2008	4/25/2008	100							
				R/W Plans Final Approval	6/3/2008	6/30/2008	100							
				L & D Approval	12/5/2008	12/12/2008	100							
				R/W Authorization	6/18/2009	6/18/2009	100							
				Stake R/W	8/31/2004	11/4/2004	0							
				Soil Survey	5/19/2008		13							
				Final Design			0							
				FFPR Inspection			0							
				Submit FFPR Responses (OES)			0							

STIP AMOUNTS		Activity	Cost	Fund
PE Cost Est Amt:	545,000.00	PE	0.00	3AA
ROW Cost Est Amt:	6,000,000.00	ROW	0.00	Q23
ROW Cost Est Amt:	1,281,955.00	ROW	6,000,000.00	L230
ROW Cost Est Amt:	290,000.00	ROW	1,281,955.00	L230S
Utility Cost Est Amt:	1,764,042.00	UTL	6,699,000.00	L230S
CST Cost Est Amt:	11,747,857.00	CST	11,747,857.00	L230S

PE=FED \$ W/LOCAL \$ 20% MATCH 12/2/98
NO BRIDGE REQUIRED
T&H working on final plans
FONSIIApvd2-13-04IReev01.28.09[OnSched]APR.11 Let[LB 3.29.10
SUPP #2 SGN GDOT TO REIMBURSE \$14,000,000 ROW - NOT TO INCLUDE ADMIN COSTS
6-15-04[SUPP #1] SGN GDOT TO FUND UP TO \$1,000,000 PE.2-15-09[CT]SGN CHATHAM DO 20% PE
 10-2-06.
CHATHAM CO. SPONSOR 1985-1993 LOST; CAPACITY ENH; PROJ. ON-ROAD BICYCLE FACILITY.
CUTS BIKE PLAN SKIDAWAY CORR. (PART)
RW STIP AMENDMENT #30A 3-09
PR2/PE=4-6-93[RW LS 0006204 - ADV ACQ]#1 9-09#2.10-09
R/W acq contract exe Loc date:5/22/09. exe GDOT date 11/3/09
CAHSND LCL CNSLNT PLNS4REVW03280[5]P[PPR]sm5/8/08NR/KW
 2nd sub. to dgn. 5 of 7. 7/16/2010
RECST/REHAB (WIDENING); PE BY COUNTY

District Comments
 TAS/3-5-09/County anticipates acquisition complete by 3-10
 MW/OPD: District sent R/W Certification to GO on 7-7-10; Consultant responding to VE Study.

Pre. Parcel CT: 82	Total Parcel in ROW System: 81	Cond. Filed: 3	Acquired by: LOC	DEDS CT: 78
Under Review: 1	Options - Pending: 0	Relocations: 20	Acquisition MGR: Cravey, Mack (LOC)	
Released: 68	Condemnations- Pend: 0	Acquired: 81	R/W Cert Date: 7/23/10	