

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #0007054 **OFFICE** Design Policy & Support
CSBRG-0007-00(054)
GDOT District 3 - Thomaston
Twiggs County **DATE** July 18, 2012
SR 19 at CSX Railroad Grade Separation

FROM *for Brent Story*
for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Bobby Hilliard, Program Control Administrator
Genetha Rice-Singleton, State Program Delivery Engineer
Cindy VanDyke, State Transportation Planning Administrator
Angela Robinson, Financial Management Administrator
Glenn Bowman, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Andy Casey, State Roadway Design Engineer
Attn: Sam Woods, Design Group Manager
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Lisa Myers, State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
David Millen, District Engineer
Bill Rountree, District Preconstruction Engineer
Kerry Gore, District Utilities Engineer
Chad White, Project Manager
BOARD MEMBER - 8th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

Project Type: <u>Bridge Replacement</u>	P.I. Number: <u>0007054</u>
GDOT District: <u>3</u>	County: <u>Twiggs</u>
Federal Route Number: <u>U.S. 80</u>	State Route Number: <u>S.R. 19</u>

Project Description: The proposed project will replace the existing bridge on S.R. 19 over CSX Railroad in Twiggs County. The existing bridge has a sufficiency rating of 45.06. The new bridge will be constructed on a new alignment south of the existing bridge for a project length of 0.56 miles from milepost 19.68 to 20.24.

Submitted for approval:

<u>C. [Signature]</u> State Roadway Design Engineer	<u>4/2/12</u> DATE
<u>Bobby Hilliard</u> Office Head	<u>6-4-2012</u> DATE
<u>[Signature]</u> GDOT Project Manager	<u>4/9/12</u> DATE

Recommendation for approval:

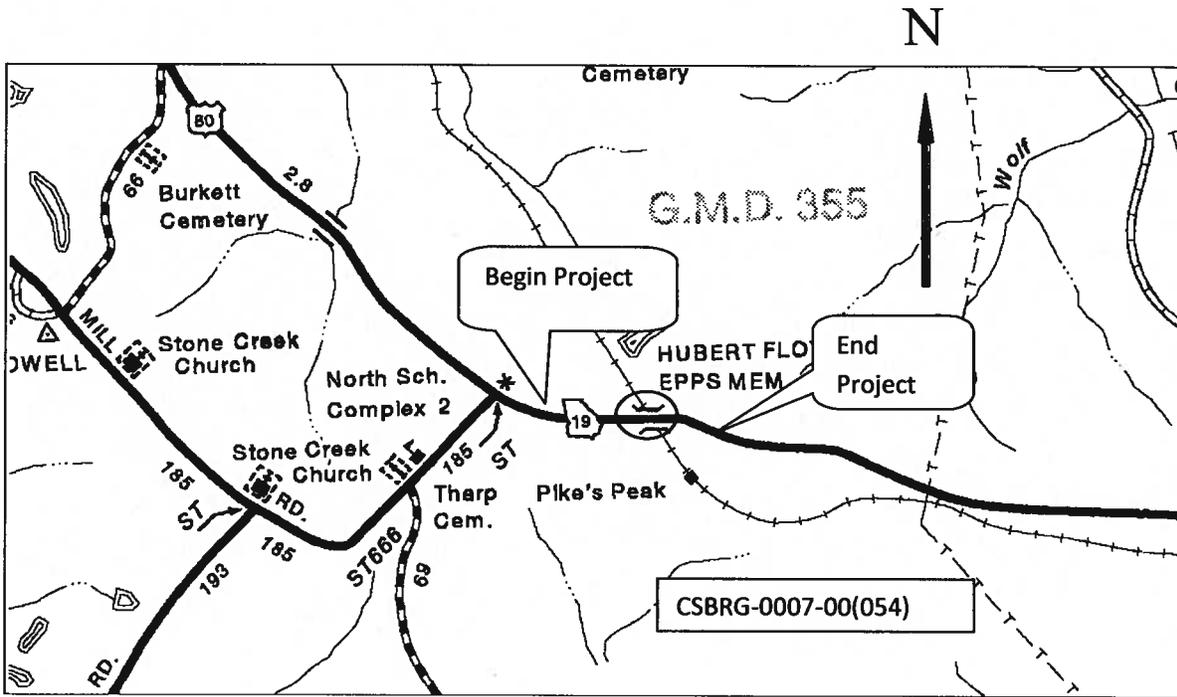
<u>[Signature]</u> Program Control Administrator	<u>DATE</u>
* <u>GLENN BOWMAN / [Signature]</u> State Environmental Administrator	<u>5/4/2012</u> DATE
* <u>KATHY ZAHU / [Signature]</u> State Traffic Engineer	<u>5/10/2012</u> DATE
* <u>LISA MYERS / [Signature]</u> Project Review Engineer	<u>5/4/2012</u> DATE
* <u>PATRICK ALLEN / [Signature]</u> State Utilities Engineer	<u>5/11/2012</u> DATE
* <u>BILL BOWNTREE / [Signature]</u> District Engineer	<u>5/5/2012</u> DATE
* <u>BEN TABUN / [Signature]</u> State Bridge Design Engineer	<u>5/9/2012</u> DATE
<u>State Transportation Financial Management Administrator</u>	<u>DATE</u>

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

* <u>CYNTHIA L. VANDYKE / [Signature]</u> State Transportation Planning Administrator	<u>5/10/2012</u> DATE
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* RECOMMENDATION ON FILE

PROJECT LOCATION



PLANNING & BACKGROUND DATA

Project Justification Statement:

This bridge (Structure ID 289-0003-0; SR 19 (US 80) over CSX Railroad) was built in 1935. The bridge consists of a 3 span, continuous-steel beam unit on concrete caps and concrete column substructure. The bridge has a Sufficiency Rating of 45.06. This bridge is considered fracture critical due to the cantilevered beams. In addition the foundation of this structure is unknown. The bottom of the deck has numerous locations that have spalled concrete and exposed rebar. The exterior beam bearings in span 1 have section losses of approximately 50 to 75 percent on the top nuts and rivets. Numerous diaphragms are noted exhibiting spalls with exposed rebar. Due to the structural integrity and that the bridge foundation is unknown replacement of this bridge is recommended.

Description of the proposed project: The proposed project will replace the existing bridge on S.R. 19 over CSX Railroad in Twiggs County. The existing bridge has a sufficiency rating of 45.06. The new bridge will be constructed on a new alignment south of the existing bridge for a project length of 0.56 miles from milepost 19.68 to 20.24.

Federal Oversight: Full Oversight Exempt State Funded Other

MPO: N/A MPO - Choose an item.
MPO Project TIP #

Regional Commission: N/A RC – Choose an item.
RC Project ID #

Congressional District(s): 8

Projected Traffic AADT:

Current Year (2009): 1500 Open Year (2017): 1650 Design Year (2037): 2000

Functional Classification (Mainline): Rural Minor Arterial

Is this project on a designated bike route? No YES .

Is this project located on a pedestrian plan? No YES

Is this project located on or part of a transit network? No YES

CONTEXT SENSITIVE SOLUTIONS

Issues of Concern: There have been no potential project impacts identified that would require Context Sensitive Solutions.

Context Sensitive Solutions: N/A.

DESIGN AND STRUCTURAL DATA

Mainline Design Features: SR 19/US 80; Rural Minor Arterial.

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2	2	2
- Lane Width(s)	12'	12'	12'
- Median Width & Type	N/A	N/A	N/A
- Outside Shoulder Width & Type	10' Rural	10'Rural	10' Rural
- Outside Shoulder Slope	6%	6%	6%
- Inside Shoulder Width & Type	N/A	N/A	N/A
- Sidewalks	N/A	N/A	N/A
- Auxiliary Lanes	N/A	N/A	N/A
- Bike Lanes	N/A	N/A	N/A
Posted Speed	55 mph		55mph
Design Speed	55mph	55mph	55mph
Min Horizontal Curve Radius	1060'	1060'	2000'
Superelevation Rate (emax)	6%	6%	6%
Grade	5%	5%	5%
Access Control	By Permit	By Permit	By Permit
Right-of-Way Width	100'	Varies	Varies
Maximum Grade – Crossroad	N/A	N/A	N/A
Design Vehicle	SU	SU	WB-67

*According to current GDOT design policy if applicable

Major Structures:

Structure	Existing	Proposed
ID #289-0003-0 SR 19; Twiggs County	The existing bridge structure is 190ft long, bridge roadway width of 23.80ft and deck width of 26.90ft. Sufficiency rating is 45.06.	The proposed bridge structure will be approximately 200ft long with two 12ft lanes, and 8ft shoulders.

Major Interchanges/Intersections: There are no major interchanges or intersections within the project limits.

Utility Involvements: CSX Railroad, Bell South d/b/a AT&T, Level 3 Communications, and Oconee EMC have facilities near this project.

Public Interest Determination Policy and Procedure recommended (Utilities)? YES NO

SUE Required: Yes No

Railroad Involvement: The proposed bridge replacement is located above a railroad owned by CSX Railroad and operated by Georgia Central Railway. Georgia Central Railway has a right of way of 100ft and has future plans of building additional tracks. Railroad Coordination will be needed for this project.

Right-of-Way:

Required Right-of-Way anticipated: YES NO Undetermined
 Easements anticipated: Temporary Permanent Utility Other

Anticipated number of impacted parcels: 4
 Anticipated number of displacements (Total): 0
 Businesses: 0
 Residences: 0
 Other: 0

Location and Design approval: Not Required Required

Off-site Detours Anticipated: No Yes Undetermined

Off-site detour was presented at detour public meeting held on January 5, 2012. Off-site detour was found to be not feasible for local businesses, residents and emergency vehicle response times.

Transportation Management Plan Anticipated: YES NO

Design Exceptions to FHWA/AASHTO controlling criteria anticipated:

FHWA/AASHTO Controlling Criteria	YES	Appvl Date (if applicable)	NO	Undetermined
1. Design Speed	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Lane Width	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Shoulder Width	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Bridge Width	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Horizontal Alignment	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Superelevation	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Vertical Alignment	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Grade	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Stopping Sight Distance	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Cross Slope	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Vertical Clearance	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Lateral Offset to Obstruction	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Bridge Structural Capacity	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Design Variances to GDOT standard criteria anticipated:

GDOT Standard Criteria	Reviewing Office	YES	Appvl Date (if applicable)	NO	Undetermined
1. Access Control - Median Opening Spacing	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Median Usage & Width	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Intersection Skew Angle	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Lateral Offset to Obstruction	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Intersection Sight Distance	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Bike & Pedestrian Accommodations	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. GDOT Drainage Manual	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Georgia Standard Drawings	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. GDOT Bridge & Structural Manual	Bridge Design	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Roundabout Illumination - (if applicable)	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Rumble Strips/Safety Edge	DP&S	<input type="checkbox"/>	Click here to enter a date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

VE Study anticipated: No Yes Completed – Date: Click here to enter a date.

ENVIRONMENTAL DATA

Anticipated Environmental Document:

GEPA: NEPA: Categorical Exclusion EA/FONSI EIS

Air Quality:

Is the project located in a PM 2.5 Non-attainment area? No Yes
 Is the project located in an Ozone Non-attainment area? No Yes

Environmental Permits/Variations/Commitments/Coordination anticipated:

Permit/ Variance/ Commitment/ Coordination Anticipated	YES	NO	Remarks
1. U.S. Coast Guard Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Forest Service/Corps Land	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. CWA Section 404 Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unlikely
4. Tennessee Valley Authority Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Buffer Variance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unlikely
6. Coastal Zone Management Coordination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. NPDES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. FEMA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Cemetery Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unlikely
11. Other Commitments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Other Coordination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Is a PAR required? No Yes Completed – Date: [Click here to enter a date.](#)

NEPA/GEPA: A Programmatic Categorical Exclusion is expected for this project. Initial studies do not show any significant NEPA/GEPA issues or risks associated with this project. Revised Special Studies have been requested to account for the new alignment bridge.

Ecology: No significant ecology issues are expected on this project.

History: There are not any known possible effects to potential or established historic resources on this project.

Archeology: There are not any known cemeteries or other publicly documented archeological resources present on this project. Further study will be done.

Air & Noise:

No mitigation measures for noise are expected for this project.

Public Involvement: A Detour Meeting was held on January 5, 2012. The Public was largely against the off-site detour. As a result, a permanent bridge on new alignment will be constructed to the south of the existing bridge and there will no longer be an offsite detour for the project. The level of Public Outreach expected in the future is a Public Information Open House to be held in Twiggs County to show the scope of the project.

Major stakeholders: Traveling Public, Residents, School Buses, Emergency Vehicle, and Local Businesses.

CONSTRUCTION

Issues potentially affecting constructability/construction schedule: There are not any known issues that would affect the construction of the project.

Early Completion Incentives recommended for consideration: No Yes

PROJECT RESPONSIBILITIES

Project Activities:

Project Activity	Party Responsible for Performing Task(s)
Concept Development	GDOT - Roadway Design
Design	GDOT - Roadway Design
Right-of-Way Acquisition	GDOT - District 3 Right of Way
Utility Relocation	Utility Companies
Letting to Contract	GDOT - Bidding Administration
Construction Supervision	GDOT - Construction
Providing Material Pits	Contractor
Providing Detours	N/A
Environmental Studies, Documents, and Permits	GDOT – Office of Environmental Services
Environmental Mitigation	GDOT – Office of Environmental Services
Construction Inspection & Materials Testing	GDOT – Office of Materials and Research

Lighting required: No Yes

Initial Concept Meeting: –Meeting was held in Macon, Area 4 Office on 6/10/2011 conducted by Chad White (Project Manager). Meeting minutes attached.

Concept Meeting: Meeting was held in Macon, Area 4 Office on 9/23/2011 conducted by Chad White (Project Manager). Meeting minutes attached.

Other projects in the area: None.

Other coordination to date: None.

Project Cost Estimate and Funding Responsibilities:

	Breakdown of PE	ROW	Utility	CST*	Environmental Mitigation	Total Cost
By Whom	GDOT	GDOT	GDOT	GDOT	GDOT	GDOT
\$ Amount	\$953,451.75	\$97,000	\$289,750	\$1,858,678.33	\$45,000	\$3,243,880.08
Date of Estimate	5/6/2009	3/12/2012	3/26/2012	4/2/2012	2/16/2012	4/2/2012

*CST Cost includes: Construction, Engineering and Inspection, and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

Alternative selection:

Preferred Alternative: Permanent Bridge Realignment South of Existing Bridge			
Estimated Property Impacts:	4	Estimated Total Cost:	\$3,243,880.08
Estimated ROW Cost:	\$97,000	Estimated CST Time:	12-18 months
Rationale: This alternative was selected because it would allow the new bridge and approaching roadway to be constructed while maintaining traffic on SR 19. This alternative addresses concerns that the public expressed at the Detour Meeting held on 1/5/2012.			

No-Build Alternative: No Build			
Estimated Property Impacts:	0	Estimated Total Cost:	\$0
Estimated ROW Cost:	\$0	Estimated CST Time:	0 months
Rationale: Does not meet the Project Justification.			

Alternative 1: Replace Existing Bridge In place with an Offsite Detour			
Estimated Property Impacts:	0	Estimated Total Cost:	\$2,189,528.84
Estimated ROW Cost:	\$0	Estimated CST Time:	12 months
Rationale: Detour Meeting was held on 1/5/2012 and due to public concerns and impact to the citizens it was determined that this alternative was not feasible.			

Alternative 2: Build Temporary Bridge to maintain traffic while Replacing Existing Bridge In place			
Estimated Property Impacts:	2	Estimated Total Cost:	\$4,094,547.58
Estimated ROW Cost:	\$48,500	Estimated CST Time:	12-18 months
Rationale: Cost of building Temporary Bridge would be too high. No significant advantage was found to utilizing a temporary alignment in terms of length of construction required, cost and geometric design criteria.			

Comments: N/A

Attachments:

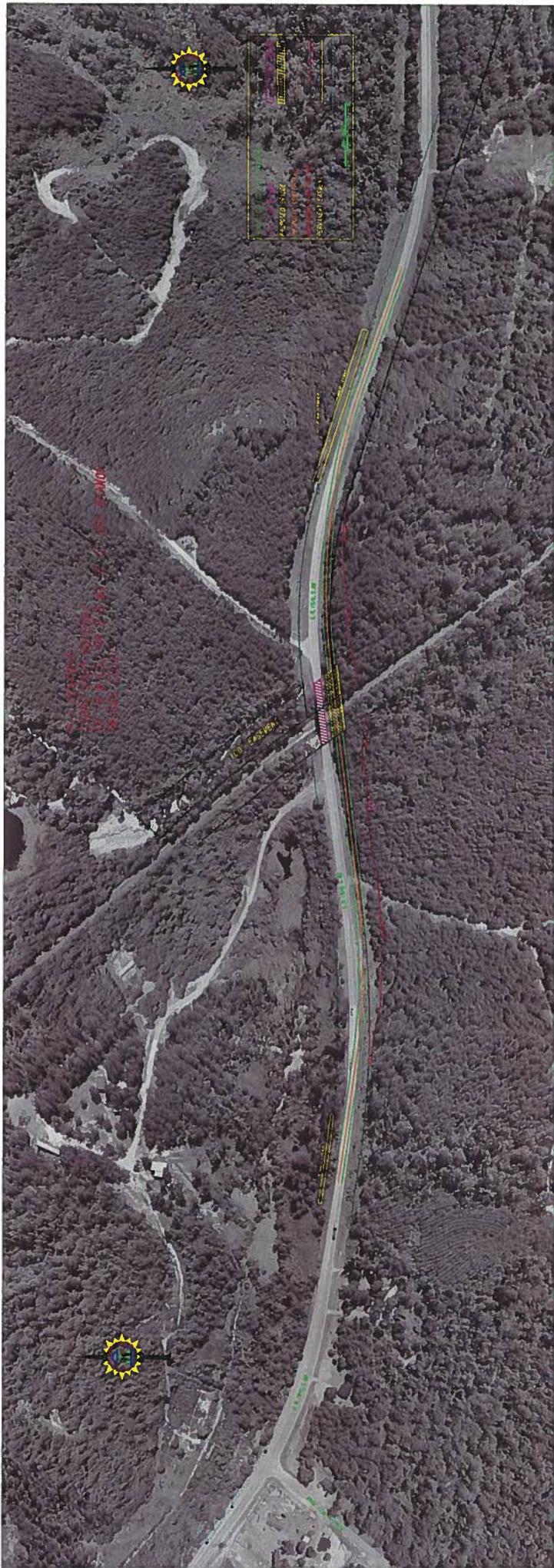
1. Concept Layout
2. Typical sections
3. Detailed Cost Estimates:
 - a. Construction including Engineering and Inspection
 - b. Completed Fuel & Asphalt Price Adjustment forms
 - c. Right-of-Way
 - d. Utilities (Facilities and R/R)
 - e. Environmental Mitigation Cost Estimate
4. Crash summaries
5. Traffic diagrams
6. Bridge inventory
7. Highway Safety Manual Crash Reduction Factor Calculations
8. Minutes of Concept meetings (ICTM & CTM)
9. Responses to comments from Open House Detour Meeting

APPROVALS

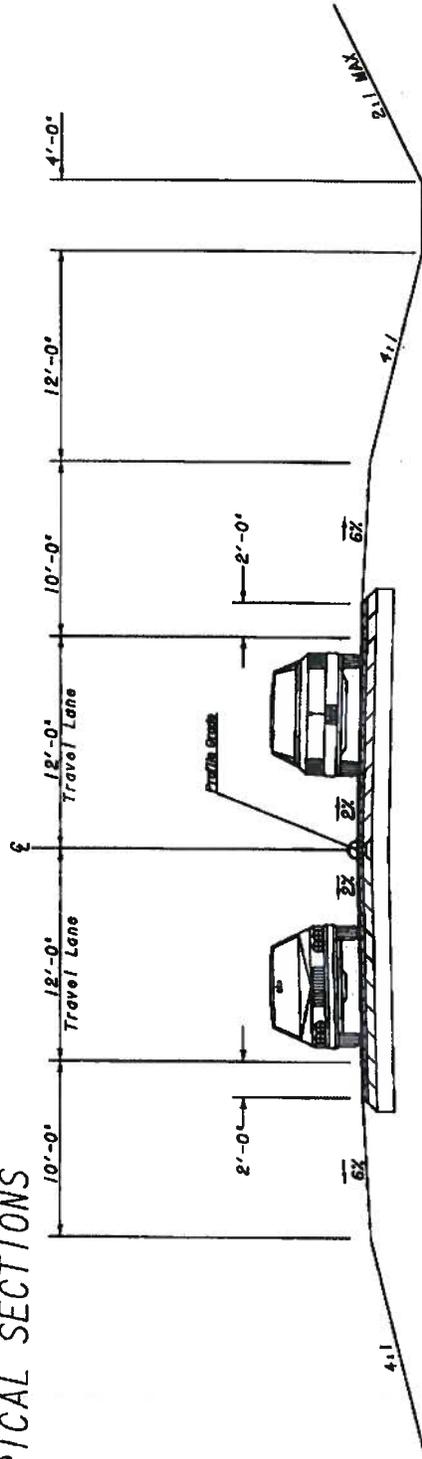
Concur: 
Director of Engineering

Approve: 
Chief Engineer

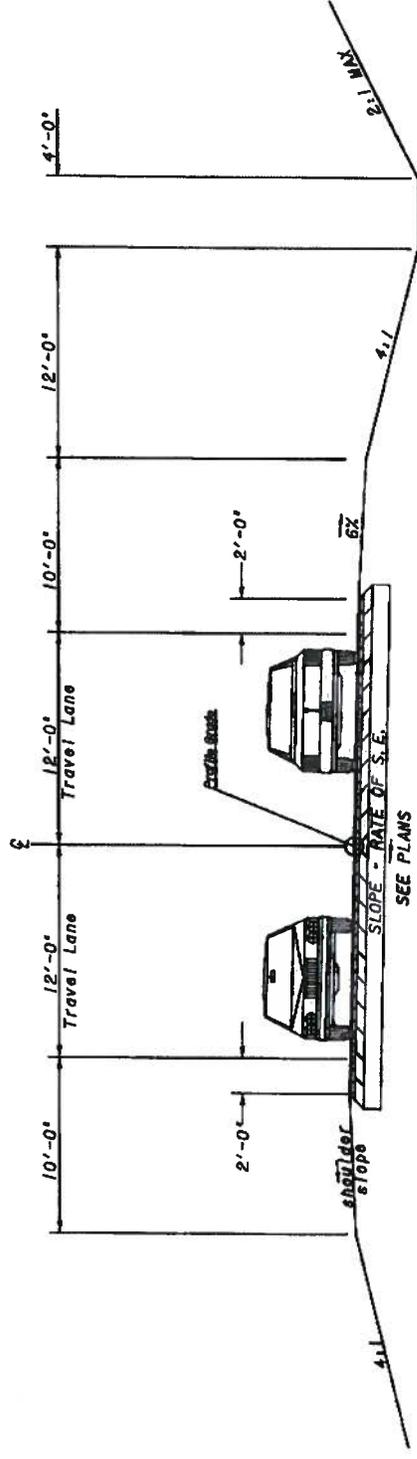
7/12/2012
Date



PI # 0007054
 CSBRG-0007-00(054)
 SR 19 @ CSX RR 2.8 MI SE OF DRY BRANCH
 TWIGGS COUNTY
 PROPOSED TYPICAL SECTIONS

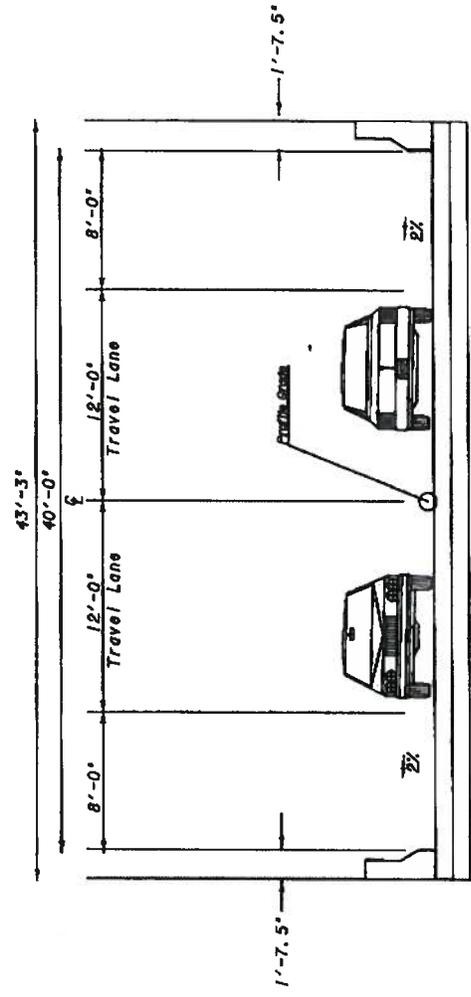


TANGENT SECTION



SUPER ELEVATED SECTION

PI # 0007054
CSBRG-0007-00(054)
SR 19 @ CSX RR 2.8 MI SE OF DRY BRANCH
TWIGGS COUNTY
PROPOSED TYPICAL SECTIONS



SLOPE - RATE OF S. E.
TANGENT SECTION

DETAILED COST ESTIMATE



Job: 0007054CW

JOB NUMBER: 0007054CW

FED/STATE PROJECT NUMBER CSBRG000700054

SPEC YEAR: 01

DESCRIPTION: SR 19 @ CSX RR 2.8 MI SE OF DRY BRANCH

ITEMS FOR JOB 0007054CW

0100 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$133,400.00	TRAFFIC CONTROL - CSBRG-0007-00(054)	\$133,400.00
0080	150-5010	2.000	EA	\$11,260.35	TRAF CTRL,PORTABLE IMPACT ATTN CSBRG-0007-00(054)	\$22,520.69
0230	150-5010	2.000	EA	\$11,260.35	TRAF CTRL,PORTABLE IMPACT ATTN	\$22,520.69
0010	153-1300	1.000	EA	\$64,209.43	FIELD ENGINEERS OFFICE TP 3	\$64,209.43
0035	201-1500	1.000	LS	\$133,400.00	CLEARING & GRUBBING - CSBRG-0007-00(054)	\$133,400.00
0015	205-0001	7500.000	CY	\$9.44	UNCLASS EXCAV	\$70,826.03
0065	310-5060	1315.000	SY	\$12.32	GR AGGR BS CRS 6IN INCL MATL	\$16,206.66
0070	310-5120	2427.000	SY	\$24.31	GR AGGR BS CRS 12IN INCL MATL	\$59,003.23
0020	402-3100	520.000	TN	\$74.53	REC AC 9.5 MM SP,TPI,GP1ORBL1,INCL BM&HL	\$38,757.71
0025	402-3111	847.000	TN	\$78.20	RECYL AC 19MM MIX,GP1OR2,BM&HL	\$66,235.40
0030	402-3121	1423.000	TN	\$67.46	RECYL AC 25MM SP,GP1/2,BM&HL	\$95,996.05
0040	413-1000	456.000	GL	\$2.73	BITUM TACK COAT	\$1,247.05
0075	433-1000	284.000	SY	\$134.15	REINF CONC APPROACH SLAB	\$38,097.78
0095	456-2012	1.000	GLM	\$658.12	INTENT. RUMB. STRIPS - GRND-IN-PL (CONT)	\$658.12
0085	626-0601	100.000	LF	\$206.59	TRAFFIC BARRIER, V	\$20,659.00
0090	634-1200	6.000	EA	\$108.15	RIGHT OF WAY MARKERS	\$648.90
0055	641-1100	120.000	LF	\$58.03	GUARDRAIL, TP T	\$6,963.02
0060	641-1200	300.000	LF	\$19.41	GUARDRAIL, TP W	\$5,823.99
0045	641-5001	2.000	EA	\$606.11	GUARDRAIL ANCHORAGE, TP 1	\$1,212.22
0050	641-5012	2.000	EA	\$1,885.61	GUARDRAIL ANCHORAGE, TP 12	\$3,771.21
SUBTOTAL FOR ROADWAY:						\$802,167.18

0200 - EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0105	163-0232	10.000	AC	\$662.81	TEMPORARY GRASSING	\$6,628.10
0110	163-0240	276.000	TN	\$186.17	MULCH	\$51,382.09
0130	163-0300	2.000	EA	\$1,390.71	CONSTRUCTION EXIT	\$2,781.43
0175	163-0529	750.000	LF	\$3.47	CNST/REM TEMP SED BAR OR BLD STRW CK DM	\$2,600.68
0145	165-0030	2771.000	LF	\$0.69	MAINT OF TEMP SILT FENCE, TP C	\$1,915.29
0180	165-0041	375.000	LF	\$1.31	MAINT OF CHECK DAMS - ALL TYPES	\$491.25
0135	165-0101	2.000	EA	\$503.44	MAINT OF CONST EXIT	\$1,006.89
0155	167-1000	2.000	EA	\$768.89	WATER QUALITY MONITORING AND SAMPLING	\$1,537.78
0160	167-1500	18.000	MO	\$707.02	WATER QUALITY INSPECTIONS	\$12,726.39
0140	171-0030	5542.000	LF	\$3.26	TEMPORARY SILT FENCE, TYPE C	\$18,067.86
0165	603-2180	100.000	SY	\$36.29	STN DUMPED RIP RAP, TP 3, 12"	\$3,629.35
0170	603-7000	100.000	SY	\$3.90	PLASTIC FILTER FABRIC	\$390.06
0100	700-6910	19.000	AC	\$1,093.29	PERMANENT GRASSING	\$20,772.49
0115	700-7000	19.000	TN	\$56.54	AGRICULTURAL LIME	\$1,074.33
0120	700-8000	19.000	TN	\$624.96	FERTILIZER MIXED GRADE	\$11,874.30
0125	700-8100	950.000	LB	\$2.21	FERTILIZER NITROGEN CONTENT	\$2,095.78
0150	716-2000	889.000	SY	\$1.17	EROSION CONTROL MATS, SLOPES	\$1,039.30
SUBTOTAL FOR EROSION CONTROL:						\$140,013.37

0300 - SIGN AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0185	636-1020	14.000	SF	\$15.58	HWY SGN,TP1MAT,REFL SH TP3	\$218.06
0190	636-1029	17.000	SF	\$16.62	HWY SGN,TP2 MATL,REFL SH TP 3	\$282.54
0195	636-1033	27.000	SF	\$21.79	HWY SIGNS, TP1MAT,REFL SH TP 9	\$588.33
0200	636-2070	39.000	LF	\$9.20	GALV STEEL POSTS, TP 7	\$358.81
0205	636-2090	32.000	LF	\$9.76	GALV STEEL POSTS, TP 9	\$312.21
0210	652-5451	5542.000	LF	\$0.11	SOLID TRAF STRIPE, 5 IN, WHITE	\$617.32
0215	653-6006	5542.000	SY	\$2.67	THERM TRAF STRIPING, YELLOW	\$14,790.27
SUBTOTAL FOR SIGN AND MARKING:						\$17,167.54

DETAILED COST ESTIMATE



Job: 0007054CW

0400 - BRIDGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0220	540-1102	1.000	LS	\$69,200.00	REM OF EX BR, BR NO - 1	\$69,200.00
0225	543-9000	1.000	LS	\$692,000.00	CONSTR OF BRIDGE COMPLETE - 1	\$692,000.00
SUBTOTAL FOR BRIDGE:						\$761,200.00

TOTALS FOR JOB 0007054CW

ITEMS COST:	\$1,720,538.09
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$1,720,538.09
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$1,806,564.99

PROJ. NO.: CSBRG-0007-00(054)
P.I. NO. 0007054
DATE: 4/2/2012

Base Construction Cost		\$ 1,720,538.09
E & I	5%	\$ 86,026.90
Construction Contingency	0	\$ -
Subtotal Construction Cost		\$ 1,806,564.99
Liquid AC Adjustment (50 % cap)		\$ 52,113.34
Total Construction Cost		\$ 1,858,678.33

PROJ. NO. CSBRG-0007-00(054) **CALL NO.**
P.I. NO. 0007054
DATE 4/2/2012

INDEX (TYPE) **DATE** **INDEX**
 REG. UNLEADED Apr-12 \$ 3.679
 DIESEL \$ 4.070
 LIQUID AC \$ 614.00

Link to Fuel and AC Index:
<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

LIQUID AC ADJUSTMENTS

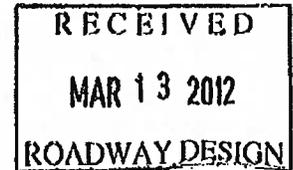
PA=(((APM-APL)/APL)XTMTxAPL
Asphalt
 Price Adjustment (PA) 51391.8 \$ 51,391.80
 Monthly Asphalt Cement Price month placed (APM) 982.40
 Monthly Asphalt Cement Price month project let (APL) 614.00
Total Monthly Tonnage of asphalt cement (TMT) 139.5

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	520	5.0%	26
25 mm SP	1423	5.0%	71.15
19 mm SP	847	5.0%	42.35
	2790		139.5

BITUMINOUS TACK COAT
 Price Adjustment (PA) 721.54 \$ 721.54
 Monthly Asphalt Cement Price month placed (APM) 982.40
 Monthly Asphalt Cement Price month project let (APL) 614.00
Total Monthly Tonnage of asphalt cement (TMT) 1.95856602

Bitum Tack
 Gals 456
 gals/ton 232.8234
 tons 1.95856602

Department of Transportation State of Georgia



Interdepartmental Correspondence

FILE R/W Cost Estimate **OFFICE** Atlanta
DATE March 13, 2012
FROM Phil Copeland, Right of Way Administrator
LaShone Alexander, Right of Way Cost Estimator
TO Sam Woods, P.E., Office of Roadway Design

SUBJECT **Preliminary Right of Way Cost Estimate**
Project: Bridge Replacement (Twiggs County)
P.I. No.: 0007054
Description: Bridge Replacement

As per your request, attached is a copy of the approved Preliminary Right of Way Cost Estimates on the above referenced projects.

If you have any questions, please contact LaShone Alexander at One Georgia Center 600 West Parkway Street, NW Atlanta, GA 30308, Right of Way Office at (478) 553-1569 or (478) 232-4045.

PC:LA
Attachments
c: File

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 3/12/2012 Project: Bridge Replacement
 Revised: County: Twiggs
 PI: 0007054

Description: Bridge Replacement SR 19
 Project Termini: Bridge Replacement SR 19

Parcels: 4 Existing ROW: Varies
 Required ROW: Varies

Land and Improvements \$8,797.50

Proximal Damage \$0.00
Consequential Damage \$0.00
Cost to Cures \$0.00
Trade Fixtures \$0.00
Improvements \$0.00

Valuation Services \$4,000.00

Legal Services \$40,200.00

Relocation \$8,000.00

Demolition \$0.00

Administrative \$35,500.00

TOTAL ESTIMATED COSTS \$96,497.50

TOTAL ESTIMATED COSTS (ROUNDED) \$97,000.00

Preparation Credits	Hours	Signature

Prepared By: [Signature] CG#: 256999 3/13/2012
 Approved By: [Signature] CG#: 256999 3/13/2012

NOTE: No Market Appreciation Is Included In this Preliminary Cost Estimate

**Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet**

Project/County/PI

Bridge Replacement Twiggs

0007054

	A	B	C	D
Land and Improvements	Agriculture	Residential	Commercial	Industrial
1 Estimate Low (ac)	\$0.00	\$0.00	\$0.00	\$0.00
2 Estimate High (ac)	\$0.00	\$0.00	\$0.00	\$0.00
3 Estimate Used (ac)	\$3,000.00	\$0.00	\$0.00	\$0.00
4 Fee Simple Area (ac)	1.80	0.00	0.00	0.00
5 Fee Simple Estimate	\$5,400.00	\$0.00	\$0.00	\$0.00
6 Perm Esmt Area (ac)	0.31	0.00	0.00	0.00
7 Perm Esmt Factor	50%	0%	0%	0%
8 Perm Esmt Estimate	\$465.00	\$0.00	\$0.00	\$0.00
9 Temp Esmt Area (ac)	0.00	0.00	0.00	0.00
10 Temp Esmt Factor	0%	0%	0%	0%
11 Temp Esmt Estimate	\$0.00	\$0.00	\$0.00	\$0.00
12 Proximity Damages	\$0.00	\$0.00	\$0.00	\$0.00
13 Consequential Damages	\$0.00	\$0.00	\$0.00	\$0.00
14 Cost to Cures	\$0.00	\$0.00	\$0.00	\$0.00
15 Improvements	\$0.00	\$0.00	\$0.00	\$0.00
16 Trade Fixtures	\$0.00	\$0.00	\$0.00	\$0.00
17				
18 PROPERTY TYPE TOTALS	\$5,865.00	\$0.00	\$0.00	\$0.00
19	SUB TOTAL PROPERTY TYPES			\$5,865.00
20	Counter Offers and Condemnation Increases			\$2,932.50
21				
22	GRAND TOTAL LANDS AND IMPROVEMENTS			\$8,797.50

**Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet**

Project/County/PI **Bridge Replacement Twiggs** **0007054**

	A	B	C	D
Valuation Services	Agriculture	Residential	Commercial	Industrial
1 Appraisals (# of Parcels)	4	0	0	0
2 Estimated Fees (per Parcel)	\$1,000.00	\$0.00	\$0.00	\$0.00
3 TOTAL APPRAISALS	\$4,000.00	\$0.00	\$0.00	\$0.00
4 Sign Estimates	0	0	0	0
5 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
6 TOTAL SIGN ESTIMATES	\$0.00	\$0.00	\$0.00	\$0.00
7 Specialty Reports	0	0	0	0
8 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
9 TOTAL SPECIALTY REPORTS	\$0.00	\$0.00	\$0.00	\$0.00
10 Septic/Well Reports	0	0	0	0
11 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
12 TOTAL SEPTIC/WELL REPORTS	\$0.00	\$0.00	\$0.00	\$0.00
13				
14				
15				
16 TOTAL VALUATION FEES	\$4,000.00	\$0.00	\$0.00	\$0.00
17	SUB TOTAL VALUATION SERVICES			\$4,000.00
18	Updates and Incidentals (Min \$2,500 or 25%)			\$2,500.00
19	GRAND TOTAL VALUATION SERVICES			\$4,000.00

**Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet**

Project/County/PI

Bridge Replacement Twigg

0007054

	A	B	C	D
	Parcels	Estimated Fees		TOTALS
1	Meeting with Attorney	4	\$125.00	\$500.00
2	Preliminary Titles	4	\$200.00	\$800.00
3	Closing and Final Title	4	\$300.00	\$1,200.00
4	Recording Fees	4	\$50.00	\$200.00
5	Condemnation Filing	1	\$5,000.00	\$5,000.00
6	Litigation Costs	1	\$25,000.00	\$25,000.00
7	Updates and Incidentals	1	\$7,500.00	\$7,500.00
8				
9				
10				
11				
12				
13				
14				
15				
16				
17		GRAND TOTAL LEGAL SERVICES		\$40,200.00

**Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet**

Project/County/PI

Bridge Replacement Twiggs

0007054

	A	B	C	D
	Displacements	Estimated Costs		TOTALS
1	Business Displacement	\$15,000.00		\$0.00
2	Residential Tenant	\$20,000.00		\$0.00
3	Residential Owner	\$40,000.00		\$0.00
4	Pro-Rata Taxes	\$1,000.00	4	\$4,000.00
5	Property Pin Replacement	\$1,000.00	4	\$4,000.00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17		GRAND TOTAL RELOCATION		\$8,000.00

**Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet**

Project/County/PI

Bridge Replacement Twiggs

0007054

	A	B	C	D
	Demolition	Items/Improvements	Estimated Costs	TOTALS
1	Residential Structures		\$15,000.00	\$0.00
2	Commercial Structures		\$25,000.00	\$0.00
3	Hotels/Apartments		\$60,000.00	\$0.00
4	UST's - Dispensers		\$50,000.00	\$0.00
5	Billboards		\$8,000.00	\$0.00
6	Signs - Light Standards		\$1,500.00	\$0.00
7	Water Vaults		\$15,000.00	\$0.00
8	Gas/Water Service Separation		\$2,500.00	\$0.00
9				
10				
11				
12				
13				
14				
15				
16				
17			GRAND TOTAL DEMOLITION	\$0.00

**Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet**

Project/County/PI

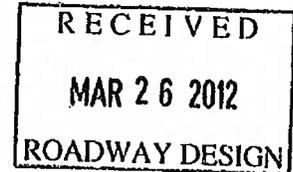
Bridge Replacement Twiggs

0007054

	A	B	C	D
	Parcels	Man hours per Parcel		TOTALS
1	Administrative Pre-Acquisition	4	40	\$8,000.00
2	Acquisition	4	100	\$20,000.00
3	Relocation		50	\$0.00
4	Administrative Appeals	1	50	\$2,500.00
5	Post-Acquisition	1	100	\$5,000.00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL INHOUSE			\$35,500.00

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE



FILE **CSBRG-0007-00(054), Twiggs County, P.I. # 0007054** OFFICE Thomaston
SR-19 @ CSX Railroad 2.8 mi SE of Dry Branch

FROM Kerry Gore, District Utilities Engineer DATE March 26, 2012

TO Chad White, Project Manager

SUBJECT **PRELIMINARY UTILITY COST (ESTIMATE)**

As requested by your office, we are furnishing you with a Preliminary Utility Cost estimate for each utility with facilities potentially located within the project limits.

<u>FACILITY OWNER</u>	<u>NON-REIMBURSABLE</u>	<u>REIMBURSABLE</u>
BellSouth d/b/a AT&T Georgia	37,500	0
Level (3) Communications	93,370	0
Oconee EMC	0	114,750
TOTALS	\$130,870	\$114,750

Total Preliminary Utility Cost Estimate **\$245,620**.

If you have any questions, please contact Harland Smith at 706-646-6696.

KG/pls

cc: Jeff Baker, P.E., State Utilities Engineer (via: e-mail)
Angela Robinson, Office of Financial Management (via: e-mail)
Sheldon Minor, Area Engineer (via: e-mail)

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: CSBRG-0007-00(054), Twiggs County
P.I. No. 0007054

OFFICE: State Utilities Office

FROM: *For: JBF*
Jeff Baker, State Utilities Engineer

DATE: September 22, 2011

TO: Bobby Hilliard, State Program Delivery Engineer
ATTN: Chad White

SUBJECT: PRELIMINARY RAILROAD COST FOR SURFACE WORK (CONCEPT ESTIMATE)

A review of railroads located within the project limits on the above referenced project has been conducted based on the proposed concept report provided. Listed below is a breakdown of the estimated railroad costs:

<u>FACILITY OWNER</u>	<u>NON-REIMBURSABLE</u>	<u>REIMBURSABLE</u>
Georgia Central Railway, LP	\$0.00	\$175,000.00
Total Reimbursement Cost:	\$0.00	\$175,000.00

Total railroad surface work reimbursable cost for the above project is estimated to be:
\$175,000.00.

Please note that this amount does not include other reimbursable utility and railroad warning device costs that may be associated with this project. Please keep the railroad costs separate from other utilities in your designer's cost estimate.

If you have any questions, please contact Richard Crowley, (404)631-1372, rcrowley@dot.ga.gov or Jill Franks, (404) 631-1370, jfranks@dot.ga.gov.

JB:RLC:jlf

cc: Sal Pirzad, State Utilities Preconstruction Engineer
Angela Robinson, State Financial Management Administrator
Kerry Gore, District 3 Utilities Engineer

Woods, Sam

From: White, Chad
Sent: Thursday, February 16, 2012 10:33 AM
To: Woods, Sam
Cc: Culver, Eugene
Subject: FW: PI#0007054 - Request for cost estimate
Attachments: PI 0007054.pdf

As Requested

From: Westberry, Lisa
Sent: Thursday, February 16, 2012 10:22 AM
To: White, Chad
Cc: Pugh, Samuel; Fox, Sean
Subject: RE: PI#0007054 - Request for cost estimate

Chad,

The project is located on SR 19 over the CSX Railroad approximately 2.8 miles southeast of Dry Branch in Twiggs County. I reviewed the National Wetland Inventory Maps and soil survey maps and based on the project description, wetlands would be impacted by this project and mitigation would be required. I've estimated that mitigation costs would be \$45,000.

DISCLAIMER: This information is based on a desk top review of the information available and only after a field reconnaissance will it be known for certain what the project impacts are and how many credits will be required for mitigation.

If you have any questions, please don't hesitate to ask.

Thank you,
Lisa Westberry
Georgia Department of Transportation
600 West Peachtree Street, NW, Atlanta, GA 30308
404-631-1772

From: White, Chad
Sent: Thursday, February 16, 2012 9:41 AM
To: Westberry, Lisa
Subject: PI#0007054 - Request for cost estimate

Greetings,

This is a bridge replacement project on a 2-lane rural road over a railroad. Different alternates have been considered including an off-site detour, a temporary bridge, and a permanent new alignment bridge. The off-site detour was recently presented at a detour meeting; it was not well received due to trucking companies in the area, emergency vehicle access, etc. A temporary bridge alignment ended up looking very similar to a permanent realignment, but with the extra cost of the temporary bridge. So we have settled on a permanent new alignment bridge. A project layout (used as an additional survey request) can be found at this [LINK](#). The file is called "0007054 Survey Request Layout".

Thanks for your help, and please let me know if you need any more project information from us.

ACCIDENT RATE CALCULATION for year(s) 2006, 2007, 2008

Accident Data Information System

ACCIDENT RATE CALCULATION 2006

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2006	Twiggs	1	001900	19.80	19.97	1,520	0.17	258

Total Vehicle Miles: 258	Total Accidents: 0	Accident Rate: 0
Average ADT: 1,520	Total Injuries: 0	Injury Rate: 0
Length in Miles: 0.17	Total Fatalities: 0	Fatality Rate: 0.00

NOTE: Rates are per 100 Million Vehicle Miles

ACCIDENT RATE CALCULATION 2007

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2007	Twiggs	1	001900	19.80	23.10	1,400	3.30	4,620
2007	Twiggs	1	001900	16.40	19.97	1,400	3.57	4,998

Total Vehicle Miles: 9,618	Total Accidents: 0	Accident Rate: 0
Average ADT: 1,400	Total Injuries: 0	Injury Rate: 0
Length in Miles: 6.87	Total Fatalities: 0	Fatality Rate: 0.00

NOTE: Rates are per 100 Million Vehicle Miles

ACCIDENT RATE CALCULATION 2008

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2008	Twiggs	1	001900	19.80	23.10	1,400	3.30	4,620
2008	Twiggs	1	001900	16.40	19.97	1,400	3.57	4,998

Total Vehicle Miles: 9,618	Total Accidents: 0	Accident Rate: 0
Average ADT: 1,400	Total Injuries: 0	Injury Rate: 0
Length in Miles: 6.87	Total Fatalities: 0	Fatality Rate: 0.00

NOTE: Rates are per 100 Million Vehicle Miles

QUERY SUMMARY
For Year(s): 2006, 2007, 2008

Year	County	Route Type	Route Number	Beginning Milelog	Ending Milelog	No. Accidents	No. Vehicles	No. Injuries	No. Fatalities
2006	Twiggs	State Route	001900	19.80	19.97	0	0	0	0
2006 SubTotal						0	0	0	0
2007	Twiggs	State Route	001900	19.80	19.97	0	0	0	0
2007 SubTotal						0	0	0	0
2008	Twiggs	State Route	001900	19.80	19.97	0	0	0	0
2008 SubTotal						0	0	0	0
All Year(s)Total						0	0	0	0

YEAR ALL ACCIDENTS RATE INJURY ACCIDENTS RATE FATAL ACCIDENTS

2006	0(179)	0(100)	0(2.61)
2007	0(187)	0(100)	0(2.58)
2008	0(181)	0(96)	0(2.53)

Note: The rate equals accidents per 100 million vehicle-miles of travel. The rates shown above were generated for SR 19/US 80 Bridge over CSX Railroad from MP 19.80 to MP 19.97. Numbers in parentheses are statewide average rates for Rural Minor Arterials.

Crash Data

The functional classification for SR 19/US 80 within the proposed project's limits is Rural Minor Arterial. The crash rates on SR 19 /US 80 is below the statewide injury accident rates on rural minor arterial for 2006 thru 2008. There were no fatalities reported on this section of US SR 19/US 80 from 2006-2008.

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(054), Twiggs County **OFFICE** Planning
P.I. # 0007054
DATE October 21, 2010

FROM Angela T. Alexander, State Transportation Planning Administrator

TO Bobby K. Hilliard, P.E., State Program Delivery Engineer
Attention: Emay Robinson

SUBJECT Traffic Assignments for S.R. 19 CSX RR 2.8 MI SE of Dry Branch.

We are furnishing estimated traffic assignments for the above project as follows:

TC # 0129
2009 AADT = 1500
2017 AADT = 1650
2037 AADT = 2000
K = 8%
D = 60%
T. = 5%
24 HR. T. = 7%
S.U. = 4%
COMB. = 3%

If you have any questions concerning this information please contact Abby Ebodaghe at (404) 631-1923.

ATA/afe



Processed Date: 4/4/2011

Bridge Inventory Data Listing

Parameters: Bridge Serial Num

Structure ID: 289-0003-0

SUFF. RATING: 45.06

Twiggs

Location & Geography

Structure ID: 289-0003-0
 200 Bridge Information:
 *8A Feature Int:
 *8B Critical Bridge:
 *7A Route No Carried:
 *7B Facility Carried:
 9 Location:
 2 Dot District:

*104 Highway System:
 *26 Functional Classification:
 *204 Federal Route Type:
 105 Federal Lands Highway:
 *110 Truck Route:
 2006 School Bus Route:
 217 Benchmark Elevation:
 218 Datum:

Signs & Attachments
 225 Expansion Joint Type:
 242 Deck Drains:
 243 Parapet Location:
 Height:
 Width:
 238 Curb Height:
 Curb Material:
 239 Handrail:
 *240 Medium Barrier Rail:
 241 Bridge Median Height:
 * Bridge Median Width:
 230 Guardrail Loc. Dir. Rear:
 Fwrd:

207 Year Photo:
 *91 Inspection Frequency:
 92A Fret Crit Insp Freq:
 92B Underwater Insp Freq:
 92C Other Spc. Insp Freq:
 *4 Piece Code:
 *5 Inventory Route(OU):

*19 Bypass Length:
 *20 Toll:
 *21 Maintenance:
 *22 Owner:
 *31 Design Load:
 37 Historical Significance:
 205 Congressional District:
 27 Year Constructed:
 106 Year Reconstructed:
 33 Bridge Median:
 34 Slew:

233 Posted Speed Limit:
 236 Warning Sign:
 234 Delineator:
 235 Hazard Boards:
 237 Utilities Gas:
 Water:
 Electric:
 Telephone:
 Sewer:
 247 Lighting Street:
 Navigation:
 Aerial:
 *248 County Continuity No.:

Type:
 Designation:
 Number:
 Direction:
 *16 Latitude:
 *17 Longitude:
 98 Border Bridge:
 99 ID Number:
 *100 STRAUNET:

205 Congressional District:
 27 Year Constructed:
 106 Year Reconstructed:
 33 Bridge Median:
 34 Slew:
 35 Structure Flared:
 38 Navigation Control:
 213 Special Steel Design:
 267 Type of Pair:
 *42 Type of Service On:
 Type of Service Under:
 214 Movable Bridge:
 203 Type Bridge:
 258 Pile Encasement:
 *43 Structure Type Maint:
 45 No. Spans Maint:
 44 Structure Type Appr:
 46 No Spans Appr:
 226 Bridge Curve Horz:
 111 pier Protection

247 Lighting Street:
 Navigation:
 Aerial:
 *248 County Continuity No.:

12 Base Highway Network:
 13A LBS Inventory Route:
 13B Sub Inventory Route:
 101 parallel Structure:
 *102 Direction of Traffic:
 *264 Road Inventory Mile Post:
 *208 Inspection Area:
 Engineer's Initials:
 * Location ID No.:

*19 Bypass Length:
 *20 Toll:
 *21 Maintenance:
 *22 Owner:
 *31 Design Load:
 37 Historical Significance:
 205 Congressional District:
 27 Year Constructed:
 106 Year Reconstructed:
 33 Bridge Median:
 34 Slew:
 35 Structure Flared:
 38 Navigation Control:
 213 Special Steel Design:
 267 Type of Pair:
 *42 Type of Service On:
 Type of Service Under:
 214 Movable Bridge:
 203 Type Bridge:
 258 Pile Encasement:
 *43 Structure Type Maint:
 45 No. Spans Maint:
 44 Structure Type Appr:
 46 No Spans Appr:
 226 Bridge Curve Horz:
 111 pier Protection

247 Lighting Street:
 Navigation:
 Aerial:
 *248 County Continuity No.:

Bridge Inventory Data Listing



Parameters: Bridge Serial Num

Structure ID: 289-0003-0

Programming Data

201 Project No: NRH 159-B
 202 Plans Available: 4
 249 Prop Proj No: BRG-0007-00(064)
 250 Approval Status: 0000
 251 P1 Number: 0007054
 252 Contract Date: 02/01/1901
 260 Seismic No: 00000
 75 Type Work: 34 1
 34 Bridge Imp. Cost: \$ 196
 35 Roadway Imp. Cost: 229
 36 Total Imp Cost: 530
 76 Imp Length: 001510
 37 Imp Year: 1980
 1145 Struct ADT: 002100 Year: 2027

Hydraulic Data

215Watersay Data:
 High Water Elev: 0000.0 Year: 1900
 Flood Elev: 0000.0 Freq: 00
 Avg Streambed Elev: 0000.0
 Drainage Area: 00000
 Area of Opening: 000000
 113 Scour Critical: N
 216Water Depth: 00.0 Br. Height: 00.0
 222Slope Protection: 0
 221Slope Protection: 0 Fwd: 0
 219Fender System: 0
 220Dolphin: 0
 223Current Cover: 000
 Type: 0
 No. Barge: 0
 Width: 0.00 Height: 0.00
 Length: 0 Apert: 0
 265 LWL Insp. Area: 0 Diver: ZZZ
 Location ID No: 289-00019D-018.72N

Measurements:

*29ADT 001400 Year: 2007
 109% Trucks: 0
 *28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 01
 *48 Max. Span Length: 0066
 *49 Structure Length: 190
 51 Br. Rwdy. Width: 23.80
 52 Deck Width: 26.90
 *47 Tot. Horiz. Cl: 24
 50 Curb / Sidewalk Width: 0.50 / 0.50
 32 Approach Runway Width: 028
 *29 Shoulder Width: 2.00 Type: 2 Rtc: 2.00
 Rear Lt: 2.00 Type: 2 Rtc: 2.00
 Fwd. Lt: 24.00 Type: 2
 24.00 Type: 2
 1 Fwd: 0
 2 Rear:
 36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 2
 App. Rail End: 2
 59 Minimum Cl. Over: 99 99"
 Under:
 *228 Minimum Vertical Cl
 Act. Odm Dir: 99 99"
 Oppo. Dir: 99 99"
 Posted Odm. Dir: 00 00"
 Oppo. Dir: 00 00"
 55 Lateral Underd. Rt: R 15 15
 56 Lateral Underd. Lt: 0.00
 *10 Max Min Vert Cl: 99 99" Dir: 0
 39 Nav Vert Cl: 000 Horiz: 0000
 116 Nav Vert Cl Closest: 000
 245 Deck Thickness Main Deck Thick Approach: 7.50
 246 Overlay Thickness: 0.00
 5.00
 212 Year Last Painted: Sup: 1989 Sub: 0000

Inventory Rating Method:

65 Inventory Rating Method: 2
 63 Operating Rating Method: 2
 66 Inventory Type: 2 Rating: 19
 64 Operating Type: 2 Rating: 18
 231 Calculated Loads:

H-Modified: 20 0
 HS-Modified: 25 0
 Type 3: 26 0
 Type 3&2: 40 0
 Timber: 35 0
 Piggyback: 40 0

Structural Evaluation:

281 H Inventory Rating: 15
 262 H Operating Rating: 29
 67 Structural Evaluation: 4
 58 Deck Condition: 6
 59 Superstructure Condition: 5
 *227 Collision Damage: 0
 60A Substructure Condition: 7
 60B Scour Condition: N
 60C Underwater Condition: N
 71 Waterway Adequacy: N
 81 Channel Protection Cond.: N
 68 Deck Geometry: 3
 69 UnderCir. Horiz/Vert: 6
 72 Appr. Alignment: 4
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
 41 Struct Open, Posted, Cl: A
 *108 Temporary Structure: 0
 232 Posted Loads
 H-Modified: 00
 HS-Modified: 00
 Type 3: 00
 Type 3&2: 00
 Timber: 00
 Piggyback: 00

Notification Data:

253 Notification Date: 02/01/1901
 258 Fed Notify Date: 2/1/1901 12:00:00AM

HIGHWAY SAFETY MANUAL (HSM) ANALYSIS for CONCEPT REPORTS

This Concept Report includes an HSM predicted average crash frequency analysis for the design year ADT using the Manual’s Predictive Method. The HSM uses AADT with the Predictive Method while this analysis uses ADT since AADT is typically not available for GDOT projects. The Predictive Method analysis is based on Safety Performance Functions (SPF) for individual roadway segments and intersections that provide the crash frequency. The HSM often provides information on crash frequency distribution by collision type and severity. Some SPFs include HSM Crash Modification Factors (CMF) that adjust the SPF crash frequency to account for difference between HSM base conditions and project specific conditions such as geometric design features. The HSM includes local calibration factors to further refine predictive average crash frequency. These local factors have not yet been developed by GDOT.

Project Segment and Intersection Types analyzed

Segment				Intersection	
ID #	Type	Begin M.P.	End M.P.	ID #	Type
1	2-Lane Undivided Rural	19.68	19.75	N/A	N/A
2	2-Lane Undivided Rural	19.75	19.85	N/A	N/A
3	2-Lane Undivided Rural	19.85	19.95	N/A	N/A
4	2-Lane Undivided Rural	19.95	19.99	N/A	N/A
5	2-Lane Undivided Rural	19.99	20.16	N/A	N/A
6	2-Lane Undivided Rural	20.16	20.24	N/A	N/A

Summary of Results

This project is located on S.R. 19 over CSX Railroad located in Twiggs County. It is approximately 0.56 miles in length and was divided into six segments with no intersections. These segments are classified and analyzed by the Highway Safety Manual using the rural 2-lane 2-way predictive method. The Highway Safety Manual analysis predicts for the 2037 design year ADT, a total of 0.387 crashes for the proposed project. This compares to the Highway Safety Manual base condition analysis, which predicts for the 2037 design year ADT, a total of 0.298 crashes. This slightly higher predicted crash frequency for the proposed roadway segments versus the Highway Safety Manual base conditions is due to the paved shoulder width, the horizontal curve, and the anticipated vertical grade of the roadway.

Meeting Minutes

6-10-2011

0007054, Twiggs County
Initial Concept Meeting

Attendees

Chad E. White Sr.-Program Delivery (Project Manager)
Nicoe Alexander-Roadway Design Group Leader
Jonathan Craig-Roadway Design
Eugene Culver –Roadway Design
Sam Pugh- Environmental Services
Bill Rountree –District 3 Preconstruction
Carol Perry –District 3 Right of Way
Ken Robinson –District 3 Construction Engineer
Scott Parker –District 3 Traffic Operations
Sheldon-Minor-Area 4, District 3 Engineer
Kevin Ellis –Assistant Area 4, District Engineer
Honorable James Epps-State Representative House District 140
Honorable Ray Bennett-Twiggs County Commissioner Chairmen
Kathryn Epps-Twiggs County Commissioner
Donald Floyd-Twiggs County Commissioner
Bob Rychel- Middle GA. Regional Commission

*Bill DuVall- Bridge Design Assistant State Engineer

**Attendance by conference call*

- The Project Manager (PM) Chad E. White introduced the Project P.I. 0007054 bridge replacement SR19 (80) @ CSX Railroad 2.8 miles southeast of Dry Branch, Georgia.
- The PM indicated that the schedule is as follows.
 - Concept Approval by December 2011
 - Environmental Approval by July 2012 (*Adjustment was made*)
 - Preliminary Plans by October 2012
 - Right of Way (RW) Approval by 3/15/2013
 - Management LET date October 2014
- The PM conveyed Surveyed must be completed before concept approval by end of year 2011. (*Bill Rountree stated surveying will begin in a few weeks*)
- The PM stated that at this time there should only be four parcels.

- Nicoe Alexander describes the design layout and the potential alternates, traffic count and rural arterial.
 - Alternative #1 Close the road with a detour and replace the bridge in place. *(Detours in the area are a minimum of 14 miles)*
 - Alternative #2 Shift to a new location and alignment south of the existing bridge.
 - Alternative #3 Build a temporary bridge adjacent to the existing bridge and replace existing in place.
- Concerns expressed about Alternative #1 with respect to the detours by the commissioners member in attendance. Kevin Ellis expresses *(Construction time reduction and cost savings)* Kathryn Epps-Twigg County Commissioner also expressed that the community will be happy with the cost savings of replacing the bridge in place. All agreed that replacing the bridge was the best course of action. The commissioners also expressed their still concern about the detour and want to be involved.
- Detour coronation concerns will be railroad crossings.
- Utilities are on the Bridge but should not be a major issue.

Action Items:

- Environmental, Design group and Bridging will focus on Alternative #1 for design and construction.
- Detour Plan developed and held along with the public hearing meeting.
- Dates on the survey work (limits will be 300 to 500 feet on both sides of the bridge and exiting roadway). *(Additional can be done later if needed)*
- Adjusted the schedule dates of environmental approval *(completed)*

Meeting Minutes

09-23-2011

0007054, Twiggs County

Concept Meeting

Attendees

Chad E. White Sr.-Program Delivery (Project Manager)

Chuck Hasty-Roadway Design

Jonathan Craig-Roadway Design

Eugene Culver –Roadway Design

Dwayne Wilson –Roadway Design

Charles Jay Strange –District 3 Right of Way

Kerry Gore –District 3 Utilities

Ken Robinson –District 3 Construction Engineer

Jeremy Daniel –Engineer Services

Sheldon-Minor-Area 4, District 3 Engineer

Michelle Aldwell, Planning

Kathryn Epps-Twiggs County Commissioner

Bob Rychel, MGRC

- The Project Manager (PM) Chad E. White introduced the Project P.I. 0007054 bridge replacement SR19 (80) @ CSX Railroad 2.8 miles southeast of Dry Branch, Georgia.
- The PM indicated that the schedule is as follows.
 - Concept Approval by December 2011
 - Environmental Approval by July 2012
 - Preliminary Plans by October 2012
 - Right of Way (R/W) Approval by 3/15/2013
 - Management LET date October 2014
- Jonathan Craig from road design discussed the project justification, the design layout and the potential alternates, traffic count and rural arterial.
 - Alternative #1 Close the road with a detour and replace the bridge in place. *(Detours in the area are a minimum of 14 miles)*
 - Alternative #2 Shift to a new location and alignment south of the existing bridge.

-Alternative #3 Build a temporary bridge adjacent to the existing bridge and replace existing in place.

- Concerns expressed about Alternative #1 with respect to the detour. Kathryn Epps-Twiggs County Commissioner expresses Advanced Waste disposal will be the only stakeholder of concern.
- The county roads may need to be upgraded to handle the state level traffic.
- Michelle Aldwell-Planning voiced a concern for a potential maintenance agreement with Twiggs County with the road upgrade.
- Chuck Hasty-Roadway Design- expressed the need for netting due to the nesting of Barn Swallows to prevent further environment concerns.
- Kerry Gore- District 3 Utilities stated that utilities on the bridge but should not be a major issue, but potential impacts if county roads are upgraded.

Action Items:

- Detour Plan developed and held along with the public hearing meeting.
- Planning will validate the traffic count data for the project by 7 October 2011.
- Core Samples (pavement evaluation) will be requested to test sgoda and riggins Roads for possible detour.
- The project team will conduct a detailed meeting concerning the potential project detour and the overall concept of the project.



February 10, 2012

See attached
recipient list
— SP

Advanced Disposal Services
2201 Trade Drive
Macon, GA 31217

Re: Project CSBRG-0007-00(054), Twiggs County, P.I. No. 0007054, – Responses to
Detour Open House Comments

Dear Sir or Madam,

Thank you for your comments concerning the proposed project referenced above. We appreciate your participation and all of the input that was received as a result of the January 5, 2012 detour open house. Every written comment received and verbal comment given to the court reporter at the open house will be made part of the official record of the project.

A total of 27 people attended the January 5, 2012 open house. Of the 20 respondents who formally commented, 1 was in support of the project, 10 were opposed, 3 were uncommitted, and 6 expressed conditional support.

The open house attendees and those persons sending in comments afterwards raised the following questions and concerns. The Georgia Department of Transportation (GDOT) has prepared this one response letter that addresses all comments received so that everyone can be aware of the concerns raised and the responses given. Please find the comments summarized below (*in italics*) followed by our response:

- *"The off-site detour route would drive up fuel, labor and vehicle maintenance costs for a local business."*
- *"The off-site detour route would negatively impact nearby citizens' health, quality of life and finances. Also the off-site detour would lengthen the response time of emergency service personnel, potentially risking the lives of nearby citizens."*
- *"The off-site detour needs more study. There are shorter possible detour routes if GDOT will consider paving dirt roads to make them accessible to truck traffic."*
- *"One suggestion is to keep one-lane be open during construction and rebuild the bridge one lane at a time, allowing for the route to be partially open at all times during construction."*
- *Additionally, GDOT received a 40-signature petition indicating opposition to the off-site detour.*

As a result of the above concerns, GDOT will not utilize an off-site detour as presented at the detour meeting. Rather than replacing the existing bridge at its current location, a new permanent bridge is proposed to be constructed to the south of the existing bridge. This would allow the new bridge and approaching roadway to be constructed while maintaining traffic on existing SR 19. Once construction of the new bridge is complete, traffic would be shifted onto the new facility while the old roadway and bridge are removed. This work would be done with minimal impact to traffic on SR 19, while allowing SR 19 to remain open to traffic throughout construction.

Again, thank you for your comments concerning this project. Should you have any further questions, comments, or concerns, please call the project manager, Chad White, at (404) 631-1546 or the environmental analyst, Sam Pugh, at (404) 631-1167.

Sincerely,



Glenn Bowman, P.E.
State Environmental Administrator

GB/sp

cc: Chad White, GDOT Project Manager

Office Address List

2/10/2012

Title	First Name	Last Name	Company Name	Address Line 1	Address Line 2	City	State	ZIP Code
Mr.	Charles A.	Asbell	Advanced Disp	2201 Trade Dri		Macon	GA	31217
Mrs. and Mr.	Emilye Jo and L	Spires		3327 US Highw		Dry Branch	GA	31020
Mr.	Jamie	Bussell		3331 US Highw		Dry Branch	GA	31020
Ms.	Ethel	Carswell	c/o Stafford Tr	314 Garrison R		Macon	GA	31211
Mr.	Calvin	Davis		4368 US Highw		Dry Branch	GA	31020
Mr.	Jerry	Fincher		P.O. Box 353		Jeffersonville	GA	31044
Mr.	Samuel H.	Harris		P.O. Box 262		Dry Branch	GA	31020
Mr.	Sammy	Hester		2223 US Highw		Dry Branch	GA	31020
Sheriff	Darren	Mitchum		3241 US Highw		Dry Branch	GA	31020
Mr.	Milton	Sampson		37 North Ash S		Jeffersonville	GA	31044
Ms.	Estella	Sams		15095 GA High		Dry Branch	GA	31020
Mr.	Kenneth	Stanley		367 D. Street		Jeffersonville	GA	31044
Ms.	Virginia	Villatoro		4586 US Highw		Dry Branch	GA	31020
Mr.	Joseph E.	Berry	Advanced Disp	911 Landfill Ro		Dry Branch	GA	31020
Mr.	Kenny	McCrimmon		860 Parker Roa		Dry Branch	GA	31020
Mr.	William	Hickman		3325 US Highw		Dry Branch	GA	31020
Mr.	Charles	Merkley		11086 US High		Jeffersonville	GA	31044
Mr.	Adam	Cochran		2201 Trade Dri		Macon	GA	31217
Commissioner	Kathy	Epps		127 Brookefiel		Macon	GA	31210
Commissioner	Ray	Bennett	Twiggs County	P.O. Box 557		Jeffersonville	GA	31044
Officer	Javoris	Burnett	Twiggs County	P.O. Box 557		Jeffersonville	GA	31044
			Jeffersonville P	P.O. Box 223		Jeffersonville	GA	31044