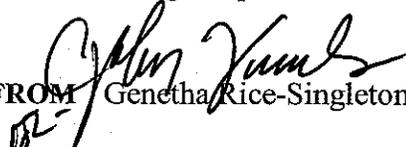


ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE** P. I. No. 0006660, Elbert County                      **OFFICE** Preconstruction  
CSBRG-0006-00(660)  
CR 183/Plantation Road over Coldwater Creek-  
Bridge Replacement                                              **DATE** January 5, 2009

  
**FROM** Genetha Rice-Singleton, Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT** APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Ron Wishon  
Glenn Bowman  
Ken Thompson  
Michael Henry  
Keith Golden  
Angela Alexander  
Paul Liles  
Russell McMurry  
Robert Mahoney  
Ted Cashin  
BOARD MEMBER

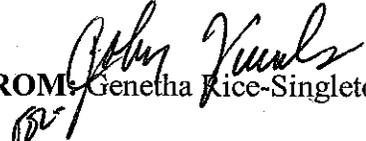
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** P.I. No. 0006660, Elbert County  
CSBRG-0006-00(660)  
CR 183/Plantation Road over Coldwater Creek -  
Bridge Replacement

**OFFICE:** Preconstruction

**DATE:** October 24, 2008

**FROM:**  Genetha Rice-Singleton, Assistant Director of Preconstruction

**TO:** Gerald M. Ross, P.E., Chief Engineer

**SUBJECT: PROJECT CONCEPT REPORT**

This project is the replacement of a structurally deficient bridge on CR 183/Plantation Road over Coldwater Creek, 8.3 miles north of Elberton, Georgia. The existing bridge, constructed in 1941, is a 71' x 12.2' one lane timber/steel structure with a sufficiency rating of 18. County Road 183 at this location is a 20' wide dirt roadbed. County Road 183 is classified as a rural local road. The existing traffic (2008) along this section of CR 183 is 50 VPD. The design year (2031) volumes are projected to be 225 VPD. The posted and proposed speed design is 35 MPH.

The project proposes to construct a new 100' x 24' concrete bridge over Coldwater Creek at the existing bridge site. The approaches will consist of two, 10' lanes with 6' rural shoulders. The existing bridge will be closed to traffic during construction. Elbert County will be responsible for the signing and maintenance of detour routes.

Environmental concerns include requiring a COE 404 permit; Categorical Exclusion will be prepared; an offsite detour PIOH will be held; Time saving procedures are appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	\$ 759,000	\$ 549,000	L110	LR
Right-of-way & Utilities	Local	Local	Local	Local

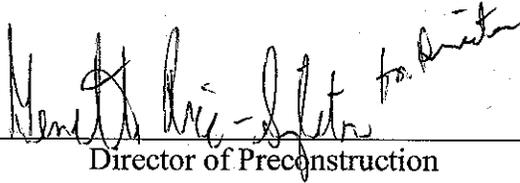
\* Elbert County signed PFA for right-of-way and utilities 11-14-05

P.I. No. 0006660, Elbert County  
Page 2  
October 24, 2008

I recommend this project concept be approved.

GRS: JDQ  
Attachment

CONCUR

  
\_\_\_\_\_  
Director of Preconstruction

APPROVED

  
\_\_\_\_\_  
Gerald M. Ross, P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

BRIDGE REPLACEMENT  
CR 183/PLANTATION ROAD OVER COLDWATER CREEK

Project Number: CSBRG-0006-00(660)

County: Elbert

P. I. Number: 0006660

Federal Route Number: N/A

State Route Number: N/A

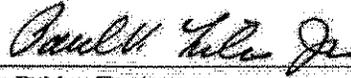
Recommendation for approval:

DATE 08-25-08



Project Manager

DATE 08-29-08



State Bridge Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE 9-16-08



Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

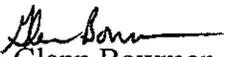
**FILE: P.I. No. 0006660**

**OFFICE: Environment/Location**

**PROJECT No. CSBRG-0006-00(660) / ELBERT  
County**

**DATE: 9/22/08**

**Bridge Replacement -- CR 183/Plantation Road over Coldwater Creek**

**FROM:**   
Glenn Bowman, P.E., State Environmental/Location Engineer  
**TO:** Genetha Rice-Singleton, Assistant Director of Preconstruction  
**SUBJECT: PROJECT CONCEPT REPORT REVIEW**

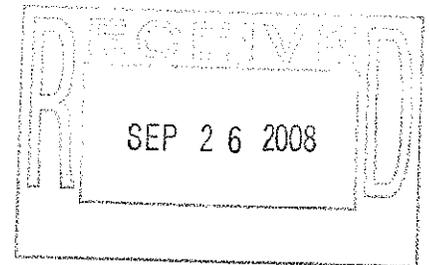
The Concept Report for the above project has been reviewed and appears satisfactory subject to the following comments:

1. The bridge is listed as Not Eligible in the GHBS. No known archaeological or historic resources exist in the immediate vicinity of the bridge.
2. Some type of detour public involvement will be required prior to the CE going to FHWA. (the concept report says prior to construction.) This needs to be factored into the schedule.

If you have any questions, please contact Glenn Bowman at (404) 699-4401.

GB:lc

cc: Brian Summers  
Jamie Simpson  
Keith Golden  
Angela Alexander  
Paul Liles  
Russell McMurry



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

BRIDGE REPLACEMENT  
CR 183/PLANTATION ROAD OVER COLDWATER CREEK

Project Number: CSBRG-0006-00(660)

County: Elbert

P. I. Number: 0006660

Federal Route Number: N/A

State Route Number: N/A

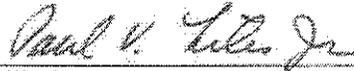
Recommendation for approval:

DATE 10-8-08



Project Manager

DATE 10/8/08



State Bridge Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE 10-14-08



State Traffic Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

BRIDGE REPLACEMENT  
CR 183/PLANTATION ROAD OVER COLDWATER CREEK

Project Number: CSBR0-0006-00(660)

County: Elbert

F. I. Number: 0006660

Federal Route Number: N/A

State Route Number: N/A

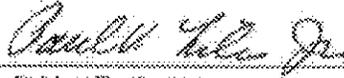
Recommendation for approval:

DATE 08-25-08



Project Manager

DATE 08-29-08



State Bridge Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Financial Management Administrator

DATE 9/22/08



State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

BRIDGE REPLACEMENT  
CR 183/PLANTATION ROAD OVER COLDWATER CREEK

Project Number: CSBRG-0006-00(660)

County: Elbert

P. I. Number: 0006660

Federal Route Number: N/A

State Route Number: N/A

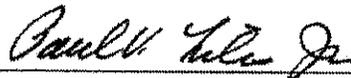
Recommendation for approval:

DATE 08-25-08



Project Manager

DATE 08-29-08



State Bridge Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Engineer

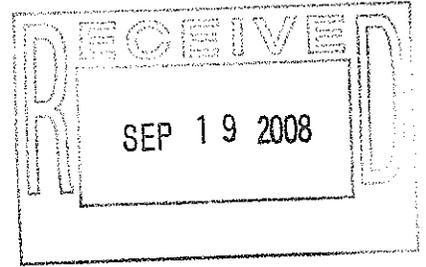
DATE \_\_\_\_\_

District Engineer

DATE 9/30/09



Project Review Engineer



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

BRIDGE REPLACEMENT  
CR 183/PLANTATION ROAD OVER COLDWATER CREEK

Project Number: CSBRG-0006-00(660)  
County: Elbert  
P. I. Number: 0006660

Federal Route Number: N/A  
State Route Number: N/A

Recommendation for approval:

DATE 08-25-08

Project Manager

DATE 08-29-08

State Bridge Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE 9-18-2008

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

## NOTICE OF LOCATION AND DESIGN APPROVAL

### *PROJECT CSBRG-0006-00(660), ELBERT COUNTY*

*P. I. NUMBER 0006660*

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

The date of location approval is JANUARY 5, 2009.

*The project consists of the replacement of the existing bridge and new roadway approaches on CR 183 over Coldwater Creek in Elbert County. The total length of project is 0.09 miles, beginning at mile log 0.47 and ending at mile log 0.56. The project is entirely within GMD 315, Elbert County, Georgia.*

*The construction will consist of the removal of the existing bridge and the construction of the proposed bridge along the original alignment. The existing bridge is approximately 71' long and 12.2' wide and is in need of replacement. The proposed bridge is approximately 100' long and is 24' wide (gutter to gutter). The proposed roadway width is 20' with rural shoulders of 6'. The existing road will be closed and traffic will be detoured during construction.*

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:

*Todd Wood  
TWood@dot.ga.gov  
301 Conger Road  
Carnesville, Georgia 30521  
706-384-7269*

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:

*Ted Cashin  
Bridge Design Group Leader  
Office of Bridge Design  
TCashin@dot.ga.gov  
No. 2 Capitol Square, SW  
Atlanta, Georgia 30334  
404-656-5302*

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.

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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INTERDEPARTMENT CORRESPONDENCE

FILE      **CSBRG-0006-00(660) Elbert County**  
            CR 183/Plantation Road over Coldwater Creek  
            P.I. No. 0006660

OFFICE    Atlanta

DATE      October 8, 2008

FROM       Paul V. Liles, Jr., State Bridge Design Engineer

TO         Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT   **PROJECT CONCEPT REPORT**

---

Attached is the original copy of the Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

Those on the distribution list below should review the Concept Report and send comments and/or the signature page to the Preconstruction Office within 10 days as per the PDP.

If you have any questions or require further information please call (404)631-1910 or Jody Braswell of Gresham, Smith and Partners at (770) 754-0755.

*Distribution:*

Brian Summers, Project Review Engineer  
Glenn Bowman, State Environmental/Location Engineer  
Keith Golden, State Traffic Safety and Design Engineer  
Angela Alexander, State Transportation Planning Administrator  
Jamie Simpson, State Financial Management Administrator  
Russell McMurry, District Engineer – Gainesville

PVL:WEI:EJC

cc: Gresham, Smith and Partners

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

PROJECT CONCEPT REPORT

BRIDGE REPLACEMENT  
CR 183/PLANTATION ROAD OVER COLDWATER CREEK

Project Number: CSBRG-0006-00(660)

County: Elbert

P. I. Number: 0006660

Federal Route Number: N/A

State Route Number: N/A

Recommendation for approval:

DATE 10-8-08



Project Manager

DATE 10/8/08



State Bridge Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

\_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_

State Transportation Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_

State Traffic Engineer

DATE \_\_\_\_\_

\_\_\_\_\_

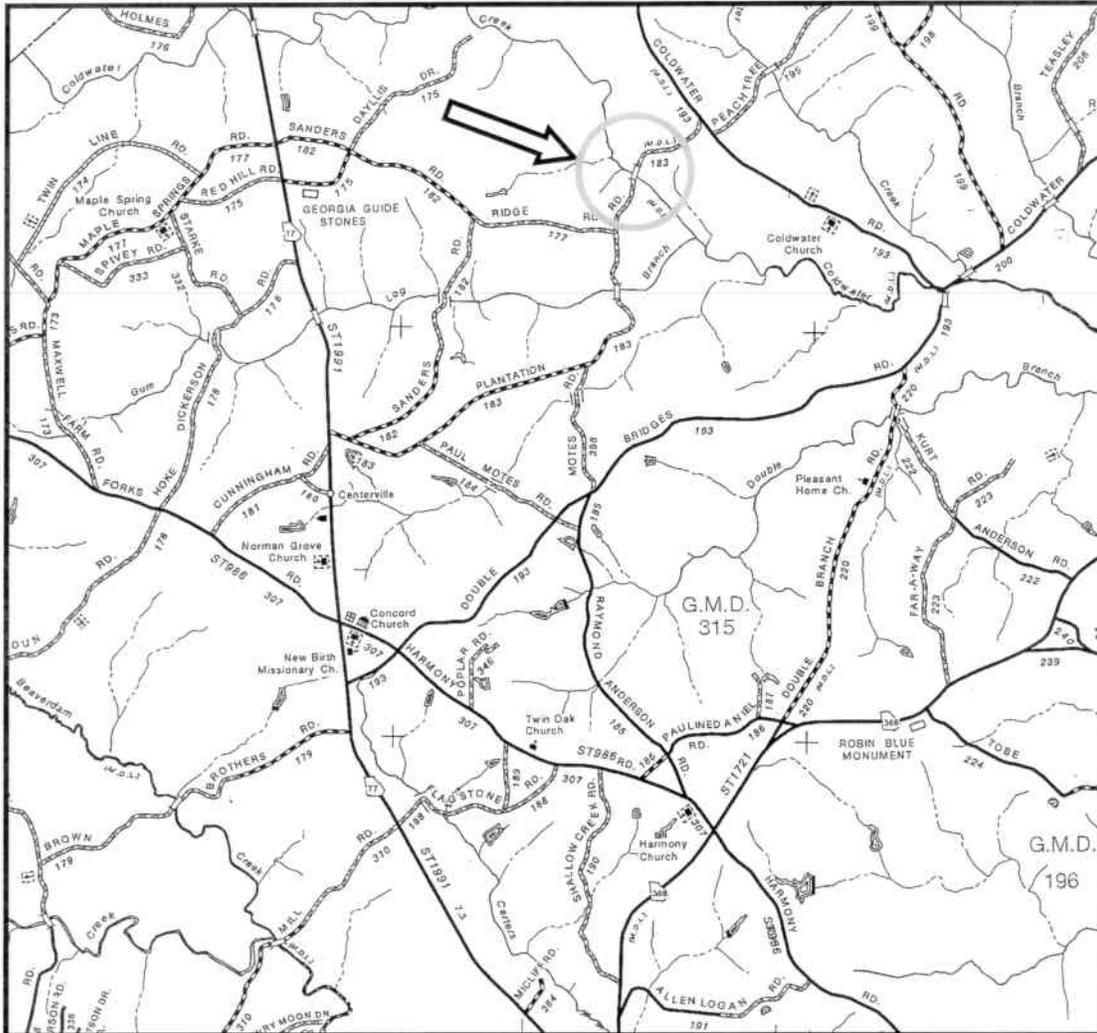
District Engineer

DATE \_\_\_\_\_

\_\_\_\_\_

Project Review Engineer

### PROJECT LOCATION MAP



Elbert County

**Need and Purpose:** The purpose of the proposed project is to replace the structurally deficient bridge on County Road (CR) 183/Plantation Road Bridge over Coldwater Creek. CR 183 is classified as a Rural Local Road. The 2008 Annual Daily Traffic (ADT) is composed of approximately 50 vehicles per day (vpd). Future ADT is anticipated to measure at approximately 225 vpd by 2031.

The latest Bridge Inventory Data Listing gives the current CR 183 bridge a sufficiency rating of 18.47. Sufficiency rating is a scale used by the Georgia Department of Transportation (GDOT) to determine the structural and geometric condition of a bridge. This rating is determined by a

Project Concept Report page 3  
Project Number: CSBRG-0006-00(660)  
P. I. Number: 0006660  
County: Elbert

federal definition adopted from the Association of American State Highway and Transportation Officials (AASHTO) standards and is based on structural adequacy and safety, serviceability, functional obsolescence, and necessity for public use. Ranging on a point system from one to 100, any bridge with ratings of 50 points or lower are candidates for replacement in order to provide a safe, structurally sufficient bridge for motorists and pedestrians. A rating of one is given to structures in serious need of replacement, and a rating of 100 is given to bridges without any deficiencies. Because the sufficiency rating of the bridge is below the state recommended guidelines, this bridge will need to be replaced to meet the minimum sufficiency rating.

The existing bridge is posted for a weight limit of 5 tons. The lowest that a posted weight limit can be is 3 tons. Any limit below 3 tons results in closure of the existing bridge. Previously, this road served as a school bus route; due to weight limit restrictions, school buses can no longer use the bridge and must be rerouted to avoid it. In its existing condition, the bridge can only serve one lane of traffic, narrowing the two lane road on either side.

The existing bridge has a structural evaluation rating of two. The structural evaluation rating is on a scale of 0-9 with two being the lowest rating for an operable bridge. A zero requires closing the bridge and a two requires replacement. Because the bridge has a structural evaluation rating of two, it does not pass the minimal requirements for the structural evaluation rating scale.

**Description of the proposed project:** The proposed project will replace the existing bridge on CR 183/Plantation Road from MP 0.50 to MP 0.54 over Coldwater Creek in Elbert County. The existing structure is formed of H-frame steel beams for the supports and base of the roadbed, while mismatched pieces of lumber are perpendicular to the H-frame steel to form the deck of the bridge. Further, additional mismatched pieces of lumber have been placed parallel to the H-frame steel on top of the perpendicular pieces of wood.

The bridge location is in a rural area of the county with the approaching roadway on both sides of the bridge unpaved and consisting of gravel and hardened soil. The current bridge structure measures approximately 71 feet in length with an overall deck width of approximately 12.0 feet. The current posted speed limit is 35 miles per hour (mph).

The replacement bridge will be approximately 100 feet in length with a width of 24 feet (gutter to gutter) to meet current clear distance requirements. Some additional right-of-way will be needed for tie-in purposes on the bridge approaches.

Is the project located in a Non-attainment area? \_\_\_\_\_ Yes      X   No.

PDP Classification: Major \_\_\_\_\_    Minor   X  

Federal Oversight: Full Oversight ( ),    Exempt(X),    State Funded( ),    or Other ( )

Functional Classification:   Rural Local Road  

U. S. Route Number(s):      N/A      State Route Number(s):      N/A

**Traffic (AADT):**

Current Year (2008): 50      Design Year (2031): 225

**Existing design features:**

- Typical Section: 2-10 ft. unpaved travel lanes, one in each direction, 2' rural shoulders.
- Posted speed: 35 mph
- Maximum superelevation for curve: 2%
- Maximum grade:
  - CR 183: 3%
- Width of right of way: 30 ft.
- Major structures: Bridge over Coldwater Creek, 2-span, length – 71', width – 12.2'
  - GDOT Bridge Inventory Structure I.D.: 105-5041-0; Sufficiency Rating 18.47
- Major interchanges or intersections along the project: None.
- Existing length of roadway segments: 510 feet (Mile log 0.47 – 0.56 mi)

**Proposed Design Features:**

- Proposed typical section: 2-10 ft. travel lanes, one in each direction, 6' rural shoulders
- Proposed Design Speed Mainline: 35 mph
- Proposed Maximum grade Mainline: 3.5%      Maximum grade allowable: 7%
- Proposed Maximum grade Side Street: N/A      Maximum grade allowable: N/A
- Proposed Maximum grade driveway: N/A
- Proposed Minimum Radius: 371'      Minimum radius allowable: 371'
- Superelevation Rate: 6% Max.
- Right of way
  - Width: 130 feet
  - Easements: Temporary ( ), Permanent ( ), Utility ( ), Other ( ).
  - Type of access control: Full ( ), Partial ( ), By Permit ( X ), Other ( ).
  - Number of parcels: 5      Number of displacements:
    - Business: 0
    - Residences: 0
    - Mobile homes: 0
    - Other: 0
- Structures:
  - Bridges: 1 structure, approximately 100 ft. in length, 24 ft. wide.
- Major intersections and interchanges: None
- Traffic control during construction: Close Plantation Road and detour traffic.
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	( )	( )	( X )
ROADWAY WIDTH:	( )	( )	( X )
SHOULDER WIDTH:	( )	( )	( X )
VERTICAL GRADES:	( )	( )	( X )
CROSS SLOPES:	( )	( )	( X )

STOPPING SIGHT DISTANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUPERELEVATION RATES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HORIZONTAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPEED DESIGN:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE STRUCTURAL CAPACITY:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Design Exceptions: None anticipated
- Design Variances: None anticipated.
- Environmental concerns:
  - One NRHP property is listed within one mile of the project limits. The site was listed in 1978 and it appears that no county wide survey has been done in the area since then. Three to five structures may lie within the viewshed of the bridge.
  - Archaeological site potential is unknown. No previously recorded sites are located in the vicinity of the study area. Location of the ROW adjacent to the creek indicates the potential for undiscovered sites.
  - The existing bridge is not located on the NRHP listing.
- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes (  ), No (  ),
  - Categorical exclusion anticipated (  ),
  - Environmental Assessment/Finding of No Significant Impact (FONSI) (  ), or
  - Environmental Impact Statement (EIS) (  ).
- Utility involvements:
  - Power
  - Telephone

**VE Study Required:**            Yes(  )            No(  )

**Project responsibilities:**

- Design: GDOT
- Right of Way Acquisition: Elbert County
- Relocation of Utilities: Utility Companies
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Contractor
- Providing detours : GDOT

**Coordination**

- Initial Concept Meeting date and brief summary. Attach minutes: **August 9, 2007 – Minutes attached.**
- Concept meeting date and brief summary: **April 8, 2008 – Minutes attached.**
- P.A.R. meetings, dates and results: **Not required.**
- FEMA, USCG, and/or TVA: **Hydraulic report required; FEMA coordination not anticipated.**

Project Concept Report page 6  
Project Number: CSBRG-0006-00(660)  
P. I. Number: 0006660  
County: Elbert

- Public involvement: **Detour meeting will be required prior to construction.**
- Local government comments: **None.**
- Other projects in the area: **None.**
- Other coordination to date.
- Railroads: **None.**

#### Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 12 Months.
- Time to complete preliminary construction plans: 1 Months.
- Time to complete right of way plans: 1 Months.
- Time to complete the Section 404 Permit: 6 Months. *WLD*
- Time to complete final construction plans: 6 Months.
- Time to complete to purchase right of way: 6-8 Months.

#### Alternates considered:

- 1) **Closing the bridge for replacement** – this alternate was chosen due to the low amount of traffic currently using the bridge and the number of alternates available
- 2) **Detour Bridge** – this alternate was not chosen due to the additional right of way and impacts associated with a detour bridge, the low amount of traffic on the road and the number of alternates available for those that currently use the bridge
- 3) **Construct parallel bridge to replace existing bridge** – this alternate was not chosen because realigning the bridge would introduce unfavorable geometry and would require additional right of way.
- 4) **No Build**—this alternate was not considered prudent due to the low sufficiency rating of the bridge

#### Comments:

#### Attachments:

1. Cost Estimate:
  - a. Construction
  - b. Right-of-Way
  - c. Utilities
2. Concept Layout.
3. Proposed Detour Map
4. Typical sections.
5. Bridge inventory.
6. Environmental screening summary.
7. Location and Design Notice
8. Concept Team Meeting Minutes
9. Kickoff Team Meeting Minutes

### Estimate Report for file "CSBRG-0006-00(660)"

<b>Section Roadway Items</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
150-1000	1	LS	65000.00	TRAFFIC CONTROL - CSBRG-0006-00(660)	65000.00
210-0100	1	LS	80000.00	GRADING COMPLETE - CSBRG-0006-00(660)	80000.00
310-1101	581	TN	75.00	GR AGGR BASE CRS, INCL MATL	43575.00
402-3113	105	TN	75.00	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	7875.00
402-3121	275	TN	75.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	20625.00
402-3190	137	TN	75.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	10275.00
413-1000	175	GL	2.00	BITUM TACK COAT	350.00
433-1000	240	SY	155.00	REINF CONC APPROACH SLAB	37200.00
641-1100	83	LF	50.00	GUARDRAIL, TP T	4150.00
641-1200	385	LF	16.00	GUARDRAIL, TP W	6160.00
641-5001	2	EA	635.00	GUARDRAIL ANCHORAGE, TP 1	1270.00
641-5012	2	EA	1770.00	GUARDRAIL ANCHORAGE, TP 12	3540.00
<b>Section Sub Total:</b>					<b>\$280,020.00</b>

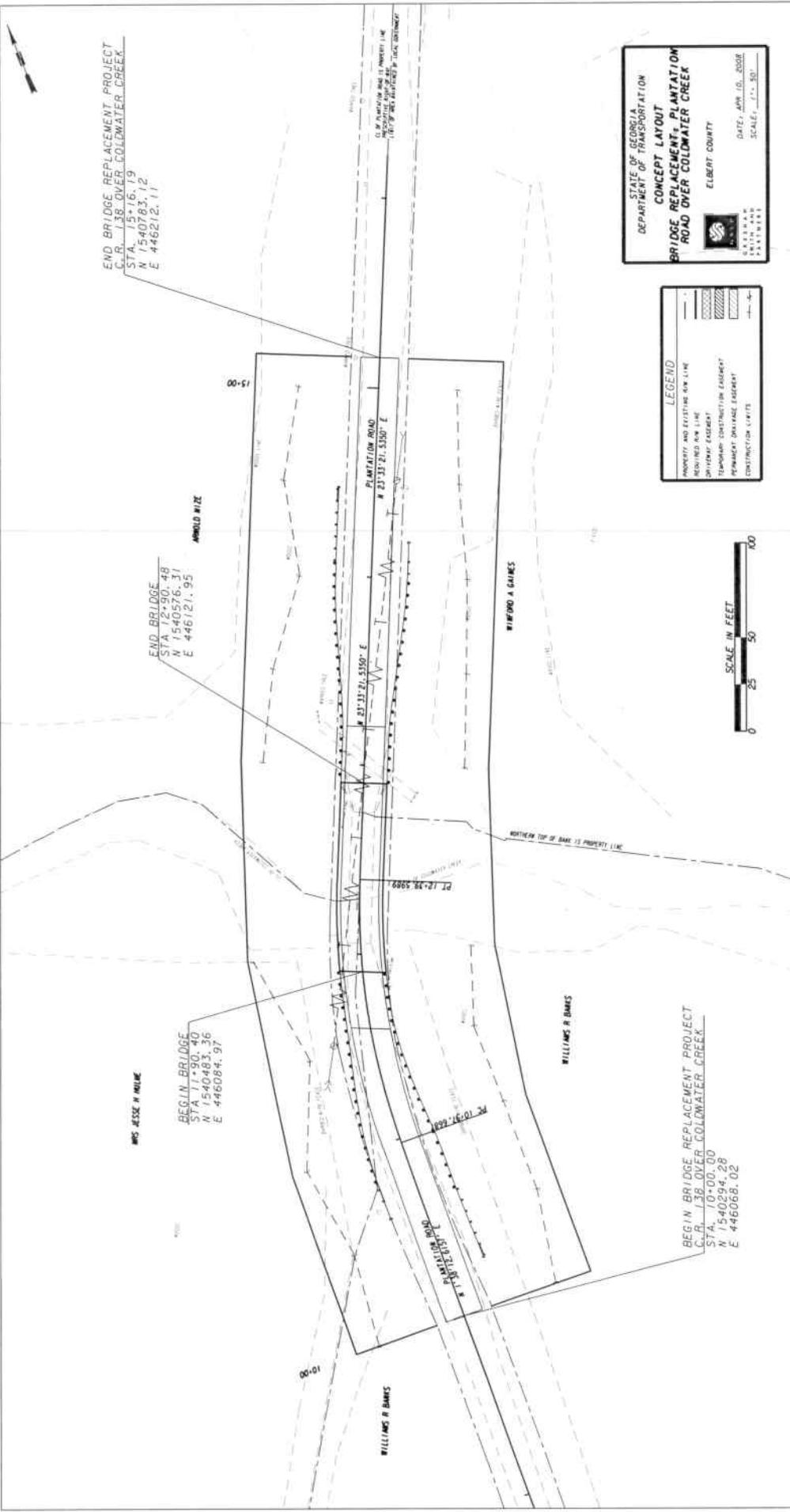
<b>Section Erosion Control Items</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
000-XXXX	1	Lump Sum	20000.00	EROSION CONTROL - PROJECT	20000.00
<b>Section Sub Total:</b>					<b>\$20,000.00</b>

<b>Section Signing and Marking Items</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
000-XXXX	1	Lump Sum	5000.00	SIGNING AND MARKING - PROJECT	5000.00
<b>Section Sub Total:</b>					<b>\$5,000.00</b>

<b>Section Bridge Items</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
000-XXXX	2400	SF	100.00	BRIDGE OVER COLDWATER CREEK	240000.00
<b>Section Sub Total:</b>					<b>\$240,000.00</b>

**Total Estimated Cost: \$545,020.00**

<b>Subtotal Construction Cost</b>		<b>\$545,020.00</b>
E&C Rate 11.0 %		\$59,952.20
Inflation Rate 0.0 % @ 0 Years		\$0.00
<b>Total Construction Cost</b>		
Right Of Way		\$0.00
ReImb. Utilities		\$0.00
<b>Grand Total Project Cost</b>		
		<b>\$604,972.20</b>



END BRIDGE REPLACEMENT PROJECT  
 C.R. 138 OVER COLDWATER CREEK  
 STA. 15+16.19  
 N 1540783.12  
 E 446212.11

END BRIDGE  
 STA. 12+90.48  
 N 1540576.31  
 E 446121.95

BEGIN BRIDGE  
 STA. 11+90.40  
 N 1540483.36  
 E 446084.97

BEGIN BRIDGE REPLACEMENT PROJECT  
 C.R. 138 OVER COLDWATER CREEK  
 STA. 10+00.00  
 N 1540294.28  
 E 446068.02

00+01

15+00

00+01

WILLIAMS R BANKS

PLANTATION ROAD  
 # 23'33" 31.3350' E

PLANTATION ROAD  
 # 23'33" 31.3350' E

PLANTATION ROAD  
 # 12+78.5889

PLANTATION ROAD  
 # 10+91.66

WILFORD A GAINES

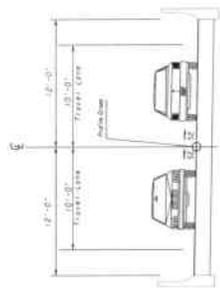
WILLIAMS R BANKS

STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION  
**BRIDGE REPLACEMENT PLANTATION ROAD OVER COLDWATER CREEK**  
 CONCEPT LAYOUT  
 ELBERT COUNTY  
 DATE: APR 10, 2008  
 SCALE: 1" = 50'

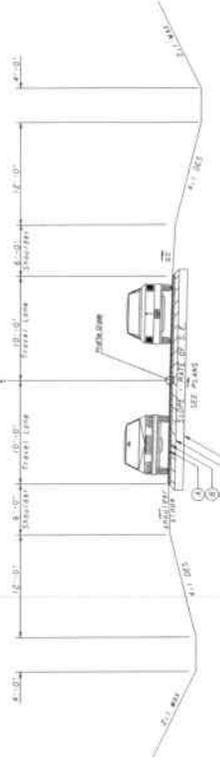
**LEGEND**

- PROPERTY AND EXISTING ROW LINE
- REQUIRED ROW LINE
- DRIVEWAY EXISTENT
- TEMPORARY CONSTRUCTION EASEMENT
- PERMANENT CONSTRUCTION EASEMENT
- CONSTRUCTION LIMITS



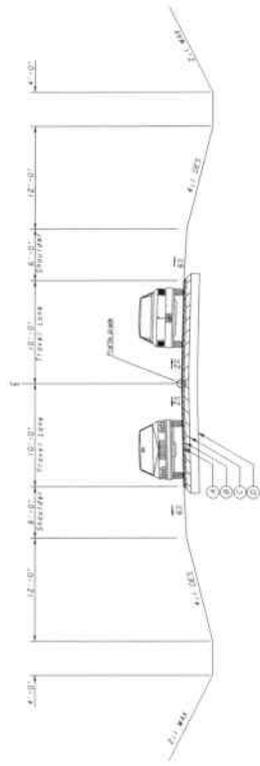


**TYPICAL SECTION 1**  
 CR 183/PLANTATION ROAD  
 BRIDGE OVER COLDWATER CREEK  
 SUPERELEVATED SECTION

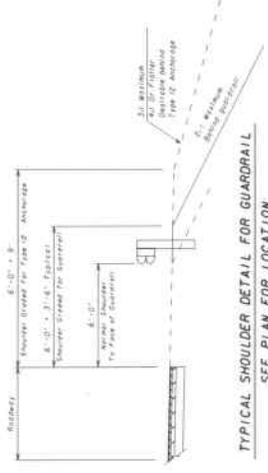


**TYPICAL SECTION 3**  
 CR 183/PLANTATION ROAD  
 SUPERELEVATED SECTION

S.C. RATE	THICKNESS	THICKNESS
4.00	5.00	4.00
6.00	7.00	5.00
8.00	9.00	6.00



**TYPICAL SECTION 2**  
 CR 183/PLANTATION ROAD  
 TANGENT SECTION



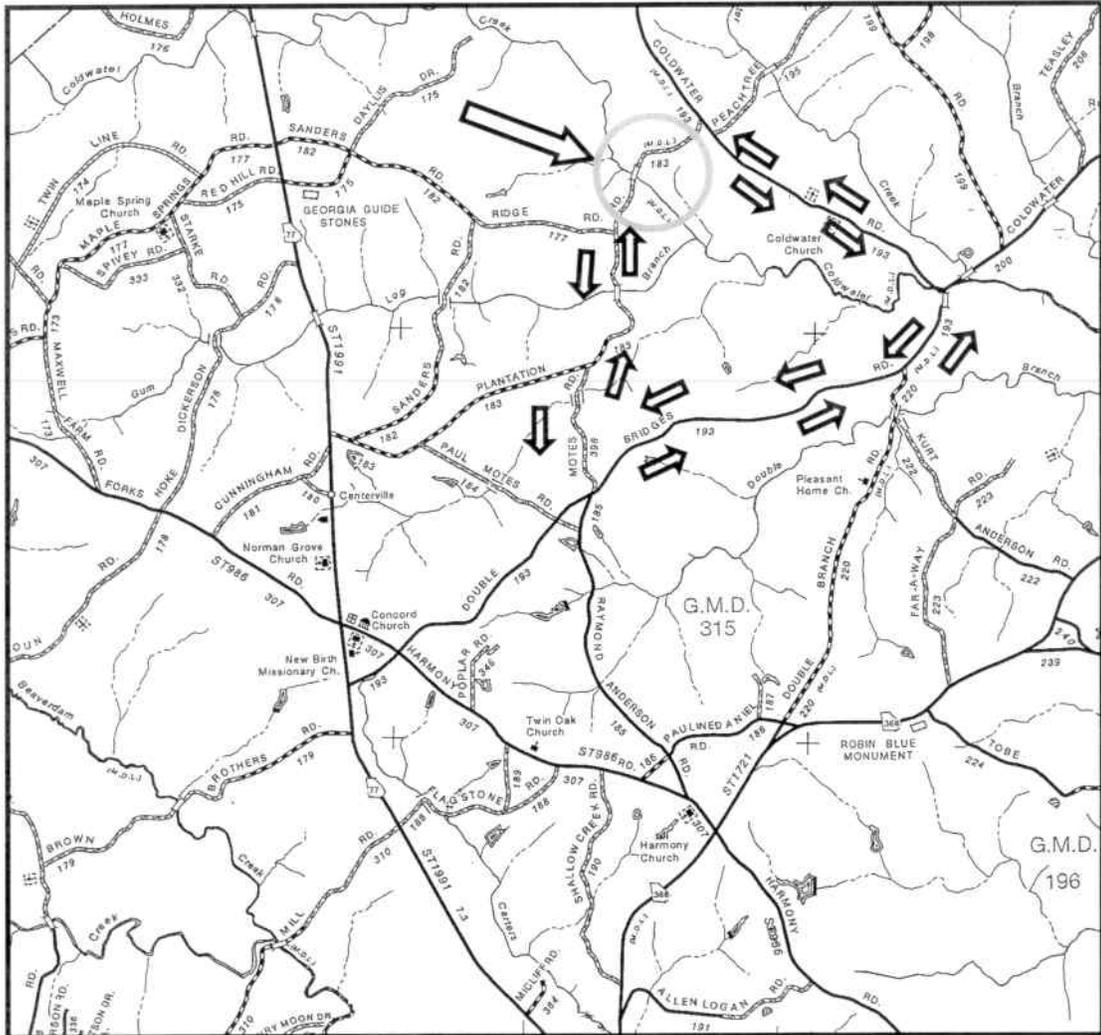
**TYPICAL SHOULDER DETAIL FOR GUARDRAIL**  
 SEE PLAN FOR LOCATION

**REQUIRED PAVEMENT**

- ① RECYCLED ASPHALTIC CONCRETE 1.5 IN. MIN. SUPERPAVE, TYPE 1, GR 1 OR BLEND 1, INCL. BITUM MAT'L & H. LIME 1165 LB/YSO. TD. 1
- ② RECYCLED ASPHALTIC CONCRETE 1.5 IN. MIN. SUPERPAVE, GP 1 OR 2, INCL. BITUM MAT'L & H. LIME 1220 LB/YSO. TD. 1
- ③ RECYCLED ASPHALTIC CONCRETE 2.5 IN. MIN. SUPERPAVE, GP 1 OR 2, INCL. BITUM MAT'L & H. LIME 1440 LB/YSO. TD. 1
- ④ GRADED AGGREGATE BASE, 12 IN.

 <p>GRESHAM SMITH AND PARTNERS</p>	<p>NOT TO SCALE</p>	<p>REVISION DATES</p>
		<p>STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: BRIDGE</p> <p><b>TYPICAL SECTIONS</b></p> <p>CSBRG-0006-0016601 ELBERT COUNTY</p>

PROJECT DETOUR MAP



Elbert County

Proposed Detour Length – Approx. 6.5 miles

Proposed Detour Route – South on Plantation Road, South on Motes Road,  
East on Double Bridges Road, Northwest on Coldwater Road, West on  
Plantation Road

Bridge Inventory Data Listing  
Georgia Department of Transportation.

Structure ID: 105-5041-0

Elbert

SUFF. RATING: 18.47

**Location & Geography**

\* Structure ID: 105-5041-0  
 \* 200 Bridge Information: COLDWATER CREEK  
 \* 6A Feature Int: 0  
 \* 6B Critical Bridge: CR00183  
 \* 7A Route Number Carried: C\*WATER-PLANTATION  
 \* 7B Facility Carried: 8.3 MI N OF ELBERTON  
 \* 9 Location: 1  
 2 DOT District: 2006  
 207 Year Photo: 24 Date: 11/16/2006  
 \* 91 Inspection Frequency: 00 Date: 2/1/1901  
 92A Fract Crit Insp Freq: 00 Date: 2/1/1901  
 92B Underwater Insp Freq: 00 Date: 2/1/1901  
 92C Other Spc. Insp Freq: 00000  
 \* 4 Place Code: 1  
 \* 5 Inventory Route (O/U): 4  
 Type: 1  
 Designation: 00183  
 Number: 0  
 Direction: 0  
 \* 16 Latitude: 34 - 15.9760 HMMS Prefix: 00  
 \* 17 Longitude: 82 - 51.7070 HMMS Suffix: 000  
 MP: 0.00  
 98 Border Bridge: 000 % Shared: 00  
 99 ID Number: 0000000000000000  
 \* 100 STRAHNET: 0  
 12 Base Highway Network: 1  
 13A LRS Inventory Route: 1052018300  
 13B Sub Inventory Route: 0  
 101 Parallel Structure: N  
 \* 102 Direction of Traffic: 3  
 \* 264 Road Inventory Mile Post: 000.52  
 \* 208 Inspection Area: 01 Initials: JBC  
 Engineer's Initial: sgm  
 \* Location I.D. No.: 105-00183X-000.52W

**Signs & Attachments**

225 Expansion Joint Type: 00  
 242 Deck Drains: 0  
 243 Parapet Location: 0.00  
 Height: 0.00  
 Width: 0.00  
 238 Curb Height: 0.0  
 Curb Material: 0  
 239 Handrail: 2.2  
 \* 240 Median Barrier Rail: 0  
 241 Bridge Median Height: 0.0  
 \* Bridge Median Width: 0.0  
 230 Guardrail Loc. Dir. Rear: 3  
 Fwd: 0  
 Oppo. Dir. Rear: 0  
 Oppo. Fwd: 0  
 244 Approach Slab: 0  
 224 Retaining Wall: 0  
 232 Posted Speed Limit: 35  
 236 Warning Sign: 0  
 234 Delineator: 0  
 235 Hazzard Boards: 0  
 237 Utilities - Gas: 00  
 Water: 00  
 Electric: 00  
 Telephone: 00  
 Sewer: 00  
 247 Lighting - Street: 0  
 Navigation: 0  
 Aerial: 0  
 \* 248 County Continuity No.: 00

Structure ID: 105-5041-0

**Programming Data**

201 Project No.: BUILT BY COUNTY  
 202 Plans Available: 0  
 249 Prop. Proj. No. BRG-0006-00(660)  
 250 Approval Status: 0 0 0  
 251 P.I. No.: 0006660  
 252 Contract Date: 2/1/1901  
 260 Seismic No.: 00000  
 75 Type Work: 31 1  
 94 Bridge Imp. Cost: \$206  
 95 Roadway Imp. Cost: \$112  
 96 Total Imp Cost: \$366  
 76 Imp. Length: 001520  
 97 Imp. Year: 1990  
 114 Future ADT: 000225 Year: 2025

**Measurements**

\* 29 ADT: 000150 Year: 2005  
 109 % Trucks: 0  
 \* 28 Lanes On: 01 Under: 00  
 210 No. Tracks On: 00 Under: 00  
 \* 48 Max. Span Length: 0040  
 \* 49 Structure Length: 71  
 51 Br. Rwdy. Width: 10.50  
 52 Deck Width: 12.20  
 \* 47 Tot. Horiz. Cl: 10.50  
 50 Curb / Sidewalk Width: 0.00 / 0.00  
 32 Approach Rdwy. Width: 016  
 Rear Lt: 0.0 Type: 7 Rt: 0.0  
 Fwd Lt: 0.0 Type: 7 Rt: 0.0  
 Pavement Width: 15.8 Type: 7  
 36 Safety Features Br. Rail: 15.8 Type: 7  
 Transition: 0 Fwd: 0  
 App. G. Rail: 3  
 App. Rail End: 3  
 \* 53 Minimum Cl. Over: 99' 99"  
 Under: N 00' 00"  
 \* 228 Minimum Vertical Cl: 99' 99"  
 Act. Odm Dir: 99' 99"  
 Oppo. Dir: 00' 00"  
 Posted Odm. Dir: 00' 00"  
 Oppo. Dir: 00' 00"  
 55 Lateral Underel. Rt: N 0.0  
 56 Lateral Underel. Lt: 0.0  
 \* 10 Max Min Vert Cl: 99' 99" Dir: 0  
 39 Nav Vert Cl: 000 Horiz: 0000  
 116 Nav Vert Cl Closed: 000  
 245 Deck Thickness Main: 3.00  
 Deck Thick. Approach: 0.00  
 246 Overlay Thickness: 0.00  
 212 Year Last Painted: Sup: 1941 Sub: 1941

**Ratings**

65 Inventory Rating Method: 1  
 63 Operating Rating Method: 1  
 66 Inventory Type: 2 Rating: 06  
 64 Operating Type: 2 Rating: 10  
 231 Calculated Loads  
 H-Modified: 05 1  
 HS-Modified: 00 0  
 Type 3: 00 0  
 Type 3s2: 00 0  
 Timber: 00 0  
 Piggyback: 00 0  
 261 H Inventory Rating: 03  
 262 H Operating Rating: 06  
 67 Structural Evaluation: 2  
 58 Deck Condition: 5  
 59 Superstructure Condition: 5  
 \* 227 Collision Damage: 0  
 60A Substructure Condition: 5  
 60B Scour Condition: 5  
 60C Underwater Condition: N  
 71 Waterway Adequacy: 7  
 61 Channel Protection Cond.: 5  
 68 Deck Geometry: 2  
 69 UnderClr. Horz/Vert: N  
 72 Appr. Alignment: 5  
 62 Culvert: N

**Posting Data**

70 Bridge Posting Required: 0  
 41 Struct Open, Posted, CL: P  
 \* 103 Temporary Structure: 0  
 232 Posted Loads  
 H-Modified: 05  
 HS-Modified: 00  
 Type 3: 00  
 Type 3s2: 00  
 Timber: 00  
 Piggyback: 00  
 253 Notification Date: 2/1/1901  
 258 Fed Notify Date: 2/1/1901

**Hydraulic Data**

215 Waterway Data  
 Highwater Elev.: 00000.0 Year: 1900  
 Flood Elevation: 00000.0 Freq.: 00  
 Avg. Streambed Elev.: 00000.0  
 Drainage Area: 000000  
 Area of Opening: 000000  
 113 Scour Critical: U  
 216 Water Depth: 01.6 Br. Height: 15.8  
 222 Slope Protection: 0  
 221 Spur Dikes Rear: 0 Fwd: 0  
 219 Fender System: 0  
 220 Dolphin: 0  
 223 Culvert Cover: 000  
 Type: 0  
 No. Barrels: 0  
 \* Width: 0.00 Height: 0.00  
 \* Length: 0 Apron: 0  
 265 U/W Insp. Area: 0 Diver: ZZZ  
 Location I.D. No.: 105-00183X-000.52W



G R E S H A M  
S M I T H A N D  
P A R T N E R S

## Memorandum

**To:** Meeting Attendees (see page 2)

**From:** Brian O'Connor - Gresham, Smith & Partners

**Date:** May 8, 2008

**Subject:** CSBRG-0006-00(660), Elbert County, PI No. 0006660  
Concept Team Meeting  
Bridge Replacement – CR 183/Plantation Road over Coldwater Creek

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The concept team meeting for the above project was held April 8, 2008, at 10:30 a.m., in the District 1 office in Gainesville, GA. Please see page 2 for the list of attendees.

The meeting was opened by Robert Mahoney, who described the overall proposed concept. The detail of the proposed project concept was discussed by Brian O'Connor, Gresham, Smith and Partners.

The project is located on CR 183, also known as Plantation Road, over Coldwater Creek in Elbert County. The project consists of the replacement of the bridge over Coldwater Creek. Plantation Road will be paved and widened to two 12' lanes approaching the bridge, and guardrail will be installed on the shoulder. Due to the low amount of traffic using the bridge, the road will be closed and traffic will be detoured during construction.

The proposed project length is 0.09 miles. One bridge structure is proposed, approximately 100 feet long by 28 feet wide. There is no side road associated with this project.

Existing Plantation Road consists of two 10' travel lanes with rural shoulders and a posted speed of 35 mph. The existing bridge over Coldwater Creek (Bridge Inventory I.D. 105-5041-0) consists of a 2-span, 71 ft. long wooden bridge with a width of 12.2 ft. The existing bridge is posted with a weight limit of 5 tons.

Discussion was as follows:

GS&P reported that one NHRP listed resource – Ralph Banks Place – was listed in 1978. The boundaries appear to be outside the impact area, but the boundaries may change due to 2008 historic resources survey. It is anticipated that the project will qualify under the Nationwide permit and the NEPA document is anticipated to be a categorical exclusion.

GDOT discussed the state of the existing bridge and noted the low sufficiency rating. Elbert County noted that Plantation Road was a school bus route until the weight limit was posted on the bridge; buses must now be rerouted to avoid the bridge.

Elbert County had no objection to closing the road during construction. GDOT noted that a public meeting would be required to review the detour.

GS&P reported that there is a large corrugated metal pipe to the east of the bridge, and questioned if it was placed for drainage. GDOT and Elbert County brought up the possibility of the pipe being a livestock crossing. If it is determined that the pipe is a livestock crossing, it will need to be replaced.

Elbert County will be responsible for Right of Way acquisition; GDOT will be responsible for the Letting of the Contract and Supervision of Construction. The schedule to complete purchase of right of way should be revised to 6 - 8 months.

This represents our understanding of the items discussed at this meeting. If you have any questions or comments concerning any of the information contained herein, please contact Gresham, Smith and Partners.

**MEETING ATTENDEES**

Robert W. Mahoney	GDOT/D1 Preconstruction	<a href="mailto:rmahoney@dot.ga.gov">rmahoney@dot.ga.gov</a>
Bob Thomas	Elbert County	<a href="mailto:ecbocthomas@bellsouth.net">ecbocthomas@bellsouth.net</a>
Brian O'Connor	GS&P	<a href="mailto:brian_oconnor@qspnet.com">brian_oconnor@qspnet.com</a>
Marissa Martin	GS&P	<a href="mailto:marissa_martin@qspnet.com">marissa_martin@qspnet.com</a>
Ted Kniazewycz	GS&P	<a href="mailto:ted_kniazewycz@qspnet.com">ted_kniazewycz@qspnet.com</a>
Margaret Slater	GS&P	<a href="mailto:margaret_slater@qspnet.com">margaret_slater@qspnet.com</a>
Darrell Pyeatt	GDOT/D1 Utilities	<a href="mailto:dpyeatt@dot.ga.gov">dpyeatt@dot.ga.gov</a>
Roger Mealor	GDOT/D1 Area 3 Construction	<a href="mailto:rmealor@dot.ga.gov">rmealor@dot.ga.gov</a>
Jody Braswell	GS&P	<a href="mailto:jody_braswell@qspnet.com">jody_braswell@qspnet.com</a>



G R E S H A M  
S M I T H   A N D  
P A R T N E R S

August 9, 2007

### **MEETING NOTES**

#### **Contract AEOCDDES060147**

**CSBRG-0006-00(320), PI NO. 0006320, CLARKE COUNTY (01)**

**CSBRG-0006-00(660), PI NO. 0006660, ELBERT COUNTY (02)**

**BRST-061-1(110), PI NO. 132982-, WALTON COUNTY (03)**

**BRST-172-1(11), PI NO. 132990-, ELBERT COUNTY (04)**

**BRST-2237(4), PI NO. 142294-, HALL COUNTY (05)**

**BRST-1308(12), PI NO. 142296-, BARROW/WALTON COUNTY (06)**

GS&P Project 26086

MEETING DATE: August 9, 2007

PARTICIPANTS: Ted Cashin — GDOT Office of Bridge Design  
Curtis Scott – GDOT OCD  
Tom Ziegler - Gresham, Smith and Partners  
Jody Braswell - Gresham, Smith and Partners  
Ted Kniazewycz - Gresham, Smith and Partners  
Margaret Slater - Gresham, Smith and Partners

DISCUSSION: PROJECT KICKOFF MEETING

A project kickoff meeting was held to discuss the above project. The following are notes from this meeting.

1. The team members were discussed. Jody will provide a contacts list for the project and detail of subconsultant tasks.
2. GS&P has notice to proceed for phases 1 (concept), 2 (database), and 3 (environmental) effective July 19, 2007.
3. Database Preparation – GDOT instructed GS&P to use the right of entry letter as posted on the OCD web site. Ted Cashin should be listed as the contact. GS&P and our survey subs should also be listed as contacts. Ted requested this letter be sent to him for approval prior to mailing. The importance of these letters was also discussed. At no time shall anyone associated with the project enter a private property without prior notification.
4. District 1 will provide additional survey to the Clarke County (01) project. GS&P will coordinate with District 1. We are planning to utilize aerial mapping for the Walton project (03). If aerial photography is needed for the Clarke project, GS&P should check with the lab to determine if they already have it.

**Design Services For The Built Environment**

2325 Lakeview Parkway, Suite 400 / Alpharetta, Georgia 30004-7940 / Phone 770.754.0755 / [www.gspnet.com](http://www.gspnet.com)



MEETING NOTES  
**PROJECT KICKOFF MEETING**  
GS&P Project No. 26086  
August 9, 2007  
Page 2

5. This project bridges will be designed using LFD. GDOT's policy is for any project that has PE started after October 1, 2007 will be designed with LFRD.
6. Standard Guidance will be used for the project:
  - a. GDOT Plan Development Process
  - b. Green Book and Roadside Design Guide
  - c. GDOT Standards and Details
  - d. Drainage Manual
  - e. GDOT Design Policy Manual
  - f. Plan Presentation Guide
  - g. Bid Item Index – [www.dot.state.ga.us/homeoff/contr.www](http://www.dot.state.ga.us/homeoff/contr.www)
  - h. Item Mean Summary – [www.dot.state.ga.us/homeoff/contr.www](http://www.dot.state.ga.us/homeoff/contr.www)
  - i. Electronic Data Guidelines  
<http://www.dot.state.ga.us/adds/index.html>
7. Ted Cashin is the GDOT Project Manager. All significant project correspondence shall go to Ted. Day to day questions and minor issues should be communicated directly with appropriate people and copied to Ted. Subconsultant communication should go through Jody.
8. GS&P requested a copy of the full bridge plans for the Walton County (03) project and a copy of the "scaled down" concept report for bridge replacements.
9. Traffic data has already been provided to GS&P; however it appears they may need to be updated. GS&P will check and make a request to Ted if needed.
10. GS&P should coordinate directly with OEL. The main point of contact at OEL is Larry Bowman.
11. Invoices should be in the standard format. DBE reports are required with every invoice, whether work was performed by a DBE or not. Paul should be listed on the invoice cover letter with attention to Ted.
12. Ted provided a copy of the latest Project Status Report. He can quickly generate this during the project if needed.
13. SUE is being performed on the Clarke (01) project. Timing of this work was discussed but we decided to discuss this further at the SUE kickoff meeting. GS&P will coordinate this meeting with TBE and make sure Ted is invited.



MEETING NOTES  
**PROJECT KICKOFF MEETING**  
GS&P Project No. 26086  
August 9, 2007  
Page 3

14. Other utilities will be the non-SUE method. Our surveyors will identify ground evident utilities and GS&P will prepare Utilities Plans based on the database. Ted mentioned this can be submitted at the Concept Meeting if available. Otherwise, GS&P will submit directly to District 1 Utilities.
15. BFI's should be performed only after the Preliminary Bridge Layout is approved by the Bridge Office. It is assumed soil surveys will be performed at this time as well.
16. It was mentioned there is a new roadway within the project limits being designed by Athens-Clarke County. GS&P will find out more details about this project.
17. Ted would like to start scheduling Team Concept Meetings in two months. It was mentioned that database would likely not be in hand by then but internet mapping may be able to be sufficient for the concept. Environmental screening and some amount of hydraulic calculations will also be required. As a general rule detour bridges should be placed downstream. Obviously other factors should influence this decision.

Prepared by: Jody Braswell, P.E.  
Project Manager

*This represents our understanding of the items discussed at this meeting. If you have any questions or comments concerning any of the information contained herein, please contact me.*

jab

Copy      Participants  
            Brian O'Connor - Gresham, Smith and Partners  
            Ron Pate – Street Smarts  
            Barry Toole – Toole Surveying  
            David Smith – Ecological Solutions  
            Joe Joseph – New South  
            Jeff Simmons – Photo Science  
            Randy Sanborn – TBE Group  
            Garrick Edwards – JB Trimble  
            Margie Pozin – STV/Ralph Whitehead  
            Sujit Bhowmik – Willmer Engineering  
            Don Hill – United Consulting