

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0007030 **OFFICE** Design Policy & Support
CSBRG-0007-00(030)
GDOT District 1 - Gainesville
Dawson County **DATE** January 24, 2014
Bridge Replacement - SR 9 @ Etowah River

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.

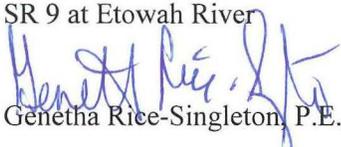
Attachment

DISTRIBUTION:

Bobby Hilliard, Program Control Administrator
Genetha Rice-Singleton, State Program Delivery Engineer
Glenn Bowman, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Phil Copeland, State Right-of-Way Administrator
Lisa Myers, State Project Review Engineer
Andy Casey, State Roadway Design Engineer
Attn: Christopher Rudd, Design Group Manager
Cindy VanDyke, State Transportation Planning Administrator
Jeff Fletcher, Location Bureau Chief
Angela Robinson, Financial Management Administrator
Bayne Smith, District Engineer
Brent Cook, District Preconstruction Engineer
Kim Coley, District Planning & Programming Engineer
Matt Needham, Area Engineer - D1, A1
Otis Clark, Project Manager
BOARD MEMBER - 9th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(030), Dawson County **OFFICE** Program Delivery
PI No. 0007030
SR 9 at Etowah River
 **DATE** January 9, 2014
FROM Genetha Rice-Singleton, P.E., State Program Delivery Engineer
TO Brent A. Story, P.E., State Design Policy Engineer
Attn: Dave Peters
SUBJECT Request for Location and Design Approval

Description and Project Proposal: The proposed project will replace the existing 28' wide bridge with a new 40' wide bridge at the Etowah River over SR 9. The proposed bridge deck will be slightly higher than the existing bridge to allow for staging and constructability. Due to this elevation change, the vertical grades at both ends of the bridge will be slightly modified. The project is located in Dawson County, approximately 4.5 miles south of Dawsonville near M.P. 1.72. The proposed project length is 0.50 miles.

Concept Approval Date: 08/30/2011

Concept Approval: The concept is proposed to be modified to change the maximum allowable grade for the proposed project from 6% to 8% in order to coincide with the GDOT Design Policy Manual.

Environmental Document Type, Approval Date & any Reevaluations: Categorical Exclusion, Approved 12/27/2013.

Public Involvement: No public meetings have been held for this project.

Consistency with Approved Planning:

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

Recommendations: It is the recommendation of this office that the location and design for the project be approved and that the attached Notice be approved for advertising.

(2014)

CONCUR:
~~RECOMMEND:~~ Paul Carpenter 1/16/2014
Director of Engineering

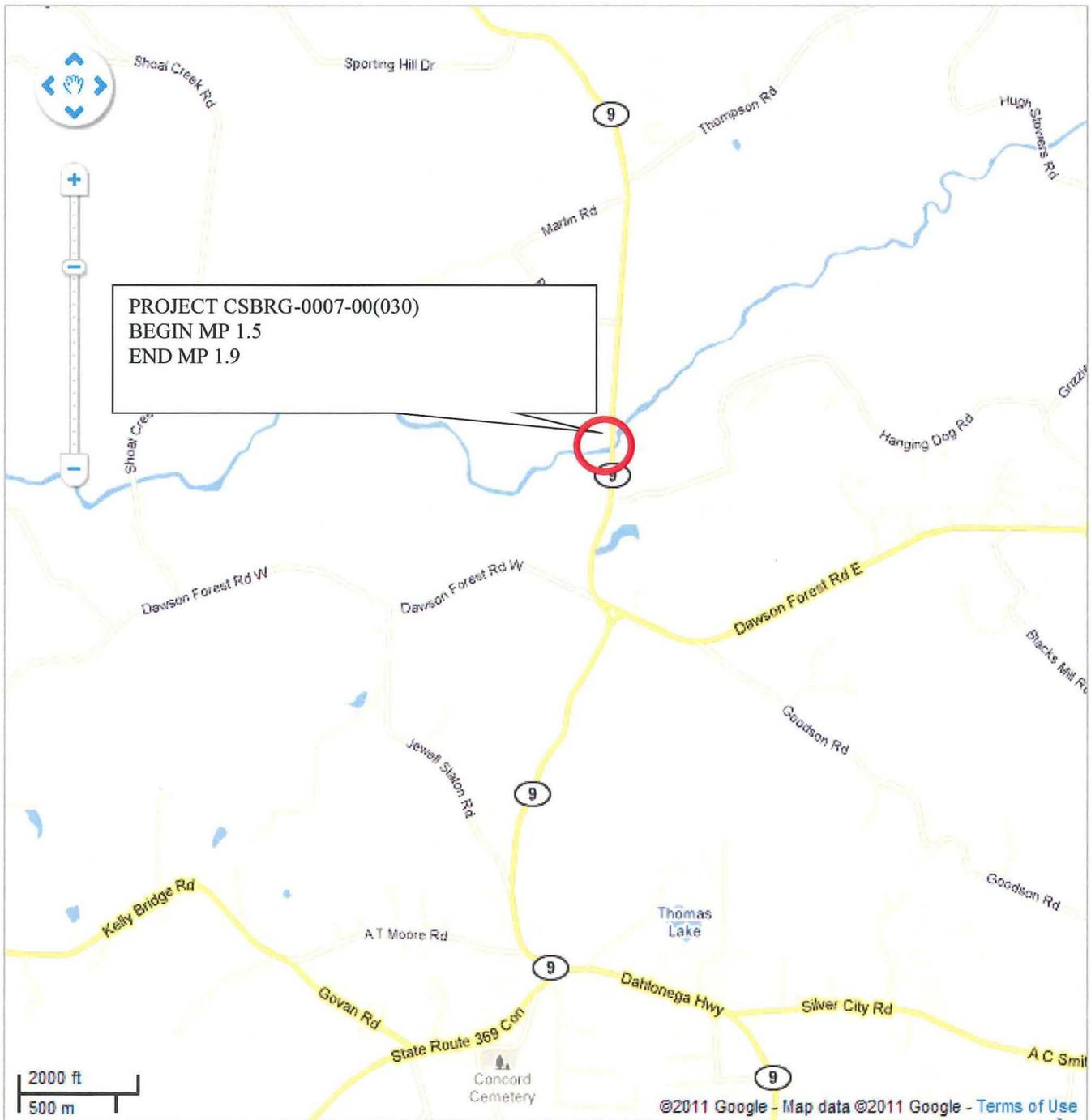
APPROVE: Bill R. M. M. 1/22/14
Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: January 24, 2014

(To be entered by the State Conceptual Design Group Manager)

Attachments: ^{AIS}

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



Location Map

Project: CSBRG-0007-00(030) Dawson County PI No.: 0007030

Description: SR 9 Bridge Replacement

DETAILED COST ESTIMATE



Job: 0007030

JOB NUMBER 0007030

FED/STATE PROJECT NUMBER CSBRG-0007-00(030)

SPEC YEAR: 01

DESCRIPTION: SR 9 @ ETOWAH RIVER

ITEMS FOR JOB 0007030

0010 - ROADWAY ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$75,000.00000	TRAFFIC CONTROL - CSBRG-0007-00(030)	\$75,000.00
0010	153-1300	1.000	EA	\$77,815.22833	FIELD ENGINEERS OFFICE TP 3	\$77,815.23
0335	205-0001	11808.100	CY	\$5.33469	UNCLASS EXCAV	\$62,992.55
0340	206-0002	51928.540	CY	\$6.14117	BORROW EXCAV, INCL MATL	\$318,901.99
0015	210-0100	1.000	LS	\$200,000.00000	GRADING COMPLETE - CSBRG-0007-00(030)	\$200,000.00
0035	310-1101	7353.000	TN	\$16.68191	GR AGGR BASE CRS, INCL MATL	\$122,662.08
0030	402-3121	1667.000	TN	\$70.00000	RECYL AC 25MM SP,GP1/2,BM&HL	\$116,690.00
0020	402-3130	884.000	TN	\$128.00000	RECYL AC 12.5MM SP,GP2,BM&HL	\$113,152.00
0025	402-3190	1749.000	TN	\$123.00000	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$215,127.00
0095	413-1000	884.000	GL	\$2.66968	BITUM TACK COAT	\$2,360.00
0040	433-1000	80.000	SY	\$132.46169	REINF CONC APPROACH SLAB	\$10,596.94
0315	522-1000	1.000	LS	\$72,000.00000	SHORING	\$72,000.00
0325	550-2180	58.000	LF	\$29.55336	SIDE DR PIPE 18",H 1-10	\$1,714.09
0330	550-3318	2.000	EA	\$839.79000	SAFETY END SECTION 18",STD,4:1	\$1,679.58
0045	620-0200	2371.000	LF	\$31.41229	TEMP BARRIER, METHOD NO. 2	\$74,478.54
0125	632-0003	2.000	EA	\$11,244.11111	CHANGEABLE MESS SIGN,PORT,TP 3	\$22,488.22
0130	634-1200	12.000	EA	\$97.73106	RIGHT OF WAY MARKERS	\$1,172.77
0135	641-1100	102.000	LF	\$59.77760	GUARDRAIL, TP T	\$6,097.32
0050	641-1200	1228.000	LF	\$15.69865	GUARDRAIL, TP W	\$19,277.94
0140	641-5001	2.000	EA	\$591.19111	GUARDRAIL ANCHORAGE, TP 1	\$1,182.38
0055	641-5012	3.000	EA	\$1,820.62547	GUARDRAIL ANCHORAGE, TP 12	\$5,461.88
0090	647-0220	1.000	LS	\$35,000.00000	TRAF SIGNAL INSTALLATION, TEMP	\$35,000.00
SUBTOTAL FOR ROADWAY ITEMS:						\$1,555,850.51

0020 - EROSION CONTROL ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0145	163-0232	2.000	AC	\$400.62500	TEMPORARY GRASSING	\$801.25
0150	163-0240	80.000	TN	\$229.55891	MULCH	\$18,364.71
0110	163-0300	2.000	EA	\$1,100.43994	CONSTRUCTION EXIT	\$2,200.88
0280	163-0520	303.000	LF	\$11.82952	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$3,584.34
0320	163-0527	22.000	EA	\$243.83313	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$5,364.33
0155	163-0528	742.000	LF	\$3.73134	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$2,768.65
0275	165-0010	886.000	LF	\$0.72741	MAINT OF TEMP SILT FENCE, TP A	\$644.49
0105	165-0030	1754.000	LF	\$0.77663	MAINT OF TEMP SILT FENCE, TP C	\$1,362.21
0230	165-0041	454.000	LF	\$1.26455	MAINT OF CHECK DAMS - ALL TYPES	\$574.11
0115	165-0101	4.000	EA	\$631.43061	MAINT OF CONST EXIT	\$2,525.72
0165	167-1000	2.000	EA	\$610.70939	WATER QUALITY MONITORING AND SAMPLING	\$1,221.42
0170	167-1500	24.000	MO	\$493.20567	WATER QUALITY INSPECTIONS	\$11,836.94
0270	171-0010	1769.000	LF	\$2.32815	TEMPORARY SILT FENCE, TYPE A	\$4,118.50
0060	171-0030	3508.000	LF	\$3.15260	TEMPORARY SILT FENCE, TYPE C	\$11,059.32
0175	171-0030	3437.000	LF	\$3.15646	TEMPORARY SILT FENCE, TYPE C	\$10,848.75
0065	643-8200	1024.000	LF	\$1.75628	BARRIER FENCE (ORANGE), 4 FT	\$1,798.43
0180	700-6910	5.000	AC	\$446.35394	PERMANENT GRASSING	\$2,231.77
0185	700-7000	12.000	TN	\$64.41512	AGRICULTURAL LIME	\$772.98
0190	700-8000	5.000	TN	\$348.74419	FERTILIZER MIXED GRADE	\$1,743.72
0195	700-8100	205.000	LB	\$2.44628	FERTILIZER NITROGEN CONTENT	\$501.49
0100	716-2000	6756.000	SY	\$0.95178	EROSION CONTROL MATS, SLOPES	\$6,430.23
SUBTOTAL FOR EROSION CONTROL ITEMS:						\$90,754.24

DETAILED COST ESTIMATE



Job: 0007030

0030 - SIGNING AND MARKING ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0290	610-6515	5.000	EA	\$85.36265	REM HIGHWAY SIGN, STD	\$426.81
0295	611-5360	5.000	EA	\$85.92923	RESET HIGHWAY SIGN	\$429.65
0200	636-1020	10.000	SF	\$15.61811	HWY SGN,TP1MAT,REFL SH TP3	\$156.18
0300	636-2070	78.000	LF	\$7.95898	GALV STEEL POSTS, TP 7	\$620.80
0260	653-0120	6.000	EA	\$68.94206	THERM PVMT MARK, ARROW, TP 2	\$413.65
0265	653-0210	1.000	EA	\$99.66667	THERM PVMT MARK, WORD , TP 1	\$99.67
0070	653-1501	4300.000	LF	\$0.42167	THERMO SOLID TRAF ST 5 IN, WHI	\$1,813.18
0075	653-1502	4000.000	LF	\$0.39638	THERMO SOLID TRAF ST, 5 IN YEL	\$1,585.52
0240	653-3501	170.000	GLF	\$0.42531	THERMO SKIP TRAF ST, 5 IN, WHI	\$72.30
0245	653-3502	500.000	GLF	\$0.46213	THERMO SKIP TRAF ST, 5 IN, YEL	\$231.07
0250	653-6004	47.000	SY	\$3.26927	THERM TRAF STRIPING, WHITE	\$153.66
0255	653-6006	743.000	SY	\$2.90336	THERM TRAF STRIPING, YELLOW	\$2,157.20
0225	654-1003	74.000	EA	\$4.51348	RAISED PVMT MARKERS TP 3	\$334.00
0310	657-1084	160.000	LF	\$6.44375	PRF PL SD PVMT MKG,8",WH,TP PB	\$1,031.00
0235	657-6085	360.000	LF	\$6.12407	PRF PL SD PVMT MKG,8",B/Y,TPPB	\$2,204.67
SUBTOTAL FOR SIGNING AND MARKING ITEMS:						\$11,729.36

0040 - BRIDGE ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0305	543-9000	1.000	LS	\$364,000.00000	CONSTR OF BRIDGE COMPLETE - BRIDGE 1	\$364,000.00
SUBTOTAL FOR BRIDGE ITEMS:						\$364,000.00

TOTALS FOR JOB 0007030

ITEMS COST:	\$2,022,334.11
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$2,022,334.11
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$2,123,450.82
LIQUID AC ADJ.:	\$ 73,121.91
TOTAL:	\$ 2,194,572.73

DRP

PROJ. NO. 7030
P.I. NO. 0007030
DATE 1/13/2014

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Jan-14	\$ 3.240
DIESEL		\$ 3.828
LIQUID AC		\$ 557.00

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)				71853	\$	71,853.00
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	891.20		
Monthly Asphalt Cement Price month project let (APL)			\$	557.00		
Total Monthly Tonnage of asphalt cement (TMT)				215		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm	884	5.0%	44.2
9.5 mm SP		5.0%	0
25 mm SP	1667	5.0%	83.35
19 mm SP	1749	5.0%	87.45
	4300		215

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$	1,268.91	\$	1,268.91
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	891.20		
Monthly Asphalt Cement Price month project let (APL)			\$	557.00		
Total Monthly Tonnage of asphalt cement (TMT)				3.796869215		

Bitum Tack

Gals	gals/ton	tons
884	232.8234	3.79686922

PROJ. NO.

7030

CALL NO.

P.I. NO.

0007030

DATE

1/13/2014

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)						0	\$	-
Monthly Asphalt Cement Price month placed (APM)		Max. Cap	60%	\$	891.20			
Monthly Asphalt Cement Price month project let (APL)				\$	557.00			
Total Monthly Tonnage of asphalt cement (TMT)					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							\$	73,121.91
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NOTICE OF LOCATION AND DESIGN APPROVAL

CSBRG-0007-00(030), Dawson County

P.I. NUMBER 0007030

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: January 24, 2014.

The project is located in Dawson on S.R. 9. The project is located in Land Districts 4 and 4-1.

The project is located in Dawson County, approximately 4.5 miles south of Dawsonville near M.P. 1.72. The proposed project represents the construction of a new two lane bridge over the Etowah River. The project will begin at approximately M.P. 1.4 and extend to M.P. 1.9 for a total project length of approximately 0.5 miles. This project will replace the existing 28' wide bridge with a new 40' wide bridge along SR 9 over the Etowah River. The proposed bridge will be slightly higher than the existing bridge to allow for staging and constructability. Due to this elevation change, the vertical grades at both ends of the bridge will be slightly modified.

This proposed bridge will consist of two 12' wide travel lane with 8-foot shoulders. The roadway shoulders will include a 2-foot paved section.

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:

Brent Cook, D1PC, Asst. District Engineer
bcook@dot.ga.gov
2505 Athens Highway
Gainesville, Georgia 30507
770-532-5522

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 – State Program Delivery Engineer
grice-singleton@dot.ga.gov
600 West Peachtree Street
Atlanta, Georgia 30308
404-631-1522

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