

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE: STP-8042(6), Muscogee County
P. I. No.: 350850
Eastern Connector from Buena Vista Road to SR 22

FROM: *James B. Buchan*
James B. Buchan, P.E., State Urban Design Engineer

TO: Brian K. Summers, P.E. Project Review Engineer

SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY
ALTERNATIVE REVISION

OFFICE: Urban Design
DATE: April 16, 2008

A Value Engineering Study was performed on the above noted project from October 18-20, 2006. Based on information that was available at the time of the VE Study, several VE Alternates were proposed that had significant cost savings associated with them. One of those VE recommendations was Alternative No. 7. This VE alternative called for the elimination of the concrete sidewalk along the entire length of the corridor on both sides of the road.

The cost savings calculated for this VE alternative was \$484,245 from the VE Consultant. Because of the substantial cost savings from this VE alternative, approval to implement this idea was given on April 18, 2007.

The Eastern Connector Road will be a part of a link from the east side of the county to downtown Columbus. The City considers this proposed road as a major gateway into the new Muscogee Technology Park which will serve as a primary employment center for their community. The City considers the sidewalks a necessary element of this gateway road in the development of the Muscogee Technology Park. They have requested that the sidewalks remain a part of this project.

The funds for this project are L230, funding that has its priority set by the Columbus-Phenix City MPO. The City has stated that they want these funds to be utilized for this project including the construction of the concrete sidewalk for the entire length of the corridor.

For these reasons, the Urban Design Office recommends that approval be given to overturning the initial approval to implement Alternate No. 7, elimination of concrete sidewalk.

Concur: *Brian K. Summers* **Date:** 4/30/08
Brian K. Summers, P. E., Project Review Engineer

Approved: *Gerald Ross* **Date:** 4/30/08
Gerald Ross, P. E., Chief Engineer

cc: Gus Shanine, FHWA

Lamar Pruitt
Ken Crabtree
Wayne Pittman
Marc Mastronardi
Laura Rish
Ken Werho
Doug Franks

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: STP-8042(6) Muscogee
P.I. No. 350850
Schatulga Road/Eastern Connector

OFFICE: Engineering Services

DATE: April 18, 2007

FROM: Brian K. Summers, PE, Project Review Engineer

TO: Ben Buchan, P.E., State Urban Design Engineer

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

Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. Incorporate the VE alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT #	Description	Potential Savings/LCC	Implement	Comments
1	Lower the profile at the Bull Creek Bridge	\$1,165,700	Yes	This will be done.
2	Balance the cut and fills	\$156,730	Yes	This will be done with the implementation of Alternate No. 1.
3	Eliminate Bicycle Lanes	\$1,667,743	Yes	This will be done. Bicycle Lanes are not included in the Local's current Bike Plan for this route.
5	Eliminate Sidewalks and Shoulders	\$735,702	No	Since Alternate No. 7 is recommended to be implemented, part of this cost savings will still be realized.
6	Convert Sidewalks into Bicycle Lanes	\$1,667,743	No	Since Alternate No. 3 will be implemented, this one does not apply.
7	Eliminate Concrete Sidewalk surface and retain shoulder	\$484,245	Yes	This will be done.
8	Increase radius of Eastern Connector Curve No. 7004 at the West Central Georgia Regional Hospital	\$403,760	No	Would require more property from the Hospital. The design as shown meets AASHTO Design criteria.

Implementation of Value Engineering Study Alternatives

ALT #	Description	Potential Savings/LCC	Implement	Comments
10	Provide access to the West Central Georgia Regional Hospital from the new facility	-\$77,652 (cost increase)	No	Hospital does not want to increase access to their facility.
13	Use a 20-foot raised median in lieu of a 44-foot raised median	\$2,030,925 (shown) \$1,450,700 (revised)	Yes with a slight modification	A revised typical section will be used that utilizes a 28 foot raised median in lieu of the 44 foot that was originally shown.
15	Reconfigure the ramp from S.R. 22 SPUR to U.S. 80/Macon Road	-\$18,583 (cost increase)	No	The design as proposed allows a free flow movement.
16	Use prefabricated Arch Span Structures in lieu of multi-cell Concrete Box Culverts	\$24,962	No	The cost for the Arch Span Structure could be significantly increased if additional foundation work is required which would negate the cost savings.
18	Eliminate Curb and Gutter on Median Side only	\$817,866	No	Since a revised typical section will be used with a raised median, the curb and gutter will be required

A meeting was held on April 13, 2007 and Alex Stone with JJ & G, Neal O'Brien of Urban Design, and Brian Summers, Ron Wishon and Lisa Myers of Engineering Services were in attendance.

The results above reflect the consensus of those in attendance and those who provided input.

Approved: signed by David E. Studstill, Jr. Date: April 18, 2007
David E. Studstill, Jr., P. E., Chief Engineer

BKS/REW

Attachments

STP-8042(6) Muscogee

P.I. No. 350850

Implementation of Value Engineering Study Alternatives

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c: Gus Shanine, FHWA
Neal O'Brien
Lamar Pruitt
Ken Crabtree
Wayne Pittman
Marc Mastronardi
Christa Wilkinson
Ken Werho
Doug Franks
Lisa Myers

PRECONSTRUCTION STATUS REPORT

PROJ ID	COUNTY	DESCRIPTION	MGMT. ROW DATE	SCHED DATE	MGMT. LET DATE			
350850-	Muscogee	SCHATULGA RD/EASTERN CONN RD FM BUENA VISTA TO RED ARROW RD	Jan-09	Jun-10				
STP00-8042-00(006)	FIELD DIST: 3		Phase	Approved	Proposed	Cost	Fund	Status
TIP #: 91-SR-2003	TWIN:	US:	PE	1992	1992	264,000.00	Q23	AUTHORIZED
MPO: Columbus		EST DATE: 6/13/07	ROW	LOCL	LOCL	500,000.00	LOC	PRECST
MODEL YR: TMA			CST	2012	2012	34,827,000.00	L230S	PRECST
PROJ MGR: O'Brien, Neal	PROJ LENGTH: 3.44							
PROG: Reconstruction/Rehabilitation	TYPE WORK: Widening							
TYPE: ion								
CONCEPT: NL 4U(MED 44)	LET RESP: DOT		Congressional Districts: 2, 3					

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept	1/4/93	5/14/93	100	COLUMBUS NEEDS TO REDEFINE PLAN - P.I.M. 7/18/02 - ENV. DOC. BEING REVISED - EA @ FHWA 8-15-03 [9-9-03] - PH 11-18-03 - FINAL DOC TO FHWA SOON [2-24-04]-GOES WITH 0006472 ; 8/27/04; NEPA FONSI CLEAR 9/1/04; PFPR 9/2/04; LOCALS REQUEST 1/05 LET; 9/2/04 TWIN=0006472; 9/6/04 - PFPR OCT 05 - R/W JAN 06 [4/27/05];BEING SPLIT [9-1-06]
		Concept Meeting	3/11/93	3/11/93	100	
		Concept Submittal and Review	5/14/93	5/14/93	100	
		Receive Preconstruction Concept Approval	1/27/94	1/27/94	100	
		Management Concept Approval Complete	2/11/03	4/21/03	100	
		Value Engineering Study	6/15/06	4/18/07	100	
		Public Information Open House Held	7/18/02	7/18/02	100	
		Environmental Approval	4/1/97	9/1/04	100	
		Public Hearing Held	11/18/03	11/18/03	100	
5/12/08	6/13/08	Field Surveys/SDE			0	
		Preliminary Plans	8/24/03	5/25/06	100	
		Preliminary Bridge Design	12/10/03	12/14/03	100	
5/9/08	6/13/08	Underground Storage Tanks			0	
5/9/08	9/25/08	404 Permit Obtainment			0	
		PFPR Inspection	7/14/06	7/14/06	100	
5/9/08	5/22/08	R/W Plans Preparation			0	
6/6/08	6/11/08	R/W Plans Final Approval			0	
5/9/08	5/13/08	L & D Report Development and Approval			0	
6/12/08	4/22/10	R/W Acquisition			6	
11/4/08	11/17/08	Stake R/W			0	
		Soil Survey	7/1/03	12/16/03	100	
5/9/08	6/16/08	Bridge Foundation Investigation			0	
5/14/08	3/23/09	Final Design			0	
5/19/08	9/5/08	Final Bridge Plans Preparation			0	
4/14/09	4/15/09	FFPR Inspection			0	
4/29/09	5/12/09	FFPR Response			0	

BIKE PROVISIONS INCLUDED?: Y MEASUREMENT E CONSULTANT: L UT EST:

PDD: CONSULTANT SELECTION DELAYED PENDING LAND SWAP. 3/31/99 & 3/6/01
Bridge: SCP 12/09/03 CONSUL-JJ&G
Design: JJ&G[SPLIT @ REQ OF CITY] W/ 0008635[REV CONCEPT (10-29-07)]
EIS: FONSI[Apvd9-1-04]Re4-13-06[NotOnSchedRW]Updated1-29-08[Rish
LGPA: PMA SGN MUSCOGEE DO PE[ROW & UTIL 12-18-01.
Programming: PH 0006472 & 0008635 WAS SPLIT FM THIS PROJECT
Railroad: NS
Traffic Op: KBH:SEND CNSLT S&M PLANS 4 REV 3/5/99 \$ *|pfr sent 9/9/06 w
Utility: NEED 2ND SUBMISSION PLANS 03/05/07
EMG: RECST/REHAB (WIDENING); PE BY COUNTY

R/W INFORMATION:

PREL PARCEL CT: 17 TOTAL PARCEL CT: ACQUIRED BY: LOC ACQ MGR: Gooch, Audrey (LOC)
 UNDER-REVIEW CT: RELEASED OPT-PEND CT: DEEDS CT: COND-PEND CT: COND-FILED CT:
 RW CERT DT: ACQUIRED CT: RELOCATION CT: