

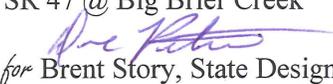
ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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

**FILE** P.I. #0007041 **OFFICE** Design Policy & Support  
CSBRG-0007-00(041)  
GDOT District 2 - Tennille  
Jefferson/McDuffie Counties **DATE** 7/18/2012  
SR 47 @ Big Brier Creek

**FROM**  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:**

Bobby Hilliard, Program Control Administrator  
Lisa Myers, State Project Review Engineer  
Phil Copeland, State Right-of-Way Administrator  
Glenn Bowman, State Environmental Administrator  
Genetha Rice-Singleton, State Program Delivery Engineer  
Kathy Zahul, State Traffic Engineer  
Cindy VanDyke, State Transportation Planning Administrator  
Ken Thompson, Location Bureau Chief  
Ben Rabun, State Bridge Engineer  
Angela Robinson, Financial Management Administrator  
Andy Casey, State Roadway Design Engineer  
James Kitchings, District Environmentalist  
Corbett Reynolds, Area Engineer - D2, A3  
Vonda Everett, District Planning & Programming Engineer  
Neil O'Brien, District Preconstruction Engineer  
Jimmy Smith, District Engineer  
Michelle Wright, Project Manager  
BOARD MEMBER - 10th Congressional District  
BOARD MEMBER - 12th Congressional District

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** CSBRG-0007-00(041), Jefferson/McDuffie  
PI 0007041  
SR 47 at Brier Creek – Bridge Replacement

**OFFICE** Program Delivery

**DATE** June 26, 2012

**FROM** <sup>SH</sup> Bobby Hilliard, P.E., State Program Delivery Engineer

**TO** Brent Story, P.E., State Design Policy Engineer  
*Attention: Dave Peters, P.E., State Conceptual Design Group Manager*

**SUBJECT** Request for Location and Design Approval

**Description and Project Proposal:**

The proposed project would begin along State Route 47 approximately 1,100 feet south of Brier Creek and extend approximately 1,600 feet to the north of Brier Creek and include the replacement of the structurally deficient bridge over Brier Creek. The proposed project is 0.51 miles long and begins at Milepost 0.27 in Jefferson County and ends at Milepost 5.91 in McDuffie County. The southern and northern termini of the project are determined by the horizontal constraints of the bridge approach roadway. The proposed improvements for this project include replacing the existing 12 span bridge with a new nine span concrete bridge parallel to and west of existing. The proposed bridge will accommodate a 12 foot travel lane and 8 foot shoulder in both directions with side barrier. The total horizontal clearance on the bridge from face of barrier to face of barrier is 40 feet.

The roadway approach to the proposed bridge on the southern end will utilize reverse curves with a minimum allowable radius of 6,820 feet that will utilize reverse crown. The roadway approach on the northern end will utilize a 3,290 foot radius and tie in to the tangent section of roadway to the north of the project. The proposed horizontal geometry will allow for super elevation transitions to occur along the roadway approaches and not along the bridge. The roadway typical section will accommodate a 12 foot travel lane and 8 foot shoulder, of which 2 feet is paved, in both directions.

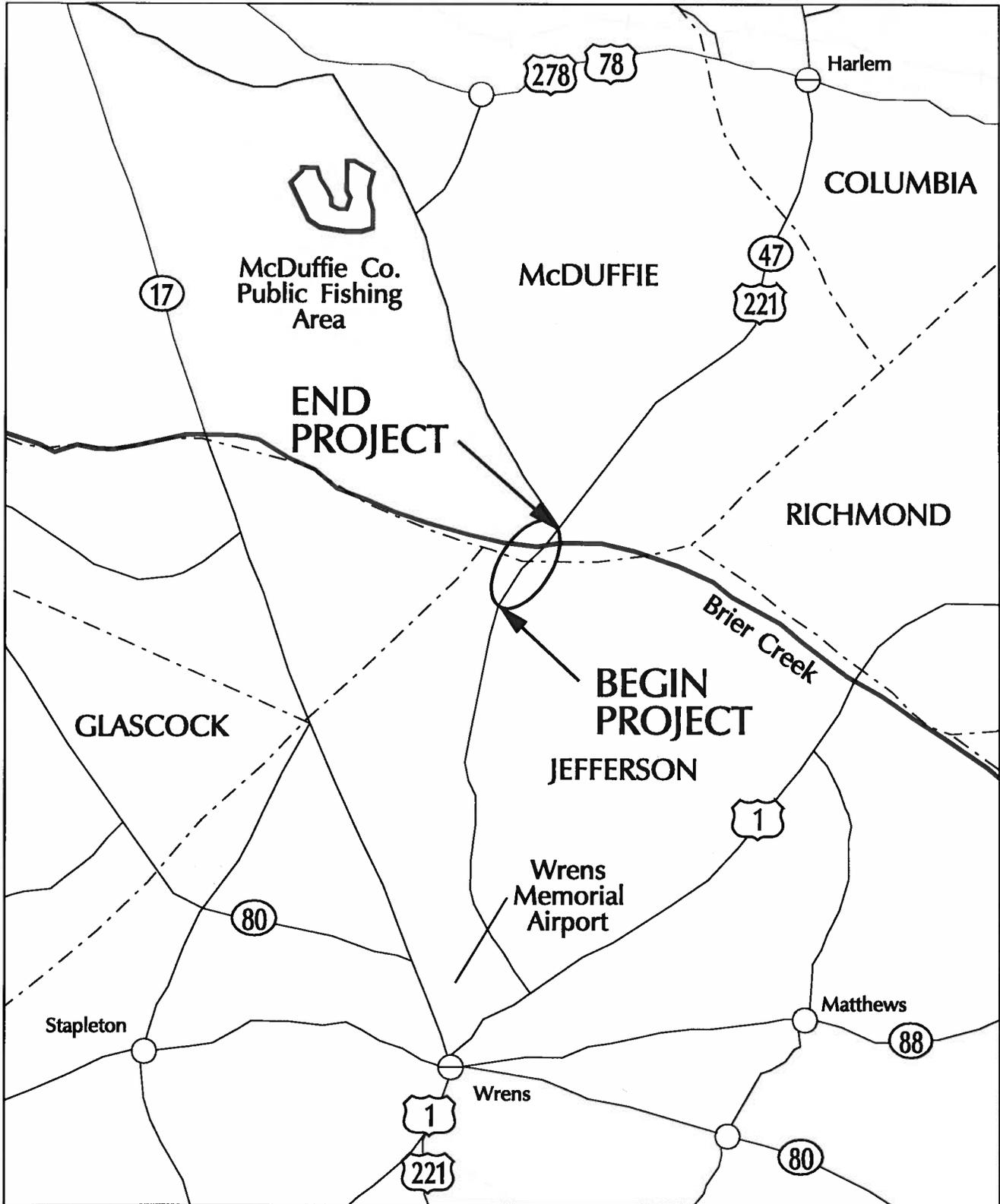


# PROJECT LOCATION MAP

S.R. 47 OVER BRIER CREEK  
CSBRG-0007-00(041)  
P.I. # 0007041



SCALE IN FEET  
0 1000 2000



**PROJ. NO.:** CSBRG-0007-00(041)

**P.I. NO.** 0007041

**DATE:** 5/23/2012

<b>Base Construction Cost</b>		<b>\$ 3,496,189.73</b>
E & I	5%	\$ 174,809.49
<b>Subtotal Construction Cost</b>		<b>\$ 3,670,999.22</b>
Liquid AC Adjustment (125 % cap)		\$ 81,401.76
<b>Total Construction Cost</b>		<b>\$ 3,752,400.98</b>
Right Of Way		\$ 79,000.00
Reimb. Utilities		\$ 100,000.00

JOB ESTIMATE REPORT

JOB NUMBER : 0007041  
 DESCRIPTION: CSBRG-0007-00(041)  
 SR 47 AT BIG BRIER CREEK

SPEC YEAR: 01

ITEMS FOR JOB 0007041

LINE	ITEM AMOUNT	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE
0005	150-1000		LS	TRAFFIC CONTROL - CSBRG-0007-00(041)	1.000	220000.00
	220000.00					
0010	150-5010		EA	TRAF CTRL,PORTABLE IMPACT ATTN	2.000	7433.41
	14866.84					
0015	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	60287.88
	60287.88					
0020	210-0100		LS	GRADING COMPLETE - CSBRG-0007-00(041)	1.000	50000.00
	50000.00					
0025	310-1101		TN	GR AGGR BASE CRS, INCL MATL	3900.000	23.82
	92910.79					
0030	402-1812		TN	RECYL AC LEVELING,INC BM&HL	320.000	85.34
	27311.22					
0035	402-3121		TN	RECYL AC 25MM SP,GP1/2,BM&HL	2300.000	77.60
	178492.54					
0040	402-3130		TN	RECYL AC 12.5MM SP,GP2,BM&HL	920.000	90.41
	83182.77					
0045	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	700.000	89.87
	62914.15					
0050	413-1000		GL	BITUM TACK COAT	1100.000	3.98
	4380.52					
0055	432-5010		SY	MILL ASPH CONC PVMT,VARB DEPTH	730.000	5.90
	4312.94					
0060	433-1200		SY	REF CONC APPR SL/I SLOPED EDGE	270.000	141.89
	38312.10					
0065	436-1000		LF	ASPH CONC CURB - CSBRG-0007-00(041)	2100.000	6.60
	13864.24					
0070	441-0301		EA	CONC SPILLWAY, TP 1	6.000	1465.23
	8791.43					
0075	446-1100		LF	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	4100.000	2.55
	10476.73					
0080	456-2015		GLM	INDENT. RUMB. STRIPS - GRND-IN-PL	0.500	3803.66



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JOB ESTIMATE REPORT

0190	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	270.000	2.09
	565.62				
0195	165-0101	EA	MAINT OF CONST EXIT	4.000	586.99
	2347.99				
0200	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	196.37
	392.74				
0205	167-1500	MO	WATER QUALITY INSPECTIONS	24.000	721.07
	17305.92				
0210	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	8800.000	3.02
	26630.12				
0215	700-6910	AC	PERMANENT GRASSING	6.000	1040.59
	6243.58				
0220	700-7000	TN	AGRICULTURAL LIME	18.000	82.47
	1484.46				
0225	700-8000	TN	FERTILIZER MIXED GRADE	5.000	508.92
	2544.63				
0230	700-8100	LB	FERTILIZER NITROGEN CONTENT	600.000	2.34
	1407.14				
0235	710-9000	SY	PERM SOIL REINFORCING MAT	630.000	3.96
	2496.59				
0240	716-2000	SY	EROSION CONTROL MATS, SLOPES	4200.000	1.25
	5256.97				
0245	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	53.000	14.52
	770.02				
0250	636-1033	SF	HWY SIGNS, TP1MAT,REFL SH TP 9	19.000	18.89
	359.06				
0255	636-2070	LF	GALV STEEL POSTS, TP 7	153.000	7.90
	1209.97				
0260	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	4250.000	0.60
	2591.27				
0265	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	1350.000	0.68
	921.60				
0270	653-3502	GLF	THERMO SKIP TRAF ST, 5 IN, YEL	2000.000	0.25
	502.66				
0275	654-1001	EA	RAISED PVMT MARKERS TP 1	35.000	5.24
	183.69				
0280	654-1002	EA	RAISED PVMT MARKERS TP 2	20.000	3.55
	71.16				
0285	657-1085	LF	PRF PL SD PVT MKG,8",B/W,TP PB	1050.000	6.01
	6316.82				
0290	657-6085	LF	PRF PL SD PVMT MKG,8",B/Y,TPPB	50.000	8.60
	430.24				
0295	657-3086	GLF	FPR PL SK PVMT MKG,8",B/Y,TPPB	530.000	3.50
	1859.73				

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ITEM TOTAL

3496189.72  
INFLATED ITEM TOTAL  
3496189.73

TOTALS FOR JOB 0007041

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ESTIMATED COST:  
3496189.73  
CONTINGENCY PERCENT ( 0.0 ) :  
0.00  
ESTIMATED TOTAL:  
3496189.73  
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PROJ. NO.  
P.I. NO.  
DATE

CSBRG-0007-00(041)  
0007041  
5/23/2012

CALL NO.

**BITUMINOUS TACK COAT (surface treatment)**

Price Adjustment (PA) 0 \$ -  
 Monthly Asphalt Cement Price month placed (APM) \$ 1,001.60  
 Monthly Asphalt Cement Price month project let (APL) \$ 626.00  
 Total Monthly Tonnage of asphalt cement (TMT) 0

Bitum Tack  
Single Surf. Trmt.  
Double Surf. Trmt.  
Triple Surf. Trmt

SY Gals/SY

0.20  
0.44  
0.71

Gals

0  
0  
0

gals/ton

232.8234  
232.8234  
232.8234

tons

0  
0  
0  
0

Max. Cap

**TOTAL LIQUID AC ADJUSTMENT \$ 81,401.76**



**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** CSBRG-0007-00 (041) Jefferson/McDuffie      **OFFICE** Tennille  
P.I. No. 0007041      **DATE** June 21, 2012

**FROM** Lynn Bean, District Utilities Engineer

**TO** Bobby Hilliard, P.E., State Program Delivery Engineer  
**ATTN** Michelle Wright, Project Manager

**SUBJECT** UTILITY COST ESTIMATE

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

FACILITY OWNER	NON- REIMBURSABLE	REIMBURSABLE
GA Power Co. (Dist)	\$ 0.00	
GA Power Co. (Trans.)	\$ 0.00	
Jefferson Energy Coop.	\$ 0.00	
AT&T Georgia	\$ 0.00	
AGL Resources		\$100,000.00
<b>Totals</b>	<b>\$ 00.0</b>	<b>\$100,000.00</b>
<b>Total Reimbursement Cost:</b>	<b>\$100,000.00</b>	

If you have any questions, please contact Jimmy Hobby at 678-245-0498.

JDC/JFH

**C:** Jeff Baker/Patrick Allen w/attachment  
Terrell McMillan, Assistant Area Engineer w/attachment

# NOTICE OF LOCATION AND DESIGN APPROVAL

*CSBRG-0007-00(041), Jefferson/McDuffie Counties*

*P.I. No. 0007041*

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 approval is July 18, 2012.

The proposed project would begin along State Route 47 approximately 1,100 feet south of Brier Creek and extend approximately 1,600 feet to the north of Brier Creek and include the replacement of the structurally deficient bridge over Brier Creek. The proposed project is 0.51 mile long and begins at Milepost 0.27 in Jefferson County and ends at Milepost 5.91 in McDuffie County. The portion of the project in Jefferson County is located in G.M.D. 81 and 150, and the portion of the project in McDuffie County is in G.M.D. 133. The roadway typical section will accommodate a 12 foot travel lane and 8 foot shoulder, of which 2 feet is paved, in both directions. The proposed bridge will accommodate a 12 foot travel lane and 8 foot shoulder in both directions with side barrier

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:

Corbett Reynolds  
District 2 – Area 3 Engineer  
[creynolds@dot.ga.gov](mailto:creynolds@dot.ga.gov)  
2971 US Highway North  
Louisville, GA 30434  
(478) 625-3681

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:

Genetha Rice-Singleton, P.E.  
Office of Program Delivery  
[grice-singleton@dot.ga.gov](mailto:grice-singleton@dot.ga.gov)  
One Georgia Center  
600 West Peachtree Street, NW  
Atlanta, GA 30308  
(404) 631-1122

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