

ORIGINAL TO GENERAL FILES

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

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## OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

**FILE** P.I. #533145-  
BRST0-0005-05(047)  
GDOT District 5 - Jesup  
Bryan, Effingham Counties  
SR26/US 80 @ Ogeechee River &  
Overflow 9 MI S of Guyton

**OFFICE** Design Policy & Support

**DATE** May 9, 2012

**FROM**  Brent Story, State Design Policy Engineer

**TO** SEE DISTRIBUTION

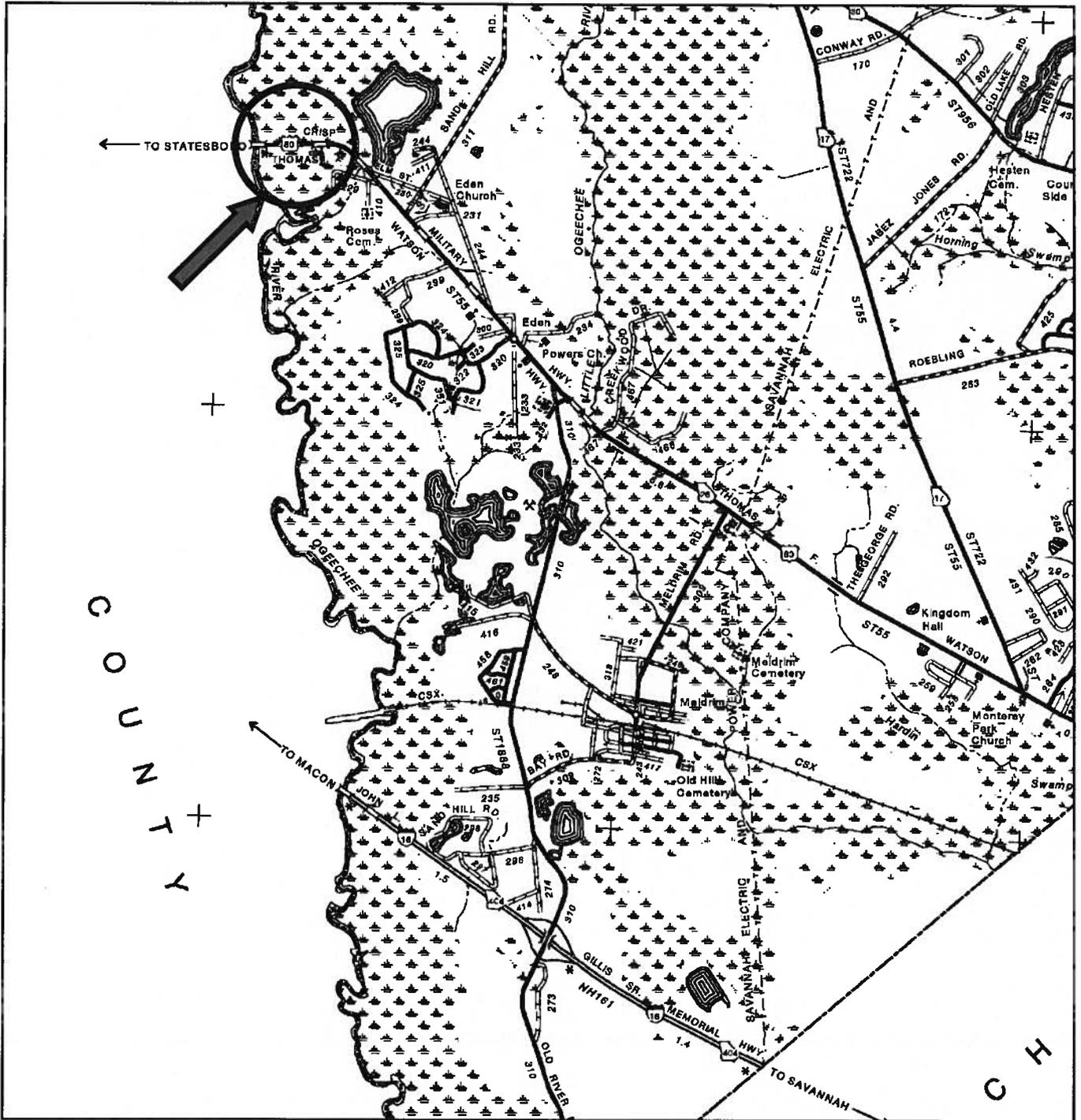
**SUBJECT** APPROVED LOCATION & DESIGN REPORT

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

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator  
Lisa Myers, State Project Review Engineer  
Phil Copeland, State Right-of-Way Administrator  
Glenn Bowman, State Environmental Administrator  
Bobby Hilliard, State Program Delivery Engineer  
Kathy Zahul, State Traffic Engineer  
Cindy VanDyke, State Transportation Planning Administrator  
Ken Thompson, Location Bureau Chief  
Angela Robinson, Financial Management Administrator  
Andy Casey, State Roadway Design Engineer  
Troy Pittman, Area Engineer - D5, A5  
Teresa Scott, District Planning & Programming Engineer  
Brad Saxon, District Preconstruction Engineer  
Karon Ivery, District Engineer  
Aghdas Ghazi, Project Manager  
BOARD MEMBER - 1st Congressional District



**Project:** BRST-005-5(47) Effingham & Bryan Counties **PI No.:** 533145  
**Description:** SR 26/US 80 over Ogeechee River 9 miles South of Guyton

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 533145,  
SR 26/US 80 @ Ogeechee River & Overflow OFFICE Program Delivery  
BRSTO-0005-05(047) Bryan/Effingham County DATE April 30, 2012

FROM Bobby K. Hilliard, P.E., State Program Delivery Engineer *B.H.*  
TO Brent A. Story, P.E., State Design Policy Engineer/ Attn: State Conceptual Design Group Manager  
SUBJECT Request for Location and Design Approval

**Description and Project Proposal:** Project, BRSTO-0005-05(047) lies within the limits of Bryan and Effingham Counties. This project is approximately 1.133 miles long. The construction proposes to replace the existing bridges over the Ogeechee River and Overflow with new 1,380'x 40' and 180'x 40' bridges, respectively, constructed on new location north of the existing bridges. The relocation of SR 26 /US 80 will consist of two, 12' lanes with two 10-foot rural shoulders with 6-foot paved for bike lanes. Traffic will be maintained on the existing bridges while the proposed bridges are constructed.

**Concept Approval Date:** Original Concept approved on September 28, 2005

**Concept Update:** The shoulder width was reduced from 10 ft. to 8 ft on the Ogeechee River Main Channel Bridge and the Overflow Bridge as recommended by the VE study which was held March 29 – April 1, 2010.

**Environmental Document Type, Approval Date & any Reevaluations:** The Categorical Exclusion was approved on April 18, 2012.

**Public Involvement:** N/A

**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.

RECOMMEND: *Bill R M=*  
Director of Engineering

APPROVED: *[Signature]* 5/17/2012  
Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: May 9, 2012  
(To be entered by the State Conceptual Design Group Manager)

BKH:MAH:JMB:dlw

**Attachments:**

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

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

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INTERDEPARTMENT CORRESPONDENCE

FILE PROJECT No.  ,  OFFICE

DATE

P.I. No.

FROM

TO Ronald E. Wishon, Project Review Engineer

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER

MNGT LET DATE

MNGT R/W DATE

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$

DATE

RIGHT OF WAY \$

DATE

UTILITIES \$

DATE

REVISED COST ESTIMATES

CONSTRUCTION\* \$

RIGHT OF WAY \$

UTILITIES\*\* \$

\* Costs contain  % Engineering and Inspection and  % Construction Contingencies.

\*\* Costs contain  % contingency.

REASON FOR COST INCREASE

**CONTINGENCY SUMMARY**

Construction Cost Estimate: \$  (Base Estimate)

Engineering and Inspection: \$  (Base Estimate x  %)

Construction Contingency: \$  (Base Estimate x  %)

(The Construction Contingency is based on the Project Improvement Type in TPro.)

Total Fuel Adjustment \$  (From attached worksheet)

Total Liquid AC Adjustment \$  (From attached worksheet)

**Construction Total:** \$

Utility Cost Estimate: \$

Utility Contingency: \$   %

Utility Total: \$

**REIMBURSABLE UTILITY COST**

**Utility Owner**

**Reimbursable Cost**



**Attachments**

c: Genetha Rice-Singleton, State Program Control Administrator

**PROJ. NO.:** BRST-005-5(47)  
**P.I. NO.** 533145-  
**DATE:** 11/29/2011

<b>Base Construction Cost</b>	\$	8,693,940.5
E & I	5% \$	434,697.03
Construction Contingency	\$	-
<b>Subtotal Construction Cost</b>	\$	<u>9,128,637.53</u>
Liquid AC Adjustment (50 % cap)	\$	123,715.25
<b>Total Construction Cost</b>	\$	<u>9,252,352.77</u>

# DETAILED COST ESTIMATE



**Job: 533145-**

**JOB NUMBER: 533145-**

**FED/STATE PROJECT NUMBER BRSTO-0005-05(047)**

**SPEC YEAR: 01**

**DESCRIPTION: SR2&US80 @ OGEECHEE RIVER & OVERFLOW BRIDGE**

**ITEMS FOR JOB 533145-**

**0005 - BRIDGES**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	543-8000	1.000	LS	\$4,592,395.83	CONSTR OF BRIDGE COMPLETE - 40' X1380'	\$4,592,395.83
0010	543-8000	1.000	LS	\$599,008.69	CONSTR OF BRIDGE COMPLETE - 40' X 180'	\$599,008.69
<b>SUBTOTAL FOR BRIDGES:</b>						<b>\$5,191,404.52</b>

**0010 - ROADWAY**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0015	150-1000	1.000	LS	\$77,421.97	TRAFFIC CONTROL - 2010EST+3.8% INFLATION=2011EST	\$77,421.97
0020	163-1900	1.000	EA	\$67,381.37	FIELD ENGINEERS OFFICE TP 3	\$67,381.37
0025	210-0100	1.000	LS	\$2,110,244.14	GRADING COMPLETE - 2010EST+3.8% INFLATION=2011EST	\$2,110,244.14
0030	310-5120	6973.000	SY	\$20.27	GR AGGR BS CRS 12IN INCL MATL	\$141,324.51
0035	318-3000	300.000	TN	\$27.92	AGGR SURF CRS	\$8,374.88
0040	402-1812	729.000	TN	\$84.82	RECYL AC LEVELING,INC BM&HL	\$61,888.84
0045	402-3121	3054.000	TN	\$77.97	RECYL AC 25MM SP,GP1/2,BM&HL	\$238,123.59
0050	402-3130	1498.000	TN	\$86.50	RECYL AC 12.5MM SP,GP2,BM&HL	\$129,408.35
0055	402-3180	1995.000	TN	\$85.70	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$170,968.19
0060	413-1000	1355.000	GL	\$3.32	BITUM TACK COAT	\$4,498.13
0065	433-1000	620.000	SY	\$167.01	REINF CONC APPROACH SLAB	\$97,344.16
0070	438-1000	4587.000	LF	\$5.99	ASPH CONC CURB - 533145-	\$27,488.73
0075	620-0100	1360.000	LF	\$23.78	TEMP BARRIER, METHOD NO. 1	\$32,345.32
0080	634-1200	4.000	EA	\$127.36	RIGHT OF WAY MARKERS	\$509.44
0085	641-1100	168.000	LF	\$49.61	GUARDRAIL, TP T	\$8,235.08
0090	641-1200	3487.000	LF	\$15.50	GUARDRAIL, TP W	\$54,050.52
0095	641-5001	10.000	EA	\$575.56	GUARDRAIL ANCHORAGE, TP 1	\$5,755.65
0100	641-5012	9.000	EA	\$1,901.79	GUARDRAIL ANCHORAGE, TP 12	\$17,116.07
<b>SUBTOTAL FOR ROADWAY:</b>						<b>\$3,262,352.70</b>

**0020 - CULVERT**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0105	207-0203	81.000	CY	\$52.63	FOUND BNFFILL MATL, TP II	\$3,210.35
0110	500-3101	129.000	CY	\$508.03	CLASS A CONCRETE	\$65,635.58
0115	511-1000	12341.000	LB	\$0.81	BAR REINF STEEL	\$10,019.04
<b>SUBTOTAL FOR CULVERT:</b>						<b>\$78,764.97</b>

# DETAILED COST ESTIMATE



**Job: 633145**

**0030 - EROSION CONTROL**

Item Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0120	163-0232	1.000	AC	\$769.91	TEMPORARY GRASSING	\$769.91
0125	163-0240	40.000	TN	\$161.33	MULCH	\$6,453.17
0130	163-0300	4.000	EA	\$1,509.01	CONSTRUCTION EXIT	\$6,036.06
0135	163-0503	1.000	EA	\$404.23	CONSTR AND REMOVE SILT CONTROL GATE, TP 3	\$404.23
0140	163-0520	455.000	LF	\$15.63	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$7,111.44
0145	163-0529	2960.000	LF	\$3.90	CNST/REM TEMP SED BAR OR BLD STRW CK DM 2010EST +3.6% INFLATION-2011EST	\$11,544.00
0150	165-0030	3115.000	LF	\$1.01	MAINT OF TEMP SILT FENCE, TP C	\$3,141.91
0155	165-0071	1480.000	LF	\$1.23	MAINT OF SEDIMENT BARRIER - BALED STRAW 2010EST +3.6% INFLATION-2011EST	\$1,820.40
0160	165-0067	1.000	EA	\$119.67	MAINT OF SILT CONTROL GATE, TP 3	\$119.67
0165	165-0101	4.000	EA	\$401.04	MAINT OF CONST EXIT	\$1,604.17
0170	167-1000	2.000	EA	\$245.77	WATER QUALITY MONITORING AND SAMPLING	\$491.54
0175	167-1500	12.000	MO	\$880.35	WATER QUALITY INSPECTIONS	\$10,324.20
0180	171-0030	6230.000	LF	\$2.79	TEMPORARY SILT FENCE, TYPE C	\$17,350.80
0185	603-2160	32.000	SY	\$57.53	STN DUMPED RIP RAP, TP 3, 12"	\$1,841.06
0190	700-6910	2.000	AC	\$891.71	PERMANENT GRASSING	\$1,783.42
0195	700-7000	6.000	TN	\$109.46	AGRICULTURAL LIME	\$656.77
0200	700-7010	5.000	GL	\$22.28	LIQUID LIME	\$111.41
0205	700-8000	2.000	TN	\$485.21	FERTILIZER MIXED GRADE	\$970.42
0210	700-8100	100.000	LB	\$3.12	FERTILIZER NITROGEN CONTENT	\$312.30
0215	718-2000	90.000	SY	\$1.91	EROSION CONTROL MATS, SLOPES	\$172.03
<b>SUBTOTAL FOR EROSION CONTROL:</b>						<b>\$73,218.96</b>

**0040 - SIGNS AND MARKING**

Item Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0220	636-1020	107.000	SF	\$14.15	HWY SGN,TP1MAT,REFL SH TP3	\$1,514.55
0225	636-1033	18.000	SF	\$19.57	HWY SIGNS, TP1MAT,REFL SH TP 9	\$352.28
0230	636-2070	90.000	LF	\$8.18	GALV STEEL POSTS, TP 7	\$735.90
0235	636-2080	28.000	LF	\$10.63	GALV STEEL POSTS, TP 8	\$297.64
0240	636-2090	58.000	LF	\$7.83	GALV STEEL POSTS, TP 9	\$442.33
0245	652-5481	6920.000	LF	\$0.10	SOLID TRAF STRIPE, 5 IN, WHITE	\$692.00
0250	652-5452	3500.000	LF	\$0.18	SOLID TRAF STRIPE, 6 IN, YELLO	\$630.00
0255	652-5701	102.000	LF	\$1.71	SOLID TRAF STRIPE, 24", WHITE	\$174.59
0260	652-6502	960.000	GLF	\$0.22	SKIP TRAF STRIPE, 5 IN, YELLOW	\$208.85
0265	654-1001	112.000	EA	\$4.41	RAISED PVMT MARKERS TP 1	\$494.28
0270	654-1002	7.000	EA	\$3.97	RAISED PVMT MARKERS TP 2	\$27.78
0275	657-1054	3240.000	LF	\$3.68	PRF PL SD PVMT MKG,5",WH,TP PB	\$11,926.34
0280	657-6054	240.000	LF	\$5.89	PRF PL SD PVMT MKG,5",YW,TP PB	\$1,412.74
0285	657-8054	1380.000	GLF	\$2.09	PRF PL SK PVMT MKG,5",YE,TP PB	\$2,886.85
<b>SUBTOTAL FOR SIGNS AND MARKING:</b>						<b>\$21,966.72</b>

**0050 - DRAINAGE**

Item Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0290	441-0050	29.000	SY	\$58.76	CONC SLOPE DRAIN	\$1,646.91
0295	441-0301	4.000	EA	\$1,465.24	CONC SPILLWAY, TP 1	\$5,860.95
0300	441-0303	4.000	EA	\$1,691.13	CONC SPILLWAY, TP 3	\$6,764.53
0305	500-3200	22.000	CY	\$607.85	CL B CONC	\$13,372.74
0310	511-1000	328.000	LB	\$1.07	BAR REINF STEEL	\$353.63
0314	550-1240	94.000	LF	\$40.46	STM DR PIPE 24",H 1-10	\$3,804.94
0315	550-2180	682.000	LF	\$23.44	SIDE DR PIPE 18",H 1-10	\$15,515.11
0320	550-3618	20.000	EA	\$660.17	SAFETY END SECTION 18" SD,6:1	\$13,203.44
0325	550-4118	3.000	EA	\$320.44	FLARED END SECT 18 IN, SIDE DR	\$961.33
0330	550-4424	2.000	EA	\$772.41	FLARED END SECT 24 IN, SLP DR	\$1,544.82
0335	576-1018	144.000	LF	\$31.97	SLOPE DRAIN PIPE, 18 IN	\$4,604.19
0340	603-6006	12.000	SY	\$54.29	SAND-CEMENT BAG RIP RAP, 6 IN REM WINGWALLS/PARAPETS, STA - 2010EST+3.6%	\$651.47
0345	610-9099	1.000	LS	\$3,039.00	INFLATION-2011EST	\$3,039.00
0350	668-2100	3.000	EA	\$1,803.89	DROP INLET, GP 1	\$5,411.88
<b>SUBTOTAL FOR DRAINAGE:</b>						<b>\$76,333.74</b>

**TOTALS FOR JOB 633145-**

## DETAILED COST ESTIMATE



Job: 633146

<b>ITEMS COST:</b>	<b>\$8,693,940.56</b>
<b>COST GROUP COST:</b>	<b>\$0.00</b>
<b>ESTIMATED COST:</b>	<b>\$8,693,940.56</b>
<b>CONTINGENCY PERCENT:</b>	<b>0.00</b>
<b>ENGINEERING AND INSPECTION:</b>	<b>0.00</b>
<b>ESTIMATED COST WITH CONTINGENCY AND E&amp;I:</b>	<b>\$8,693,940.56</b>

PROJ. NO.  
P.I. NO.  
DATE

BRST-005-5(47)
533145-
11/29/2011

CALL NO.

INDEX (TYPE)  
REG. UNLEADED  
DIESEL  
LIQUID AC

DATE	INDEX
Nov-11	\$ 3.353
	\$ 3.847
	\$ 558.00

Link to Fuel and AC Index:

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

**LIQUID AC ADJUSTMENTS**

$$PA = \left[ \frac{APM - APL}{APL} \right] \times TMT \times APL$$

Asphalt

Price Adjustment (PA)				121766.76	\$	121,766.76
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	892.80		
Monthly Asphalt Cement Price month project let (APL)			\$	558.00		
Total Monthly Tonnage of asphalt cement (TMT)				363.7		

ASPHALT	Tons	%AC	AC ton
Leveling	729	5.0%	36.45
12.5 OGFC		5.0%	0
12.5 mm	1496	5.0%	74.8
9.5 mm SP		5.0%	0
25 mm SP	3054	5.0%	152.7
19 mm SP	1995	5.0%	99.75
	<b>7274</b>		<b>363.7</b>

**BITUMINOUS TACK COAT**

Price Adjustment (PA)			\$	1,948.49	\$	1,948.49
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	892.80		
Monthly Asphalt Cement Price month project let (APL)			\$	558.00		
Total Monthly Tonnage of asphalt cement (TMT)				5.819861749		

Bitum Tack

Gals	gals/ton	tons
1355	232.8234	5.81986175

PROJ. NO.  
P.I. NO.  
DATE

BRST-005-5(47)  
533145-  
11/29/2011

CALL NO.

**BITUMINOUS TACK COAT (surface treatment)**

Price Adjustment (PA)

Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	0	\$	-
Monthly Asphalt Cement Price month project let (APL)			\$	892.80		
Total Monthly Tonnage of asphalt cement (TMT)				558.00		
				0		

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

**TOTAL LIQUID AC ADJUSTMENT** \$ **123,715.25**

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

**Date:** 11/22/2011      **Project:** BRST-005-5(47)  
**Revised:** \_\_\_\_\_      **County:** Effingham/Bryan County  
**PI:** 533145

**Description:** SR 26/US 80 Over Ogeechee River  
**Project Termini:** Bridge Replacement

**Parcels:** 13      **Existing ROW:** Varies  
**Required ROW:** Varies

**Land and Improvements** \_\_\_\_\_ **\$115,132.50**

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$12,000.00

**Valuation Services** \_\_\_\_\_ **\$16,250.00**

**Legal Services** \_\_\_\_\_ **\$83,775.00**

**Relocation** \_\_\_\_\_ **\$26,000.00**

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

**Administrative** \_\_\_\_\_ **\$111,000.00**

**TOTAL ESTIMATED COSTS** \_\_\_\_\_ **\$352,157.50**

**TOTAL ESTIMATED COSTS (ROUNDED)** \_\_\_\_\_ **\$353,000.00**

Preparation Credits	Hours	Signature

**Prepared By:** Lashone Alexander      CG#: 286999      (DATE) 11/22/2011  
**Approved By:** Judith Alexander      CG#: 286999      (DATE) 11/22/2011

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

# NOTICE OF LOCATION AND DESIGN APPROVAL

**SR 26/US 80 @ Ogeechee River & Overflow**

**Project No. BRST-005-5(47) Bryan/Effingham County**

**P. I. NUMBER 533145**

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 Approval: May 9, 2012

The project consist of improvements of S.R. 26/U.S. 80, located in Effingham and Bryan Counties, G.M.D. 1559 and 1380. The project is for the replacement of two structurally deficient and functionally obsolete bridges over the Ogeechee River. The bridges have a high priority for replacement with a sufficiency ratings of 39.45 and 55.48.

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:

Troy Pittman, District 5 Area 5 Engineer  
tpittman@dot.ga.gov  
630 West Boundary Street  
Savannah GA 31402  
Phone: 912-651-2144

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:

Bobby K. Hilliard, P.E.  
State Program Delivery Engineer  
bhilliard@dot.ga.gov  
Georgia Department of Transportation  
600 West Peachtree Street, 25<sup>th</sup> Floor  
Atlanta GA 30308  
Phone: 404-631-1122

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.