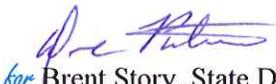


**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 0007163 **OFFICE** Design Policy & Support
CSBRG-0007-00(163)
Charlton County
GDOT District 5 - Jesup **DATE** September 13, 2012
SR 252 @ Satilla River Overflows 10 miles North
of Folkston

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:

Bobby Hilliard, Program Control Administrator
Genetha Rice-Singleton, State Program Delivery Engineer
Glenn Bowman, State Environmental Administrator
Cindy VanDyke, State Transportation Planning Administrator
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Charles "Chuck" Hasty, State Materials Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Karon Ivery, District Engineer
Brad Saxon, District Preconstruction Engineer
Dennis Odom, District Design Engineer
Stephen Thomas, District Utilities Engineer
Steve Price, District Environmentalist
Brent Moseley, Project Manager
BOARD MEMBER - 1st Cong. District

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

Project Type:	<u>Bridge Replacement</u>	P.I. Number:	<u>0007163</u>
GDOT District:	<u>5 - Jesup</u>	County:	<u>Charlton</u>
Federal Route Number:	<u>N/A</u>	State Route Number:	<u>252</u>

Bridges over the Satilla River Overflow, 10 miles northeast of Folkston, Georgia on SR 252 in Charlton County.

Submitted for approval:

<u><i>Karen L. Terry</i></u> District Engineer	<u>7/10/12</u> DATE
<u><i>Renee Rice-Hite</i></u> State Program Delivery Engineer	<u>7/12/2012</u> DATE
<u><i>Brent Marley</i></u> GDOT Project Manager	<u>7/10/12</u> DATE

Recommendation for approval:

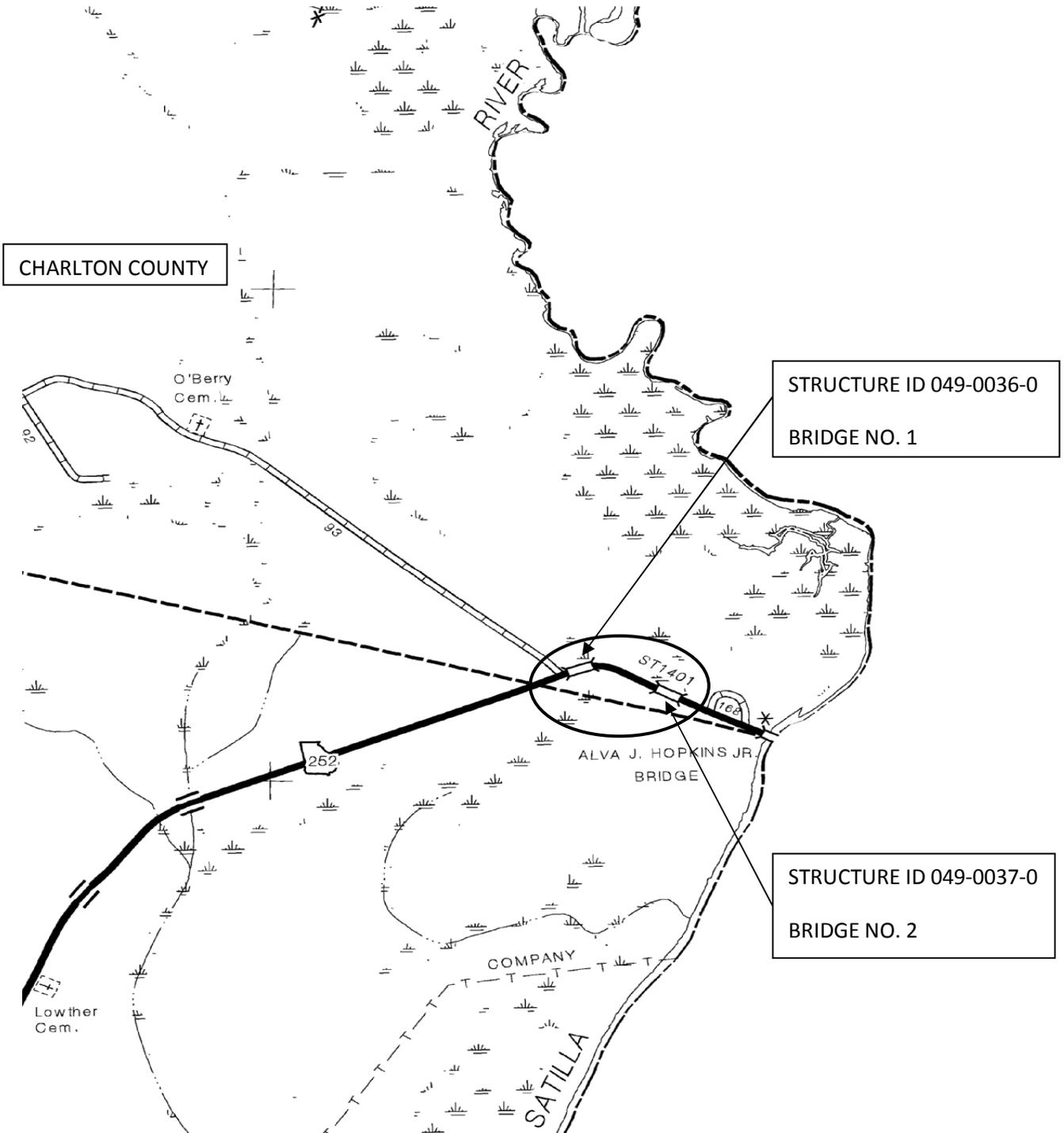
<u>Program Control Administrator</u>	<u>DATE</u>
* <u><i>Glenn Bowman</i></u>	<u>8/12/12</u>
<u>State Environmental Administrator</u>	<u>DATE</u>
* <u><i>Lisa Myers</i></u>	<u>8/1/12</u>
<u>Project Review Engineer</u>	<u>DATE</u>
* <u><i>Patrick Allen</i></u>	<u>8/14/12</u>
<u>State Utilities Engineer</u>	<u>DATE</u>
for <u><i>Ben Rabun</i></u>	<u>8/7/12</u>
<u>State Bridge Design Engineer</u>	<u>DATE</u>
<u>State Transportation Financial Management Administrator</u>	<u>DATE</u>
* <u><i>Kathy Zahul</i></u>	<u>8/16/12</u>
<u>State Traffic Engineer</u>	<u>DATE</u>

* *Recommendations on file.*

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><i>Cynthia S. Napp</i></u>	<u>8-2-12</u>
State Transportation Planning Administrator	DATE

PROJECT LOCATION



PLANNING & BACKGROUND DATA

Project Justification Statement: These bridges (Structure ID 049-0036-0 and 049-0037-0; SR 252 over Satilla River Overflow) were built in 1956. These bridges consist of twelve spans of cast in place concrete slabs on concrete caps and driven concrete piles. These bridges are currently posted. The overall condition of these bridges would be classified as good to satisfactory. The deck and superstructure members are in good condition with some minor problems. The substructure is in satisfactory condition with some minor deterioration. No rehabilitation work performed on the superstructure components would improve these bridges in so far as the posting of the structure is concerned. Due to these structures being posted replacement of this bridge is recommended.

Description of the proposed project: This project is approximately 0.85 miles in length and is located on S.R. 252 in Charlton County, 10 miles northeast of Folkston, Georgia. This section of S.R. 252 is functionally classified as a rural minor arterial. The 2009 average Daily Traffic (ADT) is 450 vehicles per day. The projected 2018 ADT is 650 vehicles per day and 1000 vehicles per day in the design year 2038. Truck traffic is 17 percent of the traffic volume. No accidents between 1/1/2009 and 12/31/2011. The proposed roadway and bridge improvements will provide for an acceptable Level of Service B in 2038 design year.

The first overflow bridge (Structure ID 049-0036-0) has a sufficiency rating of 65.59. The structure is located at road inventory milepost 10.58. The bridge deck is 28 feet wide and 180 feet in length. The second overflow bridge (Structure ID 049-0037-0) has a sufficiency rating of 74.14. The structure is located at road inventory milepost 11.09. The bridge deck is 28 feet wide and 180 feet in length.

The logic for establishing the termini, is due to replacing the bridges; reworking the shoulders and slopes to accommodate guardrail. Both structures have substandard load capacity and deck geometry and are approximately 2693 feet apart. The new bridges will be constructed on the same alignment as the existing bridges. Traffic will be maintained by using an off-site 24.76 miles detour on State roads. The concept proposes to satisfy the Project Justification Statement by replacing substandard load capacity and deck geometry bridges with upgraded shoulders and guardrail.

Federal Oversight: Full Oversight Exempt State Funded Other

MPO: N/A MPO
MPO Project TIP #

Regional Commission: N/A RC – Southern Georgia RC
RC Project ID #

Congressional District(s): 1

Projected Traffic:

Current Year (2009): 450 Open Year (2018): 650 Design Year (2038): 1000

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 are no potential project impacts that have been identified that would require Context Sensitive Solutions.

Context Sensitive Solutions: N/A

DESIGN AND STRUCTURAL DATA

Mainline Design Features: State Road 252

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2	2	2
- Lane Width(s)	11 ft.	12 ft.	11 ft.
- Median Width & Type	N/A	N/A	N/A
- Outside Shoulder Width & Type	6' grass	10' (2'paved)	8' (2'paved)
- Outside Shoulder Slope	¾" per ft	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	55 mph	55 mph
Design Speed	55 mph	55 mph	55 mph
Min Horizontal Curve Radius	1432.39'/5729.58'	1432.39'/5729.58'	1432.39'/5729.58'
Superelevation Rate	0.08/0.02	0.0565/0.0233	0.08/0.0233
Grade	0	0	0
Access Control	none	none	none
Right-of-Way Width	200 ft.	100 ft.	200 ft.
Maximum Grade – Crossroad	N/A	N/A	N/A
Design Vehicle	Truck	WB-67	WB-67

*According to current GDOT design policy if applicable

Major Structures: Both Bridges

Structure	Existing	Proposed
1. Structure ID 049-0036-0 Milepost 10.58	1. Two 11 ft. lanes with 3 ft. shoulders. The bridge deck is 28 feet wide and 180 feet in length. Sufficiency rating is 65.59.	1. Two 11 ft. lanes with 6 ft. shoulders The bridge deck is 34 feet wide and 180 feet in length.
2. Structure ID 049-	2. Two 11 ft. lanes with 3 ft.	2. Two 11 ft. lanes with 6 ft. shoulders.

0037-0 Milepost 11.09	shoulders. The bridge deck is 28 feet wide and 180 feet in length. Sufficiency rating is 74.14.	The bridge deck is 34 feet wide and 180 feet in length.
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Major Interchanges/Intersections: N/A

Utility Involvements: N/A

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

SUE Required: Yes No

Railroad Involvement: N/A

Right-of-Way:

Required Right-of-Way anticipated: YES NO Undetermined

Location and Design approval: Not Required Required

Off-site Detours Anticipated: No Yes Undetermined

The detour route was selected as shortest available through Charlton and Camden counties that met state route standards. Detour meeting was held May 26,2012, with only a positive comment about the route being closed in attempts to save tax dollars.

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"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Lane Width	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Shoulder Width	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Bridge Width	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Horizontal Alignment	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Superelevation	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Vertical Alignment	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Grade	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Stopping Sight Distance	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Cross Slope	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Vertical Clearance	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Lateral Offset to Obstruction	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Bridge Structural Capacity	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Design Variances to GDOT standard criteria anticipated:

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

VE Study anticipated: No Yes Completed

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/Variances/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 checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Tennessee Valley Authority Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Buffer Variance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Coastal Zone Management Coordination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. NPDES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. FEMA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Cemetery Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Other Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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

NEPA/GEPA: Categorical Exclusion

Ecology Ecology survey and report will determine if any protected species or property will be encountered.

History: History survey and report will determine if there are any effects to potential historical artifacts.

Archeology: Archeology survey and report will determine if there are any cemeteries.

Air & Noise: Air and noise assessment and reports will determine if mitigation measures are needed.

Public Involvement: There was a Public Information Open House/Detour Meeting held June 26, 2012, only nine people attended and there was only one comment.

Major stakeholders: Traveling public.

CONSTRUCTION

Issues potentially affecting constructability/construction schedule: None.

Early Completion Incentives recommended for consideration: No Yes

PROJECT RESPONSIBILITIES

Project Activities:

Project Activity	Party Responsible for Performing Task(s)
Concept Development	GDOT/D5
Design	GDOT
Right-of-Way Acquisition	GDOT
Utility Relocation	N/A
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	CONTRACTOR
Providing Detours	GDOT
Environmental Studies, Documents, and Permits	GDOT
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Lighting required: No Yes

Initial Concept Meeting: N/A

Concept Meeting: After the Concept Report was reviewed and all comments were made, it was asked if anyone was opposed to calling this the Official Concept Team Meeting. No one was opposed. Therefore, this meeting is the Final Concept Team Meeting. See attachments.

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	D5RD	GDOT	
\$ Amount	\$150,000	\$156,000	0	\$3,437,135	\$153,600	\$3,896,735
Date of Estimate	8/2/2007	8/27/2012	2/6/12	8/17/2012	2/8/12	

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

ALTERNATIVES DISCUSSION

Alternative selection:

Preferred Alternative: Replace bridges in place with off-site detour to maintain traffic during construction.			
Estimated Property Impacts:	None.	Estimated Total Cost:	\$3,896,735
Estimated ROW Cost:	0	Estimated CST Time:	12 months
Rationale: This appears to be the most logical alternative from expense and time constraints.			

No-Build Alternative: Continue to maintain and repair bridge as needed.			
Estimated Property Impacts:	None.	Estimated Total Cost:	0
Estimated ROW Cost:	0	Estimated CST Time:	0
Rationale: Not replacing the bridge would create maintenance and operational cost concerns.			

Alternative 1: Build bridge on the same alignment with a temporary on-site detour bridge to maintain traffic during construction.			
Estimated Property Impacts:	None.	Estimated Total Cost:	\$4,404,104
Estimated ROW Cost:	0	Estimated CST Time:	22
Rationale: Environmental impacts due to land disturbance, ecology impacts, and too costly.			

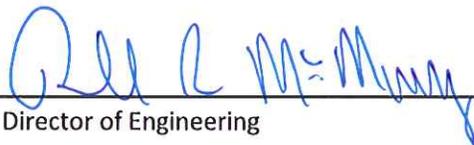
Alternative 2: Build bridge on new alignment south of existing bridge with traffic maintained on existing bridge during construction.			
Estimated Property Impacts:	None.	Estimated Total Cost:	\$5,568,046
Estimated ROW Cost:	0	Estimated CST Time:	36
Rationale: Environmental impacts due to land disturbance, ecology impacts, and too costly.			

Comments: None.

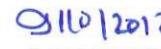
Attachments:

1. Typical sections
2. Plan Map
3. Detailed Cost Estimates:
 - a. Construction Estimate Including Engineering and Inspection
 - b. Completed Fuel & Asphalt Price Adjustment forms
 - c. Right of Way
 - d. Utilities
 - e. Environmental Mitigation
4. Bridge inventory
5. Detour Map
6. PIOH Synopsis
7. Minutes of Concept meetings

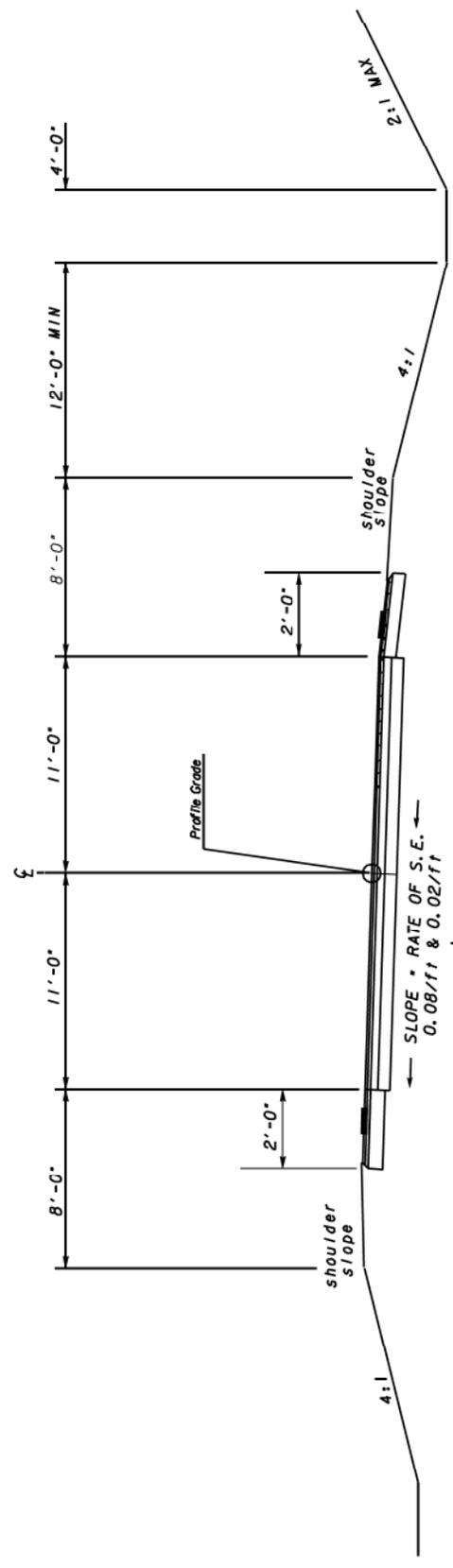
APPROVALS

Concur: 
Director of Engineering

Approve: 
Chief Engineer


Date

PROPOSED ROADWAY TYPICAL SECTION



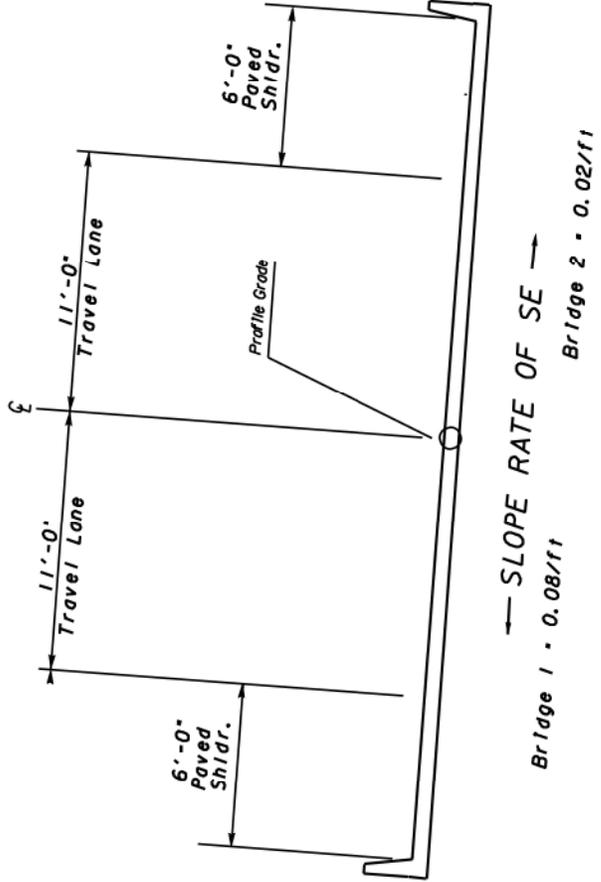
SUPER ELEVATED SECTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF ROADWAY DESIGN

TYPICAL SECTIONS

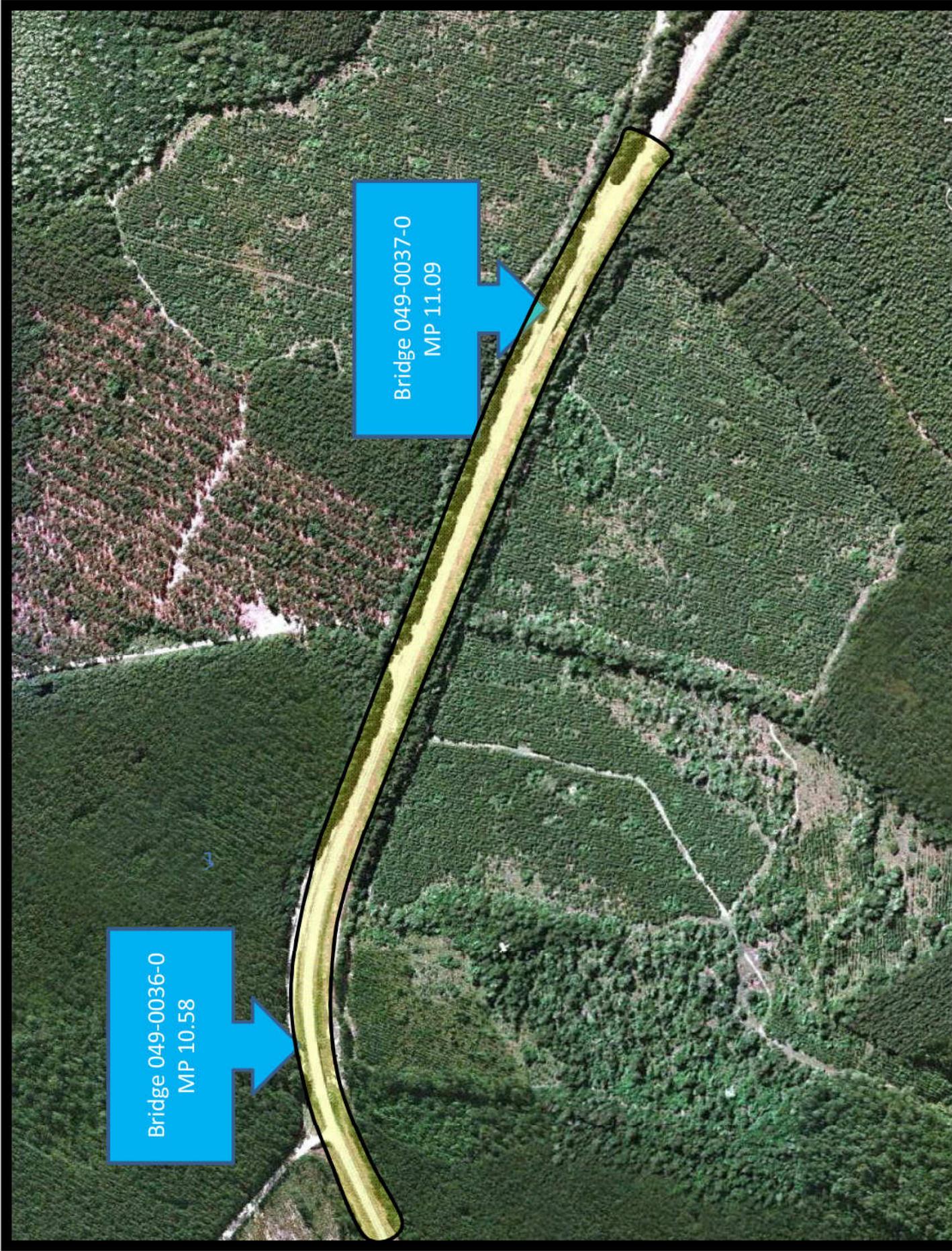
PROPOSED BRIDGE TYPICAL SECTION



REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROADWAY DESIGN

TYPICAL SECTIONS



Bridge 049-0036-0
MP 10.58

Bridge 049-0037-0
MP 11.09

DETAILED COST ESTIMATE



Job: 0007163

JOB NUMBER: 0007163

FED/STATE PROJECT NUMBER CSBRG-0007-00(163)

SPEC YEAR: 01

DESCRIPTION: SR 252 @ SATILLA RIVER OVERFLOWS 10 MI NE OF FOLKSTON
PARAMETRIC EST OF BRIDGE REPLACEMENT

ITEMS FOR JOB 0007163

Ine Numbe	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0060	310-5100	1156.000	SY	\$15.22701	GR AGGR BS CRS 10IN INCL MATL	\$17,602.42
0040	402-1812	150.000	TN	\$75.94125	RECYL AC LEVELING,INC BM&HL	\$11,391.19
0045	402-3121	2860.000	TN	\$82.88185	RECYL AC 25MM SP,GP1/2,BM&HL	\$237,042.09
0050	402-3130	858.000	TN	\$106.07252	RECYL AC 12.5MM SP,GP2,BM&HL	\$91,010.22
0055	402-3190	1144.000	TN	\$94.86688	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$108,527.71
0035	413-1000	600.000	GL	\$3.64908	BITUM TACK COAT	\$2,189.45
SUBTOTAL FOR :						\$467,763.08

COST GROUP FOR JOB 0007163

LINE NUMBER	UNIT	CALCULATION RULE	QUANTITY	PRICE	COST GROUP ID	DESCRIPTION	AMOUNT
00000001	SF	NORM	12240.000	\$103.72	STRO	STRUCTURES, OTHER (LS)	\$1,269,480.41
00000002	LF	PCTO	27194.738	\$1.76	DRNGPCTO	DRAINAGE (PERCENT OF JOB)	\$47,862.74
00000003	SY	PCTO	27194.738	\$6.73	EROCPCO	EROSION CONTROL (PERCENT OF JOB)	\$183,020.59
00000008	LS	PCTO	27194.738	\$24.12	ERTHPCTO	EARTHWORK (PERCENT OF JOB)	\$655,937.09
00000012	LS	PCTO	27194.738	\$0.17	MISCPCTO	MISCELLANEOUS (PERCENT OF JOB)	\$4,623.11
00000014	LS	NORM	2.000	\$90,000.00	RMVL	REMOVALS (LS)	\$180,000.00
00000015	LS	NORM	1.000	\$285,000.00	TRFT	TRAFFIC CONTROL-TEMPORARY (LS)	\$285,000.00
00000016	LF	PCTO	27194.738	\$3.10	GDRLPCTO	GUARDRAIL/BARRIER (PERCENT OF JOB)	\$84,303.69
00000017	SY	PCTO	27194.738	\$0.34	MILLPCTO	MILLING (PERCENT OF JOB)	\$9,246.21
SUBTOTAL:							\$2,719,473.84

TOTALS FOR JOB 0007163

ITEMS COST:	\$467,763.08
COST GROUP COST:	\$2,719,473.84
ESTIMATED COST:	\$3,187,236.91
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$3,346,598.76

PROJ. NO.	CSBRG-0007-00(163)
P.I. NO.	0007163
DATE	8/17/2012

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Aug-12	\$ 3.431
DIESEL		\$ 3.786
LIQUID AC		\$ 596.00

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

LIQUID AC ADJUSTMENTS

$PA = \left(\frac{APM - APL}{APL} \right) \times TMT \times APL$

Asphalt

Price Adjustment (PA)				89614.56	\$	89,614.56
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	953.60		
Monthly Asphalt Cement Price month project let (APL)			\$	596.00		
Total Monthly Tonnage of asphalt cement (TMT)				250.6		

ASPHALT	Tons	%AC	AC ton
Leveling	150	5.0%	7.5
12.5 OGFC		5.0%	0
12.5 mm	858	5.0%	42.9
9.5 mm SP		5.0%	0
25 mm SP	2860	5.0%	143
19 mm SP	1144	5.0%	57.2
	5012		250.6

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$	921.56	\$	921.56
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	953.60			
Monthly Asphalt Cement Price month project let (APL)			\$	596.00			
Total Monthly Tonnage of asphalt cement (TMT)						2.577060553	

Bitum Tack		
Gals	gals/ton	tons
600	232.8234	2.57706055

PROJ. NO.

CSBRG-0007-00(163)

CALL NO.

P.I. NO.

0007163

DATE

8/17/2012

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)						0	\$	-
Monthly Asphalt Cement Price month placed (APM)		Max. Cap	60%	\$	953.60			
Monthly Asphalt Cement Price month project let (APL)				\$	596.00			
Total Monthly Tonnage of asphalt cement (TMT)					0			

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

TOTAL LIQUID AC ADJUSTMENT							\$	90,536.12
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PROJ. NO.: CSBRG-0007-00(163)

P.I. NO. 0007163

DATE: 8/17/2012

Base Construction Cost		\$	3,187,236.91
E & I	5%	\$	159,361.85
Construction Contingency	0	\$	-
Subtotal Construction Cost		\$	3,346,598.76
Liquid AC Adjustment (50 % cap)		\$	90,536.12
Total Construction Cost		\$	3,437,134.87

**GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY**

Date: 8/27/2012 Project: CSBRG-0007-(163)
 Revised: County: Charlton
 PI: 0007163

Description: Bridges over the Satilla River Overflow, on SR 252
 Project Termini: Bridges over the Satilla River Overflow, on SR 252

Existing ROW: Varies
 Required ROW: Varies
 Parcels: 4

Land and Improvements \$67,500.00

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$25,000.00

Valuation Services \$4,000.00

Legal Services \$40,200.00

Relocation \$8,000.00

Demolition \$0.00

Administrative \$35,500.00

TOTAL ESTIMATED COSTS \$155,200.00

TOTAL ESTIMATED COSTS (ROUNDED) \$156,000.00

Preparation Credits	Hours	Signature

Prepared By: Lashone Alexander CG#: 286999 8/27/2012
 Approved By: Lashone Alexander CG#: 286999 8/27/2012

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(163)
P.I. # 0007163

OFFICE Jesup
DATE February 6, 2012

FROM John Royal D5 Utility Office

TO James Sapp, D5 Design

SUBJECT PRELIMINARY UTILITY COST (ESTIMATE)

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

Facility Owner	Non-Reimbursable	Reimbursable	Comments
None	\$0.00	\$0.00	
Totals			
Total Reimbursement	\$0.00	\$0.00	

After a field review of this area on February 03, 2012, it was determined that there were no utilities within these project limits.

CC: Angie Robinson, Office of Financial Management;
Terry Brigman, Assistant State Utilities Engineer
District Office File
Utilities Office File

Sapp, James

From: Westberry, Lisa
Sent: Wednesday, February 08, 2012 3:35 PM
To: Sapp, James
Cc: Odom, Dennis; Moseley, Brent
Subject: FW: 0007163 Environmental Mitigation?
Attachments: PCR 0007163 - New Format2011.docx; PI 0007163.pdf

James,

I apologize for it taking so long to get back to you on this. The project is located on SR 252 over the Satilla River overflows in Charlton County. I reviewed the National Wetland Inventory Maps and based on the project description, wetlands would be impacted by this project and mitigation would be required. Using 200 feet of existing ROW, the project would require approximately 96 wetland credits. The estimated costs for these credits is \$153,600.

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: Sapp, James
Sent: Tuesday, January 31, 2012 2:56 PM
To: Westberry, Lisa
Cc: Odom, Dennis; Moseley, Brent
Subject: 0007163 Environmental Mitigation?

Ms. Westberry,

I tried to send this as one email and it was too big.

0007163



U.S. Fish and Wildlife Service

National Wetlands Inventory

Feb 8, 2012



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Status

- Digital
- Scan
- Non-Digital
- No Data

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:



Bridge Inventory Data Listing

Parameters: Bridge Serial Num

Structure ID: 049-0036-0

Charlton

SUFF. RATING: 65.59

Location & Geography

Structure ID:	049-0036-0	*104 Highway System:	0	Signs & Attachments	
200 Bridge Information:	06	*26 Functional Classification:	06	225 Expansion Joint Type:	02
*5A Feature Int:	SATILLA RIVER OVERFLOW	*204 Federal Route Type:	F No: 01401	242 Deck Drains:	1
*5B Critical Bridge:	0	105 Federal Lands Highway:	0	243 Parapet Location:	0
*7A Route No Carried:	SR00252	*110 Truck Route:	0	Height:	0
*7B Facility Carried:	SR 252	2006 School Bus Route:	1	Width:	0
9 Location:	10 MI N E OF FOLKSTON	217 Benchmark Elevation:	0000.00	238 Curb Height:	1
2 Dot District:	5	218 Datum:	0	Curb Material:	1
207 Year Photo:	2011	*19 Bypass Length:	13	239 Handrail:	11
*91 Inspection Frequency:	24 Date: 07/05/2011	*20 Toll:	3	*240 Medium Barrier Rail:	0
*2A Fract Crit Insp Freq:	0 Date: 02/01/1901	*21 Maintenance:	01	241 Bridge Median Height:	0
*2B Underwater Insp Freq:	0 Date: 02/01/1901	*22 Owner:	01	* Bridge Median Width:	0
*2C Other Spc. Insp Freq:	0 Date: 02/01/1901	*31 Design Load:	5	230 Guardrail Loc. Dir. Rear:	3
*4 Place Code:	00000	37 Historical Significance:	5	Fwd:	3
*5 Inventory Route(O/U):	1	205 Congressional District:	01	Oppo. Dir. Rear:	0
Type:	3	27 Year Constructed:	1956	Oppo. Fwd:	0
Designation:	1	106 Year Reconstructed:	0000	244 Approach Slab:	3
Number:	00252	33 Bridge Medium:	0	224 Retaining Wall:	0
Direction:	0	34 Skew:	00	233 Posted Speed Limit:	55
*16 Latitude:	30 57.0637 HMMS Prefix:SR	35 Structure Flared:	0	236 Warning Sign:	0.00
*17 Longitude:	81 -54.7598 HMMS Suffix:00 MP:10.62	38 Navigation Control:	0	234 Delineator:	1.00
*8 Border Bridge:	00% Shared:00	213 Special Steel Design:	0	235 Hazzard Boards:	1
99 ID Number:	0000000000000000	267 Type of Paint:	0	237 Utilities Gas:	00
*100 STRAHNET:	0	*42 Type of Service On:	1	Water:	00
12 Base Highway Network:	1	Type of Service Under:	9	Electric:	00
13A LRS Inventory Route:	491025200	214 Movable Bridge:	0	Telephone:	00
13B Sub Inventory Route:	0	203 Type Bridge:	D	Sewer:	00
101 parallel Structure:	N	259 Pile Encasement:	3	247 Lighting Street:	0
*102 Direction of Traffic:	2	*43 Structure Type Main:	1 01	Navigation:	0
*264 Road Inventory Mile Post:	010.58	45 No-Spans Main:	0 00	Aerial:	0
*208 Inspection Area:	5 Initials: EFP	44 Structure Type Appr:	0000	*248 County Continuity No.:	00
Engineer's Initials:	exp	46 No Spans Appr:	0000		
* Location ID No:	049-00252D-010.62E	226 Bridge Curve Horz	1 Vert: 0		
		111 pier Protection	0		
		107 Deck Structure Type:	1		
		108 Wearing Structure Type:	1		
		Membrane Type:	8		
		Deck Protection:	8		



Bridge Inventory Data Listing

Processed Date: 2/21/2012

Parameters: Bridge Serial Num

Structure ID: 049-0036-0

Programming Data

201 Project No: BA (3) 1215 (3)
 202 Plans Available: 4
 249 Prop Proj No: CSBRG-0007-00(163)
 250 Approval Status: 0000
 251 PI Number: 0007163
 252 Contract Date: 02/01/1901
 260 Seismic No: 00000
 75 Type Work: 00 0
 94 Bridge Imp. Cost: \$500
 95 Roadway Imp. Cost: 50
 96 Total Imp Cost: 0
 76 Imp Length: 000000
 97 Imp Year: 0000
 114 Future ADT: 000720 Year: 2030

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: 5
 216 Water Depth: 0.7 Br Height: 14.1
 222 Slope Protection: 1
 221 Slope Protection: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Current Cover: 000

Type: 0
 No. Barrels: 0
 * Width: 0.00 Height: 0.00
 * Length: 0 Apron: 0
 265 L/W Insp. Area: 0 Diver: ZZZ
 Location ID No: 049-00252D-010 62E

Measurements:

*29 ADT: 000480 Year: 2010
 109% Trucks: 0
 *28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 *48 Max. Span Length: 0015
 *49 Structure Length: 180
 51 Br. Rwdy. Width: 28.00
 52 Deck Width: 34.00
 *47 Tot. Horiz. Cl: 28
 50 Curb / Sidewalk Width: 2.00 / 2.00
 32 Approach Rdwy. Width: 028
 *229 Shoulder Width: 3.50 Type: 2 Rt: 2.80
 Rear Lt: 3.50 Type: 2 Rt: 2.80
 Fwd. Lt:

Permanent Width:
 Rear: 21.40 Type: 2
 21.40 Type: 2
 Intersection Rear: 0 Fwd: 1
 36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 1
 App. Rail End: 2
 53 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 Undercl. Rt: N 0 0
 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: 11.00
 246 Overlay Thickness: 0.00
 212 Year Last Painted: Sup: 0000 Sub: 0000

65 Inventory Rating Method: 1
 63 Operating Rating Method: 1
 66 Inventory Type: 2 Rating: 14
 64 Operating Type: 2 Rating: 14
 231 Calculated Loads:
 H-Modified: 18 1
 HS-Modific: 24 1
 Type 3: 19 1
 Type 3s2: 31 1
 Timber: 24 1
 Piggyback: 40 0
 261 H Inventory Rating: 8
 262 H Operating Rating: 14
 67 Structural Evaluation: 4
 58 Deck Condition: 7
 59 Superstructure Condition: 7
 *227 Collision Damage: 0
 60A Substructure Condition: 6
 60B Scour Condition: 8
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond.: 7
 68 Deck Geometry: 5
 69 UnderCir. HorizVert: N
 72 Appr. Alignment: 8
 62 Culvert: N
Posting Data
 70 Bridge Posting Required: 0
 41 Struct Open, Posted, CL: P
 *103 Temporary Structure: 0
 232 Posted Loads
 H-Modified: 18
 HS-Modific: 24
 Type 3: 19
 Type 3s2: 31
 Timber: 24
 Piggyback: 00
 253 Notification Date: 02/01/1901
 258 Fed Notify Date: 2/1/1901 12:00:00AM



Bridge Inventory Data Listing

Processed Date: 2/21/2012

Parameters: Bridge Serial Num

Structure ID: 049-0037-0

Programming Data

201 Project No: BA (3) 1215 (3)
 202 Plans Available: 4
 249 Prop Proj No: CSBRG-0007-00(163)
 250 Approval Status: 0000
 251 PI Number: 0007163
 252 Contract Date: 02/01/1901
 260 Seismic No: 00000
 75 Type Work: 00 0
 94 Bridge Imp. Cost: \$500
 95 Roadway Imp. Cost: 50
 96 Total Imp Cost: 0
 76 Imp Length: 000000
 97 Imp Year: 0000
 114 Future ADT: 000720 Year: 2030

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: 5
 216 Water Depth: 0.1 Br Height: 12.6
 222 Slope Protection: 1
 221 Slope Protection: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Current Cover: 000
 Type: 0
 No. Barrels: 0
 * Width: 0.00 Height: 0.00
 * Length: 0 Apron: 0
 265 L/W Insp. Area: 0 Diver: ZZZ
 Location ID No: 049-00252D-011.14E

Measurements:

*29 ADT: 000480 Year: 2010
 109% Trucks: 0
 *28 Lanes Ori: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 *48 Max. Span Length: 0015
 *49 Structure Length: 180
 51 Br. Rwdy. Width: 28.00
 52 Deck Width: 34.00
 *47 Tot. Horiz. Cl: 28
 50 Curb / Sidewalk Width: 2.00 / 2.00
 32 Approach Rdwy. Width: 026
 *229 Shoulder Width: 3.00 Type: 2 Rt: 3.00
 Rear Lt: 3.00 Type: 2 Rt: 3.00
 Fwd. Lt:
 Permanent Width:
 Rear: 20.50 Type: 2
 20.50 Type: 2
 Intersection Rear: 0 Fwd: 1
 36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 1
 App. Rail End: 2
 53 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 Undercl. Rt: N 0 0
 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: 11.00
 246 Overlay Thickness: 0.00
 212 Year Last Painted: Sup: 0000 Sub: 0000

65 Inventory Rating Method: 1
 63 Operating Rating Method: 1
 66 Inventory Type: 2 Rating: 18
 64 Operating Type: 2 Rating: 18
 231 Calculated Loads:
 H-Modified: 18 1
 HS-Modific: 24 1
 Type 3: 26 1
 Type 3s2: 32 1
 Timber: 30 1
 Piggyback: 40 0
 261 H Inventory Rating: 10
 262 H Operating Rating: 17
 67 Structural Evaluation: 5
 58 Deck Condition: 7
 59 Superstructure Condition: 7
 *227 Collision Damage: 0
 60A Substructure Condition: 7
 60B Scour Condition: 6
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond.: 8
 68 Deck Geometry: 5
 69 UnderCir. HorizVert: N
 72 Appr. Alignment: 8
 62 Culvert: N
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 70 Bridge Posting Required: 3
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 *103 Temporary Structure: 0
 232 Posted Loads
 H-Modified: 18
 HS-Modific: 24
 Type 3: 26
 Type 3s2: 32
 Timber: 30
 Piggyback: 00
 253 Notification Date: 02/01/1901
 258 Fed Notify Date: 2/1/1901 12:00:00AM



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 www.delorme.com



0 1 2 3 4 5 6 7

Data Zoom 9-2

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No. 0007163 OFFICE: Environmental Services
DATE: June 29, 2012

FROM  Glenn Bowman, P.E., State Environmental Administrator

TO Distribution Below

SUBJECT PUBLIC INFORMATION (DETOUR) OPEN HOUSE SYNOPSIS

PROJECT No. & COUNTY: CSBRG-0007-00(163), Charlton

PROJECT DESCRIPTION: Project CSBRG-0007-00(163), P.I. No. 0007163, Charlton County, would replace the existing structurally deficient (i.e., substandard load capacity) bridges on State Route 252 over Satilla River Overflow. This project is approximately 0.85 miles in length and located 10 miles northeast of Folkston, Georgia. The two existing bridges over the Satilla River Overflow were built in 1956 are classified as being in good to satisfactory condition. The deck and superstructure members are in good condition with some minor problems. The substructure is in satisfactory condition with some minor deterioration. Due to these bridges being posted with weight limits, replacement is recommended. Each bridge is 180 feet long and 28 feet wide with two 11 foot travel lanes and 3 foot shoulders. The new bridges will be constructed at 180 feet in length, 34 feet wide with two 11 foot travel lanes and 6 foot shoulders. They will be constructed on the same alignment as the existing bridges and the roadway will be closed to through traffic during construction. Traffic will utilize an off-site detour during construction

DATE: July 26, 2012

NUMBER IN ATTENDANCE: 9

FOR: 1

CONDITIONAL: 0

UNCOMMITTED: 0

AGAINST: 0

OFFICIALS IN ATTENDANCE: 0

ADDITIONAL COMMENTS: Those who did not provide written comments expressed positive favor of the project and detour through conversations with myself and with the other GDOT project representatives.

PREPARED BY: Steve Price, GDOT District 5 Environmentalist

TELEPHONE No.: (912) 427-5756

cc: Jay Shaw, DOT Board Member
Gerald M. Ross, P.E., Chief Engineer
Russell McMurry, P.E., Director of Engineering
Keisha Jackson, OES Public Involvement Manager
Cindy Van Dyke, State Planning Administrator
Brad Saxon, P.E., District Preconstruction Engineer
Karlene Barron, Director of Communications
Karon Ivory, District Engineer
Jennifer Giersch, FHWA

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**S.R. 252 @ Satilla River Overflows, 10 Miles NE of Folkston
CSBRG-0007-00(163), Charlton County
P. I. No.: 0007163**

**March 29, 2012 @ 9:30 AM
Location: District 5 Assembly Room**

Concept Team Meeting Minutes

Attendance

Brent Moseley	GDOT/OPD	912-427-5749	bmoseley@dot.ga.gov
Dennis Odom	GDOT/D5 Design	912-427-5716	dodem@dot.ga.gov
Rebecca Thigpen	GDOT/D5 Design	912-427-5794	rethigpen@dot.ga.gov
John Royal	GDOT/D5 Utility	912-427-5859	jroyal@dot.ga.gov
Jeffery Young	GDOT/D5 Location	912-370-2588	jyoung@dot.ga.gov
Steve Price	GDOT/D5 Environmentalist	912-427-5756	stprice@dot.ga.gov
James Sapp	GDOT/Design	912-427-5770	jsapp@dot.ga.gov
Brad Saxon	GDOT/Pre-Construction	912-427-5715	bsaxon@dot.ga.gov
Cynthia Phillips	GDOT/Traffic Operations	912-427-5767	cyphillips@dot.ga.gov
Jack G. Walker	GDOT/A2 Waycross	912-285-6009	jacwalker@dot.ga.gov
Johnny Barber	GDOT/A2 Waycross	912-424-9253	jbarber@dot.ga.gov
Lee Sheffield	GDOT/D5 Estimator	912-424-9409	lesheffield@dot.ga.gov
Teresa Scott	GDOT/D5 Utility	912-427-5788	tscott@dot.ga.gov
Cory Knox	GDOT/D5 Construction	912-427-1941	cknox@dot.ga.gov
Jill Nagel	GDOT/ D5 Communications	912-427-5743	jnagel@dot.ga.gov
Teresa Tootle	GDOT/ D5 Design	912-427-5717	ttootle@dot.ga.gov

The **Project Justification Statement** was read by Brent Moseley. These bridges (Structure ID 049-0036-0 and 049-0037-0; SR 252 over Satilla River Overflows) were built in 1956. The bridges consist of twelve spans of cast in place concrete slabs on concrete caps and driven concrete piles. These bridges are currently posted. The overall condition of these bridges would be classified as good to satisfactory. The deck and superstructure members are in good condition with some minor problems. The substructure is in satisfactory condition with some minor deterioration. No rehabilitation work performed on the superstructure components would improve these bridges in so far as the posting of the structure is concerned. Due to these structures being posted, replacement of this bridge is recommended.

The **Description of the Proposed Project** was read by Dennis Odom along with complete Concept Report. This project is approximately 0.85 miles in length and is located on SR 252 in Charlton County, 10 miles NE of Folkston, Georgia. This section of SR 252 is functionally classified as Rural Minor Arterial. The 2009 Average Daily Traffic (ADT) is 450 vehicles per day. The projected 2018 ADT is 650 vehicles per day and 1000 vehicles per day in the design year 2038. Truck traffic is 17% of the traffic volume. No accidents were reported at the bridge from 1/1/2009 to 12/31/2011. The proposed roadway and bridge improvements will provide for an acceptable Level of Service B in 2038 design year.

The first overflow bridge (Structure ID 049-0036-0) has a sufficiency rating of 65.59. The bridge deck is 28 feet wide and 180 feet in length. The second overflow bridge (Structure ID 049-0037-0) has a sufficiency rating of 74.14. The bridge deck is 28 feet wide and 180 feet in length.

The logic for establishing the termini is due to replacing the bridge and reworking the shoulders and slopes to accommodate guardrail. Both structures have substandard load capacity and deck geometry and are approximately 2693 feet apart. The new bridges will be constructed on the same alignment as the existing bridges. Traffic will be maintained by using an off-site 48 mile detour on State/Federal roads. The concept proposes to satisfy the Project Justification Statement by replacing substandard load capacity and deck geometry bridges with upgraded shoulders and guardrail.

Comments during Meeting

Brad Saxon stated that the bridge sufficiency rating in the concept report and bridge inventory report do not match.

Brad Saxon stated the off-site detour miles were calculated incorrectly and did not need to be calculated from bridge end to bridge end. The detour should be calculated from where the road the bridge is on intersects other state routes.

Brad Saxon recommends the proposed lane width in the concept report be reduced to 11 feet on the bridge, roadway & typical sections to match existing conditions.

No VE Study is anticipated.

The Environmental Document is expected to be a Categorical Exclusion.

Steve Price requested to change The Public Involvement statement on page 7 to only list one Detour Open House meeting.

Dennis Odom stated to change Utility Company to N/A in Project Responsibilities Table on Page 7.

The Construction Office doesn't foresee any issues.

Greg Walker stated that the bridge mileposts needed to be verified.

Brent Moseley requested additional information in the Rationale section for each alternative under Alternatives Discussion on Page 8.

The Typical Sections for the roadway and the bridge need to be revised in the concept to detail 11 feet travel lanes.

After the Concept Report was reviewed and all comments were made, it was asked if anyone was opposed to calling this the Official Concept Team Meeting. No one was opposed. Therefore, this meeting is the Final Concept Team Meeting.