

ORIGINAL TO GENERAL FILES

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

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## OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

**FILE** P.I. #0009862 **OFFICE** Design Policy & Support  
GDOT District 4 - Tifton  
Calhoun County **DATE** October 31, 2011  
SR 45 @ Cordrays Pond Drain and Overflow

**FROM**  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:

Genetha Rice-Singleton, Program Control Administrator  
Bobby Hilliard, 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: David Acree, Design Group Manager  
Kathy Zahul, State Traffic Engineer  
Georgene Geary, State Materials & Research Engineer  
Ron Wishon, State Project Review Engineer  
Jeff Baker, State Utilities Engineer  
Ken Thompson, Statewide Location Bureau Chief  
Michael Henry, Systems & Classification Branch Chief  
Joe Sheffield, District Engineer  
Brent Thomas, District Preconstruction Engineer  
Tim Warren, District Utilities Engineer  
Chandria Brown, Project Manager  
BOARD MEMBER - 2nd Congressional District

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

County: Calhoun  
P. I. Number: 0009862  
Federal Route Number: N/A  
State Route Number: 45

SR 45 @ CORDRAYS POND DRAIN AND OVERFLOW

**Submitted for approval:**

DATE \_\_\_\_\_  
DATE 9-1-11  
DATE 9-16-2011  
DATE 9/16/11

Local Government (if applicable)  
C. Anderson  
Design Phase Office Head  
Bobby Hilliard  
Office Head (Project Manager's Office)  
Chandran L. Bon  
Project Manager

**Recommendation for approval:**

DATE \_\_\_\_\_  
DATE 10/7/2011  
DATE 10/2/2011  
DATE 9/27/2011  
DATE 9/27/2011  
DATE 9/27/2011  
DATE 10/12/2011  
DATE \_\_\_\_\_

Program Control Administrator \*  
GLENN BOWMAN  
State Environmental Administrator \*  
KATHY ZAHUK  
State Traffic Engineer \*  
KON WISHON  
Project Review Engineer \*  
SAL PIRZAD  
State Utilities Engineer \*  
JOE SHEFFIELD  
District Engineer / District Utilities Engineer  
BEN KADWIN  
State Bridge Design Engineer  
\_\_\_\_\_  
State Transportation Financial Management Administrator

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).

DATE 9-29/11  
CYNTHIA VAN DYKE  
State Transportation Planning Administrator

*\* RECOMMENDATION ON FILE*



**Justification:** The West Bridge (Structure ID 037-0015-0) was built in 1953 and consists of a 4 – 32’-0” concrete “T” beam spans on a concrete bents. The bridge is currently posted from 17 to 25 tons and has a Sufficiency Rating of 37.99. The deck has cracking with efflorescence on the bottom of the deck. Minor spalls are noted on two beams in two different spans, also minor cracks are noted in the middle of the beams. The substructure shows minor cracking at bents 2 and 3. Replacement of this structurally deficient bridge is recommended.

The East Bridge (Structure ID 037-0016-0; SR 45 over Ichawaynochaway Creek) was built in 1953. The bridge consists of four spans of Reinforced Concrete Deck Girders on concrete caps and columns and spread footings. The Sufficiency Rating for this bridge is 55.65. This bridge was designed using truck configurations that weigh less than the current legal state truck weights. This bridge is posted. The overall condition of this bridge would be classified as fair; with the deck and superstructure members exhibiting cracking and minor spalling. No rehabilitation work performed on the deck or the superstructure would improve this bridge in so far as the posting of the structure is concerned. Therefore due to the structural integrity based on the design, replacement of this bridge is recommended.

**Crash Information:** This section of roadway has a crash rate lower than the statewide average for this classification of roadway for years 2007, 2008 and 2009. For the purposes of crash rate calculation, a roadway segment longer than the actual project limits was used (milepost 13.0 to milepost 19.0). Majority of the accidents, 3 of 7 (42.8%), were object strikes involving one car. The second leading cause of accidents, 2 of 7 (28.5%), was overturning. Only one accident involved a collision, a sideswipe, and the final accident was of unknown type. The accidents were not concentrated at a particular location over the mile posts studied.

	2007	2008	2009
Total Accidents	2	3	2
Accidents Per 100 MVMT	71	107	74
Statewide Accidents Per 100 MVMT	203	194	191
Accident % Higher/Lower Than Statewide Average	-65%	-44.8%	-61.3%

**Description of the proposed project:** This project consists of two bridge replacements on existing alignment (SR 45), East Bridge (Structure ID 037-0015-0) and West Bridge (Structure ID 037-0016-0), at Cordrays Pond on State Route 45 (Milepost 16.52 to 17.30, Project Length of 0.78 miles) in Calhoun County on existing alignment. Roadway work in between the bridges will be minimal. An off-site detour between Morgan and State Route 234 will be utilized during construction (see attachment).

Project Concept Report page 4  
Project Number: N/A  
P. I. Number: 0009862  
County: Calhoun

Is the project located in a PM 2.5 Non-attainment area? \_\_\_\_\_ Yes  X  No

Is this project located in an Ozone Non-attainment area? \_\_\_\_\_ Yes  X  No

PDP Classification: Major \_\_\_\_\_ Minor  X

Federal Oversight: Full Oversight ( ) Exempt (X) State Funded ( ) or Other ( )

Functional Classification: RURAL MAJOR COLLECTOR

U. S. Route Number(s): N/A State Route Number(s): 45

**Traffic (AADT):**

Base Year: (2017) 1,800 Design Year: (2037) 2,500

**Existing design features:**

- Typical Section: Two-lane roadway (12' lanes), 5' grass shoulders
- Posted speed: 55 mph Minimum radius for curve: 716.20 ft
- Maximum super-elevation rate for curve: 10 %
- Maximum grade: 2.29 (Mainline)%
- Width of right-of-way: 100 (Approx.)ft.
- Major structures: East Bridge (Length = 128 feet, Width = 23.7 feet, ID = 037-0015-0, Sufficiency Rating = 37.99), West Bridge (Length = 132 feet, Width = 26 feet, ID: 037-0016-0, Sufficiency Rating = 67.44)
- Major interchanges or intersections along the project: State Routes 45 and 41, Y Intersection, Milepost 13.06, SR 41 is stop controlled at SR 45. State Routes 45 and 234, 4 leg intersection, Milepost 17.96, North/South leg stop controlled. Major intersections are located 0.75-1.0 miles from both bridges.

**Proposed Design Features:**

- Proposed typical section(s): Two-lane roadway (12' lanes), Rural shoulders (8' total, 2' paved), Full Depth and Overlay
- Proposed Design Speed Mainline 55 mph
- Proposed Maximum grade Mainline 3 %
- Maximum grade allowable 6 %
- Proposed Maximum grade Side Street N/A %
- Maximum grade allowable N/A %
- Proposed Maximum grade driveway N/A %
- Proposed Minimum radius of curve 716.20 ft
- Minimum radius allowable 1,060 ft
- Maximum allowable superelevation rate 6 %
- Proposed maximum superelevation rate 6 %

- Right-of-Way:
  - Width 100' (approx.)
  - Easements: Temporary (  ) Permanent (  ) Utility ( ) Other ( ).
  - Type of access control: Full ( ) Partial ( ) By Permit (  ) Other ( ).
  - Number of parcels: 4                      Number of displacements: 0
  - Business: 0
  - Residences: 0
  - Mobile homes: 0
  - Other: N/A
- Structures:
  - Bridges: 2 proposed bridges (40' width, 130' approximate length) at existing locations.
- Major intersections, interchanges, median openings and signal locations: Same as existing intersections, no additional intersections proposed.
- Transportation Management Plan Anticipated: Yes ( ) No (  )
- Design Exceptions to controlling criteria anticipated:

	<u>YES</u>	<u>NO</u>	<u>UNDETERMINED</u>
HORIZONTAL ALIGNMENT:	( <input checked="" type="checkbox"/> )	( )	( )
LANE WIDTH:	( )	( <input checked="" type="checkbox"/> )	( )
SHOULDER WIDTH:	( )	( <input checked="" type="checkbox"/> )	( )
VERTICAL GRADES:	( )	( <input checked="" type="checkbox"/> )	( )
CROSS SLOPES:	( )	( <input checked="" type="checkbox"/> )	( )
STOPPING SIGHT DISTANCE:	( )	( <input checked="" type="checkbox"/> )	( )
SUPERELEVATION RATES:	( )	( <input checked="" type="checkbox"/> )	( )
VERTICAL ALIGNMENT:	( )	( <input checked="" type="checkbox"/> )	( )
SPEED DESIGN:	( )	( <input checked="" type="checkbox"/> )	( )
VERTICAL CLEARANCE:	( )	( <input checked="" type="checkbox"/> )	( )
BRIDGE WIDTH:	( )	( <input checked="" type="checkbox"/> )	( )
BRIDGE STRUCTURAL CAPACITY:	( )	( <input checked="" type="checkbox"/> )	( )
LATERAL OFFSET TO OBSTRUCTION:	( )	( <input checked="" type="checkbox"/> )	( )

It's possible that the substandard horizontal curve radius on the East Bridge will be retained.

- Design Variances: None expected.
- Environmental Concerns – There are significant potential historic resources and ecological resources in the project area. Preliminary special studies are incomplete.
- Anticipated Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes (  ) No ( )
  - Categorical exclusion anticipated (  ).
  - Environmental Assessment/Finding of No Significant Impact anticipated (FONSI) ( ).
  - Environmental Impact Statement (EIS) ( ).
- Public Interest Determination Policy and Procedure Required? Yes ( ) No (  )
- Utility involvements: Coordination in progress – overhead power lines near bridges.
- VE Study Anticipated Yes ( ) No (  )

**Project Cost Estimate and Funding Responsibilities:**

	PE	ROW	UTILITY	CST	MITIGATION
By Whom	GDOT	GDOT	GDOT	GDOT	GDOT
\$ Amount	\$572,948	\$104,000	\$0	\$2,029,452	\$30,000

*\*CST Cost includes: Construction, Engineering and Inspection (5%) and Asphalt Cement Cost Adjustment*

**Project Activities Responsibilities:**

- Design: GDOT
- Right-of-Way Acquisition: GDOT
- Right-of-Way funding (real property): GDOT
- Relocation of Utilities: GDOT
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Contractor
- Providing detours: GDOT
- Environmental Studies/Documents/Permits: GDOT
- Environmental Mitigation: GDOT

**Coordination**

- Initial Concept Meeting: Held June 9, 2011. See attachments for meeting minutes.
- Concept Meeting: Initial Concept Meeting served as the Concept Meeting.
- P A R meetings: To Be Determined
- FEMA, USCG, and/or TVA: N/A
- Public involvement: Meeting Scheduled for February 2012
- Local government comments: None
- Other projects in the area: None
- Other coordination to date: Preliminary coordination regarding the detour has taken place. The Public Involvement meeting scheduled for February 2012 will expand upon the early coordination. The major traffic movement originates in Morgan travelling North along SR 45 towards Albany on SR 234. The distance along this route is 10.46 miles. The signed detour starts in Morgan travelling along SR 37 and North along SR 55. The detour will be signed for 14.41 miles. The additional distance travelled equates to 3.95 miles.

**Scheduling – Responsible Parties’ Estimate:**

- Time to complete the environmental process: Begin: 12/22/2011 End: 06/05/2013
- Time to complete preliminary construction plans: Begin: 08/17/2012 End: 06/21/2013
- Time to complete right-of-way plans: Begin: 07/23/2013 End: 10/14/2013
- Time to complete the Section 404 Permit: Begin: 10/06/2014 End: 03/20/2015
- Time to complete final construction plans: Begin: 09/11/2013 End: 11/12/2014
- Time to complete the purchase of right-of-way: Begin: 02/07/2014 End: 05/19/2015
- List other major items that will affect the project schedule: Begin: TBD End: TBD

**Other alternates considered:**

• **Construct Temporary Detour Bridges – Alternate A**

This alternate would not address the geometric deficiencies\* of State Route 45. Two offset temporary bridges would be constructed and connected to the existing State Route 45 using reverse curves. The geometry used would require a 35 mile per hour speed limit through the construction site. An offsite detour would not be necessary for this alternate. The concept construction cost for this alternate is \$3,265,204. This figure does not include right of way or utility relocation costs. This alternate is expected to have additional environmental impacts.

• **Correct Geometry and New Location Bridge – Alternate B**

This alternate would address the geometric deficiencies\* of State Route 45. The Eastern bridge would be constructed with a larger radius in the same location, while the Western Bridge would be built on new location. An offsite detour would be used during the construction of this alternate. The new alignment would meet a design speed of 55 miles per hour. The construction cost for this alternate is \$2,538,333. This figure does not include right of way or utility relocation costs. This alternate is expected to have additional environmental impacts.

• **Offset New Location Bridges – Alternate C**

This alternate would address the geometric deficiencies\* of State Route 45. The Eastern and Western Bridges would be offset to the same side of State Route 45 connected by a tangent on new location. This option would not require an offsite detour during construction. The final condition would meet standards for a design speed of 55 miles per hour. The construction cost for this alternate is \$2,952,934. This figure does not include right of way or utility relocation costs. This alternate is expected to have additional environmental impacts.

• **New Location Road – Alternate D**

This alternate would address the geometric deficiencies\* of State Route 45. A tangent would begin at the Eastern bridge at State Route 45 and tie in to State Route 45, just below Cordray Elam Church Road. This alternate would involve only reconstructing the Eastern bridge and closing the existing State Route 45 before the Western bridge. The final condition would meet standards for a design speed of 55 miles per hour. This alternate was eliminated early in the evaluation process, resulting in no cost estimate being developed.

**\*Geometric Deficiencies**

1. Horizontal

- a. Horizontal curve at the intersection of State Route 45 and County Road 157 (Milepost 16.47): According to plan research, this curve was constructed with a radius of 818.51 feet and with 10% superelevation. By current AASHTO standards, this curve meets a design speed of 50 mph. This assumes a 10% emax, which is rarely used in Georgia anymore. A 6% emax is typical today for this type of roadway; to meet a design speed of 55 mph with 6% emax, the radius would need to be a minimum of 1,060 feet. This curve is currently signed with a cautionary 45 mph sign.
- b. Curve at East Bridge on State Route 45 (Milepost 16.99) – According to plan research, this curve was constructed with a radius of 716.20 feet and with 8.3% superelevation. By current AASHTO standards, this curve meets a design speed of 40 mph. This assumes a 10% emax, which is rarely used in Georgia anymore. A 6% emax is typical today for this type of roadway; to meet a design speed of 55 mph with 6% emax, the radius would need to be a minimum of 1,060 feet.

Project Concept Report page 8

Project Number: N/A

P. I. Number: 0009862

County: Calhoun

2. Vertical – According to plan research, the existing road has a 0% profile grade in some areas. Depending on proposed superelevation transitions, this grade may need to be corrected in some areas.

**Comments:** As appropriate

**Attachments:**

1. Cost Estimates:
  - a. Construction including Engineering and Inspection.
  - b. Completed Asphalt Price Adjustment forms.
  - c. Right-of-Way.
  - d. Utilities
  - e. Environmental Mitigation Estimate.
2. Typical sections
3. Traffic Data
4. Accident summaries
5. Bridge inventory
6. Alternate Layouts
7. Detour Layouts
8. Minutes of Initial Concept Team meeting

Concur: \_\_\_\_\_

*Bill R. McManis*  
Director of Engineering

Approve: \_\_\_\_\_

*David M. [Signature]*  
Chief Engineer

Date: 10 26-11

# DETAILED COST ESTIMATE



**Job: 0009862**

**JOB NUMBER:** 0009862

**FED/STATE PROJECT NUMBER**

**SPEC YEAR:** 01

**DESCRIPTION:** SR 45 @ CORDRAY'S POND DRAIN AND OVERFLOW

**ITEMS FOR JOB 0009862**

**0010 - ROADWAY**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$50,000.00	TRAFFIC CONTROL - PI#0009862	\$50,000.00
0010	153-1300	1.000	EA	\$52,631.38	FIELD ENGINEERS OFFICE TP 3	\$52,631.38
0015	210-0100	1.000	LS	\$50,000.00	GRADING COMPLETE - PI#0009862	\$50,000.00
0020	310-1101	2707.000	TN	\$19.96	GR AGGR BASE CRS, INCL MATL	\$54,032.78
0043	402-1812	50.000	TN	\$91.89	RECYL AC LEVELING, INC BM&HL	\$4,594.73
0025	402-3103	420.000	TN	\$80.19	REC AC 9.5 MM SP, TPII, GP2, INCL BM & H L	\$33,678.62
0035	402-3121	1027.000	TN	\$69.32	RECYL AC 25MM SP, GP1/2, BM&HL	\$71,194.37
0030	402-3190	684.000	TN	\$77.60	RECYL AC 19 MM SP, GP 1 OR 2 , INC BM&HL	\$53,080.81
0040	413-1000	249.000	GL	\$3.51	BITUM TACK COAT	\$874.09
0044	432-5010	500.000	SY	\$7.22	MILL ASPH CONC PVMT, VARB DEPTH	\$3,608.48
0045	433-1000	320.000	SY	\$160.37	REINF CONC APPROACH SLAB	\$51,316.83
0060	446-1100	160.000	LF	\$6.31	PVMT REF FAB STRIPS, TP2, 18 INCH WIDTH	\$1,008.96
0080	641-1100	160.000	LF	\$57.14	GUARDRAIL, TP T	\$9,142.93
0085	641-1200	600.000	LF	\$17.75	GUARDRAIL, TP W	\$10,652.95
0090	641-5001	4.000	EA	\$673.47	GUARDRAIL ANCHORAGE, TP 1	\$2,693.89
0095	641-5012	4.000	EA	\$1,767.33	GUARDRAIL ANCHORAGE, TP 12	\$7,069.32
<b>SUBTOTAL FOR ROADWAY:</b>						<b>\$455,580.14</b>

**0020 - TEMPORARY EROSION CONTROL**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0100	163-0232	1.000	AC	\$426.30	TEMPORARY GRASSING	\$426.30
0105	163-0240	39.000	TN	\$177.10	MULCH	\$6,906.75
0110	163-0300	2.000	EA	\$1,225.29	CONSTRUCTION EXIT	\$2,450.59
0120	165-0030	4800.000	LF	\$0.34	MAINT OF TEMP SILT FENCE, TP C	\$1,629.07
0125	165-0101	2.000	EA	\$340.37	MAINT OF CONST EXIT	\$680.74
0130	167-1000	4.000	EA	\$523.37	WATER QUALITY MONITORING AND SAMPLING	\$2,093.48
0135	167-1500	18.000	MO	\$1,069.27	WATER QUALITY INSPECTIONS	\$19,246.86
0145	171-0030	9600.000	LF	\$3.16	TEMPORARY SILT FENCE, TYPE C	\$30,363.36
0144	643-8200	500.000	LF	\$2.38	BARRIER FENCE (ORANGE), 4 FT	\$1,189.13
<b>SUBTOTAL FOR TEMPORARY EROSION CONTROL:</b>						<b>\$64,986.28</b>

**0030 - PERMANENT EROSION CONTROL**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0150	603-2181	50.000	SY	\$59.10	STN DUMPED RIP RAP, TP 3, 18"	\$2,955.00
0155	603-7000	50.000	SY	\$4.92	PLASTIC FILTER FABRIC	\$245.76
0160	700-6910	2.000	AC	\$999.49	PERMANENT GRASSING	\$1,998.97
0165	700-7000	6.000	TN	\$111.35	AGRICULTURAL LIME	\$668.10
0170	700-8000	5.000	TN	\$548.26	FERTILIZER MIXED GRADE	\$2,741.31
0175	700-8100	200.000	LB	\$2.93	FERTILIZER NITROGEN CONTENT	\$586.77
0180	716-2000	450.000	SY	\$1.94	EROSION CONTROL MATS, SLOPES	\$874.75
<b>SUBTOTAL FOR PERMANENT EROSION CONTROL :</b>						<b>\$10,070.66</b>

**0040 - SIGNING AND MARKING**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0215	636-1020	50.000	SF	\$15.33	HWY SGN, TP1MAT, REFL SH TP3	\$766.36
0220	636-2070	70.000	LF	\$8.33	GALV STEEL POSTS, TP 7	\$582.77
0225	653-2501	0.750	LM	\$1,236.55	THERMO SOLID TRAF ST, 5 IN, WH	\$927.41
0230	653-2502	0.750	LM	\$1,316.39	THERMO SOLID TRAF ST, 5 IN YE	\$987.29
0235	657-1085	520.000	LF	\$6.44	PRF PL SD PVT MKG, 8", B/W, TP PB	\$3,349.39
0240	657-6085	520.000	LF	\$7.05	PRF PL SD PVMT MKG, 8", B/Y, TPPB	\$3,663.87
<b>SUBTOTAL FOR SIGNING AND MARKING:</b>						<b>\$10,277.09</b>

# DETAILED COST ESTIMATE



**Job: 0009862**

**0050 - EAST BRIDGE - SR 45 OVER ICHAWAYNOCHAW**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0185	525-1000	1.000	EA	\$30,000.00	COFFERDAM	\$30,000.00
0200	540-1102	1.000	LS	\$100,000.00	REM OF EX BR, BR NO - 2	\$100,000.00
0210	543-9000	1.000	LS	\$532,000.00	CONSTR OF BRIDGE COMPLETE - 2	\$532,000.00
<b>SUBTOTAL FOR EAST BRIDGE - SR 45 OVER ICHAWAYNOCHAWAY CREEK:</b>						<b>\$662,000.00</b>

**0060 - WEST BRIDGE - SR 45 AT CORDRAYS POND DR**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0190	525-1000	1.000	EA	\$60,000.00	COFFERDAM	\$60,000.00
0195	540-1102	1.000	LS	\$100,000.00	REM OF EX BR, BR NO - 1	\$100,000.00
0205	543-9000	1.000	LS	\$533,400.00	CONSTR OF BRIDGE COMPLETE - 1	\$533,400.00
<b>SUBTOTAL FOR WEST BRIDGE - SR 45 AT CORDRAYS POND DRAIN:</b>						<b>\$693,400.00</b>

**TOTALS FOR JOB 0009862**

<b>ITEMS COST:</b>	<b>\$1,896,314.17</b>
<b>COST GROUP COST:</b>	<b>\$0.00</b>
<b>ESTIMATED COST:</b>	<b>\$1,896,314.17</b>
<b>CONTINGENCY PERCENT:</b>	<b>0.00</b>
<b>ENGINEERING AND INSPECTION:</b>	<b>0.05</b>
<b>ESTIMATED COST WITH CONTINGENCY AND E&amp;I:</b>	<b>\$1,991,129.88</b>

PROJ. NO. N/A  
 P.I. NO. 0009862  
 DATE 8/28/2011

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Aug-11	\$ 3.714
DIESEL		\$ 3.959
LIQUID AC		\$ 580.00

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)					<b>37949.4</b>	\$	<b>37,949.40</b>
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	928.00			
Monthly Asphalt Cement Price month project let (APL)			\$	580.00			
<b>Total Monthly Tonnage of asphalt cement (TMT)</b>					<b>109.05</b>		

ASPHALT	Tons	%AC	AC ton
Leveling	50	5.0%	2.5
12.5 OGFC	0	5.0%	0
12.5 mm	0	5.0%	0
9.5 mm SP	420	5.0%	21
25 mm SP	1027	5.0%	51.35
19 mm SP	684	5.0%	34.2
	<b>2181</b>		<b>109.05</b>

**BITUMINOUS TACK COAT**

Price Adjustment (PA)					\$	<b>372.18</b>	\$	<b>372.18</b>
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	928.00				
Monthly Asphalt Cement Price month project let (APL)			\$	580.00				
<b>Total Monthly Tonnage of asphalt cement (TMT)</b>						<b>1.06948013</b>		

Bitum Tack

Gals	gals/ton	tons
249	232.8234	1.06948013

**BITUMINOUS TACK COAT (surface treatment)**

Price Adjustment (PA)					<b>0</b>	\$	<b>-</b>
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	928.00			
Monthly Asphalt Cement Price month project let (APL)			\$	580.00			
<b>Total Monthly Tonnage of asphalt cement (TMT)</b>					<b>0</b>		

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** \$ **38,321.58**

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

Date: 8/17/2011  
Revised:

Project: Calhoun County Bridge Replacement  
County: Calhoun County  
PI: 0009862

Description: SR 45 @ Cordrays Pond Drain and overflow  
Project Termini: SR 45 @ Cordrays Pond Drain and overflow

Existing ROW: Varies  
Required ROW: Varies  
Parcels: 4

Land and Improvements \_\_\_\_\_ \$16,056.00

*Proximity Damage* \$0.00

*Consequential Damage* \$0.00

*Cost to Cures* \$0.00

*Trade Fixtures* \$0.00

*Improvements* \$5,000.00

Valuation Services \_\_\_\_\_ \$4,000.00

Legal Services \_\_\_\_\_ \$40,200.00

Relocation \_\_\_\_\_ \$8,000.00

Demolition \_\_\_\_\_ \$0.00

Administrative \_\_\_\_\_ \$35,500.00

TOTAL ESTIMATED COSTS \_\_\_\_\_ \$103,756.00

**TOTAL ESTIMATED COSTS (ROUNDED) \_\_\_\_\_ \$104,000.00**

Preparation Credits	Hours	Signature

Prepared By: LaShore Alexander CG#: 286999 8/17/11  
Approved By: LaShore Alexander CG#: 286999 8/17/11

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

Georgia Department of Transportation  
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Calhoun County Bridge Replacement Calhoun County 0009862

	A	B	C	D
<b>Land and Improvements</b>	<b>Agriculture</b>	<b>Residential</b>	<b>Commercial</b>	<b>Industrial</b>
1 Estimate Low (ac)	\$3,000.00	\$0.00	\$0.00	\$0.00
2 Estimate High (ac)	\$6,000.00	\$0.00	\$0.00	\$0.00
3 Estimate Used (ac)	\$4,000.00	\$0.00	\$0.00	\$0.00
4 Fee Simple Area (ac)	1.14	0.00	0.00	0.00
5 Fee Simple Estimate	\$4,544.00	\$0.00	\$0.00	\$0.00
6 Perm Esmt Area (ac)	0.58	0.00	0.00	0.00
7 Perm Esmt Factor	50%	0%	0%	0%
8 Perm Esmt Estimate	\$1,160.00	\$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	\$5,000.00	\$0.00	\$0.00	\$0.00
16 Trade Fixtures	\$0.00	\$0.00	\$0.00	\$0.00
17				
18 <b>PROPERTY TYPE TOTALS</b>	<b>\$10,704.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
19	<b>SUB TOTAL PROPERTY TYPES</b>			<b>\$10,704.00</b>
20	Counter Offers and Condemnation Increases			\$5,352.00
21				
22	<b>GRAND TOTAL LANDS AND IMPROVEMENTS</b>			<b>\$16,056.00</b>

Georgia Department of Transportation  
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Calhoun County Bridge Replacement Calhoun County 0009862

	A	B	C	D
<b>Valuation Services</b>	<b>Agriculture</b>	<b>Residential</b>	<b>Commercial</b>	<b>Industrial</b>
1 Appraisals (# of Parcels)	4	0	0	0
2 Estimated Fees (per Parcel)	\$1,000.00	\$0.00	\$0.00	\$0.00
3 <b>TOTAL APPRAISALS</b>	\$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 <b>TOTAL SIGN ESTIMATES</b>	\$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 <b>TOTAL SPECIALTY REPORTS</b>	\$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 <b>TOTAL SEPTIC/WELL REPORTS</b>	\$0.00	\$0.00	\$0.00	\$0.00
13				
14				
15				
16 <b>TOTAL VALUATION FEES</b>	\$4,000.00	\$0.00	\$0.00	\$0.00
17	<b>SUB TOTAL VALUATION SERVICES</b>			<b>\$4,000.00</b>
18	Updates and Incidentals (Min \$2,500 or 25%)			\$2,500.00
19	<b>GRAND TOTAL VALUATION SERVICES</b>			<b>\$4,000.00</b>

Georgia Department of Transportation  
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Calhoun County Bridge Replacement Calhoun County 0009862

	A	B	C	D
	Parcels	Estimated Fees		TOTALS
1	4	\$125.00		\$500.00
2	4	\$200.00		\$800.00
3	4	\$300.00		\$1,200.00
4	4	\$50.00		\$200.00
5	1	\$5,000.00		\$5,000.00
6	1	\$25,000.00		\$25,000.00
7	1	\$7,500.00		\$7,500.00
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	<b>GRAND TOTAL LEGAL SERVICES</b>			<b>\$40,200.00</b>

Georgia Department of Transportation  
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Calhoun County Bridge Replacement Calhoun County 0009862

	A	B	C	D
	<b>Relocation</b>	<b>Displacements</b>	<b>Estimated Costs</b>	<b>TOTALS</b>
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	4	\$1,000.00	\$4,000.00
5	Property Pin Replacement	4	\$1,000.00	\$4,000.00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	<b>GRAND TOTAL RELOCATION</b>			<b>\$8,000.00</b>

Georgia Department of Transportation  
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Calhoun County Bridge Replacement Calhoun County 0009862

		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				<b>GRAND TOTAL DEMOLITION</b>	<b>\$0.00</b>

Georgia Department of Transportation  
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

Calhoun County Bridge Replacement Calhoun County 0009862

	A	B	C	D
	Parcels	Man hours per Parcel		TOTALS
1	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	<b>GRAND TOTAL INHOUSE</b>			<b>\$35,500.00</b>

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE**

Project No:  
County           **CALHOUN**  
P.I. #            **0009862**

OFFICE: **Tifton**  
DATE: **June 8, 2011**

Description:    **SR 45 @ Cordrays Mill Pond Drain**

  
**FROM** Tim Warren, P.E., District Utilities Engineer

**TO** Chandria Brown, Project Manager

**SUBJECT    UTILITY COST ESTIMATE**

A review of utilities located on the above referenced project has been conducted . Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

<u>Utility Owner</u>	<u>Reimbursable</u>	<u>Non-Reimbursable</u>	<u>Estimate Based on</u>
Windstream	\$0.00	\$13,104.42	Site Visit / Available Drawings
Pataula EMC	\$0.00	\$77,000.00	Site Visit / Available Drawings
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
<b>Total</b>	<b>\$ 0.00</b>	<b>\$ 90,104.42</b>	

**\*\* Indicates Potential Utility Aid Request from Local Gov't**

If additional information is needed, please contact me or Ken Cheek, Utilities Engineer at (229) 386-3288.

TW:KC:ec

c: Jeff Baker, P.E., State Utilities Engineer  
Brent Thomas, District Preconstruction Engineer  
Angela Robinson, State Financial Management Administrator



## Martin, Drew

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**From:** Brown, Chandria  
**Sent:** Thursday, September 08, 2011 11:52 AM  
**To:** Martin, Drew  
**Cc:** Acree, David; Woods, Sam; Hill, Stanley  
**Subject:** FW: PI#0009862 Bridge Replacement Layout

Drew,

Please see the mitigation estimate below as explained by Sharilyn.

Thanks,  
Chandria L. Brown, P.E.  
Project Manager  
Office of Program Delivery  
Georgia Department of Transportation  
600 West Peachtree Street, 25th Floor  
Atlanta, GA 30308  
Phone: (404) 631-1580  
Mobile: (404) 357-5049  
Fax: (404) 631-1588  
E-mail: [chbrown@dot.ga.gov](mailto:chbrown@dot.ga.gov)

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**From:** Meyers, Sharilyn  
**Sent:** Thursday, September 08, 2011 11:47 AM  
**To:** Brown, Chandria  
**Subject:** RE: PI#0009862 Bridge Replacement Layout

It was based on 8.5 credits for 1.0 acre of impact @ \$3500/an acre. Since we generally do our mitigation purchases by open bid the price can be significantly less. This would be a worst case cost based on the information provided below. A more precise cost would be \$28,560.

### Sharilyn Meyers

Ecology Team Leader  
Office of Environmental Services  
600 W. Peachtree Street, 16th Floor  
Atlanta, GA 30308  
(404) 631-1594 phone  
(404) 631-1916 fax

---

**From:** Brown, Chandria  
**Sent:** Thursday, September 08, 2011 11:43 AM  
**To:** Meyers, Sharilyn  
**Subject:** FW: PI#0009862 Bridge Replacement Layout

Sharilyn,

Is the \$30K still a good figure for the Mitigation estimate?

Thanks,  
Chandria L. Brown, P.E.

Project Manager  
Office of Program Delivery  
Georgia Department of Transportation  
600 West Peachtree Street, 25th Floor  
Atlanta, GA 30308  
Phone: (404) 631-1580  
Mobile: (404) 357-5049  
Fax: (404) 631-1588  
E-mail: [chbrown@dot.ga.gov](mailto:chbrown@dot.ga.gov)

---

**From:** Martin, Drew  
**Sent:** Thursday, September 08, 2011 11:21 AM  
**To:** Meyers, Sharilyn  
**Cc:** Brown, Chandria; Acree, David; Woods, Sam  
**Subject:** RE: PI#0009862 Bridge Replacement Layout

Sharilyn,

At this moment, there are a few unknowns that could influence the "worst case". The largest unknown is the elevation of the proposed bridges. We are hoping that the hydraulic study does not require that we significantly raise the profile of the bridges. To estimate a worst case scenario, we made some assumptions.

**Assumptions**

Vertical Profile raised 5 feet  
Side slopes = 2:1  
Only 500 feet West of the West Bridge is affected  
Nothing East of the East Bridge is affected  
Total Length of affected area 2,100 feet

**Calculations**

5' x 2:1 = 10 feet (of fill area, per side of road)

10' x 2,100' x 2 = 42,000 sq. ft. or 0.96 acres

This number is very conservative, because it assumes a continuous fill area, even under the bridges. Also, the wetland boundaries are undefined, so some of the area included may not be disturbing open water or wetlands. Let me know if you have any questions or comments.

---

**From:** Meyers, Sharilyn  
**Sent:** Thursday, September 08, 2011 8:51 AM  
**To:** Martin, Drew  
**Cc:** Brown, Chandria; Woods, Sam; Acree, David  
**Subject:** RE: PI#0009862 Bridge Replacement Layout

Can you tell me the worst case fill impact in open waters and streams for this project?

**Sharilyn Meyers**

Ecology Team Leader  
Office of Environmental Services  
600 W. Peachtree Street, 16th Floor  
Atlanta, GA 30308  
(404) 631-1594 phone  
(404) 631-1916 fax

---

**From:** Martin, Drew  
**Sent:** Thursday, September 01, 2011 8:49 AM  
**To:** Meyers, Sharilyn  
**Cc:** Brown, Chandria; Woods, Sam; Acree, David  
**Subject:** PI#0009862 Bridge Replacement Layout

Sharilyn,  
Attached is the proposed bridge replacement layout, per Chandria's request.

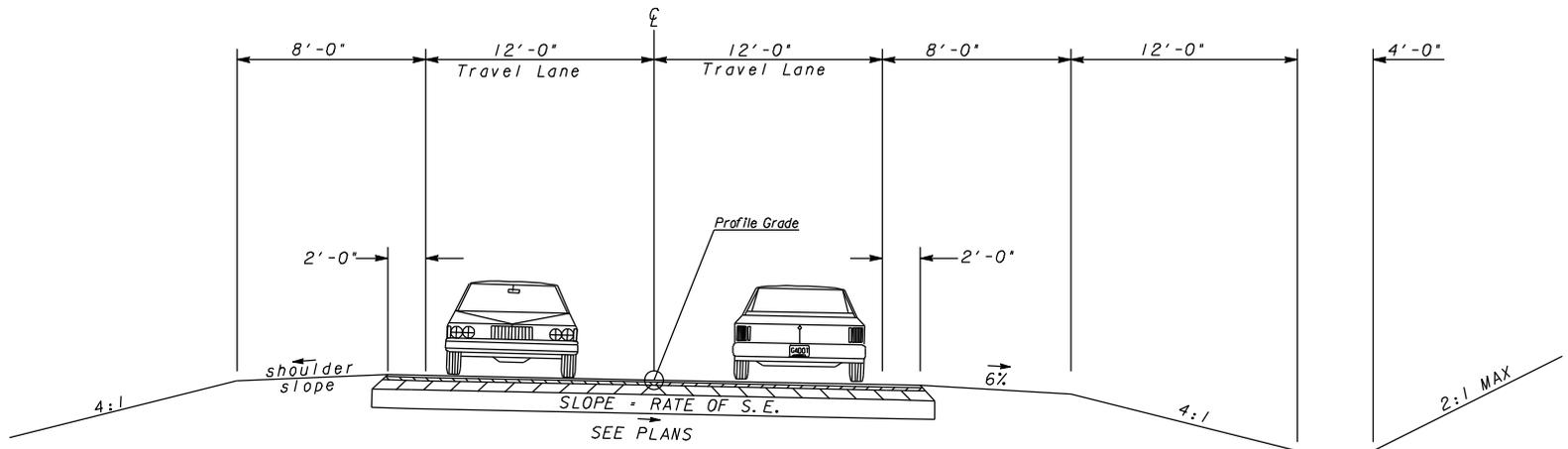
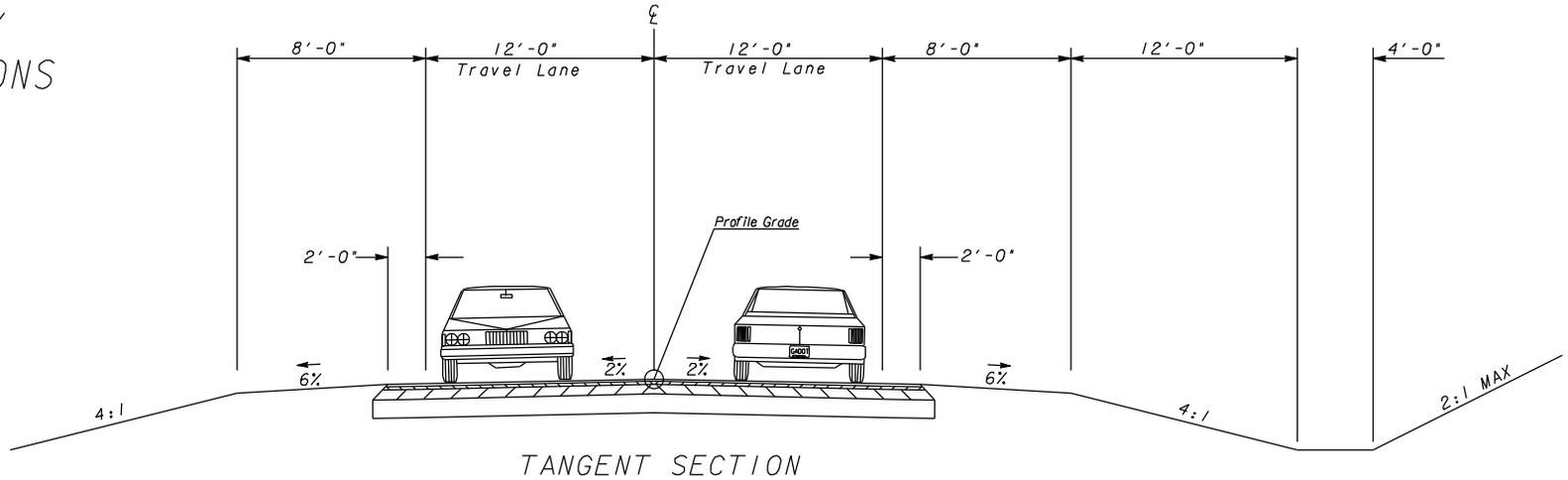
**Drew Martin, EIT**  
Design Engineer II  
Georgia Department of Transportation  
Office of Roadway Design  
(404) 631-1625  
[dmartin@dot.ga.gov](mailto:dmartin@dot.ga.gov)

PI# 0009862

SR 45 @ CORDRAY'S POND DRAIN

CALHOUN COUNTY

TYPICAL SECTIONS



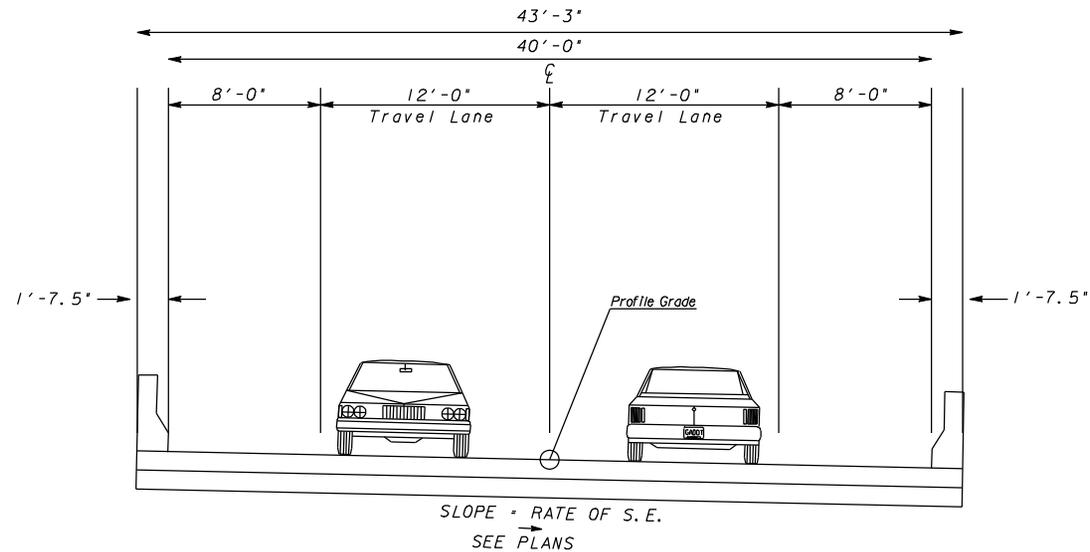
S.E. RATE	shoulder slope
2.0% OR 3.0%	4.0%
4.0% OR 5.0%	2.0%
6.0% OR 7.0%	1.0%
8.0% +	0.0%

PI# 0009862

SR 45 @ CORDRAY'S POND DRAIN

CALHOUN COUNTY

TYPICAL SECTIONS



SUPER ELEVATED SECTION

**NO BUILD = BUILD**  
**Department of Transportation**  
**State of Georgia**

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INTERDEPARTMENT CORRESPONDENCE

**FILE** Calhoun County **OFFICE** Planning  
P.I. # 0009862 **DATE** May 6, 2011

**FROM** Cindy VanDyke, State Transportation Planning Administrator

**TO** Russell McMurry, Assistant Division Director  
**Attention:** David Acree

**SUBJECT** **Traffic** Assignment for S.R. 45 at Cordrays Pond Drain.

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

**TC # 037-0056**  
2011 AADT = 1550  
2017 AADT = 1800  
2037 AADT = 2500  
2011 DHV = 155  
2017 DHV = 180  
2037 DHV = 250  
K = 10%  
D = 55%  
T. = 12.5%  
S.U. T. = 10%  
COMB. T. = 2.5%  
24 HOUR T. = 18%  
S.U. = 9%  
COMB. = 9%

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

PI#0009862 - Calhoun County

SR 45 @ Cordray's Pond Drain - Bridge Replacements

Accident Data - SR 45 from MP 13.00 to MP 19.00 (2007-2009)

Vehicle Analysis 1								
Accident No	Date	Time	County	Route Type	Route	Milelog	Intersecting Rt Type	Intersecting Rt
'71570093	4/19/2007	5:34 AM	Calhoun	State Route	'004500	16.83		'
'75140146	11/26/2007	2:30 PM	Calhoun	State Route	'004500	17.95		'
'83900177	9/23/2008	9:14 PM	Calhoun	State Route	'004500	15.44	2	'002500
'84800190	11/14/2008	7:00 AM	Calhoun	State Route	'004500	15.97	2	'014900
'81990187	5/12/2008	5:22 PM	Calhoun	State Route	'004500	18.46		'
'92480302	6/9/2009	1:12 PM	Calhoun	State Route	'004500	15.41		'
'92660529	6/7/2009	9:08 AM	Calhoun	State Route	'004500	17.76		'

Accident No	Date	Time	Ramp Section	Injuries	Fatalities	Collision
'71570093	4/19/2007	5:34 AM		0	0	Not A Collision With A Motor Vehicle
'75140146	11/26/2007	2:30 PM		0	0	Not A Collision With A Motor Vehicle
'83900177	9/23/2008	9:14 PM		0	0	Not A Collision With A Motor Vehicle
'84800190	11/14/2008	7:00 AM		0	0	Sideswipe - Same Direction
'81990187	5/12/2008	5:22 PM		0	0	Not A Collision With A Motor Vehicle
'92480302	6/9/2009	1:12 PM	1	2	0	Not A Collision With A Motor Vehicle
'92660529	6/7/2009	9:08 AM		0	0	Not A Collision With A Motor Vehicle

Accident No	Date	Time	Location of Impact	Harmful Event	Light	Surface	DirVeh1
'71570093	4/19/2007	5:34 AM	Off Roadway	Overturn	Dark-Not Lighted	Dry	S
'75140146	11/26/2007	2:30 PM	Off Roadway	Object	Daylight	Wet	N
'83900177	9/23/2008	9:14 PM	Off Roadway	Tree	Dark-Not Lighted	Dry	S
'84800190	11/14/2008	7:00 AM	On Roadway	in Motion	Daylight	Dry	W
'81990187	5/12/2008	5:22 PM	On Roadway	Collision	Daylight	Dry	E
'92480302	6/9/2009	1:12 PM	Off Roadway	Deer	Daylight	Dry	S
'92660529	6/7/2009	9:08 AM	Off Roadway	Overturn	Daylight	Dry	S

Accident No	Date	Time	DirVeh2	MnvrVeh1	MnvrVeh2
'71570093	4/19/2007	5:34 AM		Curve	
'75140146	11/26/2007	2:30 PM		Curve	
'83900177	9/23/2008	9:14 PM		Straight	
'84800190	11/14/2008	7:00 AM	N	Straight	Straight
'81990187	5/12/2008	5:22 PM		Turning Left	
'92480302	6/9/2009	1:12 PM		Straight	
'92660529	6/7/2009	9:08 AM		Straight	

# Bridge Inventory Data Listing



Parameters: Bridge Serial Num

Structure ID:037-0015-0

Calhoun

SUFF. RATING: 37.99

**Location & Geography**

**Structure ID:** 037-0015-0  
 200 Bridge Information: 06  
 \*6A Feature Int: CORDRAY'S POND DRAIN  
 \*6B Critical Bridge: 0  
 \*7A Route No Carried: SR00045  
 \*7B Facility Carried: SR 45  
 9 Location: 4 MILES NORTHEAST OF MORGAN  
 2 Dot District: 4  
 207 Year Photo: 2011  
 \*91 Inspection Frequency: 24 Date: 01/27/2011  
 92A Fract Crit Insp Freq: 0 Date: 02/01/1901  
 92B Underwater Insp Freq: 0 Date: 02/01/1901  
 92C Other Spc. Insp Freq: 0 Date: 02/01/1901  
 \* 4 Place Code: 00000  
 \*5 Inventory Route(O/U): 1  
 Type: 3  
 Designation: 1  
 Number: 00045  
 Direction: 0  
 \*16 Latitude: 31 35.5110 HMMS Prefix:SR  
 \*17 Longitude: 84 -34.0313 HMMS Suffix:00 MP:16.85  
 98 Border Bridge: 000%Shared:00  
 99 ID Number: 0000000000000000  
 \*100 STRAHNET: 0  
 12 Base Highway Network: 1  
 13A LRS Inventory Route: 371004500  
 13B Sub Inventory Route: 0  
 101 parallel Structure: N  
 \*102 Direction of Traffic: 2  
 \*264 Road Inventory Mile Post: 016.31  
 \*208 Inspection Area: 4 Initials: EFP  
 Engineer's Initials: kww  
 \* Location ID No: 037-00045D-016.85N

\*104 Highway System: 0  
 \*26 Functional Classification: 07  
 \*204 Federal Route Type: S No: 00524  
 105 Federal Lands Highway: 0  
 \*110 Truck Route: 0  
 2006 School Bus Route: 1  
 217 Benchmark Elevation: 0000.00  
 218 Datum: 0  
 \*19 Bypass Length: 20  
 \*20 Toll: 3  
 \*21 Maintenance: 01  
 \*22 Owner: 01  
 \*31 Design Load: 2  
 37 Historical Significance: 5  
 205 Congressional District: 02  
 27 Year Constructed: 1953  
 106 Year Reconstructed: 0000  
 33 Bridge Medium: 0  
 34 Skew: 00  
 35 Structure Flared: 0  
 38 Navigation Control: 0  
 213 Special Steel Design: 0  
 267 Type of Paint: 0  
 \*42 Type of Service On: 1  
 Type of Service Under: 5  
 214 Movable Bridge: 0  
 203 Type Bridge: 0  
 259 Pile Encasement 3  
 \*43 Structure Type Main: 1 04  
 45 No.Spans Main: 004  
 44 Structure Type Appr: 0 00  
 46 No Spans Appr: 0000  
 226 Bridge Curve Horz 1 Vert: 1  
 111 pier Protection 0  
 107 Deck Structure Type: 1  
 108 Wearing Structure Type: 1  
 Membrane Type: 8  
 Deck Protection: 8

**Signs & Attachments**

225 Expansion Joint Type: 02  
 242 Deck Drains: 1  
 243 Parapet Location: 0  
 Height: 0  
 Width: 0  
 238 Curb Height: 1  
 Curb Material: 1  
 239 Handrail 11  
 \*240 Medium 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: 55  
 236 Warning Sign: 1.00  
 234 Delineator: 1.00  
 235 Hazzard 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



Processed Date:5/3/2011

# Bridge Inventory Data Listing

Parameters: Bridge Serial Num

Structure ID:037-0015-0

Programming Data		Measurements:				
201 Project No:	S-0526 (3)	*29ADT	001460	Year:2007	65 Inventory Rating Method:	1
202 Plans Available:	4	109%Trucks:	0		63 Operating Rating Method:	1
249 Prop Proj No:	0009862	* 28 Lanes On:	02	Under:00	66 Inventory Type:	2 Rating: 12
250 Approval Status:	0000	210 No. Tracks On:	00	Under:00	64 Operating Type:	2 Rating: 12
251 PI Number:	0009862	* 48 Max. Span Length	0032		231 Calculated Loads:	
252 Contract Date:	02/01/1901	* 49 Structure Length:	128		H-Modified:	17 1
260 Seismic No:	00000	51 Br. Rwdy. Width	23.70		HS-Modified:	23 1
75 Type Work:	34 1	52 Deck Width:	30.00		Type 3:	18 1
94 Bridge Imp. Cost:	\$111	* 47 Tot. Horiz. Cl:	24		Type 3s2:	29 1
95 Roadway Imp. Cost:	45	50 Curb / Sidewalk Width	2.00 / 2.00		Timber:	25 1
96 Total Imp Cost:	213	32 Approach Rdwy. Width	024		Piggyback:	40 0
76 Imp Length:	000339	*229 Shoulder Width:			261 H Inventory Rating:	09
97 Imp Year:	1990	Rear Lt:	4.50	Type:8 Rt:3.80	262 H Operating Rating	15
114 Future ADT:	002190	Fwd. Lt:	4.00	Type:8 Rt:4.20	67 Structural Evaluation:	2
		Permanent Width:			58 Deck Condition:	7
		Rear:	24.00	Type:8	59 Superstructure Condition:	7
			24.00	Type:2	* 227 Collision Damage:	0
		Intersaction Rear:	0	Fwd: 0	60A Substructure Condition:	7
		36 Safety Features Br. Rail:	2		60B Scour Condition:	8
		Transition:	2		60C Underwater Condition	N
		App. G. Rail:	2		71 Waterway Adequacy:	8
		App. Rail End:	1		61 Channel Protection Cond.:	7
		53 Minimum Cl. Over:	99' 99 "		68 Deck Geometry:	3
		Under:			69 UnderClr. Horz/Vert:	N
		*228 Minimum Vertical Cl			72 Appr. Alignment:	7
		Act. Odm Dir.:	99' 99"		62 Culvert:	N
		Oppo. Dir:	99' 99"		<b>Posting Data</b>	
		Posted Odm. Dir:	00' 00"		70 Bridge Posting Required	0
		Oppo. Dir:	00' 00"		41 Struct Open, Posted, CL:	P
		55 Lateral Undercl. Rt:	N 0 0		* 103 Temporary Structure:	0
		56 Lateral Undercl. Lt:	0.00		232 Posted Loads	
		*10 Max Min Vert Cl:	99' 99" Dir:0		H-Modified:	17
		39 Nav Vert Cl:	000 Horiz:0000		HS-Modified:	23
		116 Nav Vert Cl Closed:	000		Type 3:	18
		245 Deck Thickness Main	5.50		Type 3s2:	29
		Deck Thick Approach:	0.00		Timber:	25
		246 Overlay Thickness:	0.00		Piggyback	00
		212 Year Last Painted:	Sup:0000Sub:0000		253 Notification Date:	02/01/1901
					258 Fed Notify Date:	2/1/1901 12:00:00AM

# Bridge Inventory Data Listing



Parameters: Bridge Serial Num

Structure ID:037-0016-0

Calhoun

SUFF. RATING: 55.65

**Location & Geography**

**Structure ID:** 037-0016-0  
 200 Bridge Information: 06  
 \*6A Feature Int: ICHAWAYNOCHAWAY  
 \*6B Critical Bridge: CPFFK  
 0  
 \*7A Route No Carried: SR00045  
 \*7B Facility Carried: SR 45  
 9 Location: 4 MI NE OF MORGAN  
 2 Dot District: 4  
 207 Year Photo: 2011  
 \*91 Inspection Frequency: 24 Date: 01/27/2011  
 92A Fract Crit Insp Freq: 0 Date: 02/01/1901  
 92B Underwater Insp Freq: 1 Date: 02/28/2008  
 92C Other Spc. Insp Freq: 0 Date: 02/01/1901  
 \* 4 Place Code: 00000  
 \*5 Inventory Route(O/U): 1  
 Type: 3  
 Designation: 1  
 Number: 00045  
 Direction: 0  
 \*16 Latitude: 31 35.3433 HMMS Prefix:SR  
 \*17 Longitude: 84 -33.8288 HMMS Suffix:00 MP:17.15  
 98 Border Bridge: 000%Shared:00  
 99 ID Number: 0000000000000000  
 \*100 STRAHNET: 0  
 12 Base Highway Network: 1  
 13A LRS Inventory Route: 371004500  
 13B Sub Inventory Route: 0  
 101 parallel Structure: N  
 \*102 Direction of Traffic: 2  
 \*264 Road Inventory Mile Post: 016.58  
 \*208 Inspection Area: 4 Initials: EFP  
 Engineer's Initials: kww  
 \* Location ID No: 037-00045D-017.15N

\*104 Highway System: 0  
 \*26 Functional Classification: 07  
 \*204 Federal Route Type: S No: 00524  
 105 Federal Lands Highway: 0  
 \*110 Truck Route: 0  
 2006 School Bus Route: 1  
 217 Benchmark Elevation: 0228.00  
 218 Datum: 2  
 \*19 Bypass Length: 20  
 \*20 Toll: 3  
 \*21 Maintenance: 01  
 \*22 Owner: 01  
 \*31 Design Load: 2  
 37 Historical Significance: 5  
 205 Congressional District: 02  
 27 Year Constructed: 1953  
 106 Year Reconstructed: 0000  
 33 Bridge Medium: 0  
 34 Skew: 00  
 35 Structure Flared: 0  
 38 Navigation Control: 0  
 213 Special Steel Design: 0  
 267 Type of Paint: 0  
 \*42 Type of Service On: 1  
 Type of Service Under: 5  
 214 Movable Bridge: 0  
 203 Type Bridge: A  
 259 Pile Encasement 3  
 \*43 Structure Type Main: 1 04  
 45 No.Spans Main: 004  
 44 Structure Type Appr: 0 00  
 46 No Spans Appr: 0000  
 226 Bridge Curve Horz 1 Vert: 1  
 111 pier Protection 0  
 107 Deck Structure Type: 1  
 108 Wearing Structure Type: 1  
 Membrane Type: 0  
 Deck Protection: 0

**Signs & Attachments**

225 Expansion Joint Type: 02  
 242 Deck Drains: 1  
 243 Parapet Location: 0  
 Height: 0  
 Width: 0  
 238 Curb Height: 1  
 Curb Material: 1  
 239 Handrail 11  
 \*240 Medium Barrier Rail: 0  
 241 Bridge Median Height: 0  
 \* Bridge Median Width: 0  
 230 Guardrail Loc. Dir. Rear: 3  
 Fwr: 3  
 Oppo. Dir. Rear: 0  
 Oppo. Fwr: 0  
 244 Approach Slab 3  
 224 Retaining Wall: 1  
 233 Posted Speed Limit: 55  
 236 Warning Sign: 1.00  
 234 Delineator: 1.00  
 235 Hazzard 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



Processed Date:9/6/2011

# Bridge Inventory Data Listing

Parameters: Bridge Serial Num

Structure ID:037-0016-0

Programming Data		Measurements:				
201 Project No:	SAP 1661-A (13)	*29ADT	001460	Year:2007	65 Inventory Rating Method:	2
202 Plans Available:	4	109%Trucks:	0		63 Operating Rating Method:	2
249 Prop Proj No:	0009862	* 28 Lanes On:	02	Under:00	66 Inventory Type:	2 Rating: 23
250 Approval Status:	0000	210 No. Tracks On:	00	Under:00	64 Operating Type:	2 Rating: 23
251 PI Number:	0009862	* 48 Max. Span Length	0033		231 Calculated Loads:	
252 Contract Date:	02/01/1901	* 49 Structure Length:	132		H-Modified:	20 0
260 Seismic No:	00000	51 Br. Rwdy. Width	26.00		HS-Modified:	25 0
75 Type Work:	34 1	52 Deck Width:	32.00		Type 3:	28 0
94 Bridge Imp. Cost:	\$101	* 47 Tot. Horiz. Cl:	26		Type 3s2:	40 0
95 Roadway Imp. Cost:	225	50 Curb / Sidewalk Width	2.00 / 2.00		Timber:	36 0
96 Total Imp Cost:	403	32 Approach Rdwy. Width	024		Piggyback:	40 0
76 Imp Length:	001452	*229 Shoulder Width:			261 H Inventory Rating:	15
97 Imp Year:	1990	Rear Lt:	3.00	Type:8 Rt:6.20	262 H Operating Rating	27
114 Future ADT:	002190	Fwd. Lt:	5.00	Type:8 Rt:6.10	67 Structural Evaluation:	5
		Permanent Width:			58 Deck Condition:	5
		Rear:	24.00	Type:8	59 Superstructure Condition:	5
			24.00	Type:2	* 227 Collision Damage:	0
		Intersaction Rear:	0	Fwd: 1	60A Substructure Condition:	6
		36 Safety Features Br. Rail:	2		60B Scour Condition:	6
		Transition:	2		60C Underwater Condition	7
		App. G. Rail:	1		71 Waterway Adequacy:	8
		App. Rail End:	1		61 Channel Protection Cond.:	8
		53 Minimum Cl. Over:	99' 99 "		68 Deck Geometry:	4
		Under:			69 UnderClr. Horz/Vert:	N
		*228 Minimum Vertical Cl			72 Appr. Alignment:	5
		Act. Odm Dir.:	99' 99"		62 Culvert:	N
		Oppo. Dir:	99' 99"		<b>Posting Data</b>	
		Posted Odm. Dir:	00' 00"		70 Bridge Posting Required	4
		Oppo. Dir:	00' 00"		41 Struct Open, Posted, CL:	P
		55 Lateral Undercl. Rt:	N 0 0		* 103 Temporary Structure:	0
		56 Lateral Undercl. Lt:	0.00		232 Posted Loads	
		*10 Max Min Vert Cl:	99' 99" Dir:0		H-Modified:	15
		39 Nav Vert Cl:	000 Horiz:0000		HS-Modified:	20
		116 Nav Vert Cl Closed:	000		Type 3:	16
		245 Deck Thickness Main	7.50		Type 3s2:	26
		Deck Thick Approach:	0.00		Timber:	22
		246 Overlay Thickness:	0.00		Piggyback	34
		212 Year Last Painted:	Sup:0000Sub:0000		253 Notification Date:	02/01/1901
					258 Fed Notify Date:	2/1/1901 12:00:00AM

R = 818.51'

BUSINESS

R = 2,291.80'

WEST BRIDGE

POTENTIAL  
HISTORICAL  
RESOURCE

OPEN  
WATER

POTENTIAL  
HISTORICAL  
RESOURCE

R = 2,864.80'

EAST BRIDGE

POTENTIAL  
HISTORICAL  
RESOURCE

R = 716.20'

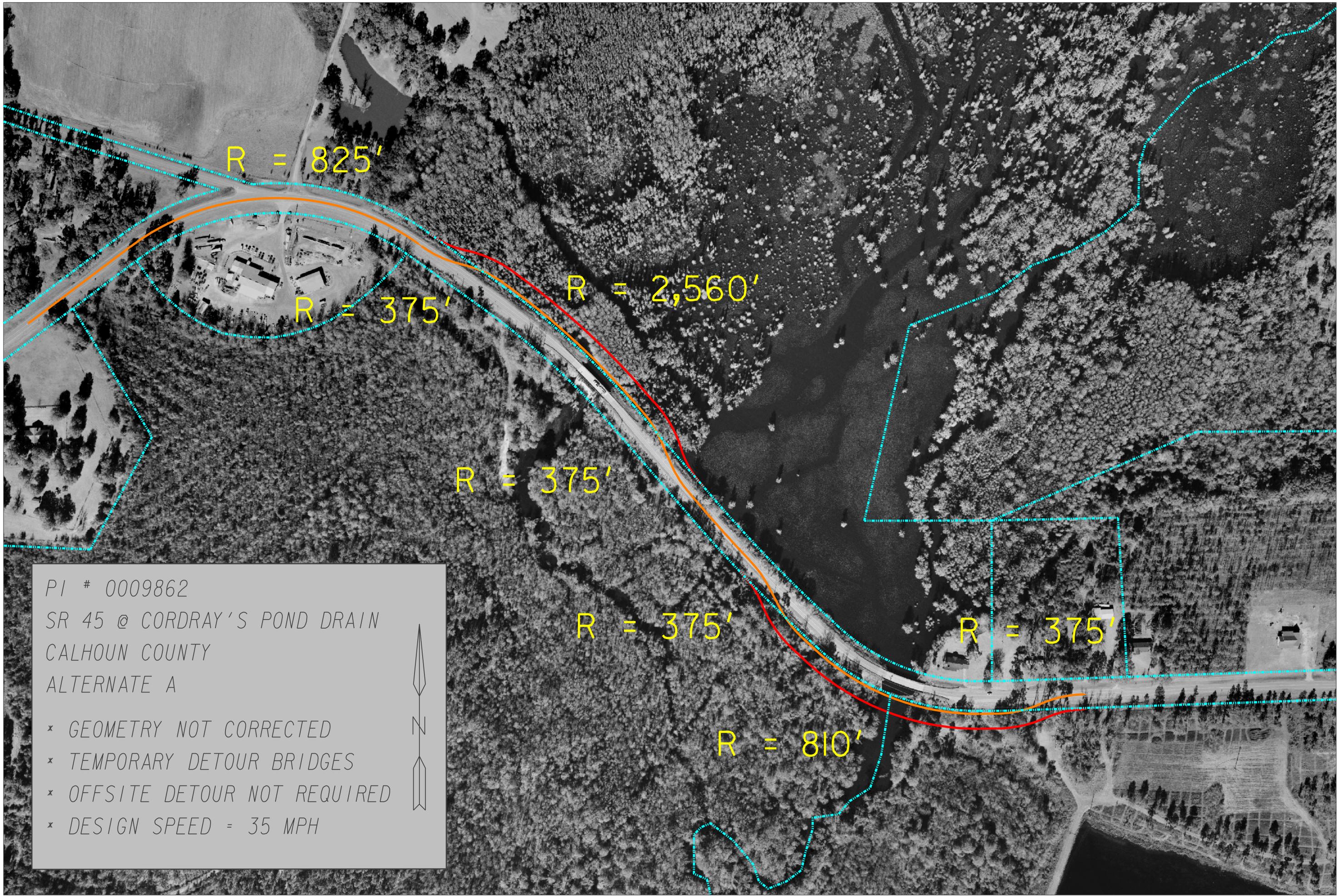
PI # 0009862

SR 45 @ CORDRAY'S POND DRAIN

CALHOUN COUNTY

EXISTING ALIGNMENT





PI # 0009862

SR 45 @ CORDRAY'S POND DRAIN

CALHOUN COUNTY

ALTERNATE A

\* GEOMETRY NOT CORRECTED

\* TEMPORARY DETOUR BRIDGES

\* OFFSITE DETOUR NOT REQUIRED

\* DESIGN SPEED = 35 MPH



R = 825'  
SE = 6%

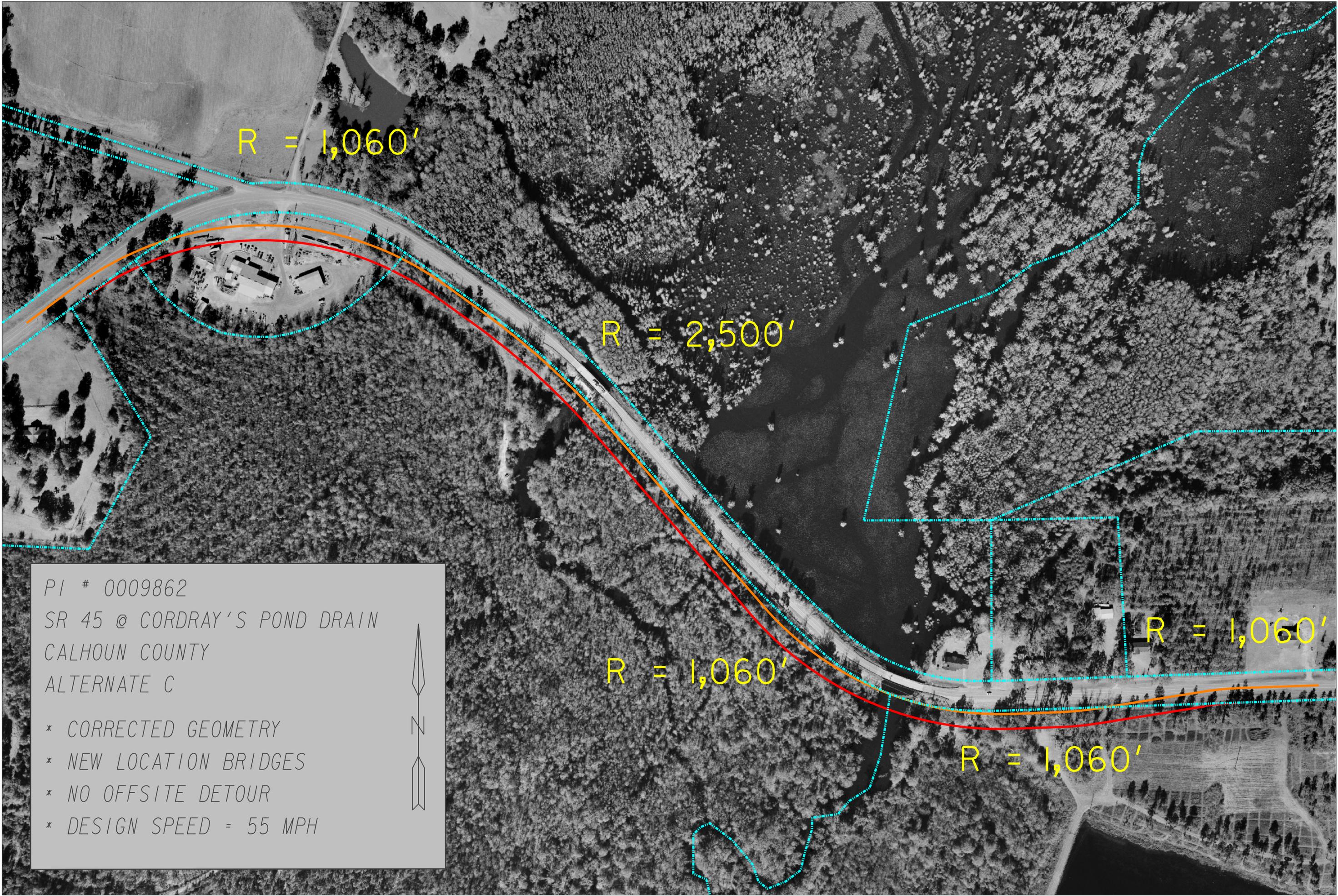
R = 2,500'  
SE = 6%

R = 1,100'  
SE = 6%

PI # 0009862  
SR 45 @ CORDRAY'S POND DRAIN  
CALHOUN COUNTY  
ALTERNATE B-REVISED

- \* GEOMETRY PARTIALLY CORRECTED
- \* OFFSITE DETOUR REQUIRED
- \* DESIGN SPEED = 55 MPH





R = 1,060'

R = 2,500'

R = 1,060'

R = 1,060'

R = 1,060'

PI # 0009862  
 SR 45 @ CORDRAY'S POND DRAIN  
 CALHOUN COUNTY  
 ALTERNATE C

- \* CORRECTED GEOMETRY
- \* NEW LOCATION BRIDGES
- \* NO OFFSITE DETOUR
- \* DESIGN SPEED = 55 MPH



PI # 0009862

SR 45 @ CORDRAY'S POND DRAIN

CALHOUN COUNTY

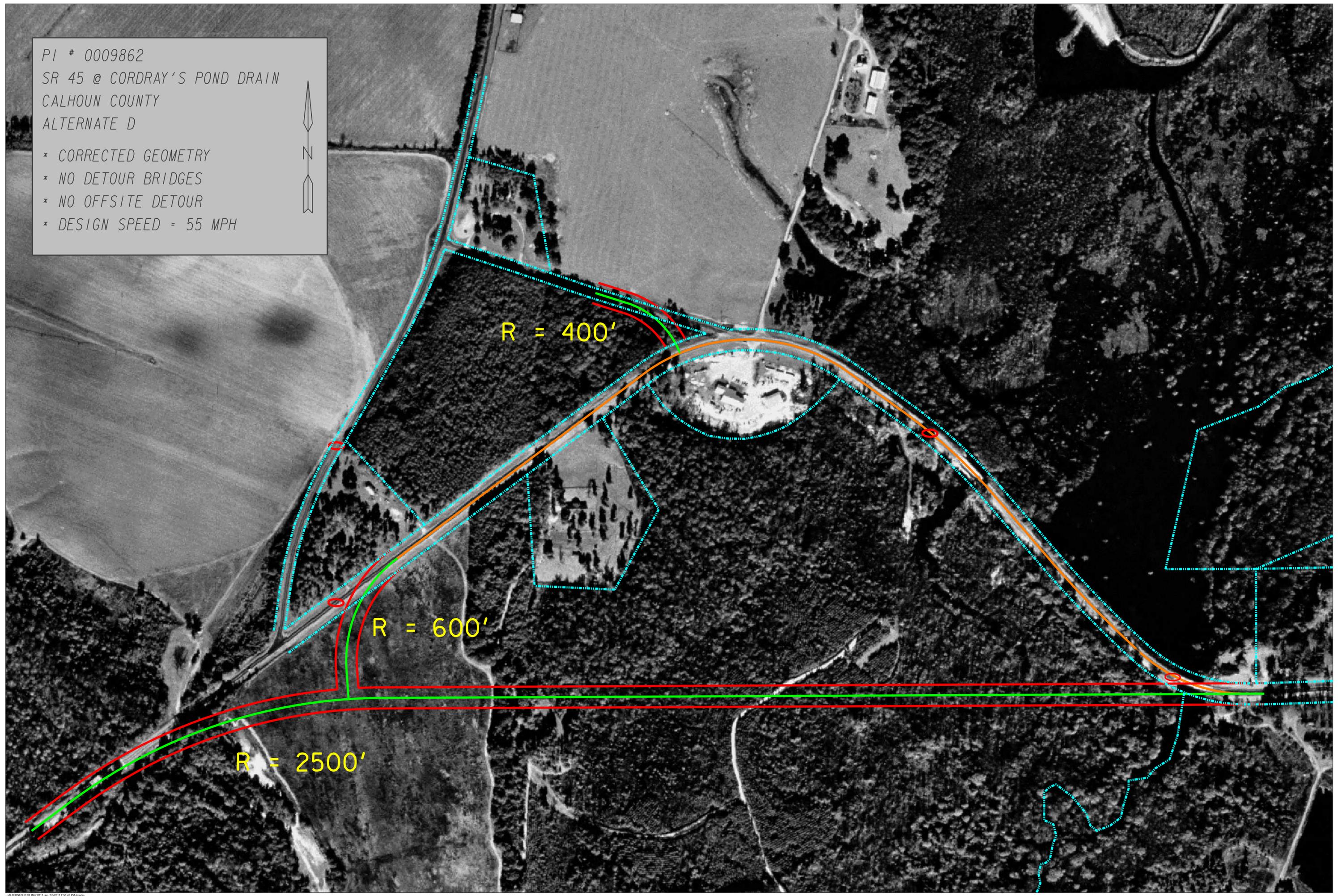
ALTERNATE D

\* CORRECTED GEOMETRY

\* NO DETOUR BRIDGES

\* NO OFFSITE DETOUR

\* DESIGN SPEED = 55 MPH



PI \* 0009862  
 SR 45 @ CORDRAY'S POND DRAIN  
 CALHOUN COUNTY

**\*\*EXISTING MAJOR\*\***  
**\*\*TRAFFIC MOVEMENT\*\***

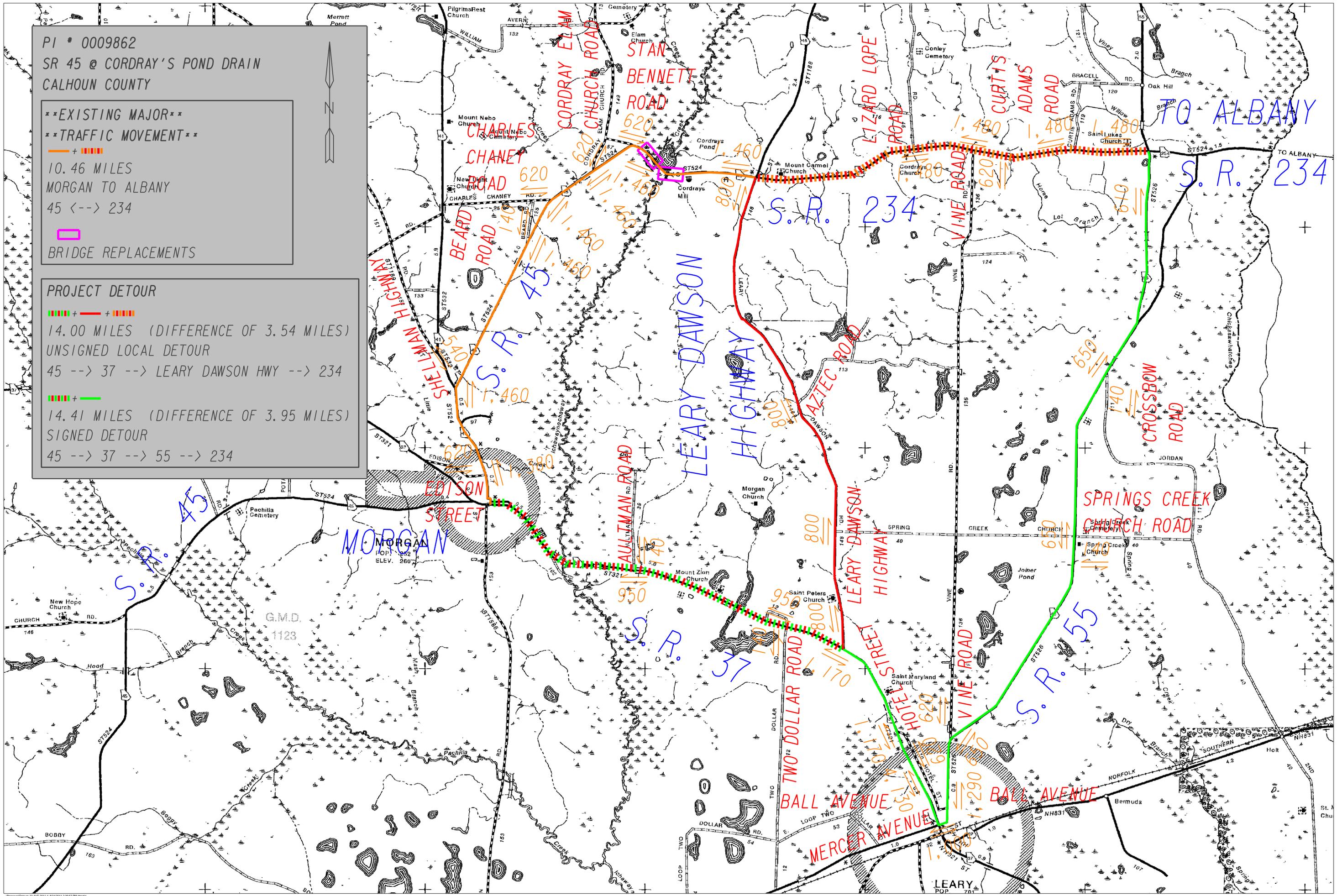
10.46 MILES  
 MORGAN TO ALBANY  
 45 <--> 234

BRIDGE REPLACEMENTS

**PROJECT DETOUR**

14.00 MILES (DIFFERENCE OF 3.54 MILES)  
 UNSIGNED LOCAL DETOUR  
 45 --> 37 --> LEARY DAWSON HWY --> 234

14.41 MILES (DIFFERENCE OF 3.95 MILES)  
 SIGNED DETOUR  
 45 --> 37 --> 55 --> 234



PI # 0009862  
SR 45 @ CORDRAY'S POND DRAIN  
CALHOUN COUNTY

BRIDGE REPLACEMENTS



PROJECT DETOUR



LENGTH OF DETOUR: 14.41 MILES

ADDITIONAL LENGTH DUE TO DETOUR: 3.95 MILES

PROJECT SITE  
BRIDGES CLOSED

END SIGNED DETOUR  
TO ALBANY

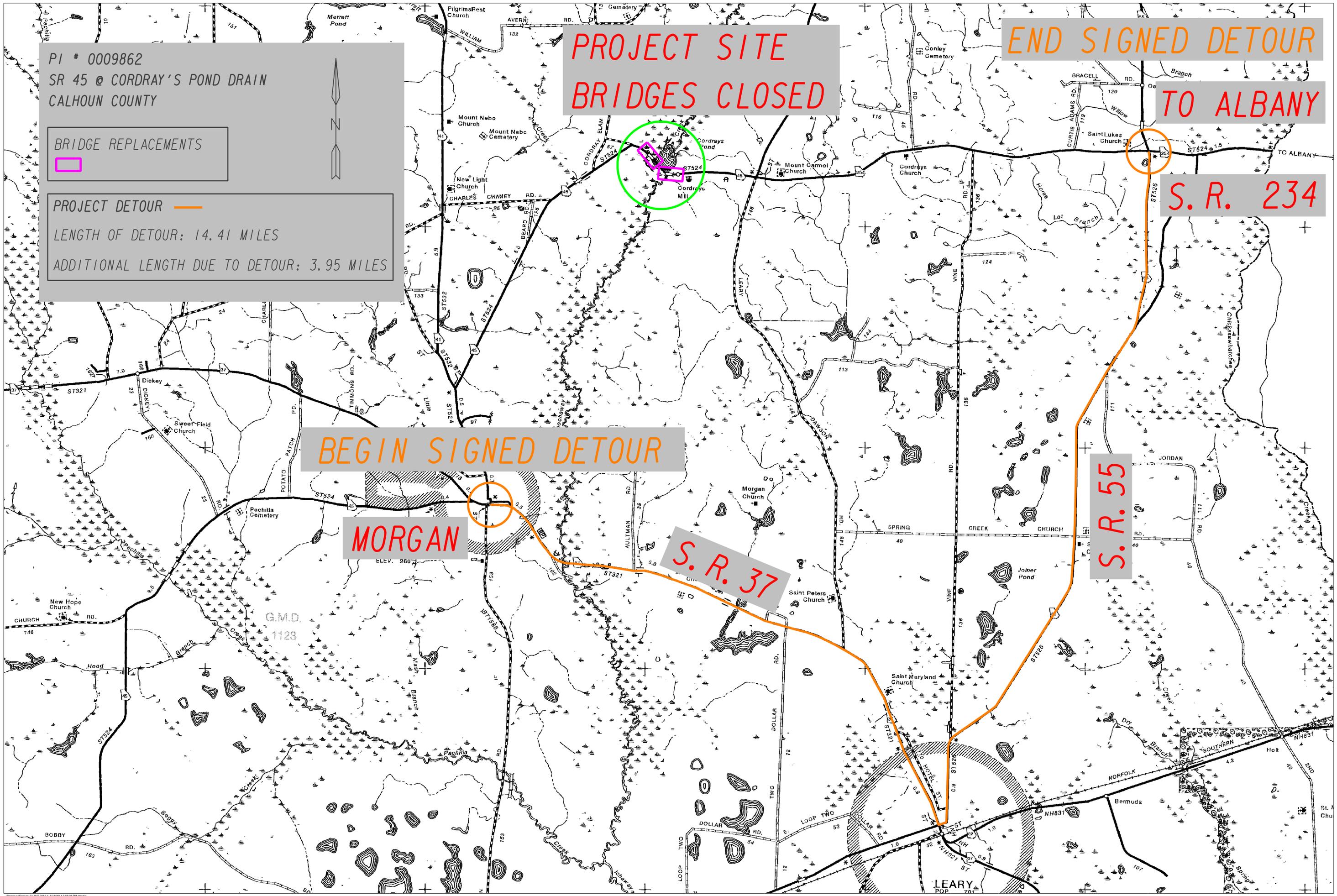
S. R. 234

BEGIN SIGNED DETOUR

MORGAN

S. R. 37

S. R. 55



**SUBJECT:** Initial Concept Team Meeting Minutes  
PI NO. 0009862, Calhoun County  
SR 45 @ CORDRAY'S POND DRAIN

**LOCATION:** An Initial Concept Team meeting was held on June 9, 2011 at 9:00 AM at the GDOT General Office in Room 409 and via video conference with District 4 attendees in Tifton, GA.

**ATTENDEES:** A list of meeting attendees is provided at the end of the meeting minutes.

**PURPOSE:**

- 1) Present the Draft Concept Report; preferred concept and alternatives
- 2) Obtain feedback and identify any issues
- 3) Discuss Schedule
- 4) Determine next steps

**Meeting Minutes Provided By: Chandria L. Brown, Project Manager  
GDOT – Office of Program Delivery**

**Notes below summarize discussions and decisions from the meeting.**

1. Chandria L. Brown conducted the meeting, and opened the meeting with the following information:
  - General Project Description – Bridge Replacements for SR 45 @ Cordray's Pond Drain; SR 45 @ Ichawaynochaway Creek.
  - Sign-In sheets located at the General Office and at the District 4 Office
  - Rdwy Design would be presenting the conceptual project information that was provided in the Initial Concept Team Meeting (ICTM) Package when the meeting invitations were sent.
  - Meeting Minutes to be provided by Chandria L. Brown.
  - An Agenda was available at the General Office and at the District 4 locations.
2. After the previous information was provided by Chandria L. Brown, she proceeded to request that every attendee at the General Office & District 4 Office introduce themselves and state their organization and affiliation with the project. Chandria confirmed with the District 4 attendees that Calhoun County Commission representatives were present.
3. Chandria then proceeded to reiterate the project's description. She informed all present that the project that is currently programmed for replacement under PI 0009862 is the SR45 @ Cordray's Pond Drain. The SR 45 @ Ichawaynochaway Creek was added as requested by Bridge Design during the Schedule Review and during initial coordination. As of the date of the ICTM, the Ichawaynochaway Creek Bridge is not eligible for Bridge funds however,

previous correspondence with Bridge Design indicated that the bridge maybe come eligible after its next inspection.

4. Chandria then proceeded to go over the project's current schedule. The Project is scheduled for Right of Way Authorization 02/07/2014; and a Management LET Date 08/15/2015. It was also noted that in recent Quarterly Meetings, bridge replacement project scheduled should and can be streamlined and therefore, delivered sooner than projects with standard durations.
5. The meeting was turned over to Drew Martin of Roadway Design to present the presentation that Roadway Design had prepared for the Initial Concept Team Meeting. This presentation included: the Location Map; Pictures of the project location; Need and Purpose Statement as provided by Bridge Maintenance; Existing Design Criteria; Proposed Design Criteria for the preferred proposed design and the alternate design considerations; and Detour Route information. During the presentation there were some comments for clarification of the project information being presented. The Preferred Design as presented in the presentation and within the ICTM package was to replace the bridges in their existing locations utilizing detour routes during construction.

Key points from the presentation were as follows:

- Potential Historical Resources located near both bridges.
  - Design Exceptions/Variances will be required for the Preferred Alternate
  - Detour Route is possible utilizing all State Route designated roadways – overall loop approximately 23 miles; Truck traffic cannot be accommodated on Leary Dawson Hwy
  - No Utilities are located on either bridge. All utilities are aerial.
  - Control Gate located to the South of the SR 45/Ichawaynochaway Creek Bridge
  - Spillway connected to the SR45/Cordray's Pond Drain Bridge
  - The approved traffic information indicates 12.5% Trucks
6. During the Roadway Design presentation, the following comments were noted:
    - Keisha Jackson stated that the half an hour detour could result in turning this project's Environmental Document into an EA/FONSI rather than the CE that is expected. She asked about a route for cars and a mandatory route for trucks.
    - Brent Thomas stated that it is preferred that the detour stay on the State Route System due to local roads possibly not being compliant with State Route safety standards. All signage should remain for the usage of State Routes.
    - David Acree clarified that the detour route length of approximately 23 miles is a loop and that travelers can travel shorter distances depending on their destination.

- Stanley Hill stated that it is important that we clarify with FHWA that we will detour only the State Routes. Chandria added that we need to add further verbiage within the Draft CR emphasizing the detour route.
7. Following the Roadway Design presentation, the District was asked to provide any comments regarding the presentation.
- Brent Thomas initiated a discussion regarding the alternates.
  - Stanley Hill stated that the objective of concept is to replace the bridges in their existing locations and obtain design exceptions/variances as needed. The alternatives are provided but it should be understood that bridge funds will only pay for the replacement of the bridges.
  - The District acknowledged Stanley Hill's assessment of the concept.
8. Bridge Design was asked to comment.
- Bill Ingalsbe stated his concurrence with Stanley Hill's previous assessment. It is desirable to keep the project as short as possible since it is a bridge project.
  - Chandria reiterated that the West Bridge (Cordray's Pond Drain) is currently the only bridge that can be paid for utilizing bridge funds. The East Bridge needs to be officially programmed for bridge funds or another funding source would have to be identified.
  - Stanley Hill asked for further clarification regarding the typical section. David Acree said that design would taper down to the existing roadway conditions. Bill Ingalsbe said width of bridge could be up to 40' wide.
  - Stanley Hill stated that at a prior meeting he attended with Bridge Design, it was noted that the bridge funds will only pay for the bridge and only the length of roadway associated with the guardrail tie-ins.
9. Chandria asked the District if anyone from Right of Way was present at the District.
- Brent Thomas stated there was no R/W representative. However, no R/W issues are anticipated at this time.
10. Chandria asked the District if Utilities would provide input.
- It was noted that the Utility Owners within the vicinity of the project are Pataula EMC and Telecom Windstream. Total Non-Reimbursable cost of \$90, 104.42.
  - All utilities are aerial. No utilities are on the bridges.
11. Chandria asked Environmental to provide their input.
- Heather Mustonen mentioned that Environmental would like to Task out the Archeology. Chandria told Heather that she needs to provide information regarding the Task Order

and to be mindful of the goal to streamline the schedule. Heather stated that an earlier initiation of the Task Order is requested.

- Zoe Chamberlain spoke on behalf of the Ecology Specialist, Sharilyn Meyers. She noted that Ecology may need a formal Section 7 for the mussels and the area could be designated as critical habitat. Zoe explained that critical habitat would take 145 days for review at FHWA and first thing needed is an Aquatic Survey. The Aquatic Survey can be completed between now and November. A Task Order for Ecology was also requested. Zoe said she would provide more specific information regarding the needed Task Order to the Project Mgr, Chandria Brown.
- Stanley Hill asked how the schedule and budget were established. Chandria stated that the current schedule is based on In-house services except for the Database Survey.
- Keisha stated the current 18 month schedule for Environmental approval is still feasible. The critical path item is performing the Aquatic Survey during the time can be completed.
- Environmental needs to consult with the Ecologist in order to determine what is needed for the Aquatic Survey.
- Stanley Hill reiterated that we need to address the critical Environmental tasks in order to still accomplish a streamlined schedule. A team meeting will be called.
- Keisha Jackson said Air Quality should be a screening. If the Existing alignment design is maintained, then the Noise could possibly be a screening assessment as well. An encroachment less than or greater than 50% horizontally & vertically will determine the whether the project needs full Noise modeling or not.
- Keisha Jackson also stated we need a detour meeting. The meeting should be held prior to the NEPA determination. A possible outreach activity prior to construction should be expected.
- Keisha Jackson was asked about the Environmental document type. She said that it will be FHWA's decision. Keisha stated the project needs to get on the FHWA agenda for the meeting that's held between GDOT and FHWA on the 1<sup>st</sup> Thursday of every month. Jonathan Cox is the contact for getting the project on the agenda for the meeting with FHWA for the Env Doc type.
- District had no comments regarding the Environmental aspects.

12. Chandria proceeded to describe the one project she found within the immediate vicinity of the project.

PI No. 442951 – Bridge Replacement in Dougherty & Calhoun Counties – SR 234 @ Chickasawhatchee Creek 8 Miles NE of Leary. Located in NE Corner of Calhoun County approximately 7 miles from the project site for PI 0009862. – R/W Currently Long Range and Proposed for FY 2014; Construction Currently Long Range and Proposed for FY 2017 – No activity is noted in T-Pro

13. Chandria asked the District if they have any additional comments. The following dialogue resulted:

- District asked when the SR45/Ichawaynochaway Creek Bridge would be added to PI 0009862.
- Stanley Hill stated that it will be a part of the recommendation within the Concept Report.
- Bill Ingalsbe stated that Bill DuVall is coordinating the addition of the SR45/Ichawaynochaway Creek to this project.
- Chandria Brown and David Acree stated that based on their previous correspondence with Bridge Design, the process to add the SR45/Ichawaynochaway Creek Bridge to this project is already underway.
- Zoe Chamberlain noted that if the SR 45/ Ichawaynochaway Creek Bridge is not added to the STIP + 2, then the Environmental Document will not be able to be reviewed by FHWA with that bridge included in the design.
- David Acree suggested moving forward as if the 2 bridges discussed today are one project with the expectation that both bridges will be programmed by the time the Environmental Document is up for review.
- Chandria Brown will follow-up with Bridge Design after the meeting for further clarification regarding the programming for the SR45/Ichawaynochaway Creek Bridge. At the moment, the intention is to move forward with scoping for both bridges for design and task order purposes.
- Chandria also noted during this dialogue that the Database Survey will be completed by Consultant Services.

14. Chandria asked the District if the local government representatives had any specific comments regarding the information that has been presented at the meeting.

- Calhoun County Representatives asked for further clarification regarding which bridge(s) would be included in this project.
  - Chandria Brown stated that we are moving forward with both bridges.
  - Stanley Hill clarified that if we can get the East Bridge programmed, both bridges will be included in the design for replacement. If the East Bridge is not programmed, then only the West Bridge will be included in this project for replacement.
  - Stanley Hill stated that Bridge Design is currently working on the programming for the East Bridge.
- Calhoun County Representatives then asked about the drainage for the bridges. The question was whether there would be any difference in design of the overflow system. The concern was for the control of the pond level during the bridge construction.
  - Bill Ingalsbe said that a new spillway would have to be built.

- It was noted that the Hydraulic Study would provide further insight for the drainage requirements during and after construction.
  - It was also noted that at this point, it is expected that the pond level will remain at its current location/level after construction is completed if the bridges are replaced in their current locations.
  - After this dialogue, Brent Thomas stated that the District representatives felt the spillway at the SR 45/Cordray's Pond Drain Bridge (West Bridge) is a part of the bridge.
15. Chandria asked Roadway Design to go over the conceptual construction cost estimates for each alternative. Drew Martin went through the cost estimates. It was anticipated that the least expensive design is the replacement of the bridges in their existing locations.
16. Chandria stated that the Concept Team Meeting is scheduled for October 2011. Since the second bridge at Ichawaynochaway Creek (West Bridge) is not officially programmed, we will hold the date for the Concept Team Meeting to decide how to address the bridge within the Concept Report to be submitted for approval.
17. Joe Sheffield stated that they believe the spillway is a part of the SR 45/Cordray's Pond Drain Bridge. The question was if the pond will be drained for a year or more during construction.
- Jason McCook stated that coffer dams would most likely be used during construction. We would probably build one bridge at a time to allow flow at the bridge not under construction at the time.
  - Joe Sheffield followed-up by asking if there would be any control other than the height of the coffer dams during construction. To which Jason McCook responded, the coffer dams would probably be the extent of the control. Jason also mentioned that potentially temporary piping may be utilized. Roadway Design will add the coffer dams and temporary piping to their estimates as the design progresses.
  - The District wanted to ensure that the drainage during construction is being considered.
18. Chandria Brown stated that since the consensus is that the bridge replacements remain on the existing alignments, the database survey task order will be initiated.
19. Chandria Brown then asked if there were any more comments in District or at the General Office. There were no additional comments.
20. Chandria Brown stated the Meeting Minutes will be sent out the following day and the attendees would be given a week to provide revisions to the minutes and additional comments.

Chandria Brown concluded the meeting.

**Additional Comments Submitted during the finalization of the ICTM minutes:**

Flood of 1994

Roadway Design posed the following question to the Brent Thomas who spoke with the Area Office: *Do you know if the West/East Bridges flooded in 1994?* Area Office response was that the roadway between the bridges collapsed. This roadway collapse is believed to have relieved the pressure. The bridges stayed intact.

Construction

Brent Thomas asked the Local Representatives about any additional comments: Local Government Representatives noted that some local landowners profit from the ponds in the area. They would like to ensure the pond is not drained during construction. In addition, the Irrigation Company west of the bridges may be negatively impacted if the pond were drained as well.

Roadway

Brent Thomas stated the following:

- Installing the minimum length of guardrail without building shoulders may not be feasible.
- The whole area is 2:1 sloped. Further consideration should be given to where to stop the guardrail and how to build the anchor pads.
- Further consideration needs to be given to the existing trees in the clear zone. This issue may require a Design Exception.
- There is a driveway on the southwest side of the East Bridge. Further consideration should be given as to how to maintain this driveway if the bridge, guardrail and slopes are lengthened.

**Next Steps**

- Proceed with Concept Development incorporating applicable comments and recommendations. This includes additional coordination with Bridge Design regarding programming the replacement of the SR45/Ichawaynochaway Creek Bridge. (On 06/21/11, Ben Rabun requested the project description change to formally include the SR45/Ichawaynochaway Creek Bridge)
- Prepare for and schedule Concept Team Meeting.(If needed)
- Revise schedule with the intention to streamline the durations.

**Meeting Attendees:**

<b>General Office - Room 409 – 600 West Peachtree Street, Atlanta, GA 30308</b>			
<b>Name</b>	<b>Organization</b>	<b>Phone</b>	<b>Email</b>
Chandria L. Brown	GDOT/Program Delivery	404-631-1580	<a href="mailto:chbrown@dot.ga.gov">chbrown@dot.ga.gov</a>
Drew Martin	GDOT/Roadway Design	404-631-1625	<a href="mailto:dmartin@dot.ga.gov">dmartin@dot.ga.gov</a>
Heather Mustonen	GDOT/Office of Env Svcs	404-631-1166	<a href="mailto:hmustonen@dot.ga.gov">hmustonen@dot.ga.gov</a>
Jason McCook	GDOT/Roadway	404-631-1606	<a href="mailto:jmccook@dot.ga.gov">jmccook@dot.ga.gov</a>
Bill Ingalsbe	GDOT/Bridge Design	404-631-1884	<a href="mailto:bingalsbe@dot.ga.gov">bingalsbe@dot.ga.gov</a>
Stanley Hill	GDOT/Program Delivery	404-631-1560	<a href="mailto:sthill@dot.ga.gov">sthill@dot.ga.gov</a>
Keisha Jackson	GDOT/Office of Env Svcs	404-631-1160	<a href="mailto:keijackson@dot.ga.gov">keijackson@dot.ga.gov</a>
Zoe Chamberlain	GDOT/Office of Env Svcs	404-631-1174	<a href="mailto:zchamberlain@dot.ga.gov">zchamberlain@dot.ga.gov</a>
David Acree	GDOT/Roadway Design	404-631-1627	<a href="mailto:dacree@dot.ga.gov">dacree@dot.ga.gov</a>
Tamaya Huff	GDOT/Office of Env Svcs – Air/Noise	404-631-1127	<a href="mailto:thuff@dot.ga.gov">thuff@dot.ga.gov</a>
<b>District 4 – 710 West 2<sup>nd</sup> Street, Tifton, GA 31793</b>			
<b>Name</b>	<b>Organization</b>	<b>Phone</b>	<b>Email</b>
Shane Pridgen	GDOT/ District 4 Planning & Programming	229-386-3045	<a href="mailto:spridgen@dot.ga.gov">spridgen@dot.ga.gov</a>
Richard West	Calhoun County Commission	229-835-2234	<a href="mailto:rewest@windstream.net">rewest@windstream.net</a>
CW Schramm	Calhoun County Commission	229-835-2537	
Brent Thomas	GDOT/Preconstruction	229-386-3300	<a href="mailto:bthomas@dot.ga.gov">bthomas@dot.ga.gov</a>
Dennis Carter	GDOT/District 4 Environmental	229-386-3046	<a href="mailto:decarter@dot.ga.gov">decarter@dot.ga.gov</a>
Joe W. Sheffield	GDOT/District 4 Engineer	229-386-3280	<a href="mailto:josheffield@dot.ga.gov">josheffield@dot.ga.gov</a>
Scott J. Chambers	GDOT/District 4 Construction	229-386-3304	<a href="mailto:schambers@dot.ga.gov">schambers@dot.ga.gov</a>
Ken Cheek	GDOT/District 4 Utilities	229-386-3288	<a href="mailto:kcheek@dot.ga.gov">kcheek@dot.ga.gov</a>

Greg Britton	GDOT/District 4 Area Office/Construction	229-732-3066	<a href="mailto:gbritton@dot.ga.gov">gbritton@dot.ga.gov</a>
Tim Warren	GDOT/District 4 Utilities	229-386-3288	<a href="mailto:twarren@dot.ga.gov">twarren@dot.ga.gov</a>
Geno Hasty	GDOT/District 4 Traffic Operations	229-386-3435	<a href="mailto:ghasty@dot.ga.gov">ghasty@dot.ga.gov</a>
Van Mason	GDOT/District 4 Traffic Operations	229-386-3435	<a href="mailto:vmason@dot.ga.gov">vmason@dot.ga.gov</a>



