DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: EDS-545(14), (17), (18) Toombs/Emanuel **OFFICE:** Engineering Services
P.I. Nos.: 522130, 221900 & 221910
S.R. 4/U.S. 1 Widening/Reconstruction

DATE: April 22, 2008

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

TO: Babs Abubakari, P.E., State Consultant 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
TYPICAL SECTIONS (S)				
TS-1	Reduce project design speed to 55 mph	$11,449,115	Yes	This should be done.
TS-2	Reduce travel lanes to 11 ft.	$1,794,016	No	This is a rural highway with a 55 mph Design Speed.
BRIDGES (B)				
B-1	Use all equal span lengths and use all pile intermediate bents at the U.S. 1 bridge over the Ohoopee River	$237,501	Yes	This should be done.
B-3	Minimize the number of bents at the bridge over the Ohoopee River	-$576,963 (cost increase)	No	Results in a cost increase due to the larger beams that would be required.

ALT #	Description	Potential Savings/LCC	Implement	Comments
REDUCE CLEAR ZONE REQUIREMENTS (RCR)				
RCR-2B	Use a 32 ft. median for the length of the project	$239,107	No	This only applies to Project EDS-545(14). The other two projects already had a 32' median shown. Right of Way acquisition has already begun on Project EDS-545(14) and it is in Final Design stage activities.
BYPASS OAK PARK (BOP)				
BOP-2	Move Oak Park Bypass West	-$346,522 (cost increase)	No	This results in a cost increase and would impact the Environmental Document.
MAXIMIZE USE OF EXISTING RIGHT OF WAY (MR)				
MR-1 & 2	Modify reversing curves near the Historic Property (Union Camp Tax Department) by shortening tangents between Sta. 240+00 and Sta. 278+00 and flattening the curve	$750,000	Yes	This should be done.
MR-3	Modify reversion curves near the Historic Property (Union Camp Tax Department) by transitioning the widening to the east and paralleling the existing alignment to the north	$750,000	No	This doesn't apply since MR-1 & 2 will be implemented.

ALT #	Description	Potential Savings/LCC	Implement	Comments
MAXIMIZE USE OF EXISTING RIGHT OF WAY (MR) - continued				
MR-4	Modify reversing curves near the Historic Property (Union Camp Tax Department) by placing the new alignment west of the Historic Property at Sta. 245+00	Design Suggestion		This doesn't apply since MR-1 & 2 will be implemented.
MR-7	Tighten the horizontal curve of the independent alignment near Pine Log Road	$526,713	Yes	This should be done.
MR-8	Tighten the horizontal curve of the independent alignment near Harrell Cemetery Road	$128,450	Yes	This should be done.
CONTRACT PACKAGING AND STAGING (CP)				
CP-1	Let Contracts (17) and (18) followed by Contract (14)	Design Suggestion	No	This suggestion could be considered but the decision will be made at a later date.
CP-3	Expedite Bypass Contract (17)	Design Suggestion	No	The schedule will be determined at a later date.
CP-4	Let Contracts (14), (17), and (18) as one large Contract	Design Suggestion	No	This suggestion could be considered but the decision will be made at a later date.
INTERSECTION IMPROVEMENTS (II)				
II-1B	Eliminate South S.R. 86/U.S. 1 Connection	$253,654	Yes	This should be done.

ALT #	Description	Potential Savings/LCC	Implement	Comments
INTERSECTION IMPROVEMENTS (II) - continued				
II-2	Design all "T" Intersection approaches at 45 mph	Design Suggestion	Yes	This should be done where feasible.
II-3	Realign S.R. 86 (North) north of current design location and intersect U.S. 1 at Sta. 204+00	$1,108,412	Yes	This should be done.
II-4	Signalize the S.R. 130/U.S. 1 Intersection	-$70,000 (cost increase)	Yes	This should be done if Signal Warrants dictate.
II-6	Modify Hidden Acre Road Intersection with U.S. 1 to a 90 degree skew	Design Suggestion	No	The existing skew angle appears to be adequate for this low volume road. This will be ameliorated with the implementation of MR-1 & 2.
II-7	Line up driveway across from Rackett Town Road	Design Suggestion	No	Right of Way would need to be acquired from one Property Owner to give access to another Property Owner.
II-8	Eliminate the east leg of Pine Log Road and abandon the old Right of Way	Design Suggestion	Yes	This will be done under VE Alternative No. MR-7.

A meeting was held on March 20, 2008 and Mike Haithcock and David Norwood with Consultant Design, Tim Matthews with Road 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.

Additional information was provided by the Project Manager on March 21 and April 14, 2008.

Approved: _____ **Date:** 4/22/08
Gerald M. Ross, P. E., Chief Engineer

BKS/REW

Attachments

c: Gus Shanine, FHWA
Todd Long
Babs Abubakari
Mike Haithcock
Brent Story
David Norwood
James Magnus
Brad Saxon
Will Murphy
Russell Merritt
Paul Liles
Bill Ingalsbe
Bill Duvall
Doug Franks
Amber Perkins
Ken Werho
Nabil M. Raad
Lisa Myers

Preconstruction Status Report By PI Number

Print Date: 04/17/2008

PROJ ID	COUNTY	DESCRIPTION	MGMT. ROW DATE	SCHED DATE	MGMT. LET DATE
221900-	Emanuel	SR 4/US 1 FM SOUTH TO NORTH CTY LMTS IN OAK PARK/NEW LOC	Oct-08	Aug-10	Apr-10

EDS00-0545-00(017) *FIELD DIST:* 2
TIP #: *TWIN:* *US:* 1
MPO: Not Urban *EST DATE:* 1/3/2007
MODEL YR:
PROJ MGR: Norwood, David *PROJ LENGTH:* 2.20
PROG TYPE: Reconstruction/Rehabilitation *TYPE WORK:* Widening
CONCEPT: ADD 4R(M20/44) *LET RESP:* DOT Congressional Districts: 12

Phase	Approved	Proposed	Cost	Fund	Status
PE	1994	1994	370,000.00	EDS	AUTHORIZED
PE	2002	2002	195,479.00	CFTS	AUTHORIZED
ROW	2008	2009	2,091,084.80	RRB	PRECST
CST	2009	2009	12,782,000.00	RRB	PRECST

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept	11/9/1991	1/5/1993	100	10/28/96 PIM 11/13/96
		Concept Meeting	2/18/1992	2/18/1992	100	Citizen's meeting 12/1/98 PIM
		Concept Submittal and Review	4/17/1992	4/17/1992	100	4/27/00 "C" given NTP 3/21/02
		Receive Preconstruction Concept Approval	1/6/1994	1/6/1994	100	Rev concept apprvd-median= 32'
		Management Concept Approval Complete	**3/18/2002**	**3/21/2002**	**100**	to reduce wetland impacts 1/26/06
4/25/2008	7/24/2008	Revise or Re-validate Approved Concept			0	PIOH in Lyons (Major widening
4/30/2008	5/6/2008	Value Engineering Study	4/3/2007		97	signs in place)
		Public Information Open House Held	12/1/1998	12/1/1998	100	
		Environmental Approval	1/15/1996	2/12/2007	100	
		Public Hearing Held	2/12/2007	2/12/2007	100	
4/24/2008	4/24/2008	Mapping	1/26/2003		100	
4/24/2008	4/24/2008	Field Surveys/SDE	1/21/2003		100	
4/25/2008	**7/17/2008**	**Preliminary Plans**	**2/9/2003**		96	
4/25/2008	5/30/2008	Underground Storage Tanks	3/31/1992		99	
4/25/2008	7/11/2008	404 Permit Obtainment			0	
4/25/2008	4/28/2008	PFPR Inspection			0	
		R/W Plans Preparation	3/26/2002	6/17/2002	100	
5/23/2008	**5/28/2008**	**R/W Plans Final Approval**			**0**	
4/25/2008	4/29/2008	L & D Report Development and Approval	1/5/1994		100	
5/29/2008	6/3/2010	R/W Acquisition			0	
10/21/2008	11/3/2008	Stake R/W			0	
		Soil Survey	2/11/2004	2/11/2004	100	
6/3/2008	**2/10/2009**	**Final Design**			0	
3/4/2009	3/5/2009	FFPR Inspection			0	
3/19/2009	4/1/2009	FFPR Response			0	

BIKE PROVISIONS INCLUDED?: Y *MEASUREMENT SYSTEM:* E *CONSULTANT:* C *UT EST:* $ 45,500.00

PDD: BOND. [01R] NEED 404/PAR! 9/29/99. HEL says HOT! 2/16/05.
Bridge: NO BRIDGE REQUIRED
Design: B&E JCKSN NTP 4-27-00
EIS: FONSI 2-12-07 R1-30-08/OnScheduleROW/11-28-07/Perkins
LGPA: OAK PARK SGN DO UTILITIES 2-13-03|RESCISSION LETTER SENT TO OAK PARK 6-3-05.
Planning: REV PROJ CONCEPT REPORT 7-8-98/COST=$4 595 000|RWU=$1 109 000
Programming: #1 12-02|TEMP SR 1090 & TB-TC|#2 3-08
ROW: 55 1-31-94: POTENTIAL RELOCATIONS = 3 LEFT/1 RIGHT
Traffic Op: >PLANS RECD FOR PRELIMINARY SIGNING AND MARKING 2-13-08
UST: P48-1/16"FP@8';P57-1/8"FP@8.5';P11;26;43;44;49;60-SHN@6'-15'
Utility: (RL) Need 2nd sub. plans from Design 2/8/2008.
EMG: 1337M (H85-E/V29); C=M/S/D; REFLY 5603/99; !PHOTOS TRANS!
Conceptual Design: XFERRED TO OCD APR 2007 - 07-30-2007

R/W INFORMATION:

PREL PARCEL CT: 21 *TOTAL PARCEL CT:* *ACQUIRED BY:* DOT *ACQ MGR:*
UNDER-REVIEW CT: *RELEASED CT:* *OPT-PEND CT:* *DEEDS CT:* *COND-PEND CT:* *COND-FILED CT:*
RW CERT DT: *ACQUIRED CT:* *RELOCATION CT:*

Preconstruction Status Report By PI Number

Print Date: 04/17/2008

PROJ ID	COUNTY	DESCRIPTION	MGMT. ROW DATE	SCHED DATE	MGMT. LET DATE
221910-	Emanuel	SR 4/US 1 FROM NCL OAK PARK TO I-16	Oct-08	Dec-09	Apr-10

EDS00-0545-00(018) *FIELD DIST:* 2
TIP #: *TWIN:* *US:* 1
MPO: Not Urban *EST DATE:* 1/3/2007
MODEL YR:
PROJ MGR: Norwood, David *PROJ LENGTH:* 2.30
PROG TYPE: Reconstruction/Rehabilitation *TYPE WORK:* Widening
CONCEPT: ADD 4R(MED 44) *LET RESP:* DOT Congressional Districts: 12

Phase	Approved	Proposed	Cost	Fund	Status
PE	1994	1994	460,312.45	EDS	AUTHORIZED
ROW	2008	2008	417,000.00	RRB	PRECST
CST	2009	2009	18,447,000.00	RRB	PRECST

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept	11/9/1991	2/17/1992	100	10/15/96 Locals want to light this
		Concept Meeting	2/18/1992	2/18/1992	100	interchange 10/28/96 PIM
		Concept Submittal and Review	4/17/1992	4/17/1992	100	12/1/98 PIM 4/27/00 "C" given
		Receive Preconstruction Concept Approval	5/29/1992	5/29/1992	100	NTP 3/8/01 Reducing median to
		Management Concept Approval Complete	**3/18/2002**	**3/21/2002**	**100**	32' 1/26/06 PIOH in
4/25/2008	7/24/2008	Revise or Re-validate Approved Concept			0	Lyons(Major widening signs in
4/30/2008	5/6/2008	Value Engineering Study	4/3/2007		97	place)
		Public Information Open House Held	12/1/1998	12/1/1998	100	
		Environmental Approval	1/15/1996	2/12/2007	100	
		Public Hearing Held	2/12/2007	2/12/2007	100	
4/24/2008	4/24/2008	Mapping	1/26/2003		100	
4/24/2008	4/24/2008	Field Surveys/SDE	1/21/2003		100	
4/25/2008	**7/17/2008**	**Preliminary Plans**	**2/9/2003**		96	
		Preliminary Bridge Design	6/24/2002	2/9/2003	100	
5/21/2008	5/20/2008	Underground Storage Tanks	3/31/1992		100	
4/25/2008	9/12/2008	404 Permit Obtainment			0	
8/8/2008	8/11/2008	PFPR Inspection			0	
9/16/2008	10/13/2008	R/W Plans Preparation			0	
11/11/2008	**11/14/2008**	**R/W Plans Final Approval**			**0**	
9/16/2008	9/18/2008	L & D Report Development and Approval			0	
11/17/2008	10/12/2009	R/W Acquisition			0	
4/9/2009	4/22/2009	Stake R/W			0	
		Soil Survey	9/17/2001	6/20/2002	100	
		Bridge Foundation Investigation	8/21/2002	3/15/2004	100	
9/19/2008	**5/29/2009**	**Final Design**			0	
10/20/2008	12/12/2008	Final Bridge Plans Preparation			0	
6/22/2009	6/23/2009	FFPR Inspection			0	
7/7/2009	7/20/2009	FFPR Response			0	

BIKE PROVISIONS INCLUDED?: Y *MEASUREMENT SYSTEM:* E *CONSULTANT:* C *UT EST:* $ 0.00

PDD: BOND. LOCALS WANT I-16 INT LIGHTED? 9/29/99. HEL says HOT! 2/16/05.
Bridge: SCP 4/01/05 CONSUL-B&EJ
Design: B&E JCKSN NTP 4-27-00
EIS: FONSI 2-12-07 R1-30-08/onSchRw/11-28-07/Perkins
LGPA: REQ EMANUEL DO UTILITIES 6-10-02|RESCISSION LETTER SENT TO EMANUEL 6-3-05.
Programming: 1625 12-02;4-03;12-03;3-04
ROW: 20 1-31-94: POTENTIAL RELOCATIONS = 3 LEFT/0 RIGHT
Traffic Op: >PLANS RECD FOR PRELIMINARY SIGNING AND MARKING 2-13-08
Utility: (RL) Need 2nd sub. plans from Design 2/8/2008.
EMG: 1337M (H85-E/V29); C=M/S/D; REFLY 5928/'00; !PHOTOS TRANS!
Conceptual Design: REFERRED TO OCD APR 2007 - 07-30-2007

R/W INFORMATION:
PREL PARCEL CT: 6 *TOTAL PARCEL CT:* *ACQUIRED BY:* DOT *ACQ MGR:*
UNDER-REVIEW CT: *RELEASED CT:* *OPT-PEND CT:* *DEEDS CT:* *COND-PEND CT:* *COND-FILED CT:*
RW CERT DT: *ACQUIRED CT:* *RELOCATION CT:*

Preconstruction Status Report By PI Number

Print Date: 04/17/2008

PROJ ID	COUNTY	DESCRIPTION	MGMT. ROW DATE	SCHED DATE	MGMT. LET DATE
522130-	Emanuel, Toombs	SR 4/US 1 FM LYONS CL TO SOUTH CL/OAK PARK IN EMANUEL CO	Jun-07	Aug-09	Dec-09

EDS00-0545-00(014) *FIELD DIST:* 2, 5
TIP #: *TWIN:* *US:* 1
MPO: Not Urban *EST DATE:* 6/21/2007
MODEL YR:
PROJ MGR: Norwood, David *PROJ LENGTH:* 9.20
PROG TYPE: Reconstruction/Rehabilitation *TYPE WORK:* Widening
CONCEPT: ADD 4R(MED 44) *LET RESP:* DOT

Phase	Approved	Proposed	Cost	Fund	Status
PE	1994	1994	1,432,684.60	EDS	AUTHORIZED
PE	2002	2002	408,692.19	RRB	AUTHORIZED
PE	2002	2002	637,696.27	CFTS	AUTHORIZED
ROW	2007	2007	4,621,851.00	RRB	AUTHORIZED
CST	2010	2010	38,917,000.00	RRB	PRECST

Congressional Districts: 12

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept	11/1/1990	6/30/2002	100	SURVEY 10-9-90 WILL BE
		Concept Meeting	6/28/2002	6/30/2002	100	CONSULTANT SCHED 11/3/98
		Concept Submittal and Review	5/27/2002	6/30/2002	100	PROPERTY DATA TO OEL BY
		Receive Preconstruction Concept Approval	6/17/2002	6/30/2002	100	DIST. 2/TAS/9-26-05/draft Env
		Management Concept Approval Complete	**9/14/1992**	**9/14/1992**	**100**	doc to FHWA
4/25/2008	7/24/2008	Revise or Re-validate Approved Concept			0	9-21-05/1-26-06/PIOH
4/30/2008	5/6/2008	Value Engineering Study	4/3/2007		97	scheduled/2-13-06/will revise EA
		Public Information Open House Held	1/26/2006	1/26/2006	100	and advertise for opportunity for
		Environmental Approval	1/15/1996	2/12/2007	100	PHOH/need ROW
		Public Hearing Held	2/12/2007	2/12/2007	100	plans/2-12-07/FHWA has signed
4/26/2008	4/26/2008	Mapping			0	Env doc/11-7-07/Notice to
4/29/2008	6/2/2008	Field Surveys/SDE			0	Proceed was issued to
5/2/2008	**5/1/2008**	**Preliminary Plans**	**2/9/2003**		100	appraisers/2-22-08/appraisals
		Preliminary Bridge Design	6/24/2002	1/30/2004	100	under review
4/25/2008	5/30/2008	Underground Storage Tanks			0	
4/25/2008	7/11/2008	404 Permit Obtainment			0	
		PFPR Inspection	4/11/2007	4/11/2007	100	
		R/W Plans Preparation	4/20/2007	4/25/2007	100	
		R/W Plans Final Approval	**5/25/2007**	**6/27/2007**	**100**	
		L & D Report Development and Approval	6/10/2007	6/21/2007	100	
4/25/2008	7/1/2009	R/W Acquisition			0	
5/9/2008	5/22/2008	Stake R/W			0	
		Soil Survey	9/17/2001	9/24/2004	100	
		Bridge Foundation Investigation	9/26/2001	9/20/2004	100	
4/25/2008	**11/6/2008**	**Final Design**	**4/25/2007**		65	
5/16/2008	7/10/2008	Final Bridge Plans Preparation			0	
11/28/2008	12/1/2008	FFPR Inspection			0	
12/15/2008	12/26/2008	FFPR Response			0	

BIKE PROVISIONS INCLUDED?: N *MEASUREMENT SYSTEM:* E *CONSULTANT:* C *UT EST:* $ 0.00

PDD: BOND. 2000 CONSULT. 10/8/99. North of Lyons. w/0001365 Toombs. 3/3/04. Let's go! 10/5/04. HEL says HOT! 2/16/05.
Bridge: SCP 2/02/04 CONSUL-MA&A
Design: QK4 - LYONS ENVIROMENTAL DOC
EIS: FONSI 2-12-07 R 1-30-08/onSchCST/11-28-07/Perkins
LGPA: RESCISSION LETTER SENT TO TOOMBS 4-27-05|NOTIFICATION LETTER SENT TO EMANUEL 4-27-05|REQ TOOMBS DO UTILITIES 10-13-00.
Location: District/11-7-07/reviewing consultant data
Programming: PE MODIFIED 8/96|#1 12-02|#2 3-08
Traffic Op: KN|SND CNSLTNT PLNS FR REVW|081805|$-!PFPR sent 3/21/07 kw/n
Utility: Need 2nd submission plans for utility owners. 5/2/07
EMG: 1337M (H85-E/V29); C=M/S/D; !PHOTOS TRANS!
Conceptual Design: PHOH NOT REQD - XFERRED TO OCD APR 2007 - 07-30-2007

R/W INFORMATION:

PREL PARCEL CT: 70 *TOTAL PARCEL CT:* 75 *ACQUIRED BY:* DOT *ACQ MGR:* O'Quinn, Andy
UNDER-REVIEW CT: 22 *RELEASED CT:* 27 *OPT-PEND CT:* 0 *DEEDS CT:* 7 *COND-PEND CT:* 0 *COND-FILED CT:* 0
RW CERT DT: *ACQUIRED CT:* 7 *RELOCATION CT:* 0

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545(14), P.I. No. 522130, Emanuel/Toombs Counties
EDS-545(17), P.I. No. 221900, Emanuel County
EDS-545(18), P.I. No. 221910, Emanuel County

OFFICE Atlanta

DATE February 20, 2008

FROM Mohammed (Babs) Abubakari, P.E., State Consultant Design Engineer

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

SUBJECT **Value Engineering Study Response**

The following are responses to the Value Engineering Study Report dated August 22, 2007 for the above referenced projects. The responses were delayed while GDOT conducted an existing pavement evaluation to determine if pavement could be retained as recommend in this VE Study. The existing pavement evaluation is still being conducted. However, in order to progress these projects forward and no longer delay right-of-way acquisition we are offering these responses.

TS-1 – Reduce project design speed to 55 mph.

YES- This recommendation was made in order to retain existing pavement and reduce the footprint of the typical section. This recommendation will be implemented pending the outcome of the existing pavement evaluation.

TS-2 - Reduce travel lanes to 11 ft.

NO- A 65 mph or 55 mph speed design will be used. 11-foot lanes are not recommended for this speed design. The estimated savings would be reduced with the implementation of TS-1.

B-1 – Use all equal span lengths and use all pile intermediate bents at the US 1 bridge over the Ohoopee River.

YES- This recommendation will be implemented pending reevaluation of the hydraulic study.

B-3 – Minimize number of bents at bridge over Ohoopee River.

NO- This recommendation would require the use of 72-inch bulb tee beams that are 3 feet deeper than the proposed beams and would reduce the hydraulic opening. This recommendation would cost $576,963 more than the proposed design.

RCR-2B – Use a 32-ft. median for the length of project.

NO- This recommendation only applies to EDS-545(14). Eds-545(17) & (18) already have 32-ft medians proposed as an effort to reduce wetland impacts. EDS-545(14) is in Final Design and ROW acquisition. The cost to revise the design from a 44-foot median to a 32-foot median would be approximately $150,000 (see attached). The cost savings as shown in the VE Study are $239,000. This would net a savings of $90,000. This does not take into consideration the time loss in the redesign. Since this project is currently in ROW Acquisition we do not recommend this implementing.

BOP-2 – Move Oak Park Bypass West.

NO- This recommendation is more costly and would greatly impact our environmental document and public involvement. The VE Study indicates "this alternative was developed on the premise that a wider separation between US 1 and BUS 1 would benefit Oak Park's long-term growth". Given the historical growth of Oak Park this is not a valid premise.

MR-1 & 2 - Modify reversing curves near historic property (Union Camp Tax Department) by shortening tangents between STA 240+00 & STA 278+00 and flattening the curve.

YES

MR-3 – Modify reversing curves near historic property (Union Camp Tax Department) by transitioning widening to the east and paralleling the existing alignment to the north.

NO- Implementing MR-1 & 2 instead. This recommendation has more disadvantages than MR-1 & 2.

MR-4 – Modify reversing curves near historic property (Union Camp Tax Department) by placing the new alignment west of the historic property at STA 245+00.

NO- Implementing MR-1 & 2 instead. This recommendation has more disadvantages than MR-1 & 2.

MR-7 – Tighten horizontal curve of independent alignment near Pine Log Road.

YES

MR-8 – Tighten horizontal curve of independent alignment near Harrell Cemetery Road.

YES

CP-1 – Let contracts (17) & (18) first followed by Contract (14).

This will be dictated by ROW acquisition and funding.

CP-3 – Expedite Bypass Contract (17).

This will be done as much as possible without delaying the other two projects.

CP-4 – Let contracts (14), (17) & (18) as one large contract.

NO- disadvantages too great.

II-1B – Eliminate south SR 86/US 1 connection.

YES

II-2 – Design all "T" intersection approaches at 45 mph.

YES- This will be done where practical and safe.

II-3 – Realign SR 86 (North) north of current design location and intersect US 1 at STA 204+00.

YES

II-4 – Signalize the SR 130/US 1 intersection.

YES- This will be done if a signal warrant analysis determines a signal is needed.

II-6 – Modify Hidden Acre Road intersection with US 1 to a 90 degree skew.

YES- This will be aligned as close to 90 degrees as feasible with the implementation of MR-1 & 2.

II-7 – Line up driveway across from Racket Town Road

NO- Cannot be done without interfering with proposed ditch, sediment basin and it would have to be placed partially on adjacent property owner.

II-8 – Eliminate the east leg of Pine Log Road and abandon old right-of-way.

This will be done with the implementation of MR-7.

MBA:MAH:DAN

cc: Brent Story, State Road and Airport Design Engineer
ATTN: Tim Matthews
Matt Houser, Qk4

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emanuel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

Phase	Description	Total Hours	Total Cost	Total Other Direct Costs	Fixed Fee @ 10%	Total Labor Cost	Direct Labor Cost	Indirect Costs (Overhead) @ 160.00%	FCCM @	
	TOTALS ==>	1,300	$ 104,767.63	$ -	$ 9,524.33	$ 95,243.30	$ 36,632.04	$ 58,611.26	$ -	
0	Public Involvement			$ -				$ -	$ -	
1	Concept Development		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
2	Database Preparation		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3	Environmental Document		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4	Preliminary Plans	1,300	$ 104,767.63	$ -	$ 9,524.33	$ 95,243.30	$ 36,632.04	$ 58,611.26	$ -	
5	Right of Way Plans		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5A	Right of Way Acquisition		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6	Final Plans		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
7	Construction Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
8	Special Studies		$ -	$ -	$ -	$ -	$ -	$ -	$ -	

Project Level Summary - Labor

			Staff Type / Project Hourly Rates / Hours					Project Hourly Rates Include Escalation Over Current Rates of:		
		Total	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
			$54.25	$44.23	$37.02	$26.78	$25.00	$20.67	$10.30	$10.30
	TOTAL HOURS ==>	1,300		28	256	368	616	32		
	TOTAL DIRECT LABOR COST==>	$ 36,632	$ -	$ 1,238	$ 9,477	$ 9,855	$ 15,400	$ 661	$ -	$ -

Project Level Summary - Other Direct Costs

			Other Direct Costs							
		Total Other Direct Costs								
	TOTALS ==>	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emauel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

Phase	Description	Total Hours	Staff Type / Project Hourly Rates / Hours						Includes Escalation of:	
			Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
			$46.88	$44.23	$37.02	$26.78	$25.00	$20.67	$10.30	$10.30
	TOTALS ==>	1,300		28	256	368	616	32		
0	Public Involvement									
1	Concept Development									
2	Database Preparation									
3	Environmental Document									
4	Preliminary Plans	1,300		28	256	368	616	32		
5	Right of Way Plans									
5A	Right of Way Acquisition									
6	Final Plans									
7	Construction Services									
8	Special Studies									

Phase	Description	Other Direct Costs								
		Total Other Direct Costs								
	TOTALS ==>	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
0	Public Involvement	$ -								
1	Concept Development	$ -								
2	Database Preparation	$ -								
3	Environmental Document	$ -								
4	Preliminary Plans	$ -								
5	Right of Way Plans	$ -								
5A	Right of Way Acquisition	$ -								
6	Final Plans	$ -								
7	Construction Services	$ -								
8	Special Studies	$ -								

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emanuel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
0	**Public Involvement**									
	Project Management & Coordination									
	Assist with Public Involvement Plan									
	Prepare for, Attend PIOH, Respond to Comments									
	Prepare for, Attend PHOH, Respond to Comments									
	Assist with Organizing a Citizen's Advisory Committee (CAC)									
	Plan, Prepare for, Participate in CAC Meetings									
	Plan, Prepare for, Conduct Local Government Meetings									
	Meetings, Coversations with Individual Property Owners									
	Prepare for, Attend Key Stakeholder Meetings									
	Prepare for, Attend EJ Community Meetings									
	Prepare for, Attend Neighborhood Meetings									
	Prepare for, Attend Special Interest Group Meetings									
	Prepare for, Participate in Charrette									
	Prepare 3D Visualizations									
	Prepare 3D Animations									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
1	**Concept Development**									
	Project Management & Coordination									
	Prepare Project Management Plan									
	Prepare Quality Control Plan									
	Internal Quality Control Reviews									
	External Peer Review									
	Prepare Concept Property Database									
	Compile/Enhance Concept Database									
	Contribute to Interchange Modification Report (IMR)									
	Contribute to Interchange Justification Report (IJR)									
	Prepare Concept Layout									
	Validate/Revise Concept Layout									
	Prepare Concept Profiles									
	Prepare Concept Cross Sections									
	Prepare Concept Construction Cost Estimate									
	Prepare Concept Report									
	Revise Concept Report									
	Contribute to Concept Alternative Summary/Report									
	Contribute to Concept Alternate Selection Report									
	Prepare Design Data Book									
	Revise Design Data Book									
	Prepare PAR Layouts, Attend Meeting									
	Prepare for, Attend, Document Initial Concept Team Meeting									
	Prepare for, Attend Concept Team Meeting Dry Run									
	Prepare for, Attend, Document Concept Team Meeting									
	Provide Materials for Value Engineering Study									
	Participate in Value Engineering Study									
	Revise Concept Report per VE Study Recommendations									

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emauel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
2	**Database Preparation**									
	Project Management & Coordination									
	Roadway QC of Survey Database									
	Enhance Topographic Database for Design									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
3	**Environmental Document**									
	Project Management & Coordination - During Re-Evaluation									
	Roadway QC of Environmental Documen - During Re-Evaluation									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
4	**Preliminary Plans**	1,300		28	256	368	616	32		
	Project Management & Coordination	80		8	40			32		
	Coordinate with Railroads									
	Coordinate with Utility Companies									
	Prepare Typical Sections	28			4	8	16			
	Prepare Preliminary Pavement Design									
	Prepare Construction Layout/Stakeout Sheet									
	Prepare Corridor Location Map/Aerial Mosaic (New Location)									
	Prepare Roadway Plans, Profiles, etc.	260			60	80	120			
	Prepare Roadway Cross-Sections	160			40	40	80			
	Prepare Preliminary Driveway Profiles	80				40	40			
	Prepare Preliminary Drainage Design and Layout	120			40	40	40			
	Prepare Preliminary Drainage Profiles/Cross Sections	140			20	40	80			
	Prepare Preliminary Staging Plans	140			20	40	80			
	Prepare Preliminary Staging Cross Sections	140			20	40	80			
	Prepare Prelim. Erosion, Sed. & Pollution Control Plans	68			8	20	40			
	Prepare Existing Utility Plans from Utility Co. Markups	64			4	20	40			
	Prepare Existing Utility Plans from SUE Database									
	Prepare Retaining Wall Locations and Envelopes									
	Prepare Detour Report									
	Prepare Draft Special Provisions									
	Prepare Design Exception Report									
	Prepare Design Variance Report									
	Prepare Prelim. Earthwork Qtys. by Stage Construction									
	Prepare Detailed Construction Cost Estimate									
	Prepare for, Participate in Constructability Review									
	Prepare for, Participate in PFPR									
	Address PFPR Comments									
	Internal Quality Control Reviews	20		20						
	External Peer Review									
	Traffic Signal Mod.									
	Signing & Marking									
	Preliminary Right of Way									

Georgia Department of Transportation

COST PROPOSAL

Proj. No: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emauel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
5	**Right of Way Plans**									
	Project Management & Coordination									
	Prepare Right-of-Way Plans									
	R/W Plans Review/Revisions									
	Internal Quality Control Reviews									
	External Peer Review									
	Preparing Staking Data									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
5A	**Right of Way Acquisition**									
	Project Management & Coordination									
	Property Owner's Meeting									
	Revise R/W Plans per R/W Acquisition									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
6	**Final Plans**									
	Project Management & Coordination									
	Prepare Location and Design Report									
	Coordinate with Utility Companies for Relocations									
	Finalize Roadway Plans, Profiles, etc.									
	Finalize Drainage Design, Profiles, Cross Sections									
	Finalize Driveway Profiles									
	Prepare Detailed Plan Sheets									
	Prepare Special Grading Plans									
	Finalize Pavement Design									
	Finalize Erosion, Sed. & Pol. Ctrl. Plans for Staged Constr									
	Finalize Staging Plans and Details									
	Finalize Staging Cross-Sections									
	Prepare Final Utility Plans from Utility Company Markups									
	Prepare Special Construction Details									
	Prepare Special Design Box Culverts									
	Prepare Special Provisions									
	Prepare Supplemental Specifications									
	Finalize Detailed Construction Quantities, Cost Estimate									
	Prepare for, Participate in FFPR									
	Address FFPR Comments									
	Revise Construction Plans per R/W Acquisition Revisions									
	Revise Plans, Prepare Amendments During Bidding Process									
	Internal Quality Control Reviews									
	External Peer Review									

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emauel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
7	Construction Services									
	Project Management & Coordination									
	Answer Design Questions during Construction									
	Participate in Post-Construction Review									
	Revise Plans for Use-On Construction and/or Amendments									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
8	Special Studies									

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emauel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

Phase	Description	Total Hours	Total Cost	Total Other Direct Costs	Fixed Fee @ 10%	Total Labor Cost	Direct Labor Cost	Indirect Costs (Overhead) @ 162.85%	FCCM @	
	TOTALS ==>	368	$ 44,612.09	$ -	$ 4,055.65	$ 40,556.44	$ 15,429.50	$ 25,126.94	$ -	
0	Public Involvement			$ -				$ -	$ -	
1	Concept Development	148	$ 14,780.58	$ -	$ 1,343.69	$ 13,436.89	$ 5,112.00	$ 8,324.89	$ -	
2	Database Preparation		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3	Environmental Document		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4	Preliminary Plans	220	$ 29,831.51	$ -	$ 2,711.96	$ 27,119.55	$ 10,317.50	$ 16,802.05	$ -	
5	Right of Way Plans		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5A	Right of Way Acquisition		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6	Final Plans		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
7	Construction Services		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
8	Special Studies		$ -	$ -	$ -	$ -	$ -	$ -	$ -	

Project Level Summary - Labor

		Total	Staff Type / Project Hourly Rates / Hours							
			Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
			$62.50	$62.50	$43.25	$29.50	$24.00	$21.00		
	TOTAL HOURS ==>	368		100	122	90	24	32		
	TOTAL DIRECT LABOR COST==>	$ 15,430	$ -	$ 6,250	$ 5,277	$ 2,655	$ 576	$ 672	$ -	$ -

Project Level Summary - Other Direct Costs

		Total Other Direct Costs	Other Direct Costs							
	TOTALS ==>	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emanuel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

Phase	Description	Total Hours	Staff Type / Project Hourly Rates / Hours: Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator	Includes Escalation of:	
			$62.50	$62.50	$43.25	$29.50	$24.00	$21.00		
	TOTALS ==>	368		100	122	90	24	32		
0	Public Involvement									
1	Concept Development	148		12	40	64	24	8		
2	Database Preparation									
3	Environmental Document									
4	Preliminary Plans	220		88	82	26		24		
5	Right of Way Plans									
5A	Right of Way Acquisition									
6	Final Plans									
7	Construction Services									
8	Special Studies									

Phase	Description	Total Other Direct Costs	Other Direct Costs							
	TOTALS ==>	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
0	Public Involvement	$ -								
1	Concept Development	$ -								
2	Database Preparation	$ -								
3	Environmental Document	$ -								
4	Preliminary Plans	$ -								
5	Right of Way Plans	$ -								
5A	Right of Way Acquisition	$ -								
6	Final Plans	$ -								
7	Construction Services	$ -								
8	Special Studies	$ -								

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emauel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
0	**Public Involvement**									
	Project Management & Coordination									
	Assist with Public Involvement Plan									
	Prepare for, Attend PIOH, Respond to Comments									
	Prepare for, Attend PHOH, Respond to Comments									
	Assist with Organizing a Citizen's Advisory Committee (CAC)									
	Plan, Prepare for, Participate in CAC Meetings									
	Plan, Prepare for, Conduct Local Government Meetings									
	Meetings, Coversations with Individual Property Owners									
	Prepare for, Attend Key Stakeholder Meetings									
	Prepare for, Attend EJ Community Meetings									
	Prepare for, Attend Neighborhood Meetings									
	Prepare for, Attend Special Interest Group Meetings									
	Prepare for, Participate in Charrette									
	Prepare 3D Visualizations									
	Prepare 3D Animations									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
1	**Concept Development**	148		12	40	64	24	8		
	Project Management & Coordination									
	Prepare Project Management Plan									
	Prepare Quality Control Plan									
	Internal Quality Control Reviews									
	External Peer Review/Project Management									
	Prepare Concept Property Database									
	Compile/Enhance Concept Database									
	Contribute to Interchange Modification Report (IMR)									
	Contribute to Interchange Justification Report (IJR)									
	Prepare Concept Layout									
	Validate/Revise Concept Layout									
	Prepare Concept Profiles									
	Prepare Concept Cross Sections									
	Prepare Concept Construction Cost Estimate									
	Prepare Concept Report									
	Revise Concept Report	30		2	8	16		4		
	Contribute to Concept Alternative Summary/Report									
	Contribute to Concept Alternate Selection Report									
	Prepare Design Data Book									
	Revise Design Data Book	22		2	8	8		4		
	Prepare PAR Layouts, Attend Meeting									
	Prepare for, Attend, Document Initial Concept Team Meeting									
	Prepare for, Attend Concept Team Meeting Dry Run									
	Prepare for, Attend, Document Concept Team Meeting									
	Provide Materials for Value Engineering Study									
	Participate in Value Engineering Study									
	Revise Concept Report per VE Study Recommendations									
	Revise Concept Layout, Typical Sections (Mainline and Sideroads) and Handouts for PHOH	96		8	24	40	24			

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
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Date: 1-Jan-08

Project: US 1
County: Emauel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
2	**Database Preparation**									
	Project Management & Coordination									
	Roadway QC of Survey Database									
	Enhance Topographic Database for Design									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
3	**Environmental Document**									
	Project Management & Coordination - During Re-Evaluation									
	Roadway QC of Environmental Documen - During Re-Evaluation									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
4	**Preliminary Plans**	220		88	82	26		24		
	Project Management & Coordination	72		40		8		24		
	Coordinate with Railroads									
	Coordinate with Utility Companies									
	Review Typical Sections	6			4	2				
	Prepare Preliminary Pavement Design									
	Review Construction Layout/Stakeout Sheet	2			2					
	Prepare Corridor Location Map/Aerial Mosaic (New Location)									
	Review Roadway Plans, Profiles, etc.	32		8	16	8				
	Review Roadway Cross-Sections	32		8	16	8				
	Review Preliminary Driveway Profiles	10		4	6					
	Review Preliminary Drainage Design and Layout	10		4	6					
	Review Preliminary Drainage Profiles/Cross Sections	10		4	6					
	Review Preliminary Staging Plans	10		4	6					
	Review Preliminary Staging Cross Sections	10		4	6					
	Review Prelim. Erosion, Sed. & Pollution Control Plans	10		4	6					
	Prepare Existing Utility Plans from Utility Co. Markups									
	Prepare Existing Utility Plans from SUE Database									
	Review Retaining Wall Locations and Envelopes									
	Prepare Detour Report									
	Prepare Draft Special Provisions									
	Prepare Design Exception Report									
	Review Design Variance Report									
	Review Prelim. Earthwork Qtys. by Stage Construction	4		2	2					
	Review Detailed Construction Cost Estimate	4		2	2					
	Prepare for, Participate in Constructability Review									
	Prepare for, Participate in PFPR									
	Address PFPR Comments									
	Internal Quality Control Reviews									
	External Peer Review									
	Traffic Signal Mod.									
	Review Signing & Marking									
	Review Preliminary Right of Way	8		4	4					

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emauel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
5	**Right of Way Plans**									
	Project Management & Coordination									
	Prepare Right-of-Way Plans									
	R/W Plans Review/Revisions									
	Internal Quality Control Reviews									
	External Peer Review									
	Preparing Staking Data									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
5A	**Right of Way Acquisition**									
	Project Management & Coordination									
	Property Owner's Meeting									
	Revise R/W Plans per R/W Acquisition									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
6	**Final Plans**									
	Project Management & Coordination									
	Prepare Location and Design Report									
	Coordinate with Utility Companies for Relocations									
	Finalize Roadway Plans, Profiles, etc.									
	Finalize Drainage Design, Profiles, Cross Sections									
	Finalize Driveway Profiles									
	Prepare Detailed Plan Sheets									
	Prepare Special Grading Plans									
	Finalize Pavement Design									
	Finalize Erosion, Sed. & Pol. Ctrl. Plans for Staged Constr.									
	Finalize Staging Plans and Details									
	Finalize Staging Cross-Sections									
	Prepare Final Utility Plans from Utility Company Markups									
	Prepare Special Construction Details									
	Prepare Special Design Box Culverts									
	Prepare Special Provisions									
	Prepare Supplemental Specifications									
	Finalize Detailed Construction Quantities, Cost Estimate									
	Prepare for, Participate in FFPR									
	Address FFPR Comments									
	Revise Construction Plans per R/W Acquisition Revisions									
	Revise Plans, Prepare Amendments During Bidding Process									
	Internal Quality Control Reviews									
	External Peer Review									

Georgia Department of Transportation

COST PROPOSAL

Proj. No.: EDS-545(14)
PI No.: 522130
Prime: Qk4
Date: 1-Jan-08

Project: US 1
County: Emauel/Toombs
Contract Type: Cost Plus Fixed Fee
Fixed Fee %: 10%

Qk4

Discipline: Roadway Design

Hours & Cost Estimate

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
7	**Construction Services**									
	Project Management & Coordination									
	Answer Design Questions during Construction									
	Participate in Post-Construction Review									
	Revise Plans for Use-On Construction and/or Amendments									

		Total Hours	Principal	Project Manager	Senior Engineer	Engineer	Technician	Clerical Administrator		
8	**Special Studies**									

Wishon, Ron

From: Norwood, David
Sent: Monday, April 14, 2008 9:25 AM
To: Beck, Susan; Matthews, Tim
Cc: DuVall, Bill; Liles, Paul; Haithcock, Michael; Myers, Lisa; Wishon, Ron
Subject: RE: Project No. EDS-545(18) Emanuel County, PI No. 221910

Thanks Susan- The final design should not have begun yet. We just informed the Bridge Office about a month ago that this is being brought back in-house for the final design. I don't think it has even been assigned to a squad yet.

Thanks again,
David

-----Original Message-----
From: Beck, Susan
Sent: Monday, April 14, 2008 9:20 AM
To: Norwood, David; Matthews, Tim
Cc: DuVall, Bill; Liles, Paul; Haithcock, Michael; Myers, Lisa; Wishon, Ron
Subject: RE: Project No. EDS-545(18) Emanuel County, PI No. 221910

David,
Shortening the main bridge 20 ft should not significantly affect the hydraulics at this site based on the velocities, backwater depths, and theoretical scour depths shown in the study. We should be able to revise the layout in-house without having to perform a supplemental hydraulic study. I don't know whether the final design of this bridge has been started yet - if so, the cost of the redesign would need to be considered in the final decision. Thanks,

Susan T. Beck
Office of Bridge Hydraulics
(404) 656-5285
sbeck@dot.ga.gov

-----Original Message-----
From: Norwood, David
Sent: Tuesday, April 08, 2008 8:44 AM
To: Beck, Susan; Matthews, Tim
Cc: DuVall, Bill; Liles, Paul; Haithcock, Michael; Myers, Lisa; Wishon, Ron
Subject: RE: Project No. EDS-545(18) Emanuel County, PI No. 221910

Susan,

Have you had a chance to follow up on this issue?

Thanks,
David

-----Original Message-----
From: Beck, Susan
Sent: Thursday, March 20, 2008 3:44 PM
To: Norwood, David; Matthews, Tim
Cc: DuVall, Bill; Liles, Paul; Haithcock, Michael; Myers, Lisa
Subject: RE: Project No. EDS-545(18) Emanuel County, PI No. 221910

David and Tim,
The estimated cost to produce a supplemental hydraulic study and revised preliminary layout is $25,000. From your email, it appears this would be the route we would go. I'd like to look back at the study in more detail to determine whether the current study which calls for a 620 ft long main bridge will be sufficient for the proposed 600 ft long main bridge. If so, then we would only need to revise the preliminary layout. Thanks,

Susan T. Beck
Office of Bridge Hydraulics
(404) 656-5285
sbeck@dot.ga.gov

-----Original Message-----
From: Norwood, David
Sent: Thursday, March 20, 2008 11:52 AM
To: Beck, Susan; Matthews, Tim
Cc: DuVall, Bill; Liles, Paul; Haithcock, Michael; Myers, Lisa
Subject: RE: Project No. EDS-545(18) Emanuel County, PI No. 221910

We had our VE Implementation meeting with Engineering Services this morning.

Engineering Services has requested that they be provided some hard figures for B-1. We need to know what the actual cost would be to re-evaluate the hydraulics and revise the preliminary layout. Unless the costs associated with these two items is greater than the estimated savings of $237,501 we will need to implement this recommendation. The Chief Engineer will want to see an actual cost estimate on this.

Please look into this as soon as possible. ROW Acquisition is underway on one of these projects and is being held up pending approval of this VE Implementation Plan by the Chief Engineer.

Thanks,
David Norwood
Design Group Manager
Office of Consultant Design
Georgia Department of Transportation
(404) 463-3829

-----Original Message-----
From: Beck, Susan
Sent: Thursday, March 20, 2008 7:52 AM
To: Norwood, David; Matthews, Tim
Cc: DuVall, Bill; Liles, Paul
Subject: Project No. EDS-545(18) Emanuel County, PI No. 221910

Response to VE Recommendations B-1 and B-3

B-1: No. This recommendation will not be implemented. The cost savings of the reduced length of the bridge amounts to only 3% of the total cost of the bridge. In addition, the cost of re-evaluating the hydraulics at the site and revising the preliminary layout would further negate the projected savings.

B-3: No. This recommendation will not be implemented. This recommendation costs more than the current design. Also, larger and more expensive cranes will be required to place the beams and it will be more difficult to transport the 120 ft long beams.

Please let me know if you have any questions.

Susan T. Beck
Office of Bridge Hydraulics
(404) 656-5285
sbeck@dot.ga.gov

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Wishon, Ron

From: Myers, Lisa
Sent: Friday, March 21, 2008 6:43 AM
To: Wishon, Ron; Summers, Brian
Subject: FW: Project No. EDS-545(18) Emanuel County, PI No. 221910

FYI

Lisa Myers Design Review Engineer Manager/VE Coordinator

GA DOT - Engineering Services
#2 Capitol Square Room 266
Atlanta, GA 30334

404-651-7468
lmyers@dot.ga.gov

-----Original Message-----
From: Beck, Susan
Sent: Thursday, March 20, 2008 3:44 PM
To: Norwood, David; Matthews, Tim
Cc: DuVall, Bill; Liles, Paul; Haithcock, Michael; Myers, Lisa
Subject: RE: Project No. EDS-545(18) Emanuel County, PI No. 221910

David and Tim,
The estimated cost to produce a supplemental hydraulic study and revised preliminary layout is $25,000. From your email, it appears this would be the route we would go. I'd like to look back at the study in more detail to determine whether the current study which calls for a 620 ft long main bridge will be sufficient for the proposed 600 ft long main bridge. If so, then we would only need to revise the preliminary layout. Thanks,

Susan T. Beck
Office of Bridge Hydraulics
(404) 656-5285
sbeck@dot.ga.gov

-----Original Message-----
From: Norwood, David
Sent: Thursday, March 20, 2008 11:52 AM
To: Beck, Susan; Matthews, Tim
Cc: DuVall, Bill; Liles, Paul; Haithcock, Michael; Myers, Lisa
Subject: RE: Project No. EDS-545(18) Emanuel County, PI No. 221910

We had our VE Implementation meeting with Engineering Services this morning.

Engineering Services has requested that they be provided some hard figures for B-1. We need to know what the actual cost would be to re-evaluate the hydraulics and revise the preliminary layout. Unless the costs associated with these two items is greater than the estimated savings of $237,501 we will need to implement this recommendation. The Chief Engineer will want to see an actual cost estimate on this.

Please look into this as soon as possible. ROW Acquisition is underway on one of these projects and is being held up pending approval of this VE Implementation Plan by the Chief Engineer.

Thanks,
David Norwood
Design Group Manager
Office of Consultant Design
Georgia Department of Transportation
(404) 463-3829

-----Original Message-----
From: Beck, Susan
Sent: Thursday, March 20, 2008 7:52 AM
To: Norwood, David; Matthews, Tim
Cc: DuVall, Bill; Liles, Paul
Subject: Project No. EDS-545(18) Emanuel County, PI No. 221910

Response to VE Recommendations B-1 and B-3

B-1: No. This recommendation will not be implemented. The cost savings of the reduced length of the bridge amounts to only 3% of the total cost of the bridge. In addition, the cost of re-evaluating the hydraulics at the site and revising the preliminary layout would further negate the projected savings.

B-3: No. This recommendation will not be implemented. This recommendation costs more than the current design. Also, larger and more expensive cranes will be required to place the beams and it will be more difficult to transport the 120 ft long beams.

Please let me know if you have any questions.

Susan T. Beck
Office of Bridge Hydraulics
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