

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** BHF00-0052-02(020) Jackson **OFFICE:** Engineering Services  
P.I. No.: 122510  
SR 5 Alt. **DATE:** August 25, 2010

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

**TO:** Bobby K. Hilliard, PE, State Program Delivery Engineer *REW*  
Attn.: Hiral Patel

**SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES**

The VE Study for the above project was held May 24-27, 2010. Responses from the Project Manager were received on August 12, 2010 and responses from the Office of Bridge Design were received on August 24, 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
A-1	Tighten limits of ROW	\$976,000	Yes	This will be done.
A-2	Reduce ROW north of the E-W Connector and west of Curry Creek	\$70,000	Yes	This will be done.
B-1	Narrow width of Bridge No. 1	Proposed = \$208,300 Actual = \$170,344	Yes	This will be done. Savings have been reduced due to a supplemental agreement for final design change.
B-2	Combine both bridges into one bridge crossing at Bridge No. 2 location	\$1,287,300	No	Implementation of this recommendation would place the new roadway into the stream buffer.
B-6	Construct new bridge adjacent to existing historic bridge	\$4,239,000	No	This recommendation may improve the intersections, but it does not develop any long term design year improvements for the intersection and corridor and does not help the skew problem at SR 82.

C-1	Use 11 foot lanes	Proposed = \$265,000  Actual = \$215,302	Yes	This will be done. Savings have been reduced due to a supplemental agreement for final design change.
C-2	Shift Kissan Street alignment to the west to minimize impacts	\$151,400	Yes	This will be done.
C-4	Reduce the length of Peach Hill Drive improvements	\$286,200	No	This was a commitment made to the local government. It is anticipated that the current design will help to redirect commercial vehicles and truck traffic generated due to Jackson EMC's facility on SR 15 Alt to a signalized intersection and reduce crash potential.

The Office of Engineering Services concurs with the Project Manager's responses.

Approved:  Date: 8/25/10  
**Gerald M. Ross, PE, Chief Engineer**

REW/LLM  
 Attachments

- c: Ben Buchan
- Bobby Hilliard/Michaels Haithcock/Hiral Patel
- Paul Liles/Bill Duvall/Bill Ingalsbe
- Paul Alimia
- Randall Davis
- Ken Werho
- Lisa Myers
- Matt Sanders

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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INTERDEPARTMENT CORRESPONDENCE**

**FILE:** BHF00-0052-02(020), Jackson County      **OFFICE:** Program Delivery  
P.I. No.: 122510  
SR 15A from Storey Street to SR 82      **DATE:** August 12, 2010

**FROM:** Bobby K. Hilliard, PE, State Program Delivery Engineer *B.K.H.*

**TO:** Ronald E. Wishon, State Project Review Engineer  
Attn.: Lisa Myers

**SUBJECT: RESPONSE TO VALUE ENGINEERING STUDY ALTERNATIVES**

Attached are the responses for the Value Engineering Study. This office concurs with the responses.

If you have any questions, please contact Hiral Patel, Project Manager at (706) 601-1849.

BKH:HP:dbh

c: Ben Buchan



1) Recommendation A-1: Tighten limits on right of way acquisition  
VE Team Savings: \$ 976,000

Yes, will implement.

2) Recommendation A-2: Reduce right of way north of E-W Connector and west of Curry Creek  
VE Team Savings: \$ 70,000

Yes, will implement.

3) Recommendation B-1: Narrow width of bridge No. 1 (Kissam)  
VE Team Savings: \$ 208,300

Yes, will implement, however, savings will be reduced to approximately \$170,344.00, due to supplemental for final design change.

4) Recommendation B-2: Combine two bridges into one bridge crossing at Bridge No. 2 (E-W Connector)  
VE Team Savings: \$ 1,287,300

No, will not implement; the combining of the two bridges into one near the location of the proposed bridge no. 2 would place the new roadway into the stream buffer. The west bound traffic on SR 15A with the addition of the concrete raised island would place this portion of the roadway into the existing stream buffer for Curry Creek. Also, the turning movement from the commercial property will become substandard.

5) Recommendation B-6: Construct a new one lane bridge adjacent to existing historic bridge and eliminate the need for the one way pair.  
VE Team Savings: \$ 4,239,000

No, will not implement. This solution spot helps this intersection, but does not develop any long term design year improvements for this intersection and corridor and also does not help the current skew problem at SR 82.

6) Recommendation C-1: Use 11 foot lanes for the travel lanes.  
VE Team Savings: \$ 265,000

Yes, will implement, however, savings will be reduced to approximately \$ 215,302 because a supplemental agreement will be required to incorporate this change in the current plans.

7) Recommendation C-2: Shift Kissam Street alignment to the west as much as possible to minimize impacts on the parkland.  
VE Team Savings: \$ 151,400

Yes, will implement.

8) Recommendation C-4: Reduce the length of Peach Hill Drive improvements.  
VE Team Savings: \$ 286,200

No, will not implement. This was a prior commitment made to local. It is anticipated that the current design will help to redirect commercial vehicles and truck traffic generated due to Jackson EMC's facility on SR 15 ALT to a safer signalized intersection, and reduce crash potential.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE BHF00-0052-02(020) JACKSON COUNTY  
P.I No. 122510

DATE August 20, 2010

FROM  Paul V. Liles, Jr., P.E., State Bridge Engineer

TO Bobby Hilliard, P.E., State Program Delivery Engineer  
Attn: Hiral Patel

SUBJECT BRIDGE DESIGN VALUE ENGINEERING RESPONSE

The Value Engineering Study for the above referenced project dated June 11, 2010 contained three VE Alternatives requiring responses from the Bridge Office, VE Alternatives B-1, B-2 and B-6. Below are our recommendations for these alternatives.

VE Alternative B-1 – “Narrow width of bridge No. 1(Kissam)”

Recommendation: **Implement.** This VE Alternative proposes to reduce the width of this single lane bridge to 24’-0” with a 4’-0” shoulder, a 12’-0” travel-way and an 8’-0” shoulder.

VE Alternative B-2 – “Combine 2 bridges into 1 bridge crossing at Bridge N. 2 (E-W Connector) location”

Recommendation: **Possible Implementation.** Structurally it may be possible to construct a tapered bridge at this location. However, at this site other factors must be considered by the engineer of record including sight distance, alignment, profile, horizontal clearances, vertical clearances, ROW, drainage, environmental impacts and overall function of the roadway system.

VE Alternative B-6 – “Construct new bridge adjacent to historic bridge”

Recommendation: **Possible Implementation.** Structurally it may be possible to construct a parallel bridge at this location. However, at this site other factors must be considered by the engineer of record including sight distance, alignment, profile, horizontal clearances, vertical clearances, ROW, drainage, environmental impacts and overall function of the roadway system.

If you have any questions and/or comments, please contact Bill DuVall of the Bridge Design Office at (404) 631-1883 or at email address [bduvall@dot.ga.gov](mailto:bduvall@dot.ga.gov).

PVL/WMD

cc: Ron Wishon, Engineering Services  
Bill DuVall, Bridge Office



**PRECONSTRUCTION STATUS REPORT FOR PI:122510-**

**PROJ ID:** 122510-      **SR 15 ALT FM STOREY ST TO SR 82; INCL NEW BRIDGES@ CURRY CRK**  
**COUNTY:** Jackson      **MPO:** Not Urban  
**LENGTH (MI):** 0.60      **TIP #:**  
**PROJ NO.:** BHF00-0052-02(020)      **MODEL YR:**  
**PROJ MGR:** Patel, Hiral P.      **TYPE WORK:** Bridges  
**AOHD Initials:** MAH      **CONCEPT:** ONE WAY PAIR  
**OFFICE:** Program Delivery      **PROG TYPE:** Reconstruction/Rehabilitation  
**CONSULTANT:** Turnkey Consultant, (Contract with GDOT)  
**SPONSOR:** GDOT  
**DESIGN FIRM:** Long Engineering, Inc

**MGMT LET DATE:** 06/15/2011  
**MGMT ROW DATE:** 06/06/2013  
**BASELINE LET DATE:** 7/18/2013  
**SCHED LET DATE:** GDOT Let  
**WHO LETS?:**  
**LET WITH:**

**PRIORITY CODE:**  
**DOT DIST:** 1  
**CONG. DIST:** 10  
**BIKE:** N  
**MEASURE:** E  
**NEEDS SCORE:** 05  
**BRIDGE SUFF:** 53.21

BASE START	BASE FINISH	LATE START	LATE FINISH	TASKS	ACTUAL START	ACTUAL FINISH	%	PROGRAMMED FUNDS				Date Auth
								Activity	Approved	Proposed	Cost	
				Concept Development	10/23/1992	7/22/2004	100	PE	1993	1,147,316.07	11/20/2009	2/4/1993
				Concept Meeting	7/2/2003	7/2/2003	100	ROW	2011	4,655,560.00	11/20/2009	
				PM Submit Concept Report	3/30/2004	3/31/2004	100	UTL	LR	140,383.03	11/20/2009	
				Concept Report Review and Comments	6/1/2004	6/29/2004	100	CST	LR	1,750,825.55	11/20/2009	
				Management Concept Approval Complete	7/13/2004	7/22/2004	100	CST	LR	3,398,661.36	11/20/2009	
				Value Engineering Study	1/30/2010		83					
				Public Information Open House Held	11/30/1998	11/30/1998	100					
				Environmental Approval	8/15/1996	5/6/2004	100					
				Pub Hear Held/Comm Resp (EA/FONSI, GEPA)	5/6/2004	5/6/2004	100					
				Field Surveys/SDE	10/13/1992	11/17/1992	100					
				Preliminary Plans	11/7/2006	5/17/2007	100					
				Preliminary Bridge Design	1/8/2007	3/15/2007	100					
				Underground Storage Tanks	7/19/2005	7/19/2005	100					
				PFPR Inspection	8/30/2007	8/30/2007	100					
				R/W Plans Preparation	9/12/2007		100					
				R/W Plans Final Approval	10/4/2007		100					
				L & D Approval			0					
				R/W Authorization			0					
				Stake R/W			100					
				Soil Survey	3/13/2007	5/2/2007	100					
				Bridge Foundation Investigation	8/3/2007	2/8/2008	100					
				Final Design	9/12/2007		22					
				Final Bridge Plans Preparation	9/12/2007		77					
				FFPR Inspection			0					
				Submit FFPR Responses (OES)			0					
<b>PDD:</b> [01R]01-03-00 NEED FY02R 9-2-2000 History ok w/one-way pair. 2/17/03 <b>Bridge:</b> SCP 10/04/07 CONSUL-L&A <b>Design:</b> NTP for PKC was issued in May, 2010. LONG: RW revisions. <b>EIS:</b> FONSI 01/12/07 On Sched(ROW) Altima 06/23/10 <b>LGPA:</b> JEFFERSON REF TO COMMIT FUNDING 11-13-95/RESCISSION LETTER SENT TO JEFFERSON 6-3-05. <b>Prog. Develop:</b> RW STIP AMENDMENT #10 4-28-2010 <b>Programming:</b> A/K/A BHF-052-2(16) #120960 PR2/PE-3-17-93/#1 4-01/#2 8-05/#3 2-06/#4 & #5 2-2010 <b>ROW:</b> Pre-Acq Cons - D. Stephens, Coord T Hill; appr/spec. conts. on hold, pend. ROW fund 7-25-08, need P/R several pars CAHBR REPL PRCTJS&M PLNS N/R(031601)S/PPFR sent 8/6/07 w/r AWAITING COMPLETE 2ND SUB PLANS FROM PM 04/02/08 RECTUREHAB (BRIDGE WIDENING)												
<b>Traffic Op:</b> Long Engineering is working on ROW revisions and re-eval environ/hist-4f. VE study from May 24, 2010 - May 28, 2010. <b>Utility:</b> <b>EMG:</b>												
<b>District Comments</b> CONCEPT REPORT APPROVED JUNE 9, 2004 G.O. ROW Comments: N.T.P. for Pre-Acq sent 11/27/07. Advertisment ran 2/07/08 - 2/21/08, received Review Appraisal checklist; Property Owner meeting scheduled for 3/27/08, still need many revisions req. in Feb 08, but Cons. Des. contract ran out-can't get needed revs., appr/spec. conts. on hold, pending ROW funding. Long Engineering is working on ROW revisions and re-eval environ/hist-4f. VE study from May 24, 2010 - May 28, 2010.												
<b>Prel. Parcel CT:</b>	34	<b>Total Parcel in ROW System:</b>	32	<b>Cond. Filed:</b>	0	<b>Acquired by:</b>	DOT	<b>DEEDS CT:</b>	0			
<b>Under Review:</b>	0	<b>Options - Pending:</b>	0	<b>Relocations:</b>	2	<b>Acquisition MGR:</b>						
<b>Released:</b>	0	<b>Condemnations- Pend:</b>	0	<b>Acquired:</b>	0	<b>R/W Cert Date:</b>						