



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: CSBRG-0007-00(054) Twiggs County OFFICE: Program Delivery  
P.I. No.: 0007054  
SR19 @ CSX RR2.8 Miles SE of Dry Branch DATE: April 25, 2013  
FROM: Genetha Rice-Singleton, Program Delivery Engineer  
TO: Brent Story, State Design Policy Engineer  
Attn. Dave Peters, State Design Conceptual Group Manager  
SUBJECT: Request for Location and Design Approval

**Description and Project Proposal:** This project proposes to replace the existing 19/US 80(Structure ID 289-0003) bridge over the CSX Railroad property. The existing bridge was built in 1935. The bridge consists of a 3 span continuous steel beam unit on concrete caps and concrete column substructure. The bridge has a sufficiency rating of 45.06. The project will replace the bridge with a new bridge in the same location. The net project length is 0.11 miles. *0.56 MILES SOUTH OF THE EXISTING BRIDGE. A*

**Concept Approval Date:** July 20, 2012

**Concept Update:** No changes have been made to the Project Concept Report since it was approved.

**Environmental Assessment Approval Date:** A Categorical Exclusion was approved on February 13, 2013. No reassessment of the environmental document has been completed since the original approval date.

**Public Involvement:** A Detour Meeting was held on January 5, 2012

A total of 27 people attended the January 5, 2012 detour meeting. Of the 20 respondents who formally commented, one was in support of the project, 10 were opposed, three were uncommitted, and six expressed conditional support.

Please find the comments summarized below (*in italics*):

- *"The off-site detour route would drive up fuel, labor and vehicle maintenance costs for a local business."*
- *"The off-site detour route would negatively impact nearby citizens' health, quality of life and finances. Also the off-site detour would lengthen the response time of emergency service personnel, potentially risking the lives of nearby citizens."*

- *"The off-site detour needs more study. There are shorter possible detour routes if GDOT will consider paving dirt roads to make them accessible to truck traffic."*
- *"One suggestion is to keep one-lane be open during construction and rebuild the bridge one lane at a time, allowing for the route to be partially open at all times during construction."*

Additionally, the Department received a 40-signature petition indicating opposition to the off-site detour.

As a result of the above concerns, the Department will not utilize an off-site detour as presented at the detour meeting. Rather than replacing the existing bridge at its current location, a new permanent bridge will be constructed to the south of the existing bridge. This will allow the Department and its contractors to construct the new bridge and approaching roadway while maintaining traffic on existing SR 19. Once construction of the new bridge is complete, traffic will be shifted onto the new facility while the old roadway and bridge are removed. This work will be done with minimal impact to traffic on SR 19, and will allow SR 19 to remain open to traffic throughout construction.

**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: K. J. [Signature] 5/20/13  
 Director of Engineering

Approval: [Signature]  
 Chief Engineer

5/22/13  
 Date of Approval

DATE OF LOCATION AND DESIGN APPROVAL: May 29, 2013  
 (To be entered by the State Conceptual Design Group Manager)

GRS: AVS: cew

Attachments:

- Sketch Map
- Cost Estimate
- Notice of Location and Design Approval



# DETAILED COST ESTIMATE



**Job: 0007054CW**

**JOB NUMBER** 0007054CW

**FED/STATE PROJECT NUMBER** CSBRG000700054

**SPEC YEAR:** 01

**DESCRIPTION:** SR 19 @ CSX RR 2.8 MI SE OF DRY BRANCH

**ITEMS FOR JOB 0007054CW**

**0100 - ROADWAY**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$50,000.00000	TRAFFIC CONTROL - CSBRG-0007-00(054)	\$50,000.00
0230	150-5010	4.000	EA	\$10,146.73913	TRAF CTRL,PORTABLE IMPACT ATTN	\$40,586.96
0010	153-1300	1.000	EA	\$64,209.43203	FIELD ENGINEERS OFFICE TP 3	\$64,209.43
0035	201-1500	1.000	LS	\$133,400.00000	CLEARING & GRUBBING - CSBRG-0007-00(054)	\$133,400.00
0015	205-0001	26089.000	CY	\$6.53947	UNCLASS EXCAV	\$170,608.23
0235	206-0002	20601.000	CY	\$7.53094	BORROW EXCAV, INCL MATL	\$155,144.89
0065	310-5060	1315.000	SY	\$12.32446	GR AGGR BS CRS 6IN INCL MATL	\$16,206.66
0250	310-5100	12412.000	SY	\$20.15597	GR AGGR BS CRS 10IN INCL MATL	\$250,175.90
0245	402-1812	200.000	TN	\$72.41632	RECYL AC LEVELING,INC BM&HL	\$14,483.26
0020	402-3100	838.000	TN	\$77.63219	REC AC 9.5 MM SP,TPI,GP1ORBL1,INCL BM&HL	\$65,055.78
0025	402-3111	1366.000	TN	\$78.20000	RECYL AC 19MM MIX,GP1OR2,BM&HL	\$106,821.20
0030	402-3121	2048.000	TN	\$65.80132	RECYL AC 25MM SP,GP1/2,BM&HL	\$134,761.10
0040	413-1000	1304.000	GL	\$2.29333	BITUM TACK COAT	\$2,990.50
0265	432-5010	3187.000	SY	\$4.80415	MILL ASPH CONC PVMT,VARB DEPTH	\$15,310.83
0075	433-1000	284.000	SY	\$134.14710	REINF CONC APPROACH SLAB	\$38,097.78
0260	446-1100	50.000	LF	\$15.88952	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	\$794.48
0095	456-2012	1.000	GLM	\$658.12472	INTENT. RUMB. STRIPS - GRND-IN-PL (CONT)	\$658.12
0240	620-0100	100.000	LF	\$38.05080	TEMP BARRIER, METHOD NO. 1	\$3,805.08
0255	632-0003	2.000	EA	\$10,518.98650	CHANGEABLE MESS SIGN,PORT,TP 3	\$21,037.97
0090	634-1200	34.000	EA	\$98.16585	RIGHT OF WAY MARKERS	\$3,337.64
0055	641-1100	303.000	LF	\$44.78187	GUARDRAIL, TP T	\$13,568.91
0060	641-1200	800.000	LF	\$17.99759	GUARDRAIL, TP W	\$14,398.07
0045	641-5001	8.000	EA	\$591.90433	GUARDRAIL ANCHORAGE, TP 1	\$4,735.23
<b>SUBTOTAL FOR ROADWAY:</b>						<b>\$1,320,188.02</b>

**0300 - SIGN AND MARKING**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0185	636-1020	14.000	SF	\$15.57571	HWY SGN,TP1MAT,REFL SH TP3	\$218.06
0190	636-1029	17.000	SF	\$16.62000	HWY SGN,TP2 MATL,REFL SH TP 3	\$282.54
0195	636-1033	27.000	SF	\$21.79005	HWY SIGNS, TP1MAT,REFL SH TP 9	\$588.33
0200	636-2070	39.000	LF	\$9.20017	GALV STEEL POSTS, TP 7	\$358.81
0205	636-2090	32.000	LF	\$9.75645	GALV STEEL POSTS, TP 9	\$312.21
0280	653-2501	0.550	LM	\$1,309.30518	THERMO SOLID TRAF ST, 5 IN, WH	\$720.12
0285	653-2502	0.550	LM	\$1,310.94533	THERMO SOLID TRAF ST, 5 IN YE	\$721.02
0215	653-6006	5542.000	SY	\$2.66876	THERM TRAF STRIPING, YELLOW	\$14,790.27
0310	657-1054	3050.000	LF	\$3.93148	PRF PL SD PVMT MKG,5",WH,TP PB	\$11,991.01
0315	657-6054	3050.000	LF	\$3.37162	PRF PL SD PVMT MKG,5",YW,TP PB	\$10,283.44
<b>SUBTOTAL FOR SIGN AND MARKING:</b>						<b>\$40,265.81</b>

# DETAILED COST ESTIMATE



**Job: 0007054CW**

## 0400 - BRIDGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0220	540-1102	1.000	LS	\$69,200.00000	REM OF EX BR, BR NO - 1	\$69,200.00
0320	543-9000	1.000	LS	\$511,849.00000	CONSTR OF BRIDGE COMPLETE - @ \$90/SQ. FT.	\$511,849.00
0325	627-1000	5300.000	SF	\$65.00000	MSE WALL FACE, 0 - 10 FT HT, WALL NO - MSE WALL NO. 1	\$344,500.00
0330	627-1000	5750.000	SF	\$65.00000	MSE WALL FACE, 0 - 10 FT HT, WALL NO - MSE WALL NO. 2	\$373,750.00
<b>SUBTOTAL FOR BRIDGE:</b>						<b>\$1,299,299.00</b>

## 0500 - DRAINAGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0300	441-0301	2.000	EA	\$1,122.87028	CONC SPILLWAY, TP 1	\$2,245.74
0305	441-0302	2.000	EA	\$2,075.90909	CONC SPILLWAY, TP 2	\$4,151.82
0295	500-3101	30.000	CY	\$413.85929	CLASS A CONCRETE	\$12,415.78
0290	511-1000	2718.000	LB	\$0.95191	BAR REINF STEEL	\$2,587.29
0275	550-1180	494.000	LF	\$30.03527	STM DR PIPE 18",H 1-10	\$14,837.42
0270	550-4218	7.000	EA	\$499.54108	FLARED END SECT 18 IN, ST DR	\$3,496.79
<b>SUBTOTAL FOR DRAINAGE:</b>						<b>\$39,734.84</b>

## 0600 - EROSION CONTROL - PERMANENT

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0165	603-2180	100.000	SY	\$36.29350	STN DUMPED RIP RAP, TP 3, 12"	\$3,629.35
0170	603-7000	100.000	SY	\$3.90056	PLASTIC FILTER FABRIC	\$390.06
0100	700-6910	19.000	AC	\$1,093.28889	PERMANENT GRASSING	\$20,772.49
0115	700-7000	19.000	TN	\$56.54381	AGRICULTURAL LIME	\$1,074.33
0120	700-8000	19.000	TN	\$624.96296	FERTILIZER MIXED GRADE	\$11,874.30
0125	700-8100	950.000	LB	\$2.20608	FERTILIZER NITROGEN CONTENT	\$2,095.78
0150	716-2000	889.000	SY	\$1.16907	EROSION CONTROL MATS, SLOPES	\$1,039.30
<b>SUBTOTAL FOR EROSION CONTROL - PERMANENT:</b>						<b>\$40,875.61</b>

## 0700 - EROSION CONTROL - TEMPORARY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0105	163-0232	10.000	AC	\$662.80952	TEMPORARY GRASSING	\$6,628.10
0110	163-0240	276.000	TN	\$186.16701	MULCH	\$51,382.09
0130	163-0300	2.000	EA	\$1,390.71319	CONSTRUCTION EXIT	\$2,781.43
0175	163-0529	750.000	LF	\$3.46757	CNST/REM TEMP SED BAR OR BLD STRW CK DM	\$2,600.68
0145	165-0030	2771.000	LF	\$0.69119	MAINT OF TEMP SILT FENCE, TP C	\$1,915.29
0180	165-0041	375.000	LF	\$1.30999	MAINT OF CHECK DAMS - ALL TYPES	\$491.25
0135	165-0101	2.000	EA	\$503.44256	MAINT OF CONST EXIT	\$1,006.89
0155	167-1000	2.000	EA	\$768.88889	WATER QUALITY MONITORING AND SAMPLING	\$1,537.78
0160	167-1500	18.000	MO	\$707.02187	WATER QUALITY INSPECTIONS	\$12,726.39
0140	171-0030	5542.000	LF	\$3.26017	TEMPORARY SILT FENCE, TYPE C	\$18,067.86
<b>SUBTOTAL FOR EROSION CONTROL - TEMPORARY:</b>						<b>\$99,137.76</b>

**TOTALS FOR JOB 0007054CW**

## DETAILED COST ESTIMATE



Job: 0007054CW

<b>ITEMS COST:</b>	<b>\$2,839,501.04</b>
<b>COST GROUP COST:</b>	<b>\$0.00</b>
<b>ESTIMATED COST:</b>	<b>\$2,839,501.04</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>\$2,981,476.09</b>

# **NOTICE OF LOCATION AND DESIGN APPROVAL**

**CSBRG-0007-00(054) Twiggs County  
P.I. Number: 0007054**

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.

Date of Location and Design Approval: **May 29, 2013**

Project CSBRG-0007-00(054) in Twiggs County consists of replacing the existing bridge along SR 19/US over CSX Railroad. This Project is located in Land District 28 and in Land Lots 30, 43, and 44, and in GMD 355.

This project proposes to replace the existing SR 19/US 80(Structure ID 289-0003) bridge over the CSX Railroad in Twiggs County. The bridge has a sufficiency rating of 45.06. The new bridge will be constructed on a new alignment south of the existing bridge for a project length of 0.56 miles from milepost 19.68 to milepost 20.24. The project would be designed to provide two 12-foot lanes with rural 2-foot paved and 6-foot grassed shoulders.

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:

**Kraig Collins, Area Engineer  
Georgia Department of Transportation  
4499 Riverside Drive  
Macon, Georgia 31210  
Phone 478) 757-25988**

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, Program Delivery Engineer  
Program Delivery  
grice-singleton@dot.ga.gov  
600 West Peachtree St.  
Atlanta, Georgia 30308  
Phone: 404-631-1522**

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.