

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. # 0011686 **OFFICE** Design Policy & Support
Murray County
GDOT District 6 - Cartersville **DATE** 4/29/2015
Bridge Replacement: SR 61 over CSX
RR in Tennega GA

FROM  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:

Glenn Bowman, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Charles "Chuck" Hasty, State Materials Engineer
Mike Bolden, State Utilities Engineer
Richard Cobb, Statewide Location Bureau Chief
Andy Casey, State Roadway Design Engineer
Attn: David Ray, District Design Engineer
DeWayne Comer, District Engineer
Tim Matthews, District Preconstruction Engineer
Kerry Bonner, District Utilities Engineer
Jeff Simmons, Project Manager
BOARD MEMBER - 14th Congressional District

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

Project Type:	<u>REPLACEMENT</u>	P.I. Number:	<u>0011686</u>
GDOT District:	<u>6</u>	County:	<u>MURRAY</u>
Federal Route Number:	<u>US 411</u>	State Route Number:	<u>61</u>
	Project Number:		<u>N/A</u>

Replacement of existing bridge over CSX railroad on SR 61 in Tennga Ga.

Submitted for approval:

<u>David W. Bay</u> GDOT Concept/Design Phase Office Head & Office	<u>DL ROAD DESIGN</u>	<u>1/26/15</u> Date
<u>Albert V. Shelby III</u> State Program Delivery Engineer		<u>1/27/15</u> Date
<u>[Signature]</u> GDOT Project Manager		<u>1/26/15</u> Date

Recommendation for approval:

* <u>HIRAL PATEL</u> State Environmental Administrator		<u>4-7-2015</u> Date
* <u>ANDREW HEATH</u> State Traffic Engineer		<u>2-4-2015</u> Date
* <u>LISA MYERS</u> Project Review Engineer		<u>2-3-2015</u> Date
* <u>YOLONDA PRIDE-FOSTER</u> State Utilities Engineer		<u>2-12-2015</u> Date
<u>[Signature]</u> District Engineer		<u>1-26-2015</u> Date
* <u>BEN RABUN</u> State Bridge Engineer		<u>2-3-2015</u> Date

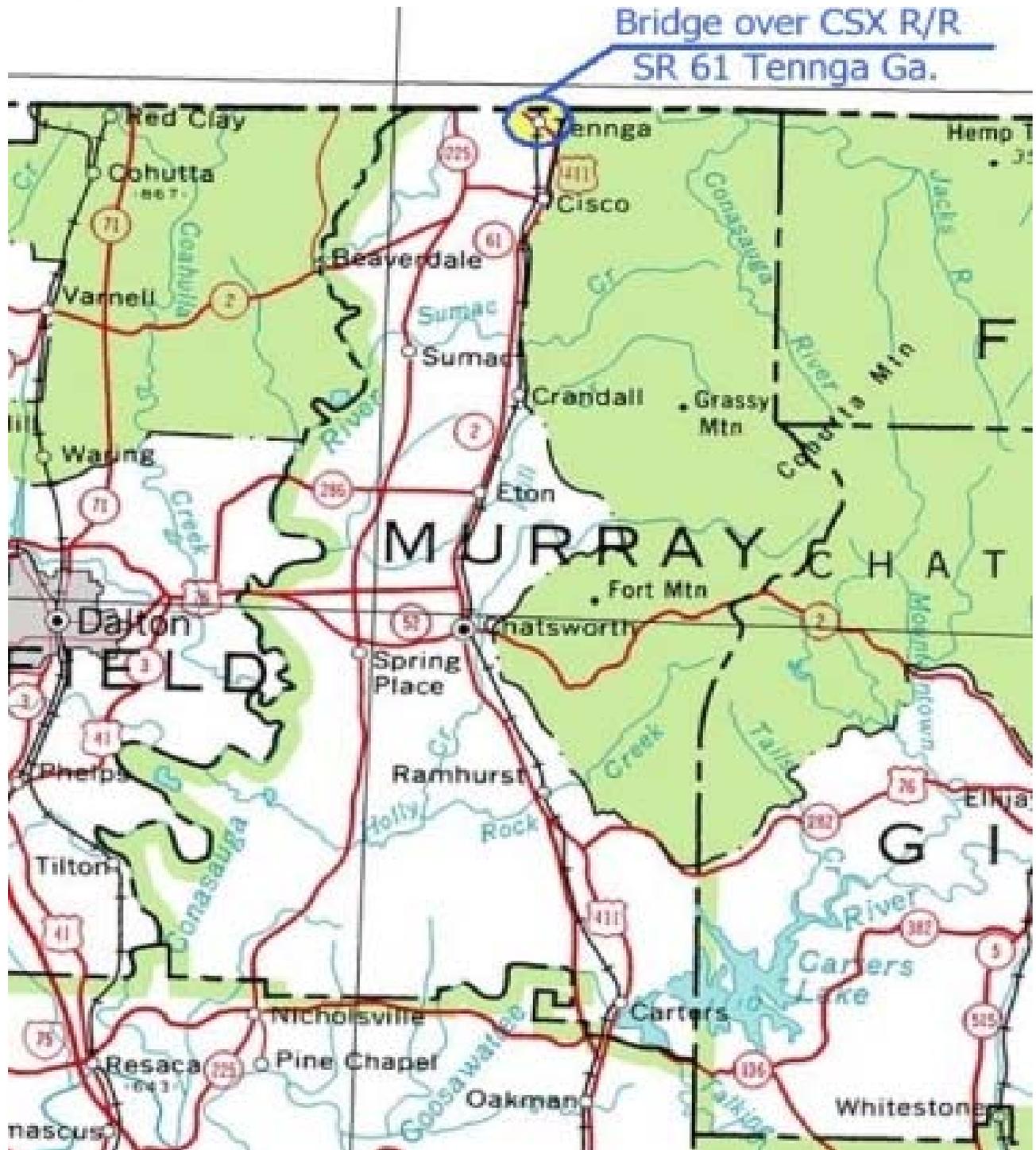
- MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).
- Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).

* <u>CYNTHIA L. VAUGHN</u> State Transportation Planning Administrator		<u>2-3-2015</u> Date
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* RECOMMENDATION - [Signature]

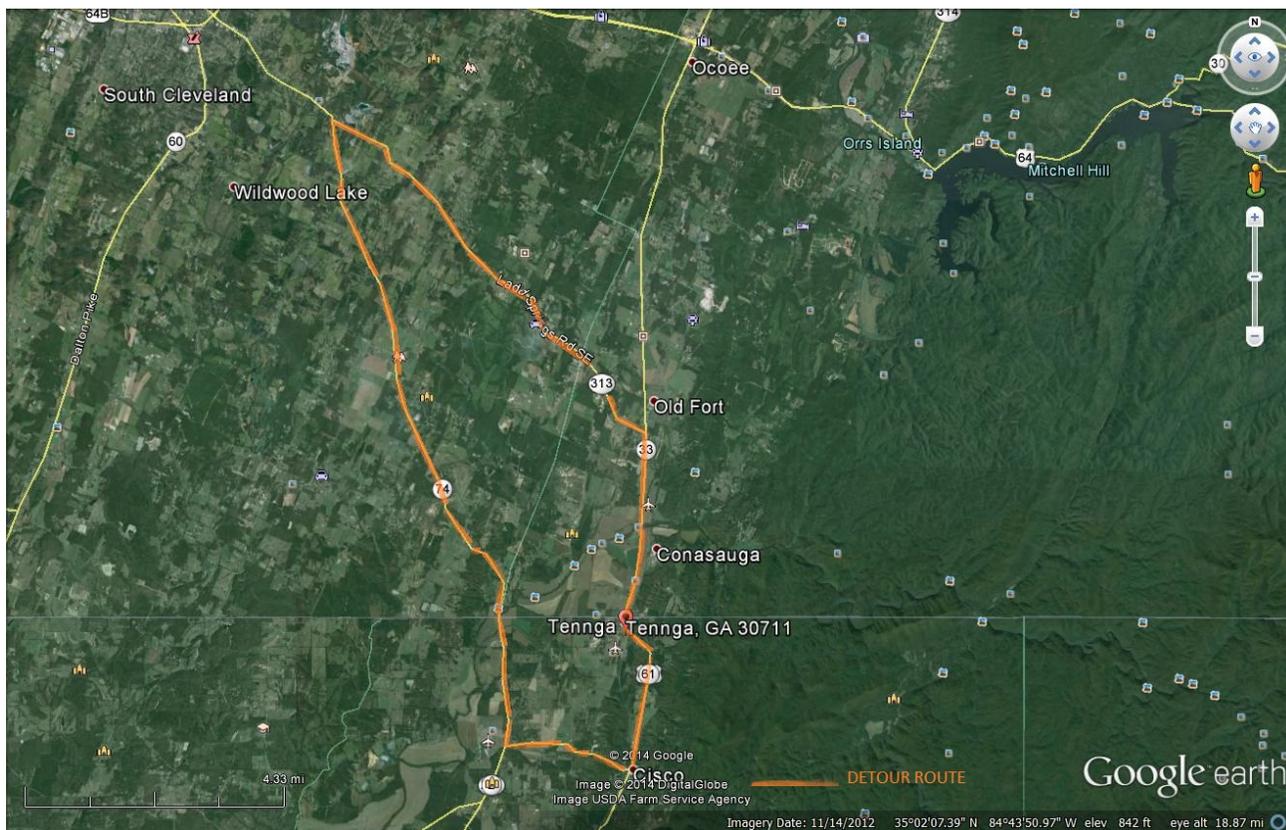
County: Murray

PROJECT LOCATION MAP



This project will consist of replacing the current bridge on SR 61 over CSX railroad south of unincorporated Tenna Ga. The proposed length of project will be approximately 0.34 miles.

DETOUR ROUTE MAP



County: Murray

PLANNING AND BACKGROUND

Project Justification Statement: (Bridge Maintenance Office)

This bridge (Structure ID 213-0021-0; SR 61 over CR 182 and CSX Railroad) was built in 1962. The bridge consists of five spans of steel beams on concrete caps and concrete columns. The overall condition of this bridge would be classified as poor to good. The deck is in poor condition due to advanced concrete cracking and spalling. The superstructure is in good condition with some minor problems. The substructure is in poor condition due to concrete cracking and spalling. Due to the poor condition of the bridge deck and the substructure replacement of this bridge is recommended.

Existing conditions: The project is currently a two lane bridge with no medians or sidewalks.

MPO: N/A - Project not in MPO

TIP #: N/A

TIA Regional Commission: N/A

Congressional District(s): 14

Federal Oversight: PoDI Exempt State Funded Other

Projected Traffic: AADT 24 HR T: 22 %

Current Year (2011): 2,600 Open Year (2018): 3,000 Design Year (2038): 4,450

Traffic Projections Performed by: GDOT PLANNING OFFICE

Functional Classification (Mainline): Rural Minor Arterial

Complete Streets - Bicycle, Pedestrian, and/or Transit Standard Warrants:

Warrants met: None Bicycle Pedestrian Transit

Is this a 3R (Resurfacing, Restoration, & Rehabilitation) Project? No Yes

Pavement Evaluation and Recommendations

Preliminary Pavement Evaluation Summary Report Required? No Yes

Preliminary Pavement Type Selection Report Required? No Yes

Feasible Pavement Alternatives: HMA PCC HMA & PCC

DESIGN AND STRUCTURAL

Description of the proposed project: This project will consist of replacing the current bridge on SR 61 over CSX railroad south of unincorporated Tennga Ga. The proposed length of project will be approximately 0.34 miles.

Major Structures:

Structure	Existing	Proposed
ID # 213-0021-0	The bridge is 245.17' x 34' with 2-12' lanes and 2' shoulders. The sufficiency Rating is 48.72.	The bridge will be 375' x 40' with 2 12' lanes and 8' shoulders.

County: Murray

Mainline Design Features: SR16/US411 Rural Minor Arterial

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2	2	2
- Lane Width(s)	12	12	12
- Median Width & Type			
- Outside Shoulder or Border Area Width	VARIABLE	8'	8'
- Outside Shoulder Slope	8%	6%	6%
Posted Speed (mph)	40/45		40/45
Design Speed (mph)	50	65 45-55 <i>ly</i>	45
Min Horizontal Curve Radius	881.5	833	1700
Maximum Superelevation Rate	6%	6%-8%	6%
Maximum Grade	5.86%	6%	6%
Access Control	BY PERMIT	BY PERMIT	BY PERMIT
Design Vehicle	N/A	WB-67	WB-67
Pavement Type	ASPHALT		ASPHALT

Major Interchanges/Intersections: NONE

Lighting required: No Yes

Off-site Detours Anticipated: No Yes Undetermined

Because of terrain the project may not be built under traffic and there is no room for an on-site detour so an off-site detour may be needed.

Transportation Management Plan [TMP] Required: No Yes

If Yes: Project classified as: Non-Significant Significant

TMP Components Anticipated: TTC TO PI

This project falls under the 'non-significant' category per Appendix C of the GDOT Policy 5240-1 and only a Temporary Traffic Control plan will be required.

Design Exceptions to FHWA/AASHTO controlling criteria anticipated:

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

County: Murray

Design Variances to GDOT Standard Criteria anticipated:

GDOT Standard Criteria	Reviewing Office	No	Undetermined	Yes	Appvl Date (if applicable)
1. Access Control/Median Openings	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Intersection Sight Distance	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Intersection Skew Angle	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Lateral Offset to Obstruction	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Rumble Strips	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Safety Edge	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Median Usage	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Roundabout Illumination Levels	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Complete Streets	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. ADA & PROWAG	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. GDOT Construction Standards	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. GDOT Drainage Manual	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. GDOT Bridge & Structural Manual	Bridges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VE Study anticipated: No Yes Completed – Date:

UTILITY AND PROPERTY

Temporary State Route needed: No Yes Undetermined

Railroad Involvement: CSX R/R

Utility Involvements: North Georgia EMC, Chatsworth Water, AT&T – Southeast, and Charter Communications.

SUE Required: No Yes Undetermined

Public Interest Determination Policy and Procedure recommended? No Yes

Right-of-Way (ROW): Existing width: VARIES ft. Proposed width: VARIES ft.

Required Right-of-Way anticipated: None Yes Undetermined

Easements anticipated: None Temporary Permanent Utility Other

Check all easement types that apply.

Anticipated total number of impacted parcels: 11
 Displacements anticipated: Businesses: _____
 Residences: 1
 Other: _____
 Total Displacements: 1

Location and Design approval: Not Required Required

County: Murray

CONTEXT SENSITIVE SOLUTIONS

Issues of Concern: NONE

ENVIRONMENTAL & PERMITS

Anticipated Environmental Document:

GEPA:

NEPA: CE

EA/FONSI

EIS

MS4 Permit Compliance – Is the project located in a MS4 area?

No

Yes

Environmental Permits/Variations/Commitments/Coordination anticipated:

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

Is a PAR required?

No

Yes

Completed – Date:

Environmental Comments and Information:

NEPA/GEPA: CE is in review; Informal Section 7 is complete, noise screening complete, Air screening complete.

Ecology: An ecology assessment of effect report will be prepared. Informal section 7 coordination is anticipated for the Indiana bat and Northern Long-eared bat. If acoustic and mist netting survey is required for the bats, it takes place between May 15 and Aug 15.

History: No Adverse Effect find for 4 historic properties received

Archeology: No archaeological sites present.

Air Quality: Air report was completed and approved by GDOT. Results indicated that the project is consistent with the SIP for the attainment of clean air quality in Georgis and is in compliance with both state and federal air quality standards.

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

Carbon Monoxide hotspot analysis: Required Not Required TBD

Noise Effects: The subject project meets the criteria for a Type III project established in 23 CFR 772. Therefore, the project requires no analysis for highway traffic noise impacts.

Public Involvement: A public meeting will be held to discuss the on-site detour and explain the project. No additional outreach is required.

County: Murray

Major stakeholders: Citizens of Tennga, Georgia, local logging companies, traveling public.

CONSTRUCTION

Issues potentially affecting constructability/construction schedule: Due to tight conditions an off-sight detour may be needed with stage construction of the tie-ends.**Early Completion Incentives recommended for consideration:** No Yes

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Initial Concept Meeting: N/A**Concept Meeting:** N/A**Other coordination to date:** N/A

Project Activity	Party Responsible for Performing Task(s)
Concept Development	District 6 Design
Design	District 6 Design
Right-of-Way Acquisition	District 6 Right-of-Way
Utility Relocation	Utility Owners
Letting to Contract	GDOT
Construction Supervision	District 6 Construction
Providing Material Pits	Contractor
Providing Detours	Local Government
Environmental Studies, Documents, & Permits	GDOT
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	District 6 Construction

Project Cost Estimate Summary and Funding Responsibilities: *Add additional rows as necessary; Attach current cost estimates to report.*

	Breakdown of PE	ROW	Reimbursable Utility	CST*	Environmental Mitigation	Total Cost
Funded By	GDOT	GDOT	GDOT	GDOT		
\$ Amount	350,000.00	1,019,000.00	306,500.00	1,747,347		3,422,847
Date of Estimate	1/17/2013	4/27/2014	3/13/2015	1/21/2015		

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

ALTERNATIVES DISCUSSION

Alternative selection:

Preferred Alternative: Building a new bridge alongside the existing bridge.			
Estimated Property Impacts:	11	Estimated Total Cost:	
Estimated ROW Cost:		Estimated CST Time:	18 MONTHS
Rationale:			

No-Build Alternative: <i>description</i>			
Estimated Property Impacts:	0	Estimated Total Cost:	0
Estimated ROW Cost:	0	Estimated CST Time:	0

County: Murray

Rationale:

Alternative 1: No other alternative considered at this time.			
Estimated Property Impacts:		Estimated Total Cost:	
Estimated ROW Cost:		Estimated CST Time:	
Rationale:			

Comments:

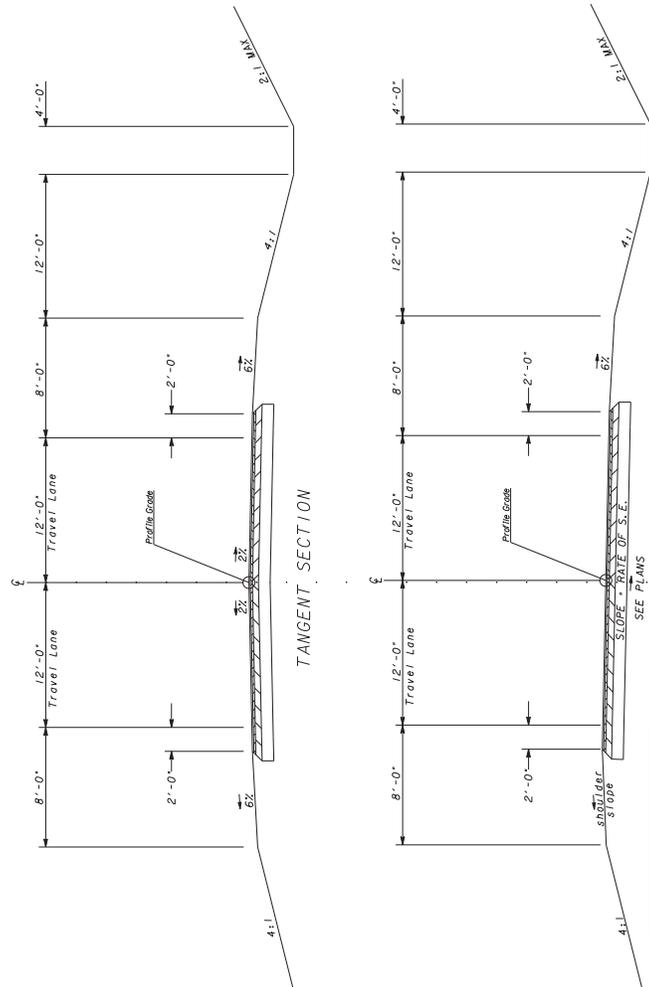
LIST OF ATTACHMENTS/SUPPORTING DATA

1. Concept Layout
2. Typical sections
3. Detailed Cost Estimates:
 - a. Construction including Engineering and Inspection and Contingencies
 - b. Completed Liquid AC Cost Adjustment forms
 - c. Right-of-Way
 - d. Utilities
4. Crash summaries
5. Traffic Data
6. Bridge Inventory Data

APPROVALS

Concur: 
 Director of Engineering

Approve:  4.21.15
 Chief Engineer Date



DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE PROJECT No. , **OFFICE**

DATE

P.I. No.

FROM

TO Lisa L. Myers, Project Review Engineer

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER

MNGT LET DATE

MNGT R/W DATE

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$

DATE

RIGHT OF WAY \$

DATE

UTILITIES \$

DATE

REVISED COST ESTIMATES

CONSTRUCTION* \$

RIGHT OF WAY \$

UTILITIES \$

* Costs contain % Engineering and Inspection

REASON FOR COST INCREASE

CONTINGENCY SUMMARY

Construction Cost Estimate:	\$ 1,643,090.87	(Base Estimate)
Engineering and Inspection:	\$ 82,154.54	(Base Estimate x 5 %)
Total Liquid AC Adjustment	\$ 22,101.21	(From attached worksheet)
Construction Total:	\$ 1,747,346.62	

REIMBURSABLE UTILITY COST

Utility Owner

Reimbursable Cost

North Georgia EMC

\$80,875.00

CSX Transportation

146,100.00

Attachments

DETAILED COST ESTIMATE



Job: 0011686CONCEPT

JOB NUMBER 0011686CONCEPT

FED/STATE PROJECT NUMBER 0011686

SPEC YEAR: 01

DESCRIPTION: SR61 OVER CSXR/R BRIDGE REPLACEMENT

ITEMS FOR JOB 0011686CONCEPT

0010 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$75,000.00000	TRAFFIC CONTROL - -0011686 MURRAY	\$75,000.00
0010	210-0100	1.000	LS	\$150,000.00000	GRADING COMPLETE - -0011686 MURRAY	\$150,000.00
0050	550-1180	60.000	LF	\$49.13227	STM DR PIPE 18",H 1-10	\$2,947.94
0180	641-1100	83.000	LF	\$56.92724	GUARDRAIL, TP T	\$4,724.96
0185	641-1200	440.000	LF	\$20.59981	GUARDRAIL, TP W	\$9,063.92
0190	641-5001	2.000	EA	\$677.55316	GUARDRAIL ANCHORAGE, TP 1	\$1,355.11
0195	641-5012	2.000	EA	\$1,919.25153	GUARDRAIL ANCHORAGE, TP 12	\$3,838.50
SUBTOTAL FOR ROADWAY:						\$246,930.43

0020 - PAVEMENT

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0015	310-1101	2020.000	TN	\$21.20090	GR AGGR BASE CRS, INCL MATL	\$42,825.82
0020	402-1812	30.000	TN	\$106.54388	RECYL AC LEVELING,INC BM&HL	\$3,196.32
0025	402-3121	640.000	TN	\$84.40346	RECYL AC 25MM SP,GP1/2,BM&HL	\$54,018.21
0030	402-3130	290.000	TN	\$110.51667	RECYL AC 12.5MM SP,GP2,BM&HL	\$32,049.83
0035	402-3190	320.000	TN	\$90.14020	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$28,844.86
0040	413-1000	524.000	GL	\$4.25208	BITUM TACK COAT	\$2,228.09
0045	432-5010	2000.000	SY	\$7.31917	MILL ASPH CONC PVMT,VARB DEPTH	\$14,638.34
SUBTOTAL FOR PAVEMENT:						\$177,801.47

0030 - SIGNING & MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0055	636-1033	267.000	SF	\$16.57028	HWY SIGNS, TP1MAT,REFL SH TP 9	\$4,424.26
0060	636-2070	147.000	LF	\$8.90899	GALV STEEL POSTS, TP 7	\$1,309.62
0065	653-1501	3270.000	LF	\$0.60059	THERMO SOLID TRAF ST 5 IN, WHI	\$1,963.93
0070	653-1502	3270.000	LF	\$0.42897	THERMO SOLID TRAF ST, 5 IN YEL	\$1,402.73
0075	653-1704	24.000	LF	\$8.97976	THERM SOLID TRAF STRIPE,24",WH	\$215.51
0080	653-6006	97.000	SY	\$5.06904	THERM TRAF STRIPING, YELLOW	\$491.70
0085	654-1001	82.000	EA	\$4.84133	RAISED PVMT MARKERS TP 1	\$396.99
0090	654-1003	82.000	EA	\$2.91620	RAISED PVMT MARKERS TP 3	\$239.13
0095	657-1085	530.000	LF	\$8.29776	PRF PL SD PVT MKG,8",B/W,TP PB	\$4,397.81
0100	657-6085	530.000	LF	\$8.24825	PRF PL SD PVMT MKG,8",B/Y,TPPB	\$4,371.57
SUBTOTAL FOR SIGNING & MARKING:						\$19,213.25

DETAILED COST ESTIMATE



Job: 0011686CONCEPT

0040 - BRIDGE REPLACEMENT

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0105	540-1102	1.000	LS	\$100,000.00000	REM OF EX BR, BR NO --1	\$100,000.00
0110	543-9000	1.000	LS	\$1,064,000.00000	CONSTR OF BRIDGE COMPLETE --1	\$1,064,000.00
SUBTOTAL FOR BRIDGE REPLACEMENT:						\$1,164,000.00

0050 - EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0115	163-0240	1.000	TN	\$200.12532	MULCH	\$200.13
0120	163-0527	20.000	EA	\$246.72893	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$4,934.58
0125	163-0529	560.000	LF	\$3.74709	CNST/REM TEMP SED BAR OR BLD STRW CK DM	\$2,098.37
0130	165-0030	1219.000	LF	\$1.03031	MAINT OF TEMP SILT FENCE, TP C	\$1,255.95
0135	165-0071	280.000	LF	\$0.73369	MAINT OF SEDIMENT BARRIER - BALED STRAW	\$205.43
0140	171-0030	2438.000	LF	\$4.44271	TEMPORARY SILT FENCE, TYPE C	\$10,831.33
0145	603-2182	100.000	SY	\$73.78831	STN DUMPED RIP RAP, TP 3, 24"	\$7,378.83
0150	603-7000	100.000	SY	\$4.08049	PLASTIC FILTER FABRIC	\$408.05
0160	700-6910	1.000	AC	\$1,112.68976	PERMANENT GRASSING	\$1,112.69
0165	700-7000	3.000	TN	\$105.62847	AGRICULTURAL LIME	\$316.89
0170	700-8000	3.000	TN	\$550.80207	FERTILIZER MIXED GRADE	\$1,652.41
0175	700-8100	50.000	LB	\$2.66050	FERTILIZER NITROGEN CONTENT	\$133.03
0155	716-2000	2708.000	SY	\$1.70533	EROSION CONTROL MATS, SLOPES	\$4,618.03
SUBTOTAL FOR EROSION CONTROL:						\$35,145.72

TOTALS FOR JOB 0011686CONCEPT

ITEMS COST:	\$1,643,090.87
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$1,643,090.87
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$1,643,090.87

PROJ. NO.

[Redacted]

CALL NO.

P.I. NO.

0011686

DATE

4/2/2014

INDEX (TYPE)

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Jan-15	\$ 2.186
DIESEL		\$ 3.045
LIQUID AC		\$ 556.00

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)				21350.4	\$	21,350.40
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	889.60		
Monthly Asphalt Cement Price month project let (APL)			\$	556.00		
Total Monthly Tonnage of asphalt cement (TMT)				64		

ASPHALT	Tons	%AC	AC ton
Leveling	30	5.0%	1.5
12.5 OGFC		5.0%	0
12.5 mm	290	5.0%	14.5
9.5 mm SP		5.0%	0
25 mm SP	640	5.0%	32
19 mm SP	320	5.0%	16
	1280		64

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$	750.81	\$	750.81
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	889.60		
Monthly Asphalt Cement Price month project let (APL)			\$	556.00		
Total Monthly Tonnage of asphalt cement (TMT)				2.250632883		

Bitum Tack

Gals	gals/ton	tons
524	232.8234	2.25063288

PROJ. NO.

[Redacted]

CALL NO.

P.I. NO.

0011686

DATE

4/2/2014

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)						0	\$	-
Monthly Asphalt Cement Price month placed (APM)		Max. Cap	60%	\$	889.60			
Monthly Asphalt Cement Price month project let (APL)				\$	556.00			
Total Monthly Tonnage of asphalt cement (TMT)					0			

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.	[Redacted]	0.20	0	232.8234	0
Double Surf.Trmt.	[Redacted]	0.44	0	232.8234	0
Triple Surf. Trmt	[Redacted]	0.71	0	232.8234	0
					0

TOTAL LIQUID AC ADJUSTMENT							\$	22,101.21
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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE Murray County OFFICE Cartersville
SR 61 @ CSX Railroad
P.I. No. 0011686

FROM  Kerry D. Bonner DATE October 9, 2013
District Utilities Engineer

TO Genetha Rice-Singleton, State Program Delivery Engineer
ATTN: Jeff Simmons, 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.

FACILITY OWNER	NON-REIMBURSABLE	REIMBURSABLE
North Georgia EMC		\$ 80,875.00
Chatsworth Water	\$ 325,625.00	
AT&T – Southeast	\$ 40,000.00	
Charter Communications	\$ 20,000.00	
<hr/>		
Totals	\$ 385,625.00	\$ 80,875.00

Total cost for the above project is \$466,500.00.

*The reimbursable amount could increase by \$ 325,625.00 if Chatsworth Water were to apply for utility assistance for the relocation of their facilities.

If you have any questions, please contact Jennifer Deems at 678-721-5323.

KDB/jd

C: Mike Bolden, State Utilities Engineer
File/Estimating Book

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: PI #0011686, Murray County **OFFICE:** State Utilities Office

FROM:  for:
Michael J. Bolden, State Utility Engineer **DATE:** November 20, 2014

TO: Albert Shelby, State Program Delivery Engineer
Attn: Jeff Simmons, Project Manager

SUBJECT: PRELIMINARY RAILROAD COST (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>
CSX Transportation – PE for bridge over railroad	\$0.00	\$44,000.00
CSX Transportation – CE for bridge over railroad	\$0.00	\$102,100.00
Total Reimbursement Cost:	\$0.00	\$146,100.00

Total railroad surface work reimbursable cost for the above project is estimated to be:

\$146,100.00.

Please note that this amount does not include other reimbursable utility 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 Jill Franks, (404) 631-1370, jfranks@dot.ga.gov or Marcela Coll, (404)631-1372 mcoll@dot.ga.gov.

MJB:jlf

cc: Jun Birnkammer, State Utilities Preconstruction Engineer
Angela Robinson, State Financial Management Administrator
Kerry Bonner, District 6 Utilities Engineer
Michael Nash, Railroad Crossing Program Manager



STATE OF GEORGIA TRAFFIC CRASH REPORT

Georgia State Patrol
Georgia Department of Public Safety
P.O. Box 1456
Atlanta, Georgia 30371-1456

Crash Number C000000663-01	Reporting Agency GEORGIA DEPARTMENT OF PUBLIC SAFETY	Reporting Agency Case Number	Reporting Agency CAD Number GSPA13CAD070692
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CRASH IDENTIFIERS

County of Crash MURRAY	City or Place of Crash GRANDALL	<input type="checkbox"/> City Limits	Crash Date/Time 09/27/2013 10:20 AM	Reported Date/Time 09/27/2013 10:27 AM	Dispatched Date/Time 09/27/2013 10:33 AM
On Scene Date/Time 09/27/2013 11:00 AM	Cleared Scene Date/Time 09/27/2013 11:09 AM	Complete Date/Time 09/27/2013 11:09 AM	Reason (if Investigation Not Complete)		Source of Information LAW ENFORCEMENT AGENCY

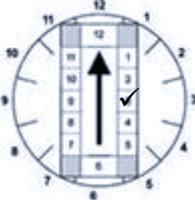
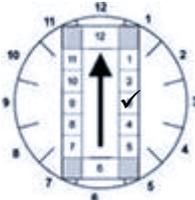
ROADWAY INFORMATION

Roadway Description for Location of Occurrence SR61 BOOGER BRANCH RD SOUTH (N OF LIBERTY CHU		Distance to City or Place of Crash	Latitude N 34 59 1.75	Longitude W 84 44 13.16
Intersecting Roadway Description for Location of Occurrence		Distance / Direction from Crash Location	<input checked="" type="checkbox"/> Roadway Blocked	Roadway Cleared Date/Time 09/27/2013 11:09:21 AM
Part of National Highway System YES	Roadway Functional Class Type URBAN	Roadway Functional Class Detail PRINCIPAL ARTERIAL-OTHER		
Type of Shoulder UNPAVED	Roadway Lighting NO LIGHTING	Roadway Bikeway Facility NONE	Signed Bicycle Route NOT APPLICABLE	
Traffic Control Type at Intersection NO CONTROL	Mainline Number of Lanes at Intersection	Side Road Number of Lanes at Intersection		

CRASH INFORMATION

Light Condition DAYLIGHT	Weather Condition CLEAR	Roadway Surface Condition DRY	<input type="checkbox"/> Crash Pictures Taken							
First Harmful Event Type COLLISION NON-FIXED OBJECT		First Harmful Event Detail MOTOR VEHICLE IN TRANSPORT								
Total Counts	Vehicles 2	CMV 0	Motorists 2	Non-Motorists 0	Injured 0	Fatalities 0	Witnesses 0	Other Persons 0	Businesses 0	Violations 2
First Harmful Event's Relation to Junction NON-JUNCTION		Is First Harmful Event within Interchange Area NO		Type of Intersection NOT AT INTERSECTION						
Contributing Circumstances: Environment NONE		Contributing Circumstances: Environment NONE		Contributing Circumstances: Environment NONE						
Contributing Circumstances: Road NONE		Contributing Circumstances: Road NONE		Contributing Circumstances: Road NONE						
School Bus Related NO		Work Zone Related NO		Crash Location in Work Zone						

VEHICLE V01

V01	Motor Vehicle Type MOTOR VEHICLE IN TRANSPORT	State TN	License Number 372HDM	Registration Expires 10/27/2013	<input type="checkbox"/> Permanent Registration	VIN 3MEMHM0JG9AR635253
Year 2010	Make MERCURY	Model MILAN	Style SEDAN	Color WHI	Body Type Category PASSENGER CAR	
Special Function of Motor Vehicle in Transport NO SPECIAL FUNCTION		Emergency Motor Vehicle Use NO		Type of Bus Use NOT A BUS		
Owner First Name PATRICIA	Owner Middle Name LUCILLE	Owner Last Name BROWN	Owner Suffix	Owner Business (if not Person)		
Address 530 TATLOR ST		Address Other		City ATHENS	State TN	Zip Code 37303
Owner Phone Number	Owner Phone Number (other)	Insurance Company PROPERTY & CASUALTY INS CO OF HTFD		Insurance Policy Number 55 PHK162820-347570		
Vehicle Removal DRIVEN - NOT DISABLED		Vehicle Towed By		Wrecker Selection Method		
Direction of Travel Before Crash SOUTHBOUND	Speed: Estimated 55	Posted	Roadway Type UNDIVIDED HIGHWAY	Total Lanes 2	Roadway Horizontal Alignment STRAIGHT	Roadway Grade LEVEL
Trafficway Description TWO-WAY NOT DIVIDED		Traffic Control Device Type NO CONTROLS		Working Properly		
Roadway Description for Vehicle Travel SR61 BOOGER BRANCH RD SOUTH (N OF LI		Vehicle Maneuver Action (by this vehicle) OVERTAKING/PASSING		Hit & Run (by this vehicle) NO DID NOT LEAVE SCENE		Damage Extent (for this vehicle) FUNCTIONAL DAMAGE
1st Sequence of Events Type (this vehicle) COLLISION NON-FIXED OBJECT		1st Sequence of Events Detail (this vehicle) MOTOR VEHICLE IN TRANSPORT				
2nd Sequence of Events Type (this vehicle) UNKNOWN		2nd Sequence of Events Detail (this vehicle)				
3rd Sequence of Events Type (this vehicle) UNKNOWN		3rd Sequence of Events Detail (this vehicle)				
4th Sequence of Events Type (this vehicle) UNKNOWN		4th Sequence of Events Detail (this vehicle)				
Most Harmful Event Type (this vehicle) COLLISION NON-FIXED OBJECT		Most Harmful Event Detail (this vehicle) MOTOR VEHICLE IN TRANSPORT				
Contributing Circumstances 1 (this vehicle) NONE		Contributing Circumstances 2 (this vehicle) NONE				
Area of Initial Impact <input type="checkbox"/> Non Collision <input type="checkbox"/> Top <input type="checkbox"/> Undercarriage <input type="checkbox"/> Unknown				Most Damaged Area <input type="checkbox"/> Non Collision <input type="checkbox"/> Top <input type="checkbox"/> Undercarriage <input type="checkbox"/> Unknown		
Occupant Type DRIVER	Person Name (First Middle Last Suffix) PATRICIA LUCILLE BROWN		Injury Status NO INJURY(O)			

VEHICLE V02

V02	Motor Vehicle Type MOTOR VEHICLE IN TRANSPORT	State GA	License Number PC15429	Registration Expires 09/07/2014	<input type="checkbox"/> Permanent Registration	VIN CCE613V123629
Year 1973	Make CHEVROLET	Model DUMP	Style TK	Color RED	Body Type Category OTHER LIGHT TRUCKS (10000 LBS (4536 KG) OR LESS)	
Special Function of Motor Vehicle in Transport NO SPECIAL FUNCTION		Emergency Motor Vehicle Use NO		Type of Bus Use NOT A BUS		

Crash Number C00000663-01	Reporting Agency GEORGIA DEPARTMENT OF PUBLIC SAFETY	Reporting Agency Case Number	Reporting Agency CAD Number GSPA13CAD070692
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Owner First Name JOHN	Owner Middle Name	Owner Last Name STAFFORD	Owner Suffix	Owner Business (if not Person)
Address 350 DOUTHIT CIR		Address Other		City CRANDALL
State GA	Zip Code 30711-6208			
Owner Phone Number	Owner Phone Number (other)	Insurance Company STATE FARM	Insurance Policy Number 341 9319-C26-11B	

Vehicle Removal DRIVEN - NOT DISABLED	Vehicle Towed By	Wrecker Selection Method
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Trailer One	State GA	License Number 6554VT	Registration Expires 03/19/2004	<input type="checkbox"/> Permanent Registration	VIN 4MNDP242411000435	Year 2001	Make BETTERBUILT	Model	Color YEL	Length 18	Axles 2
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Direction of Travel Before Crash SOUTHBOUND	Speed: Estimated 55	Posted	Roadway Type UNDIVIDED HIGHWAY	Total Lanes 2	Roadway Horizontal Alignment STRAIGHT	Roadway Grade LEVEL
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Trafficway Description TWO-WAY NOT DIVIDED	Traffic Control Device Type NO CONTROLS	Working Properly
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Roadway Description for Vehicle Travel SR61 BOOGER BRANCH RD SOUTH (N OF LI

Vehicle Maneuver Action (by this vehicle) SLOWING	Hit & Run (by this vehicle) NO DID NOT LEAVE SCENE	Damage Extent (for this vehicle) FUNCTIONAL DAMAGE
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1st Sequence of Events Type (this vehicle) COLLISION NON-FIXED OBJECT	1st Sequence of Events Detail (this vehicle) MOTOR VEHICLE IN TRANSPORT
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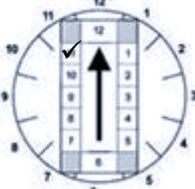
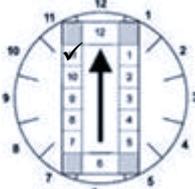
2nd Sequence of Events Type (this vehicle) UNKNOWN	2nd Sequence of Events Detail (this vehicle)
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3rd Sequence of Events Type (this vehicle) UNKNOWN	3rd Sequence of Events Detail (this vehicle)
--	--

4th Sequence of Events Type (this vehicle) UNKNOWN	4th Sequence of Events Detail (this vehicle)
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Most Harmful Event Type (this vehicle) COLLISION NON-FIXED OBJECT	Most Harmful Event Detail (this vehicle) MOTOR VEHICLE IN TRANSPORT
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Contributing Circumstances 1 (this vehicle) NONE	Contributing Circumstances 2 (this vehicle) NONE
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<p>Area of Initial Impact</p> <p><input type="checkbox"/> Non Collision</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Undercarriage</p> <p><input type="checkbox"/> Unknown</p> 	<p>Most Damaged Area</p> <p><input type="checkbox"/> Non Collision</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Undercarriage</p> <p><input type="checkbox"/> Unknown</p> 
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Occupant Type DRIVER	Person Name (First Middle Last Suffix) JEREMY THOMAS COLLINS	Injury Status NO INJURY(O)
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DRIVER V01

Person Type DRIVER	NM#	Vehicle# V01	Person Type Detail
First Name PATRICIA	Middle Name LUCILLE	Last Name BROWN	Suffix
Date of Birth 12/01/1942	Age 70	Sex F	

Address 530 TAYLOR ST	Address Other	City ATHENS	State TN	Zip Code 37303
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Phone Number 423-744-3902	Phone Number (other)	Condition at Time of Crash APPARENTLY NORMAL
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Driver License Number 025745523	Class D	Expires 12/01/2017	State TN	Jurisdiction 02	Type NON-CDL DRIVER'S LICENSE	Status VALID LICENSE
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Drivers License Restrictions 1 NONE	Drivers License Restrictions 2 NONE	Drivers License Restrictions 3 NONE
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Driver Distracted By NOT DISTRACTED	Driver Vision Obstructions VISION NOT OBSCURED
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Driver Actions at Time of Crash 1 (based on judgement of investigation officer) IMPROPER PASSING	Driver Actions at Time of Crash 2 (based on judgement of investigation officer) NO CONTRIBUTING ACTION
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Driver Actions at Time of Crash 3 (based on judgement of investigation officer) NO CONTRIBUTING ACTION	Driver Actions at Time of Crash 4 (based on judgement of investigation officer) NO CONTRIBUTING ACTION
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Motor Vehicle Seating Position: Row FRONT	Motor Vehicle Seating Position: Seat LEFT	Motor Vehicle Seating Position: Other NOT APPLICABLE	<input type="checkbox"/> Seating Position Unknown
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Restraint Systems SHOULDER AND LAP BELT USED	Helmet Use
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Air Bag Deployed NOT DEPLOYED	Ejection NOT EJECTED
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Trapped Extrication NOT TRAPPED

Injury Severity Level Type NO INJURY(O)	Injury Severity Level Detail	Primary or Most Obvious of Body Area Injured During Crash
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Law Enforcement Suspected Alcohol Use NO	Alcohol Test Type	Alcohol Tested TEST NOT GIVEN	Alcohol Test Result	BAC
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Law Enforcement Suspected Drug Use NO	Drug Test Type	Drug Tested TEST NOT GIVEN	Drug Test Result
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Violation Type Issued TRAFFIC WARNING / FAULTY EQUIP	Number W15E14456	Violation Description (WARNINGIMPROPERPASSING)
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DRIVER V02

Person Type DRIVER	NM#	Vehicle# V02	Person Type Detail
First Name JEREMY	Middle Name THOMAS	Last Name COLLINS	Suffix
Date of Birth 12/29/1980	Age 32	Sex M	

Address 132 MARKINGHAM WAY	Address Other	City DALTON	State GA	Zip Code 30721
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Phone Number	Phone Number (other)	Condition at Time of Crash APPARENTLY NORMAL
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Driver License Number 054181435	Class C	Expires 12/29/2016	State GA	Jurisdiction 02	Type NON-CDL DRIVER'S LICENSE	Status VALID LICENSE
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Drivers License Restrictions 1 CORRECTIVE LENSES	Drivers License Restrictions 2 NONE	Drivers License Restrictions 3 NONE
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Driver Distracted By NOT DISTRACTED	Driver Vision Obstructions VISION NOT OBSCURED
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Driver Actions at Time of Crash 1 (based on judgement of investigation officer) NO CONTRIBUTING ACTION	Driver Actions at Time of Crash 2 (based on judgement of investigation officer) NO CONTRIBUTING ACTION
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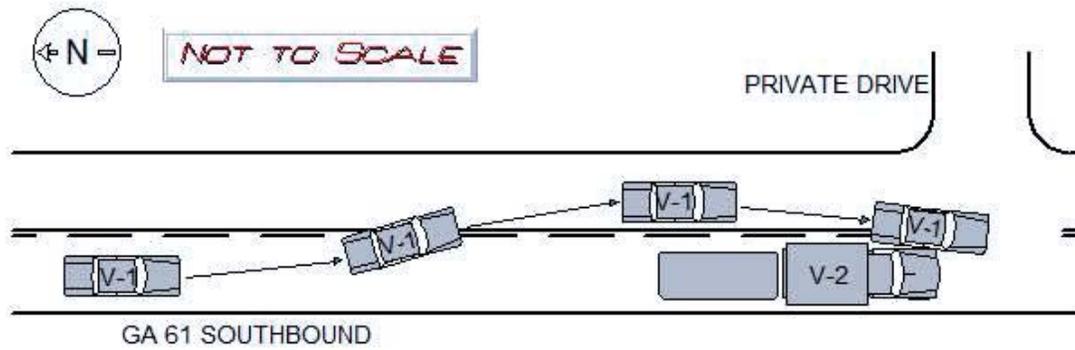
Crash Number C00000663-01		Reporting Agency GEORGIA DEPARTMENT OF PUBLIC SAFETY		Reporting Agency Case Number		Reporting Agency CAD Number GSPA13CAD070692	
Driver Actions at Time of Crash 3 (based on judgement of investigation officer) NO CONTRIBUTING ACTION				Driver Actions at Time of Crash 4 (based on judgement of investigation officer) NO CONTRIBUTING ACTION			
Motor Vehicle Seating Position: Row FRONT		Motor Vehicle Seating Position: Seat LEFT		Motor Vehicle Seating Position: Other NOT APPLICABLE		<input type="checkbox"/> Seating Position Unknown	
Restraint Systems LAP BELT ONLY USED				Helmet Use			
Air Bag Deployed NOT APPLICABLE				Ejection NOT EJECTED			
Trapped Extrication NOT TRAPPED							
Injury Severity Level Type NO INJURY(O)			Injury Severity Level Detail			Primary or Most Obvious of Body Area Injured During Crash	
Law Enforcement Suspected Alcohol Use NO		Alcohol Test Type		Alcohol Tested TEST NOT GIVEN		Alcohol Test Result	BAC
Law Enforcement Suspected Drug Use NO		Drug Test Type		Drug Tested TEST NOT GIVEN		Drug Test Result	
Violation Type Issued TRAFFIC WARNING / FAULTY EQUIP		Number W15E14457		Violation Description (WARNINGIMPROPERTAGDISPLAY)			

NARRATIVE: C00000663

Vehicle #1 and #2 were traveling south on GA 61. Vehicle #2 was slowing in order to make a left turn into a private drive. Vehicle #1 attempted to overtake vehicle #2. Vehicle #1 struck vehicle #2 in the left front with Vehicle #1 right side. Video/audio recorded DVD #397-002-2013

REPORTING OFFICER		APPROVING OFFICER (SUPERVISOR)	
Reporting Officer Name RICKETT, J.W.	Signature 	Approving Officer Name LAWRENCE, JACK	Signature 
ID Number 0397	Rank TFC2	ID Number 0201	Rank CORPORAL
Org / Unit A-43		Org / Unit A-43	

DIAGRAM OF ACCIDENT



NO BUILD = BUILD
Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Murray County **OFFICE** Planning
P.I. # 0011686 **DATE** January 17, 2013

FROM Cynthia L. VanDyke, State Transportation Planning Administrator

TO Genetha Rice-Singleton, State Program Delivery Engineer
Attention: Karyn Matthews, P.E.

SUBJECT Traffic Assignments for SR 61 @ CSX #340636X 7.9MI N OF CRANDALL.

We are furnishing estimated Traffic Assignments for the above project as follows:

	TC# 0215
2011 AADT	2600
2018 AADT	3000
2038 AADT	4450
2011 DHV	235
2018 DHV	270
2038 DHV	400
D	65%
K	9%
T	20%
S.U.	11.5%
COMB.	8.5%
24 HR. T.	22%
S.U.	11.5%
COMB.	10.5%

If you have any questions concerning this information please contact Rhonda Niles at (404) 631-1924.



Bridge Inventory Data Listing

Parameters: Bridge Serial Num

Structure ID: 213-0021-0

Murray

SUFF. RATING: 40.36

Location & Geography

Structure ID:	213-0021-0	*104 Highway System:	0
200 Bridge Information:	06	*26 Functional Classification:	06
*6A Feature Int:	CR 182- CSX RR (340636X)	*204 Federal Route Type:	F No: 00181
*6B Critical Bridge:	0	105 Federal Lands Highway:	0
*7A Route No Carried:	SR000061	*110 Truck Route:	0
*7B Facility Carried:	US 411/SR 61	206 School Bus Route:	1
9 Location:	7.9 MI N OF CRANDALL	217 Benchmark Elevation:	0000.00
2 Dot District:	6	218 Datum:	0
207 Year Photo:	2014	*19 Bypass Length:	00
*91 Inspection Frequency:	24 Date: 02/10/2014	*20 Toll:	3
92A Fract Crit Insp Freq:	0 Date: 02/01/1901	*21 Maintenance:	01
92B Underwater Insp Freq:	0 Date: 02/01/1901	*22 Owner:	01
92C Other Spc. Insp Freq:	0 Date: 02/01/1901	*31 Design Load:	6
*4 Place Code:	00000	37 Historical Significance:	5
*5 Inventory Route(O/U):	1	205 Congressional District:	09
Type:	2	27 Year Constructed:	1962
Designation:	1	106 Year Reconstructed:	0000
Number:	00411	33 Bridge Median	0
Direction:	0	34 Skew:	43
*16 Latitude:	34 - 59.0625 HMMS Prefix:SR	35 Structure Flared:	0
*17 Longitude:	84 - 44.2650 HMMS Suffix:00	38 Navigation Control:	N
	MP: 28.20	213 Special Steel Design:	0
98 Border Bridge:	000 % Shared:00	267 Type of Paint:	5
99 ID Number:	0000000000000000	*42 Type of Service On:	1
*100 STRAHNET:	0	Type of Service Under:	4
12 Base Highway Network:	1	214 Movable Bridge:	0
13A LRS Inventory Route:	2131006100	203 Type Bridge:	A - O - M - O
13B Sub Inventory Route:	0	259 Pile Encasement	3
*101 Parallel Structure:	N	*43 Structure Type Main:	3 02
*102 Direction of Traffic:	2	45 No.Spans Main:	005
*264 Road Inventory Mile Post:	028.20	44 Structure Type Appr:	0 00
*208 Inspection Area:	06 Initials: AWA	46 No Spans Appr:	0000
Engineer's Initials:	rbd	226 Bridge Curve Horz	1 Vert: 1.00
* Location ID No:	213-00061D-028.20N	111 Pier Protection	0
		107 Deck Structure Type:	1
		108 Wearing Structure Type:	1
		Membrane Type:	0
		Deck Protection:	8

Signs & Attachments

225 Expansion Joint Type:	02
242 Deck Drains:	0
243 Parapet Location:	0
Height:	0.00
Width:	0.00
238 Curb Height:	1
Curb Material:	1
239 Handrail	1 1
*240 Median Barrier Rail:	0
241 Bridge Median Height:	0
* Bridge Median Width:	0
230 Guardrail Loc. Dir. Rear:	3
Fwd:	3
Oppo. Dir. Rear:	0
Oppo. Fwd:	0
244 Approach Slab	3
224 Retaining Wall:	0
233 Posted Speed Limit:	40
236 Warning Sign:	0.00
234 Delineator:	1.00
235 Hazard Boards:	1
237 Utilities Gas:	00
Water:	00
Electric:	00
Telephone:	00
Sewer:	00
247 Lighting Street:	0
Navigation:	0
Aerial:	0
*248 County Continuity No.:	00



Bridge Inventory Data Listing

Processed Date: 6/17/2014

Parameters: Bridge Serial Num

Structure ID: 213-0021-0

Programming Data

201 Project No: BA (3) 993 (7)
 202 Plans Available: 4
 249 Prop Proj No: 0011686
 250 Approval Status: 0000
 251 PI Number: 0011686
 252 Contract Date: 02/01/1901
 260 Seismic No: 00011
 75 Type Work: 00 0
 94 Bridge Imp. Cost: \$957
 95 Roadway Imp. Cost: \$96
 96 Total Imp Cost: \$1436
 76 Imp Length: 000000
 97 Imp Year: 2013
 114 Future ADT: 003870 Year: 2032

Hydraulic Data

215 Waterway 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
 216 Water Depth: 00.0 Br. Height: 00.0
 222 Slope Protection: 0
 221 Spur Dikes Rear 0 Fwd: 0
 219 Fender System 0
 220 Dolphin: 0
 223 Culvert Cover: 000

Measurements:

*29 ADT 002580 Year: 2012
 109 % Trucks: 1
 * 28 Lanes On: 02 Under: 02
 210 No. Tracks On: 00 Under: 01
 * 48 Max. Span Length 0055
 * 49 Structure Length: 245
 51 Br. Rwdy. Width 28.00
 52 Deck Width: 34.30
 * 47 Tot. Horiz. Cl: 28
 50 Curb / Sidewalk Width 2.10 / 2.10
 32 Approach Rdwy. Width 028
 *229 Shoulder Width:
 Rear Lt: 2.00 Type: 2 Rt: 2.00
 Fwd. Lt: 2.00 Type: 2 Rt: 2.00

Pavement Width:

Rear: 24.00 Type: 2
 24.00 Type: 2

Intersection Rear:

1 Fwd: 1

Safety Features Br. Rail:

2

Transition:

2

App. G. Rail:

1

App. Rail End:

1

Minimum Cl. Over:

99' 99" "

Under: H

13' 01"

***228 Minimum Vertical Cl**

99' 99"

Act. Odm Dir::

99' 99"

Oppo. Dir:

00' 00"

Posted Odm. Dir:

00' 00"

Oppo. Dir:

00' 00"

55 Lateral Undercl. Rt:

H 5.40

56 Lateral Undercl. Lt:

0.00

***10 Max Min Vert Cl:**

99' 99" Dir: 0

39 Nav Vert Cl:

000 Horiz: 0000

116 Nav Vert Cl Closed:

000

245 Deck Thickness Main Deck Thick Approach:

7.50
0.00

246 Overlay Thickness:

0.00

212 Year Last Painted:

Sup: 2003 Sub: 0000

65 Inventory Rating Method: 1
 63 Operating Rating Method: 1
 66 Inventory Type: 2 Rating: 21
 64 Operating Type: 2 Rating: 35
 231 Calculated Loads:
 H-Modified: 21 0
 HS-Modified: 30 0
 Type 3: 33 0
 Type 3s2: 40 0
 Timber: 37 0
 Piggyback: 40 0
 261 H Inventory Rating: 19
 262 H Operating Rating: 31
 67 Structural Evaluation: 4
 58 Deck Condition: 4
 59 Superstructure Condition: 7
 * 227 Collision Damage: 1
 60A Substructure Condition: 4
 60B Scour Condition: N
 60C Underwater Condition: N
 71 Waterway Adequacy: N
 61 Channel Protection Cond.: N
 68 Deck Geometry: 4
 69 UnderClr. Horz/Vert: 2
 72 Appr. Alignment: 8
 62 Culvert: N
Posting Data
 70 Bridge Posting Required: 5
 41 Struct Open, Posted, CL: A
 * 103 Temporary Structure: 0
 232 Posted Loads
 H-Modified: 00
 HS-Modified: 00
 Type 3: 00
 Type 3s2: 00
 Timber: 00
 Piggyback: 00
 253 Notification Date: 02/01/1901
 258 Fed Notify Date: 02/01/1901