

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #0009862 **OFFICE** Design Policy & Support
Calhoun County
GDOT District 4 - Tifton **DATE** June 9, 2014
SR 45 @ Cordrays Pond Drain & Overflow
Bridge Replacement

FROM  for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED LOCATION & DESIGN REPORT

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Glenn Bowman, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Andy Casey, State Roadway Design Engineer
Attn: Fletcher Miller, Design Group Manager
Jeff Fletcher, Location Bureau Chief
Joe Sheffield, District Engineer
Brent Thomas, District Preconstruction Engineer
Shane Pridgen, District Planning & Programming Engineer
William McCarter, Area Engineer - D4, A6
Aghdas Ghazi, Project Manager
BOARD MEMBER - 2nd Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**INTEROFFICE CORRESPONDENCE
LOCATION AND DESIGN REPORT**

FILE P.I. # 0009862 **OFFICE** Program Delivery
Calhoun County **DATE** 5/30/2014
Bridge Replacements - SR 45 at Cordrays Pond Drain
& Overflow

FROM Albert V. Shelby, State Program Delivery Engineer *Albert Shelby*

TO Brent Story, P.E., Design Policy & Support Administrator
Attn: Dave Peters, State Conceptual Design Group Manager

SUBJECT Request for Location and Design Approval

Description and Project Proposal: This project consists of two bridge replacements on existing alignment (SR45) East Bridge (Structure ID 037-0015-0) and West Bridge (Structure ID 037-0016-0), at Cordrays Pond on State Route 45 (Milepost 16.62 to 17.08. Project length of 0.464 mile) in Calhoun County and is 100 percent in Congressional District No. 2.

Concept Approval Date: November 1, 2011

Concept Update: None

Environmental Document

Document Type: Categorical Exclusion

Approval Date: 5/30/2014

Temporary State Route Needed: No Yes Undetermined

Public Involvement: A Public Information Open House Detour Meeting was held on February 16, 2012 at the Calhoun County Board of Commissioners Office in Morgan, Georgia.

- o See attached comments summary.

Consistency with Approved Planning: The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: Recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

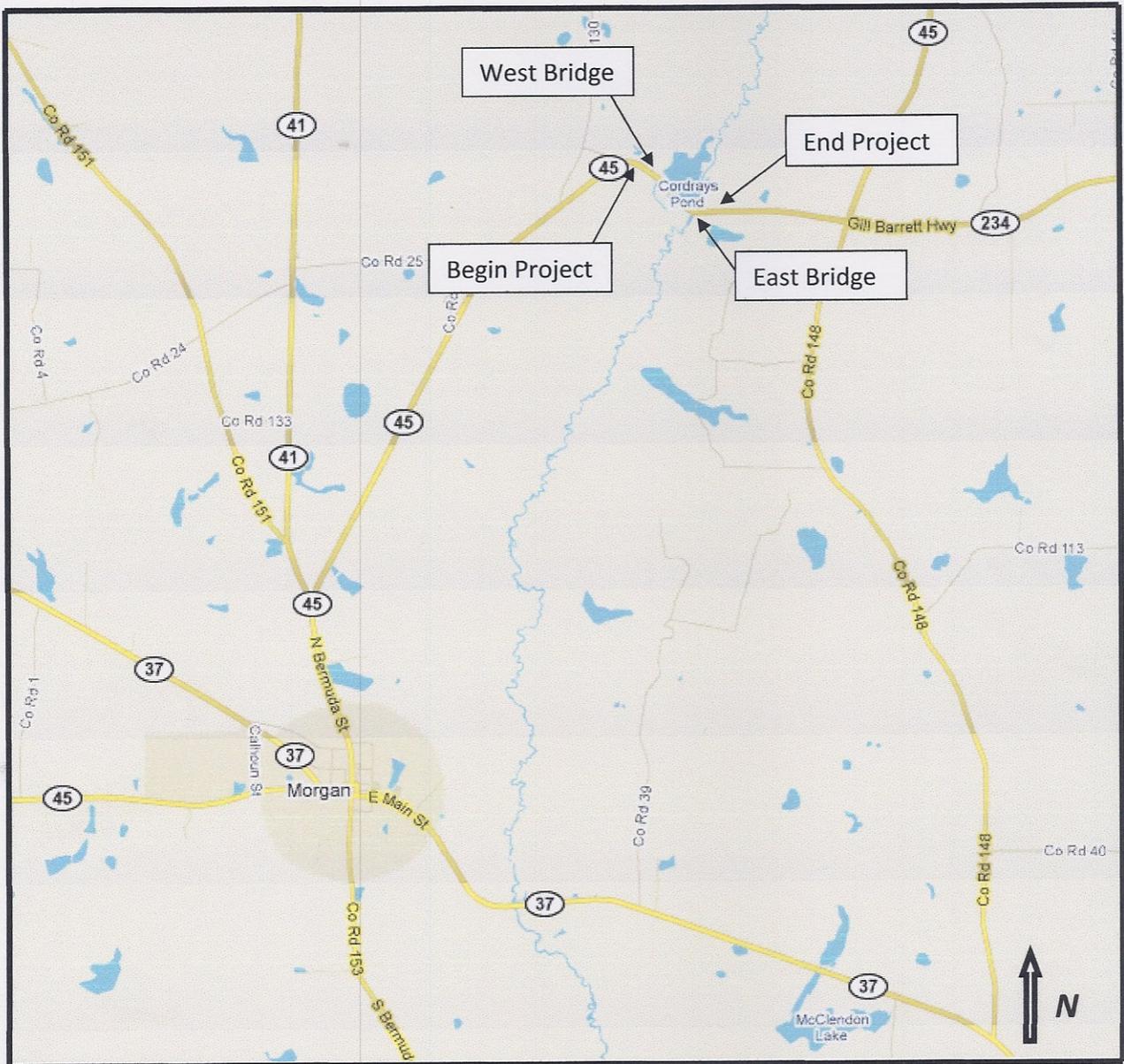
CONCUR: *Alan Bonum*
GDOT Director of Engineering

APPROVE: *Russell McHenry* ⁴⁷⁴ 6/6/14
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: June 9, 2014
(To be entered by State Conceptual Design Group Manager)

Attachments:

- Sketch Map
- Construction Cost Estimate
- PIOH Detour Meeting Comments Summary
- Notice of Location and Design Approval



Project Location Map

PI# 0009862

Calhoun County

Bridge Replacements at Cordrays Pond

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	\$50,000.00000	TRAFFIC CONTROL - PI#0009862	\$50,000.00
0010	153-1300	1.000	EA	\$70,000.00000	FIELD ENGINEERS OFFICE TP 3	\$70,000.00
0009	210-0100	1.000	LS	\$153,000.00000	GRADING COMPLETE - PI#0009862	\$153,000.00
0020	310-1101	1523.000	TN	\$20.00000	GR AGGR BASE CRS, INCL MATL	\$30,460.00
0043	402-1812	50.000	TN	\$92.25000	RECYL AC LEVELING, INC BM&HL	\$4,612.50
0035	402-3121	463.000	TN	\$83.50000	RECYL AC 25MM SP, GP1/2, BM&HL	\$38,660.50
0023	402-3130	487.000	TN	\$79.10145	RECYL AC 12.5MM SP, GP2, BM&HL	\$38,522.41
0030	402-3190	309.000	TN	\$85.00000	RECYL AC 19 MM SP, GP 1 OR 2, INC BM&HL	\$26,265.00
0040	413-1000	113.000	GL	\$3.50000	BITUM TACK COAT	\$395.50
0044	432-5010	500.000	SY	\$8.00000	MILL ASPH CONC PVMT, VARB DEPTH	\$4,000.00
0045	433-1000	577.000	SY	\$160.00000	REINF CONC APPROACH SLAB	\$92,320.00
0079	436-1000	602.000	LF	\$10.12789	ASPH CONC CURB - PI#0009862	\$6,096.99
0080	641-1100	168.000	LF	\$57.30000	GUARDRAIL, TP T	\$9,626.40
0085	641-1200	1323.000	LF	\$17.75000	GUARDRAIL, TP W	\$23,483.25
0090	641-5001	4.000	EA	\$675.00000	GUARDRAIL ANCHORAGE, TP 1	\$2,700.00
0095	641-5012	4.000	EA	\$2,135.00000	GUARDRAIL ANCHORAGE, TP 12	\$8,540.00
SUBTOTAL FOR ROADWAY:						\$558,682.55

0020 - TEMPORARY EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0100	163-0232	1.000	AC	\$600.00000	TEMPORARY GRASSING	\$600.00
0105	163-0240	39.000	TN	\$250.00000	MULCH	\$9,750.00
0110	163-0300	2.000	EA	\$1,200.00000	CONSTRUCTION EXIT	\$2,400.00
0127	163-0527	7.000	EA	\$270.80770	CNST/REM RIP RAP CKDM, STN P RIPRAP/SN BG	\$1,895.65
0128	163-0528	432.000	LF	\$4.02179	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$1,737.41
0120	165-0030	4768.000	LF	\$1.00000	MAINT OF TEMP SILT FENCE, TP C	\$4,768.00
0129	165-0041	432.000	LF	\$0.79701	MAINT OF CHECK DAMS - ALL TYPES	\$344.31
0125	165-0101	2.000	EA	\$700.00000	MAINT OF CONST EXIT	\$1,400.00
0130	167-1000	4.000	EA	\$500.00000	WATER QUALITY MONITORING AND SAMPLING	\$2,000.00
0135	167-1500	18.000	MO	\$500.00000	WATER QUALITY INSPECTIONS	\$9,000.00
0143	170-2000	894.000	LF	\$7.16006	STAKED SILT RETENTION BARRIER	\$6,401.09
0145	171-0030	9535.000	LF	\$4.00000	TEMPORARY SILT FENCE, TYPE C	\$38,140.00
0144	643-8200	500.000	LF	\$2.12000	BARRIER FENCE (ORANGE), 4 FT	\$1,060.00
SUBTOTAL FOR TEMPORARY EROSION CONTROL:						\$79,496.46

DETAILED COST ESTIMATE



Job: 0009862

0030 - PERMANENT EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0150	603-2181	73.000	SY	\$67.50000	STN DUMPED RIP RAP, TP 3, 18"	\$4,927.50
0155	603-7000	73.000	SY	\$4.03000	PLASTIC FILTER FABRIC	\$294.19
0160	700-6910	2.000	AC	\$1,000.00000	PERMANENT GRASSING	\$2,000.00
0165	700-7000	6.000	TN	\$65.00000	AGRICULTURAL LIME	\$390.00
0170	700-8000	5.000	TN	\$550.00000	FERTILIZER MIXED GRADE	\$2,750.00
0175	700-8100	200.000	LB	\$3.25000	FERTILIZER NITROGEN CONTENT	\$650.00
0180	716-2000	2745.000	SY	\$1.25000	EROSION CONTROL MATS, SLOPES	\$3,431.25
SUBTOTAL FOR PERMANENT EROSION CONTROL :						\$14,442.94

0040 - SIGNING AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0215	636-1020	50.000	SF	\$17.00000	HWY SGN,TP1MAT,REFL SH TP3	\$850.00
0220	636-2070	70.000	LF	\$8.30000	GALV STEEL POSTS, TP 7	\$581.00
0225	653-2501	1.000	LM	\$1,600.00000	THERMO SOLID TRAF ST, 5 IN, WH	\$1,600.00
0230	653-2502	1.000	LM	\$1,600.00000	THERMO SOLID TRAF ST, 5 IN YE	\$1,600.00
0235	657-1085	520.000	LF	\$6.00000	PRF PL SD PVT MKG,8",B/W,TP PB	\$3,120.00
0240	657-6085	520.000	LF	\$6.00000	PRF PL SD PVMT MKG,8",B/Y,TPPB	\$3,120.00
SUBTOTAL FOR SIGNING AND MARKING:						\$10,871.00

0050 - EAST BRIDGE - SR 45 OVER ICHAWAYNOCHAW

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0185	525-1000	1.000	EA	\$12,750.00000	COFFERDAM	\$12,750.00
0200	540-1102	1.000	LS	\$178,400.00000	REM OF EX BR, BR NO - 2	\$178,400.00
0210	543-9000	1.000	LS	\$642,263.00000	CONSTR OF BRIDGE COMPLETE - 2	\$642,263.00
SUBTOTAL FOR EAST BRIDGE - SR 45 OVER ICHAWAYNOCHAW CREEK:						\$833,413.00

0060 - WEST BRIDGE - SR 45 AT CORDRAYS POND DR

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0190	525-1000	1.000	EA	\$12,750.00000	COFFERDAM	\$12,750.00
0195	540-1102	1.000	LS	\$178,400.00000	REM OF EX BR, BR NO - 1	\$178,400.00
0205	543-9000	1.000	LS	\$642,263.00000	CONSTR OF BRIDGE COMPLETE - 1	\$642,263.00
SUBTOTAL FOR WEST BRIDGE - SR 45 AT CORDRAYS POND DRAIN:						\$833,413.00

TOTALS FOR JOB 0009862

ITEMS COST:	\$2,330,318.95
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$2,330,318.95
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$2,330,318.95

0009862	CALL NO.
0009862	
9/26/2013	

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

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Sep-13	\$ -
DIESEL		\$ -
LIQUID AC		\$ 571.00

LIQUID AC ADJUSTMENTS			
PA=[((APM-APL)/APL)]xTMTxAPL			
Asphalt			
Price Adjustment (PA)		\$ 22,423.17	\$ 22,423.17
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	\$ 913.60	
Monthly Asphalt Cement Price month project let (APL)		\$ 571.00	
Total Monthly Tonnage of asphalt cement (TMT)		65.45	

ASPHALT	Tons	%AC	AC ton
Leveling	50	5.0%	2.5
12.5 OGFC	0	5.0%	0
12.5 mm	487	5.0%	24.35
9.5 mm SP	0	5.0%	0
25 mm SP	463	5.0%	23.15
19 mm SP	309	5.0%	15.45
	1309		65.45

BITUMINOUS TACK COAT			
Price Adjustment (PA)		\$ 166.28	\$ 166.28
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	\$ 913.60	
Monthly Asphalt Cement Price month project let (APL)		\$ 571.00	
Total Monthly Tonnage of asphalt cement (TMT)		0.485346404	

Bitum Tack	Gals	gals/ton	tons
	113	232.8234	0.4853464

PROJ. NO.

0009862

CALL NO.

P.I. NO.

0009862

DATE

9/26/2013

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA) \$ 0

Monthly Asphalt Cement Price month placed (APM) \$ 913.60

Monthly Asphalt Cement Price month project let (APL) \$ 571.00

Total Monthly Tonnage of asphalt cement (TMT) 0

Bitum Tack

Single Surf. Trmt.

SY	Gals/SY	Gals	gals/ton	tons
	0.20	0	232.8234	0
	0.44	0	232.8234	0
	0.71	0	232.8234	0

Double Surf. Trmt.

Triple Surf. Trmt

TOTAL LIQUID AC ADJUSTMENT

\$ 22,589.45

MEDIA:

None in attendance.

DISPOSITION OF COMMENTS:

The following represents a breakdown of a review of comments by the offices to which they pertain. The project manager will review all responses.

RESPONSIBLE OFFICE	COMMENT #	NATURE OF COMMENT
Design	1	Uncommitted, concerned about having increased visibility between the east and west bridges.
	2,5,8, 14, 15,18,19,20	Conditional, concerned about not having the use of a detour bridge during the project.
	3, 4, 7	Conditional, concerned about not having the use of a detour bridge and the affect of the project on their business.
	5,6	Conditional, concerned about the release of water from Cordrays Pond.

RESPONSIBLE OFFICE	COMMENT #	NATURE OF COMMENT
Right-of-Way	None	

RESPONSIBLE OFFICE	COMMENT #	NATURE OF COMMENT
Traffic Operations	None	

RESPONSIBLE OFFICE	COMMENT #	NATURE OF COMMENT
Planning	None	

RESPONSIBLE OFFICE	COMMENT #	NATURE OF COMMENT
Environmental Services	9-13, 16, 17	No additional comment

RESPONSIBLE OFFICE	COMMENT #	NATURE OF COMMENT
Environmental Services	All Letters	<p>Thank you for your comments concerning the proposed project referenced above. We appreciate your attendance and all of the input that was received as a result of the February 16, 2012 Detour Meeting/Project Open House. Every comment will be made part of the official record of the project.</p> <p>The attendees of the Detour Meeting/Project Open House Meeting and those persons sending in comments afterwards raised the following questions and concerns. The Georgia Department of Transportation (GDOT) has prepared this one response letter that addresses all comments received so that everyone can be aware of the concerns raised and the responses given. Please find the comments summarized below (<i>in italics</i>) followed by our response.</p>

Please review the comments and email responses to Carla Benton-Hooks (cbenton-hooks@dot.ga.gov) by March 12, 2012.

Attached is a complete transcript of the comments received during the comment period and a copy of the detour/project open house meeting handout.

If you have any questions about the comments, please either email or call Carla Benton-Hooks at (404) 631-1415.

GB/cbh

Attachments

DISTRIBUTION:

- Russell McMurry, P.E, w/attachments
- Bobby Hilliard, P.E w/attachments
- Chandria Brown, P.E w/attachments
- District 4 Attn:Joe W. Sheffield, P.E., w/attachments
- Cynthia Vandyke w/attachments
- Kathy Zahul, P.E., w/attachments
- Howard (Phil) Copeland (Attn: Troy Byers), w/attachments
- David Acree P.E. w/attachments

NOTICE OF LOCATION AND DESIGN APPROVAL

Calhoun County

PI 0009862

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location and design approval is: *June 9, 2014*

This project consists of two bridge replacements on existing alignment (SR 45), East Bridge and West Bridge at Cordrays Pond on State Route 45 (Milepost 16.62 to 17.08, Project Length of 0.464 mile) in Calhoun County. Roadway work in between the bridges would be minimal. An off-site detour between the City of Morgan and State Route 234 would be utilized during construction. This project is located within the 3rd Land District of Calhoun County, Georgia.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

William McCarter
wmccarter@dot.ga.gov
260 North Webster Street
39840 Cuthbert, Georgia 39840
(229) 732-3066 / (229) 309-9901

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Albert V. Shelby, III, State Program Delivery Engineer
Georgia Department of Transportation
Office of Program Delivery 25th Floor
600 West Peachtree Street NW
Atlanta, Georgia 30308
ashelby@dot.ga.gov
(404) 631-1758

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.