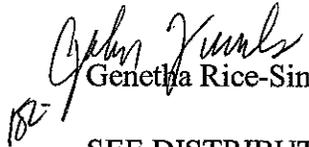


**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 331770-, Coweta County **OFFICE** Preconstruction  
BRZLB-0736-00(005)  
CR 546/Lower Fayetteville Road at Shoal Creek-  
Bridge Replacement **DATE** January 18, 2008

**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:**

Brian Summers  
Glenn Bowman  
Ken Thompson  
Michael Henry  
Keith Golden  
Thomas Howell  
Angela Alexander  
Paul Liles  
David Millen  
BOARD MEMBER

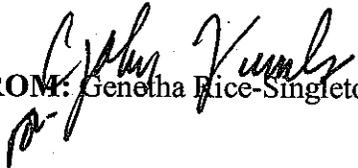
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** P.I. No. 331770-, Coweta County  
BRZLB-0736-00(005)  
CR 546/Lower Fayetteville Road at Shoal Creek-  
Bridge Replacement

**OFFICE:** Preconstruction

**DATE:** December 11, 2007

  
**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 546/Lower Fayetteville Road over Shoal Creek, 3.9 miles north of Sharpsburg, Georgia. The existing bridge, constructed in 1970, is a 140'x 23.8' concrete structure with a sufficiency rating of 7. County Road 546 at this location is a rural two lane roadway with 10' lanes, variable width grass shoulders and a posted speed of 45 MPH. County Road 546 is classified as an urban minor collector. The existing traffic (2006) along this section of CR 546 is 3400 VPD. The design year (2034) volumes are projected to be 7000 VPD. The proposed speed design is 45 MPH.

The project proposes to construct a new 150'x 40' concrete bridge over Shoal Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 10' rural shoulders. The existing bridge will be closed to traffic during construction. Traffic will be detoured via an off-site detour.

Environmental concerns include requiring a COE 404 permit; Categorical Exclusion will be prepared; a Public hearing is not required; Time saving procedures is appropriate.

The estimated costs for this project are:

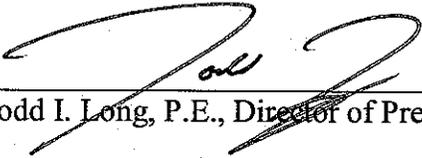
	PROPOSED	APPROVED	FUNDING	PROG DATE
Construction (includes E&C)	\$ 1,782,000	\$ 2,000,000	L110	LR
Right-of-way & Utilities	Local	Local	Local	

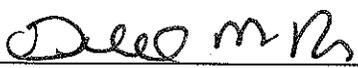
P.I. No. 331770-, Coweta County  
Page 2  
December 11, 2007

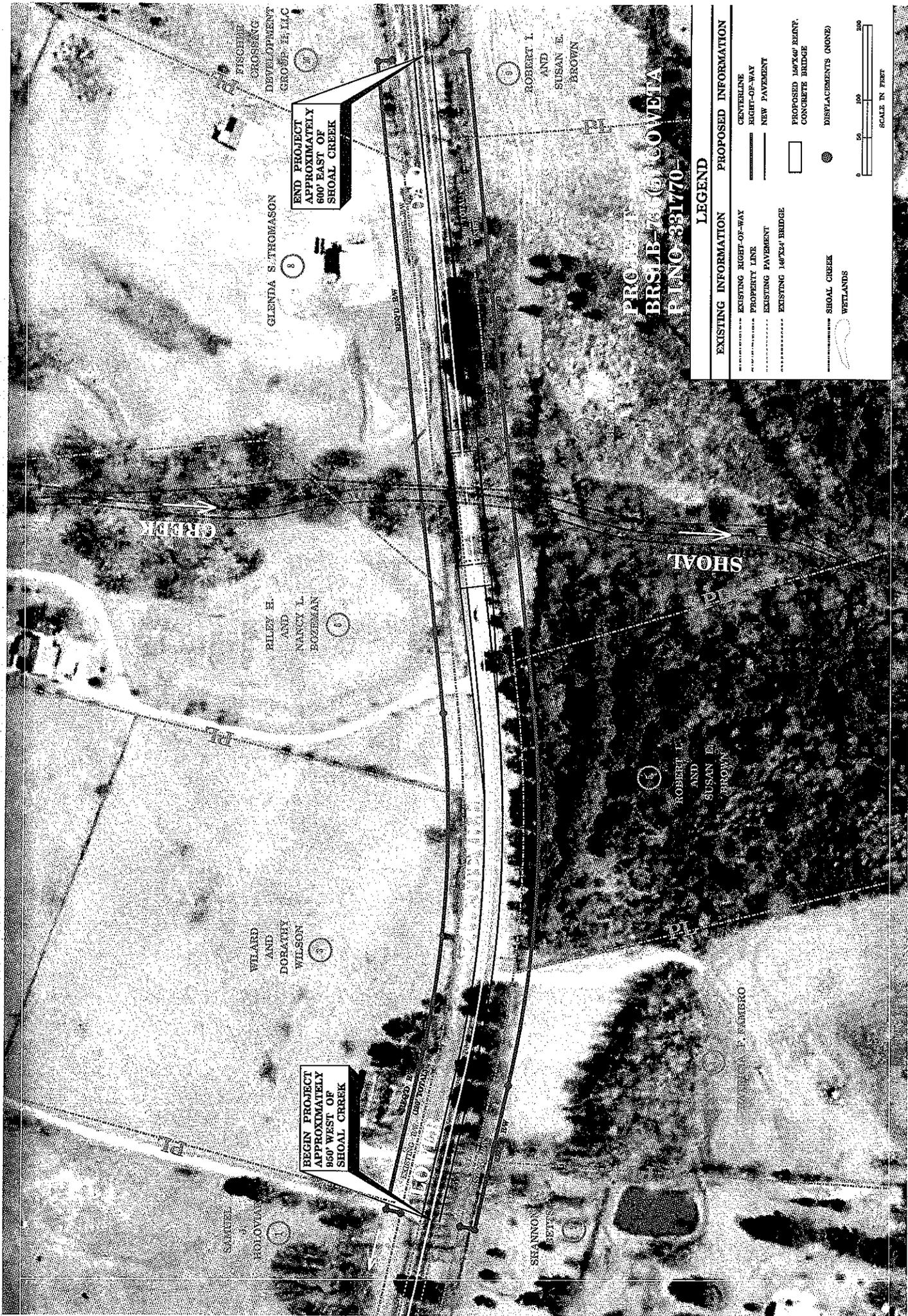
\* Notification letter sent to Coweta 1-8-07; PFA needed

I recommend this project concept be approved.

<sup>HRS</sup>  
GRS: JDQ  
Attachment

CONCUR   
\_\_\_\_\_  
Todd I. Long, P.E., Director of Preconstruction

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



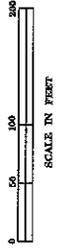
END PROJECT  
APPROXIMATELY  
600' EAST OF  
SHOAL CRREEK

BEGIN PROJECT  
APPROXIMATELY  
950' WEST OF  
SHOAL CRREEK

PROJECT  
BRSLB-740 (S) COMETA  
P.I. NO. 331770

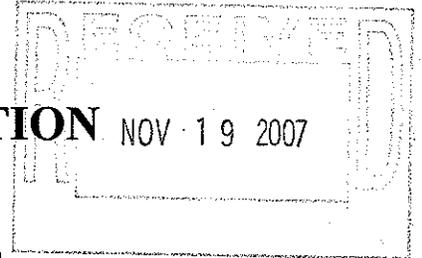
LEGEND

EXISTING INFORMATION	PROPOSED INFORMATION
CENTERLINE	CENTERLINE
RIGHT-OF-WAY	RIGHT-OF-WAY
PROPERTY LINE	PROPERTY LINE
EXISTING PAVEMENT	EXISTING PAVEMENT
EXISTING 14'x24' BRIDGE	EXISTING 14'x24' BRIDGE
SHOAL CRREEK	SHOAL CRREEK
WETLANDS	WETLANDS
	PROPOSED 16'x40' BRIDGE
	CONCRETE BRIDGE
	REPLACEMENTS (NONE)



**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

NOV 19 2007



**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** BRSLB-0736-00(005) Coweta **OFFICE:** Engineering Services  
P.I. No. 331770  
CR 546/Lower Fayetteville Road @ Shoal Creek

**DATE:** ~~February~~ <sup>NOVEMBER</sup> 19, 2007

**FROM:** Brian K. Summers, P.E., Project Review Engineer *REW*

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

**SUBJECT: CONCEPT REPORT**

We have reviewed the Concept Report submitted November 15, 2007 and have no comments.

The costs for this project are:

Construction	\$1,619,684
E & C	\$161,968
Reimbursable Utilities	\$60,000
Right of Way	\$410,450 (by Locals)

REW

c: Thomas Howell, Attn.: Bill Rountree

# PRECONSTRUCTION STATUS REPORT

PROJ ID	COUNTY	DESCRIPTION	MGMT. ROW DATE	SCHED DATE	MGMT. LET DATE
331770-	Coweta	CR 546 @ SHOAL CREEK APPROX 4 MIN OF SHARPSBURG	Apr-10	Mar-11	Apr-11

BRSLB-0736-00(005)	FIELD DIST: 3		<b>Phase</b>	<b>Approved</b>	<b>Proposed</b>	<b>Cost</b>	<b>Fund</b>	<b>Status</b>
TIP #: CW-048	TWIN:	US:	PE	2008	2008	150,000.00	L110	PRECST
MPO: Atlanta TMA	EST DATE: 9/6/06		ROW	LOCL	LOCL	410,000.00	LOC	PRECST
MODEL YR: 2020	PROJ LENGTH: 0.50		CST	LR	LR	2,000,000.00	L110	PRECST
PROJ MGR: Rountree, Bill	TYPE WORK: Bridges							
PROG Replacement	LET RESP: DOT	Congressional Districts: 3						
TYPE:								
CONCEPT: BR REPL								

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		Define Project Concept	4/11/07	10/15/07	91	TEMP SHORED BRIDGE
		Concept Meeting	11/2/07	11/2/07	100	8/27/04;PMA NEEDED [10-4-05]
12/21/07	1/24/08	Concept Submittal and Review			0	;NEED SCHED [11-4-05]D3 to
1/25/08	2/7/08	Receive Preconstruction Concept Approval			0	cmplt PE activities in-house (CAH)
2/7/08	2/7/08	Management Concept Approval Complete			0	022306];PE MOVN INTO 2007-
2/29/08	2/29/08	Public Information Open House Held			0	NEED PMA FOR LOCAL RW [2-
2/8/08	9/12/08	Environmental Approval			0	28-06]
12/7/07	4/4/08	Field Surveys/SDE	9/10/07		50	
4/7/08	5/15/09	Preliminary Plans			0	
8/11/08	1/30/09	Preliminary Bridge Design			0	
		Underground Storage Tanks	11/5/07	11/5/07	60	
6/16/08	8/29/08	404 Permit Obtainment			0	
6/8/09	6/9/09	PFPR Inspection			0	
7/15/09	10/6/09	R/W Plans Preparation			0	
12/2/09	12/7/09	R/W Plans Final Approval			0	
7/15/09	7/17/09	L & D Report Development and Approval			0	
12/8/09	2/1/11	R/W Acquisition			0	
4/30/10	5/13/10	Stake R/W			0	
7/15/09	7/24/09	Soil Survey			0	
7/15/09	8/19/09	Bridge Foundation Investigation			0	
7/20/09	6/21/10	Final Design			0	
8/18/09	3/29/10	Final Bridge Plans Preparation			0	
7/13/10	7/14/10	FFPR Inspection			0	
7/28/10	8/10/10	FFPR Response			0	

BIKE PROVISIONS INCLUDED?: N      MEASUREMENT      E      CONSULTANT: N      UT EST: \$ 0.00

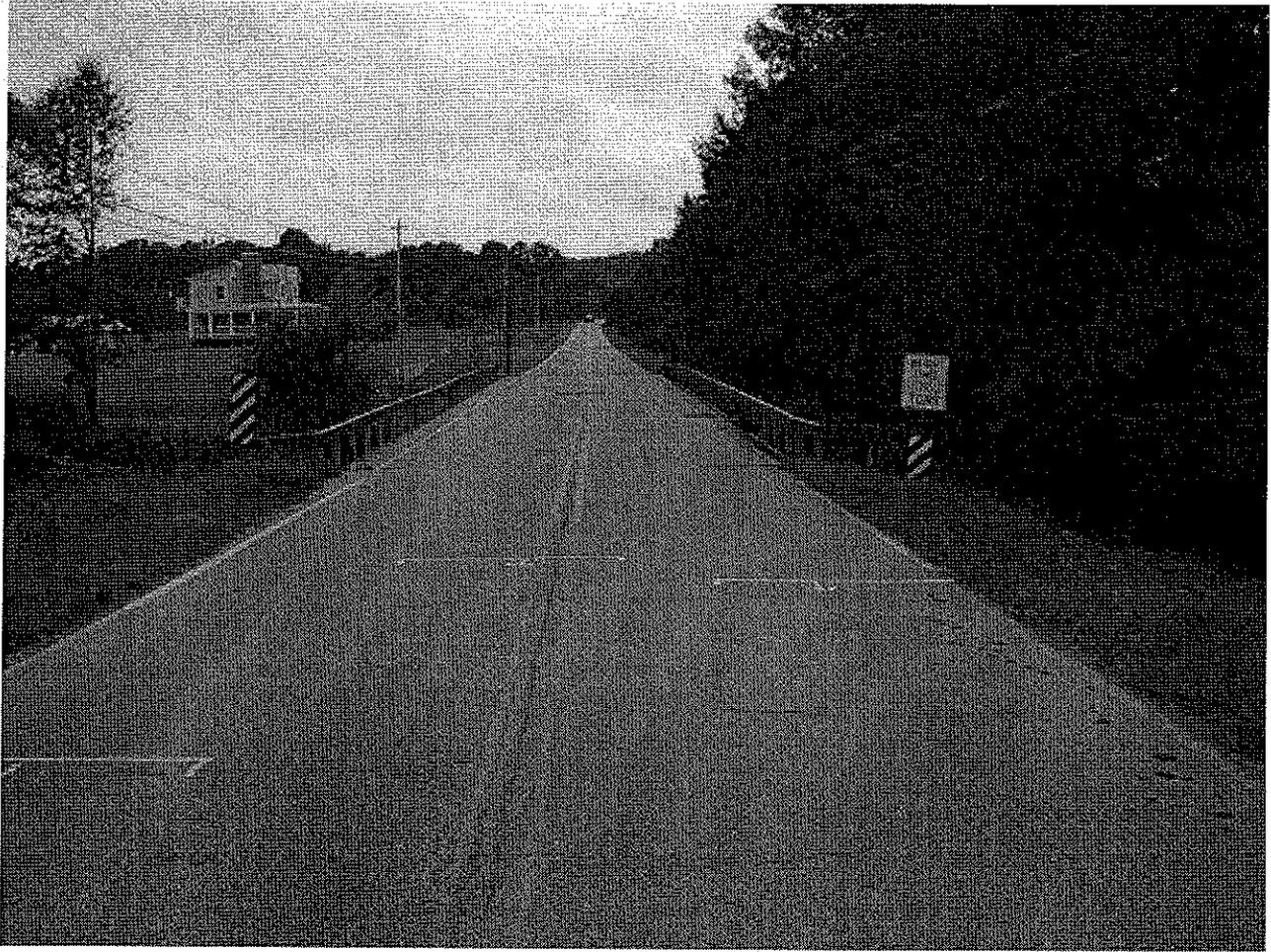
PDD: 'TS'. NOT IN STIP 2/22/93  
 Bridge: BRIDGE REQUIRED  
 Design: CONCEPT MEETING HELD - FINALIZING CONCEPT 11-6-07  
 EIS: RF | JM | RUSSETT  
 LGPA: NOTIFICATION LETTER SENT TO COWETA 1-8-07|PFA NEEDED  
 Traffic Op: BR REPL PROJ - NO SIGN & MKG PLANS REQ'D  
 EMG: BRIDGE REPLACEMENT

**R/W INFORMATION:**

PREL PARCEL CT:      TOTAL PARCEL CT:      ACQUIRED BY: LOC      ACQ MGR:  
 UNDER-REVIEW CT:      RELEASED      OPT-PEND CT:      DEEDS CT:      COND-PEND CT:      COND-FILED CT:  
 RW CERT DT:      ACQUIRED CT:      RELOCATION CT:

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> BRSLB-0736-00(005)		<b>County:</b> Coweta		<b>PI No.:</b> 331770	
<b>Report Date:</b> November 5, 2007		<b>Concept By:</b> DOT Office: District 3			
<input checked="" type="checkbox"/> <b>Concept Stage</b>		Consultant: N/A			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
<b>FOCUS AREAS</b>	<b>SCORE</b>	<b>RESULTS</b>			
<b>Presentation</b>	100				
<b>Judgement</b>	100				
<b>Environmental</b>	100				
<b>Right of Way</b>	100				
<b>Utility</b>	100				
<b>Constructability</b>	100				
<b>Schedule</b>	100				



LOOKING EAST





## NOTICE OF LOCATION AND DESIGN APPROVAL

**BRSLB-0736-00(005) Coweta County  
P.I.No. 331770-**

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 the above project.

The date of location approval is JANUARY 18, 2008.

This project will replace the structurally deficient bridge on CR 546 / Lower Fayetteville Road at Shoal Creek. The project is located in Coweta County, Georgia Militia District 645 , Land Districts 6, and Land Lots 125 and 132.

This project will replace a structurally deficient bridge along County Road 546 / Lower Fayetteville Road at Shoal Creek at in the same location as the existing bridge while the road is closed and traffic is detoured to other routes.

Drawings, maps or plats of the proposed project, as approved, are on file and are available for inspection at the Georgia Department of Transportation:

Havard Seldon  
[Havard.seldon@dot.state.ga.us](mailto:Havard.seldon@dot.state.ga.us)  
1107 Hogansville Road  
LaGrange GA 30240  
706-845-4115

Any interested party may obtain a copy of the drawings, maps or plats, or portions thereof, by paying a nominal fee and requesting in writing to:

William J. Rountree, P.E., District Design Engineer  
Department Of Transportation  
[bill.rountree@dot.state.ga.us](mailto:bill.rountree@dot.state.ga.us)  
115 Transportation Blvd.  
Thomaston, Georgia 30286  
(706) 646-6990

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.

Project Concept Report Page 2  
Project Number: BRSLB-0736-00(005) Coweta County  
P.I. Number: 331770-

Recommendation for approval

DATE 4/5/07 William J. Cantee  
Project Manager

DATE 11/5/07 J. B. [Signature]  
District 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 Structural and Bridge Design Engineer

DATE 11/19/07 Bruce K. Summers *RLW*  
Project Review Engineer

Recommendation for approval

DATE 4/5/07 William J. Cantee  
Project Manager

DATE 11/5/07 J. A. [Signature]  
District 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).

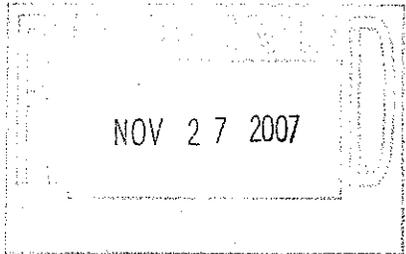
DATE 11/16/07 Angela S. [Signature]  
State Transportation Planning Administrator

DATE \_\_\_\_\_  
State Transportation Financial Management Administrator

DATE \_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_  
State Structural and Bridge Design Engineer

DATE \_\_\_\_\_  
Project Review Engineer



Recommendation for approval:

DATE 4/5/07 William J. Carter  
Project Manager

DATE 11/5/07 [Signature]  
District 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 11-2007 [Signature]  
State Traffic Safety & Design Engineer

DATE \_\_\_\_\_  
State Structural and Bridge Design Engineer

DATE \_\_\_\_\_  
Project Review Engineer

Recommendation for approval

DATE 4/5/07 William J. Carntee  
Project Manager

DATE 11/5/07 J. B. [Signature]  
District 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

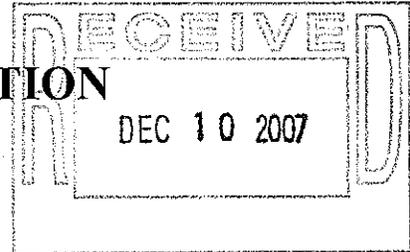
DATE \_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_  
State Traffic Safety & Design Engineer

DATE 11/25/07 Paul V. Tiler Jr.  
State Structural and Bridge Design Engineer

DATE \_\_\_\_\_  
Project Review Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

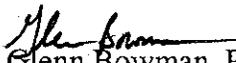


**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** P.I. No. 331770

**OFFICE:** Environment/Location

**DATE:** November 30, 2007

**FROM:**   
Glenn Bowman, P.E., State Environmental/Location Engineer

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

**SUBJECT:** **PROJECT CONCEPT REPORT**  
**BRSLB-0736-00(005) / Coweta County**  
**CR 546 Lower Fayetteville Road at Shoal Creek**

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

1. This bridge was built in 1970 and is not listed in the GHBS.
2. Page 8 – Some type of public involvement will be necessary due to off-site detour proposed during construction.

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

GB:lc

Attachment

cc: Brian Summers  
Jamie Simpson  
Keith Golden  
Angela Alexander  
Thomas Howell  
Paul Liles

Project Concept Report Page 2  
Project Number: BRSLB-0736-00(005) Coweta County  
P.L. Number: 331779

Recommendation for approval:

DATE 4/5/07 William A. Carter  
Project Manager

DATE 11/5/07 J. H. [Signature]  
District 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 11/29/07 Sh. [Signature]  
State Environmental/Location Engineer

DATE \_\_\_\_\_  
State Structural and Bridge Design Engineer

DATE \_\_\_\_\_  
Project Review Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of District 3 Design*

**PROJECT CONCEPT REPORT**

Project Number: BRSLB-0736-00(005)

County: Coweta

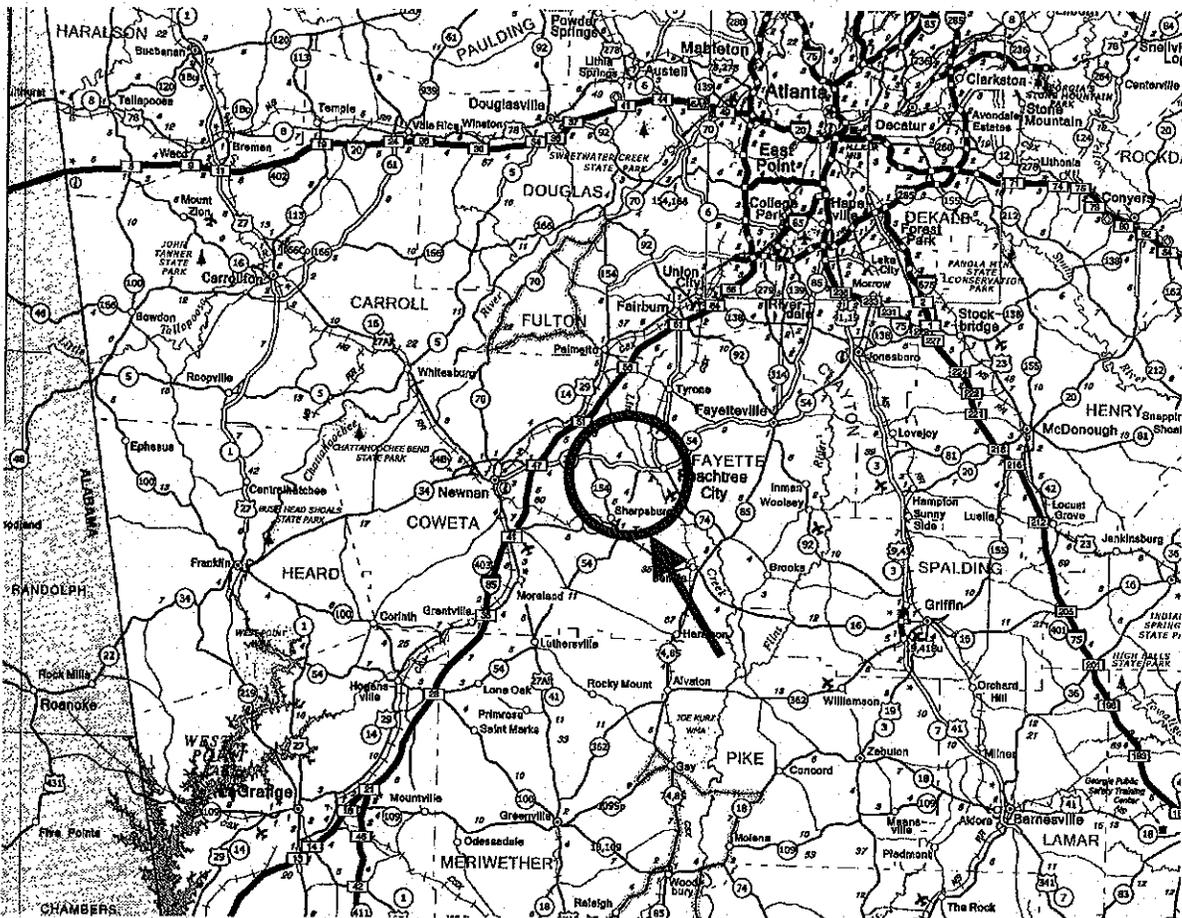
P. I. Number: 331770-



Federal Route Number: none

State Route Number: none

*Regional Sketch: CR 546 Lower Fayetteville Road at Shoal Creek*



Recommendation for approval:

DATE 4/5/07 William J. Carls  
Project Manager

DATE 11/5/07 J. A. [Signature]  
District 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

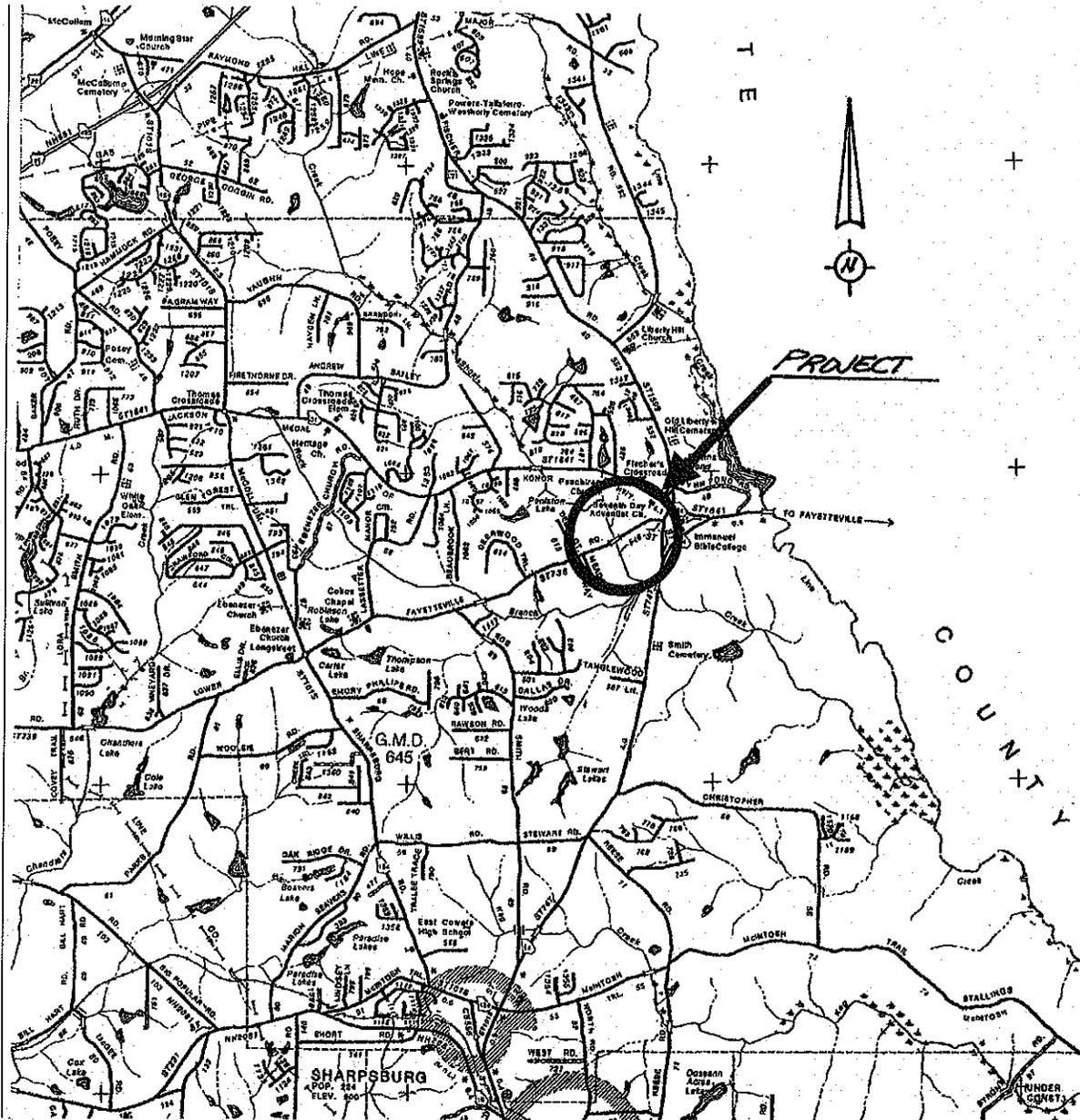
DATE \_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_  
State Traffic Safety & Design Engineer

DATE \_\_\_\_\_  
State Structural and Bridge Design Engineer

DATE \_\_\_\_\_  
Project Review Engineer

**Project Location Map: CR 546 Lower Fayetteville Road at Shoal Creek**



## **Need and Purpose:**

### **Background**

Bridge project BRSLB-0736-00(005) will replace the structurally deficient bridge located on CR 546 over Shoal Creek. This bridge's sufficiency rating is 7.00. The Department has determined that any structure with a sufficiency rating less than 50 and included in the HBRRP Selection List as noted in TOPPS 2405-1 should be replaced rather than improved.

### **Existing Conditions**

This section of CR 546 is classified as an urban minor arterial. There are no bicycle routes located along CR 546, but there is a designated school bus route within the project area.

The 2006 traffic (AADT) in the project area was 3,400. Base year (2014) traffic is anticipated to increase to 4,700 AADT and design year (2034) traffic is projected to be 7,000 AADT. Currently LOS, based on 2006 AADT, is an A. Based on projected traffic volumes, LOS in the project area is anticipated to be a B in 2034.

### **Other Projects in the Area**

There is one programmed project within the immediate area of this project.

PI # 0004407, MSL-0004-00(407), Reconstruction/Rehabilitation of Lower Fayetteville Road from Grieson Trail to Fischer Road. This project will involve the repavement of this roadway and encompasses this bridge replacement. The paving of this roadway will be completed prior to the bridge replacement and should not have an effect on the bridge replacement when constructed. Also, project BRST0-0747-00(005) 343375 Coweta SR54 @ Shoal Creek 4.4 MILES North of Turnin is along the detour. ✓

### **Community Issues**

CR 546 forms the boundary of two census tracts (1704.01 and 1705.00) in Coweta County and both are included in this analysis. In 1990, Coweta County had a population of 53,853 and in 2000 the population grew to 89,215. In 1990, Census Tract 1705.00 had a population of 6,591 and in 2000 the population grew to 11,938 resulting in an 81.1% growth rate. Census Tract 1704.01 was created during the 2000 Census and therefore does not have a growth rate from 1990 to 2000. The 2000 Census population for this tract was 16,081. By comparison, the growth rate of Coweta County between 1990 and 2000 was 65.7% compared to the state average of 40.1%.

According to the 2000 Census, 78.9% of the total Coweta County population was white and 21.1% were minorities. By comparison, within Census Tract 1704.01, 88.4% of the population is white and 11.6% are minorities. Within Census Tract 1705.00, 85.8% of the population is white and 14.2% are minorities.

The median household income in 2000 for Coweta County was \$52,703, which is 6.9% higher than the state median household income of \$49,280. In addition, Coweta contains 24,752 family households with 6.1% of those families living below the poverty level. In comparison, 9.9% of the 2,126,360 family households in Georgia live below the poverty level. Within Census Tract 1704.01, 1.7% of the 4,603 families are living below the poverty level and the median household income was \$67,586. In Census Tract 1705.00, 3.6% of the 3,453 families are living below the poverty level and the median household income was \$54,219.

**Need and Purpose**

This bridge project, BRSLB-0736-00(005), has been chosen for replacement because it has been designated as a structurally deficient bridge with sufficiency rating of 7.00. Providing a new bridge will replace an existing structurally deficient bridge.

**Description of the Proposed Project:** This project will replace a structurally deficient bridge along County Road 546 / Lower Fayetteville Road at Shoal Creek at the same location as the existing bridge while the road is closed and traffic is detoured to other routes.

**Is the project located in a Non-attainment area?** Yes  No .

**PDP Classification:** Major  Minor

**Federal Oversight:** Full Oversight , Exempt , State Funded , or Other

**Functional Classification:** Urban Minor Arterial

**U. S. Route Number(s):** none

**State Route Number(s):** none

**Traffic (AADT):**

Traffic(AADT) Two Way Traffic	Lower Fayetteville Rd. / CR 546
<b>Current Year: (2006)</b>	3400 vpd
<b>Initial Year: (2014)</b>	4700 vpd
<b>Design Year: (2034)</b>	7000 vpd /
<b>K =</b>	10%
<b>D =</b>	60%
<b>T =</b>	4%
<b>24 HR T =</b>	4.5%

**Existing Design Features:**

- Typical Section: Two Ten foot wide Lanes with variable three to six foot wide shoulders (two feet of the shoulder is paved).
- Posted Speed: 45
- Minimum Radius: 1500 feet
- Maximum Grade: 2%
- Total Width of Right of Way: 80 feet
- Major Structures: 140' x 24' metal over laid with asphalt, wood, and steel bridge
- Major Intersections Along the Project: None
- Existing Length of Roadway Segment and the Beginning Mile Logs for Each County Segment:

CR 546 Lower Fayetteville Road:

Begin mile log at 10.76 and ending mile log at 10.96 (Total 0.20 miles)

**Proposed Design Features:**

- Proposed Typical Section(s): Two twelve foot wide through lanes with ten foot wide grass shoulders.
- Proposed Design Speed: 45 mph
- Proposed Maximum Grade CR 546: 2 %      Maximum Grade Allowable: 7 %
- Proposed Maximum Grade Driveway: 10 %
- Proposed Minimum Radius of Curve: 1500 feet
- Minimum Radius Allowable: 643 feet
- Right of Way:
  - Width: 80 to 120 feet
  - Easements: Temporary , Permanent , Utility , Other .
  - Type of access control: Full , Partial , By Permit , Other .
  - Number of parcels: 10      Number of displacements: 0
    - Businesses: 0
    - Residents: 0
    - Mobile Homes: 0
    - Other: 0
- Structures: 150' x 40' Reinforced Concrete Bridge
- Major Intersections and Interchanges: None
- Traffic Control during Construction: The road will be closed and traffic will be maintained on an offsite detour (see attached).

• Design Exceptions to Controlling Criteria Anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
○ HORIZONTAL ALIGNMENT:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
○ ROADWAY WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
○ SHOULDER WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
○ VERTICAL GRADES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
○ CROSS SLOPES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
○ 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 Variances: None

• Environmental Concerns:

- Possible wetlands along Shoal Creek.
- Possible Stream buffer variance along Shoal Creek

• Level of Environmental Analysis:

- Are Time Savings Procedures appropriate? Yes , No ,
- Categorical Exclusion
- Environmental Assessment/Finding of No Significant Impact (FONSI)
- Environmental Impact Statement (EIS)

• Utility Involvements:

- Bellsouth Telecommunications, Inc.
- Charter Communications
- Comcast Entity (f/k/a AT&T Broadband)
- Coweta County Water and Sewer Department
- Coweta-Fayette EMC

**Project Responsibilities:**

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

**Coordination:**

- Concept Meeting Date and Brief Summary. 11-1-07 1:30 pm District Office Auditorium (See attached minutes)
- Other projects in the Area: A state aid resurfacing project MSL-004-00(407) Coweta P.I. 0004407 Lower Fayetteville road from Grieson Trail to Fischer Road was completed in 2007. Also, project BRST0-0747-00(005) 343375 Coweta SR54 @ Shoal Creek 4.4 MILES North of Turnin is along the detour.
- Other Coordination to Date: ~~None~~ **A DETOUR MEETING WILL BE HELD.**
- **VE STUDY: NO**

*SPR  
14/10/07*

**Scheduling – Responsible Parties' Estimate**

- Time to Complete the Environmental Process: 12 Months
- Time to Complete the Preliminary Construction Plans: 6 Months
- Time to Complete Right of Way Plans: 3 Months
- Time to Complete the Section 404 Permit: 6 Months
- Time to Complete Final Construction Plans: 6 Months
- Time to Complete the Purchase of Right of Way: 12 Months
- Time to Complete the Utilities Relocation: 6 Months

**Alternates Considered:**

- **Alternate 1:** Replace a structurally deficient bridge along County Road 546 / Lower Fayetteville Road at Shoal Creek at in the same location as the existing bridge while the road is closed and traffic is detoured to other routes.
- **Alternate 2:** No Build – This alternative was rejected because it did not meet need and purpose for the project.
- **Alternate 3:** A culvert option was investigated, but a culvert would not be able to facilitate near the area of opening as there is under the existing 140' bridge and was therefore not pursued.

**Attachments:**

1. Cost Estimates:
  - a. Construction including E&C
  - b. Right of Way
  - c. Utilities
2. Detour Sketch
3. Layout
4. Typical Sections
5. Detour Route Sketch
6. Bridge Inventory Sheets
7. Concept Team Meeting Minutes
8. Notice of Location and Design Approval

# PRELIMINARY COST ESTIMATE

PROJECT NUMBER: BRSLB-0736-00(005) COUNTY: Coweta

PI #: 331770- DESCRIPTION: CR 546 / Lower Fayetteville Road @ Shoal Creek

DATE: 10/11/2007 ESTIMATED LETTING DATE: Apr-11

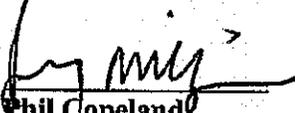
PREPARED BY: Bill Rountree PROJECT LENGTH: 0.29 MILES

PROGRAMMING PROCESS  CONCEPT DEVELOPMENT  DURING PROJECT DEVELOPMENT

A. RIGHT-OF-WAY:			
1. PROPERTY (LAND & EASEMENT)	0 AC	\$0.00 PER AC	\$0.00
2. DISPLACEMENTS	RES: 0	BUS: 0	M.H.: 0
3. OTHER COST (ADM./COST, INFLATION)			\$0.00
SUBTOTAL: A			<b>\$0.00</b>
B. REIMBURSABLE UTILITIES:			
1. RAILROAD			\$0.00
2. TRANSMISSION LINES			\$45,000.00
3. SERVICES			\$15,000.00
SUBTOTAL: B			<b>\$60,000.00</b>
C. CONSTRUCTION:			
1. MAJOR STRUCTURES			
a. BRIDGES (SF OF DECK)	6,375 SF	\$75.00 PER SF	\$478,125.00
APPROACH SLAB	290 SY	\$205.00 PER SY	\$59,450.00
b. CULVERTS			
1) CLASS A CONCRETE	0 CY	\$500.00 PER CY	\$0.00
2) BAR REINF STEEL	0 LB	\$0.80 PER LB	\$0.00
c. RETAINING WALLS(SF OF FACE)	0 SF	\$45.00 PER SF	\$0.00
SUBTOTAL: C-1			<b>\$537,575.00</b>
2. GRADING AND DRAINAGE			
a. EARTHWORK	40,000 CY	\$10.00 PER CY	\$400,000.00
b. DRAINAGE			
1) CROSS DRAIN PIPE	100 LF	\$160.00 PER LF	\$16,000.00
2) CURB AND GUTTER	0 LF	\$15.00 PER LF	\$0.00
3) LONGITUDINAL SYSTEM	0 LF	\$78.00 PER LF	\$0.00
SUBTOTAL: C-2			<b>\$416,000.00</b>
3. BASE AND PAVING			
a. AGGREGATE BASE	4,000 TN	\$25.00 PER TN	\$100,000.00
b. ASPHALT PAVING			
1) SURFACE	470 TN	\$80.00 PER TN	\$37,600.00
2) BINDER	630 TN	\$80.00 PER TN	\$50,400.00
3) BASE	2,500 TN	\$80.00 PER TN	\$200,000.00
SUBTOTAL: C-3.b			<b>\$288,000.00</b>
c. CONCRETE PAVING	0 SY	\$75.00 PER SY	\$0.00
d. BITUM TACK COAT	600 GAL	\$2.50 PER GAL	\$1,500.00
SUBTOTAL: C-3			<b>\$389,500.00</b>
4. LUMP ITEMS:			
a. GRASSING	3.10 AC	\$1,600.00 PER AC	\$4,960.00
b. CLEARING AND GRUBBING	4.27 AC	\$5,000.00 PER AC	\$21,350.00
c. LANDSCAPING			\$0.00
d. EROSION CONTROL (12 % OF CONSTRUCTION COST)		USE \$173,537.64	\$173,537.00
e. TRAFFIC CONTROL			\$50,000.00
SUBTOTAL: C-4			<b>\$249,847.00</b>

<b>5. MISCELLANEOUS:</b>			
a. LIGHTING			\$0.00
b. SIGNING	10 EA	\$560.00 PER EA	\$5,600.00
c. PAVEMENT MARKING	5,660 LF	\$0.70 PER LF	\$3,962.00
d. BRIDGE PAVEMENT MARKING	600 LF	\$7.00 PER LF	\$4,200.00
e. GUARDRAIL	500 LF	\$24.00 PER LF	\$12,000.00
f. SIDEWALK	0 SY	\$35.00 PER SY	\$0.00
g. CROSS DRAIN PIPE RIP RAP	1 EA	\$1,000.00 PER EA PIPE	\$1,000.00
SUBTOTAL: C-5			<b>\$26,762.00</b>
<b>6. SPECIAL FEATURES:</b>			
a.	0 UNIT	\$0.00 COST PER UNIT	\$0.00
SUBTOTAL: C-6			<b>\$0.00</b>
<b>ESTIMATE SUMMARY</b>			
A. RIGHT-OF-WAY			<b>\$0.00</b>
B. REIMBURSABLE UTILITIES			<b>\$60,000.00</b>
C. CONSTRUCTION			
1. MAJOR STRUCTURES		\$537,575.00	
2. GRADING AND DRAINAGE		\$416,000.00	
3. BASE AND PAVING		\$389,500.00	
4. LUMP ITEMS		\$249,847.00	
5. MISCELLANEOUS		\$26,762.00	
6. SPECIAL FEATURES		\$0.00	
SUBTOTAL CONSTRUCTION COST			\$1,619,684.00
E. & C. (10%)			\$161,968.40
INFLATION (5%/YEAR)	NUMBER OF YEARS		\$0.00
TOTAL CONSTRUCTION COST			<b>\$1,781,652.40</b>
<b>GRAND TOTAL PROJECT COST</b>			<b>\$1,841,652.40</b>
This project is _____ % in Congressional District			

# Preliminary Right of Way Cost Estimate

  
**Phil Copeland**

Right of Way Administrator  
 By: Jerry Milligan

Date: October 18, 2007  
 Project: BRSLB-736-00(5)Coweta  
 Existing/Required R/W: Varies/Varies  
 Project Termini : Bridge Replacement over Shoal Creek @ Lower Fayetteville  
 Project Description: CR 546 Lower Fayetteville Road @ Shoal Creek

P.I. Number: 331770  
 No. Parcels: 10

Land: R/W Res.: 1.434 acres @ \$65,000 / acre	\$	93,210
Improvements : misc. site improvements		25,000
Relocation: Residential ( 0 ) Commercial ( 0 )		0
Damage : Cost to Cure (0) parcel Proximity ( 0 )parcel Uneconomic Remnant		<u>0</u>

Net Cost \$ 118,210

Net Cost		\$ 118,210
Scheduling Contingency 55 %		65,015
Adm/Court Cost 60 %		109,935
Market Appreciation 40 %		<u>117,264</u>
	\$	410,424

**Total Cost \$410,450**

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

FILE **BRSLB-736(5), Coweta County, P.I.# 331770** OFFICE Thomaston  
*Bridge Replacement Lower Fayetteville Road over Shoal Creek*  
DATE July 6, 2007

FROM Thomas B. Howell, P.E., District Engineer

TO Bill Rountree, District Design Engineer

SUBJECT **UTILITY COST ESTIMATE**

The following is a ballpark utility cost estimate for facilities located within the scope of the above referenced project.

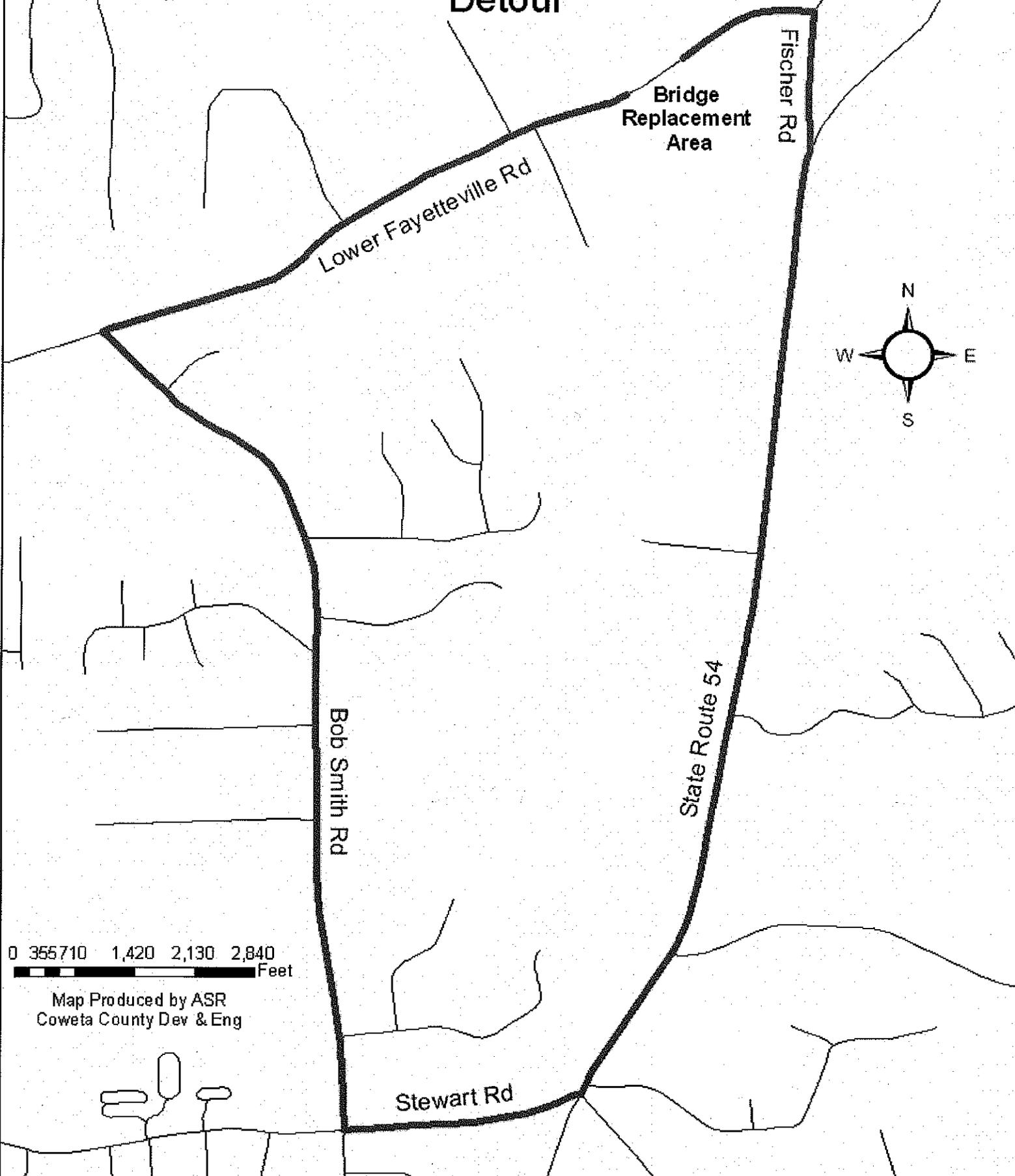
UTILITY OWNER	PUBLIC OR PRIVATE	TYPE OF UTILITY	REIMBURSABLE	NON-REIMBURSABLE
Coweta-Fayette EMC	Private	Electric	45,000	35,000
Charter Communications	Private	Cable	5,000	10,000
BellSouth	Private	Telecom	10,000	35,000
Coweta County Water	Public	Water/Sewer	0	60,000
Atlanta Gas Light	Private	Nat Gas	0	40,000
<b>TOTAL PROJECT COST</b>			<b>\$60,000</b>	<b>\$180,000</b>

If you have any questions, please call Kim Brown at 706-646-6695.

KMG:GAW:pls

cc: Jeff Baker, P.E., State Utilities Engineer (*via: e-mail*)  
Brent D'Angelo, P.E., Asst. State Utilities Engineer (*via: e-mail*)  
Terry Brigman, State Utilities Preconstruction Engineer (*via: e-mail*)

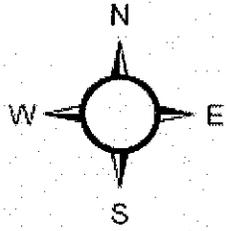
# Shoal Creek @ Lower Fayetteville Rd Detour



Bridge  
Replacement  
Area

Fischer Rd

Lower Fayetteville Rd



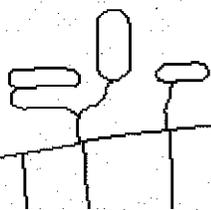
State Route 54

Bob Smith Rd

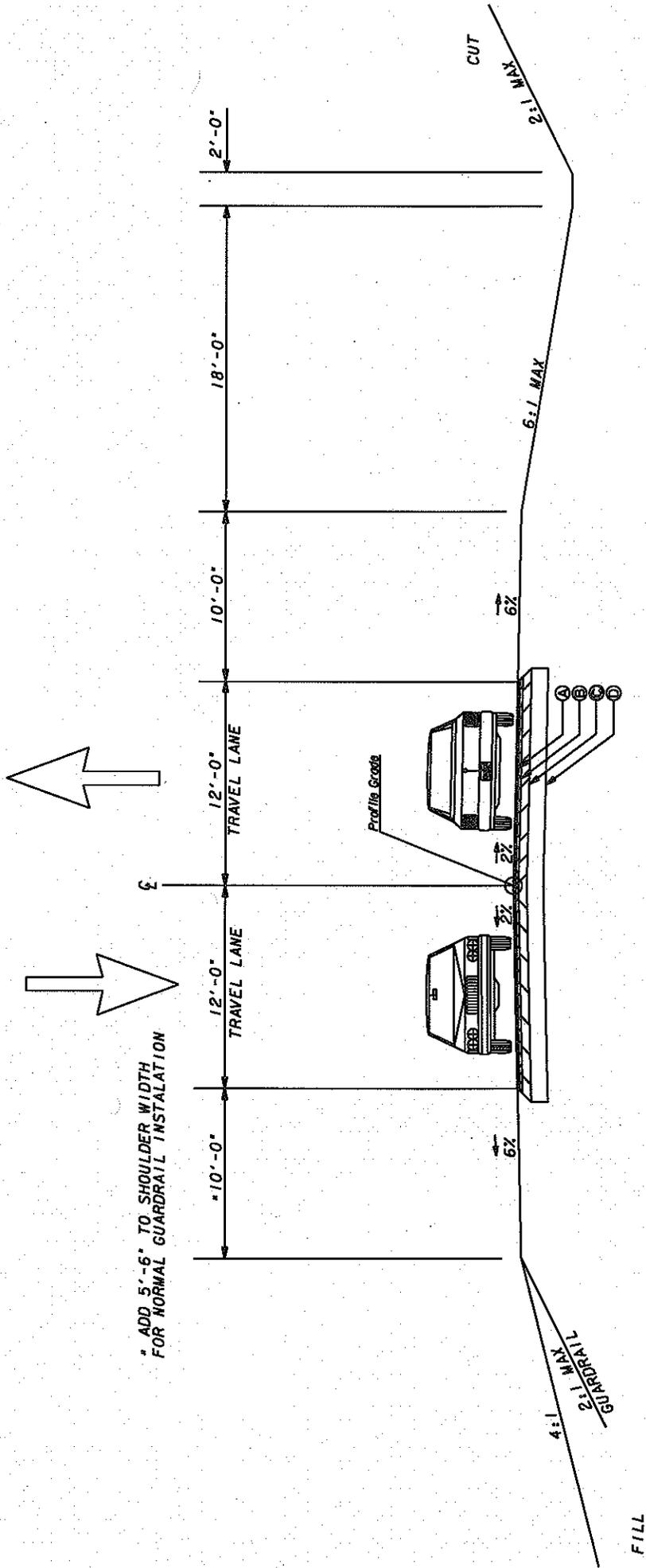
Stewart Rd

0 355 710 1,420 2,130 2,840  
Feet

Map Produced by ASR  
Coweta County Dev & Eng



# TYPICAL SECTION



APPLIES TO CR 546 LOWER FAYETTEVILLE ROAD

- Ⓐ ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, TYPE I (165 LBS/SQ. YD)
- Ⓑ ASPHALTIC CONCRETE 19 mm SUPERPAVE, (220 LBS/SQ. YD)
- Ⓒ ASPHALTIC CONCRETE 25.0 mm SUPERPAVE, (880 LBS/SQ. YD)
- Ⓓ GRADED AGGREGATE BASE, 12.0 INCHES

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 077-0057-0

Coweta

SUFF. RATING

7.00

## Location & Geography

\* Structure I.D.No: 077-0057-0

\* 200 Bridge Information: 06

\* 6A Feature Int: SHOAL CREEK

\* 6B Critical Bridge: 0

\* 7A Route Number Carried: CR00546

\* 7B Facility Carried: LWR FAYETTEVILLE RD

\* 9 Location: 3.9 MIN OF SHARPSBURG

2 DOT District: 3

207 Year Photo: 2005

\* 91 Inspection Frequency: 24 Date: 08/29/2005

92A Fract Crit Insp Freq: 00 Date: 02/01/1901

92B Underwater Insp Freq: 00 Date: 02/01/1901

92C Other Spc. Insp Freq: 00 Date: 02/01/1901

\* 4 Place Code: 00000

\* 5 Inventory Route (O/U): 1

Type: 4

Designation: 1

Number: 00736

Direction: 0

\* 16 Latitude: 33-23.6

\* 17 Longitude: 084-37.8

98 Border Bridge: 000 %Shared: 00

99 ID Number: 0000000000000000

\* 100 STRAHNET: 0

12 Base Highway Network: 1

13A LRS Inventory Route: 772054600

13B Sub Inventory Route: 0

\* 101 Parallel Structure: N

\* 102 Direction of Traffic: 2

\* 264 Road Inventory Mile Post: 010.86

\* 208 Inspection Area: 03 Initials: WBP

Engineer's Initial: sgm

\* Location I.D. No.: 077-00736F-010.58E

## Signs & Attachments

\* 104 Highway System: 0

\* 26 Functional Classification: 16

\* 204 Federal Route Type: S No.: 00736

\* 105 Federal Lands Highway: 0

\* 110 Truck Route: 0

206 School Bus Route: 1

217 Benchmark Elevation: 0000.00

218 Datum: 0

\* 19 Bypass Length: 06

\* 20 Toll: 3

\* 21 Maintenance: 02

\* 22 Owner: 02

\* 31 Design Load: 0

37 Historical Significance: 5

205 Congressional District: 08

27 Year Constructed: 1970

106 Year Reconstructed: 0000

33 Bridge Median: 0

34 Skew: 00

35 Structure Flared: 0

38 Navigation Control: 0

213 Special Steel Design: 0

267 Type of Paint: 1

\* 42 Type of Service on: 1

214 Movable Bridge: 0

203 Type Bridge: C-I-M-M

259 Pile Encasement: 3

\* 43 Structure Type Main: 3 02

45 No. Spans Main: 007

44 Structure Type Appr: 0 00

46 No. Spans Appr: 0000

226 Bridge Curve Horz: 0 Vert: 0

111 Pier Protection: 0

107 Deck Structure Type: 6

108 Wearing Surface Type: 6

M: 0

F 0

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 077-0057-0

Coweta

SUFF. RATING

7.00

## Programming Data

201 Project No.: COUNTY FUNDS  
 202 Plans Available: 0  
 249 Prop. Proj. No. BRSLB-736 (5)  
 250 Approval Status: 0000  
 251 P.I. No.: 331770-  
 252 Contract Date: 02/01/1901  
 260 Seismic No.: 00000  
 75 Type Work: 31 1  
 94 Bridge Imp. Cost: \$ 206  
 95 Roadway Imp. Cost: \$ 252  
 96 Total Imp Cost: \$ 527  
 76 Imp. Length: 001460  
 97 Imp. Year: 1990  
 114 Future ADT: 005760 Year: 2025

## Measurements

\* 29 ADT: 003840 Year: 2005  
 109 % Trucks: 0  
 \* 28 Lanes On: 02 Under: 00  
 210 No. Tracks On: 00 Under: 00  
 \* 48 Max. Span Length: 0020  
 \* 49 Structure Length: 140  
 51 Br. Rwdy. Width: 23.80  
 52 Deck Width: 24.30  
 \* 47 Tot. Horz. Cl: 23.80  
 50 Curb/Sdewlk Width: 0.00/0.00  
 32 Approach Rdwy Width: 020  
 \* 229 Shoulder Width:

Rear Lt: 6.00 Type: 8 Rt: 6.00  
 Fwd Lt: 6.00 Type: 8 Rt: 6.00  
 Pavement Width:

Rear: 20.00 Type: 2  
 Fwd: 20.00 Type: 2  
 Intersection Rear: 0 Fwd: 0

36 Safety Features Br. Rail: 3  
 Transition: 0

App. G. Rail: 0  
 App. Rail End: 0  
 53 Minimum Cl. Over: 99 ' 99 "

Under: N  
 \* 228 Min. Vertical Cl: 00 ' 00 "

Act. Odm Dir: 99 ' 99 "  
 Oppo. Dir: 99 ' 99 "  
 Posted Odm. Dir: 00 ' 00 "

Oppo. Dir: 00 ' 00 "  
 55 Lateral Undercl. Rt: N 0.00  
 56 Lateral Undercl. Lt: 0.00

\* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0  
 39 Nav Vert Cl: 000 Horz: 0000  
 116 Nav Vert Cl Closed: 000

245 Deck Thickness Main: 0.00  
 Deck Thick Approach: 0.00  
 246 Overlay Thickness: 4.00

212 Year Last Painted: Sup: 1989 Sub: 0000

## Hydraulic Data

215 Waterway Data  
 Highwater Elev.: 0000.0 Year: 1900  
 Avg. Streambed Elev.: 0000.0 Freq.: 00  
 Drainage Area: 00000  
 Area Of Opening: 000000

113 Scour Critical: U  
 216 Water Depth: 01.7 Br. Height: 12.7  
 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 Diver: ZZZ  
 \* 265 U/W Insp. Area: 0

\* Location I.D. No.: 077-00736F-010.58E

## Ratings

65 Inventory Rating Method: 1  
 63 Inventory Rating Method: 1  
 66 Inventory Type: 2 Rating: 06  
 64 Operating Type: 2 Rating: 11  
 231 Calculated Loads

H-Modified: 10 1  
 HS-Modified: 00 0  
 Type 3: 00 0  
 Type 3s2: 00 0  
 Timber: 00 0  
 Piggyback: 00 0

261 H Inventory Rating: 04  
 262 H Operating Rating: 08  
 67 Structural Evaluation: 2  
 58 Deck Condition: 7

59 Superstructure Condition: 7  
 \* 227 Collision Damage: 0  
 60A Substructure Condition: 4  
 60B Scour Condition: 8  
 60C Underwater Condition: N

71 Waterway Adequacy: 8  
 61 Channel Protection Cond: 8  
 68 Deck Geometry: 2  
 69 UnderClr. Horz/Vert: N  
 72 Appr. Alignment: 8  
 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: 10  
 HS-Modified: 00  
 Type 3: 00  
 Type3s2: 00  
 Timber: 00  
 Piggyback: 00

253 Notification Date: 02/01/1901  
 253 Fed Notify Date: 02/01/1901

# GEORGIA DEPARTMENT OF TRANSPORTATION

## Bridge Inspection Report

District: 3  
Bridge Inspector: Bryon Patterson  
Location ID: 077-00736F-010.58E  
Structure ID: 077-0057-0

Inspection Date: 8/29/2005  
Over: SHOAL CREEK  
County: Coweta  
Road Name: LWR FAYETTEVILLE RD

Inspection Area: 03  
Bridge Status: 06

### EVALUATION & DEFICIENCIES

#### SubStructure:

Year Painted: 0000

Timber cap units with 4 driven timber pile.  
Total of 32 pile in this structure.

The substructure inventory capacity = H-04 calculated in 2005.  
Load ratings calculated by central office 2/05.

Several replacement pile have a lower inventory capacity, but due to the old pile left in place and their capacity this structure is stable at H-04.

All Piles that had 1" Pent. or less was counted. See B 9

Pile 4 in bent 3 has been replaced with a straddle bent. (2/8/2005)

#### SuperStructure:

Year Painted: 1989

7 span with 14 S10X25.4 beam.  
The beams were removed and turned over in 1989, cleaned and painted.

The superstructure inventory capacity = H-18 calculated in 2005.  
Load ratings calculated by central office 2/05.

Minor paint failure and corrosion.

#### Deck:

7 gage galvanized CM deck planks with a 4" asphalt riding surface.

The deck inventory capacity = H-25 calculated in 2001.

The planks are in good condition except over bent #5, #6, #7 and abutment #8 where they are loose and causing the asphalt to crack.

Asphalt is cracking over deck joints.

#### General:

Built by the county in 1970, deck and most of the substructure pile replaced in 1989. PR000-S007-00 (138) S BENT 2005

Equipment used: hand tools, waders, and drill

The bridge is in good condition except for the substructure. The Timber caps are the controlling factor in the load ratings.  
Load ratings calculated by central office and Post 10 tons gross up to operating rating H Mod--2/05

#### Repairs:

Weld the deck planks over bent #5, #6, #7 and abutment #8, loose and causing the asphalt to crack.

# GEORGIA DEPARTMENT OF TRANSPORTATION

## Bridge Inspection Report

**District:** 3  
**Bridge Inspector:** Bryon Patterson  
**Location ID:** 077-00736F-010.58E  
**Structure ID:** 077-0057-0

**Inspection Date:** 8/29/2005  
**Over:** SHOAL CREEK  
**County:** Coweta  
**Road Name:** LWR FAYETTEVILLE RD

**Inspection Area:** 03  
**Bridge Status:** 06

### EVALUATION & DEFICIENCIES

**Condition Rating**

Temp Shored: No

Component	Material	Rating	Truck Type	Gross/H-Mod	HMod	Tand	3-S-2	Log	Piggy
Substructure	Timber	4	Calculated Posting	10	00	00	00	00	00
Superstructure	Steel	7	Posting Required	Yes	No	No	No	No	No
Deck	Steel	7	Existing Posting	10	00	00	00	00	00

\*\*\*School Bus Route.\*\*\*

Structure Requires Posting



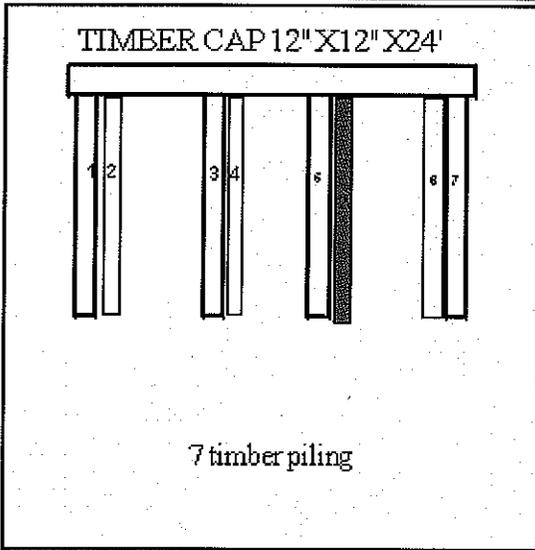
# GEORGIA DEPARTMENT OF TRANSPORTATION

## SubStructure Report

District: 3  
 Bridge Inspector: Bryon Patterson  
 Location ID: 077-00736F-010.58E  
 Structure ID: 077-0057-0

Inspection Date: 8/29/2005  
 Over: SHOAL CREEK  
 County: Coweta  
 Road Name: LWR FAYETTEVILLE RD

Inspection Area: 03  
 Skew: 00



Bent #: 2	Picture Type: 4		
Deck:	Material: Steel	Width: 24.30	Depth: 0.20
		Plank: 0.00	
Cap:	Material: Treated		
Beam:	<u>FWD</u>	<u>REAR</u>	
	Material: Steel	Steel	
		Width:	<u>FWD</u> 0.00 <u>REAR</u> 0.00
		Depth:	0.00 0.00
Steel Beam:	<u>FWD</u>	<u>REAR</u>	<u>Yr-Fab</u>
	Weight (#/ft):	25	25 0
	SX (in3):	25	25

**Piles:**

# of Piles: 7      Super Structure Height (ft.): 1.90  
 Overburden  
 Soil (in.): 0.00      Asphalt (in.): 6.00

Pile	Cir	Core Loc	Depth	Pent	Unbrace	Condition	Length	Spacing
1	37.50	2.4' below cap	6.00	0.75	5.30	Fair	5.30	1.00
2	30.50	2.4' below cap	6.00	0.25	5.30	Fair	5.30	6.50
3	34.20	2.9' below cap	5.50	0.50	5.70	Fair	5.70	1.00
4	31.50	2.7' below cap	5.50	0.50	5.50	Fair	5.50	5.30
5	29.80	2.7' below cap	5.30	0.50	5.80	Fair	5.80	7.00
6	31.00	2.6' below cap	5.50	0.50	5.60	Fair	5.60	1.00
7	34.50	2.6' below cap	5.80	0.50	5.60	Fair	5.60	0.00

**Comments:**

All pile cored in 2001.  
 Original pile #3 is rotten and crushed, provides no support.  
 Pile 1 cored 2003.  
 All pile sounded 2003.  
 All piles sounded and cored 2005.

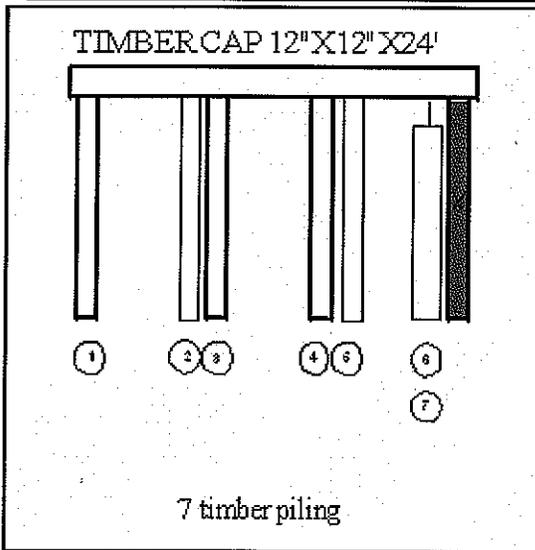
# GEORGIA DEPARTMENT OF TRANSPORTATION

## SubStructure Report

District: 3  
 Bridge Inspector: Bryon Patterson  
 Location ID: 077-00736F-010.58E  
 Structure ID: 077-0057-0

Inspection Date: 8/29/2005  
 Over: SHOAL CREEK  
 County: Coweta  
 Road Name: LWR FAYETTEVILLE RD

Inspection Area: 03  
 Skew: 00



Bent #:	3	Picture Type:	4
Deck:			
Material:	Steel	Width:	24.30
		Depth:	0.20
		Plank:	0.00
Cap:			
Material:	Treated		
Beam:			
	<u>FWD</u>	<u>REAR</u>	
Material:	Steel	Steel	
		Width:	<u>FWD</u> 0.00 <u>REAR</u> 0.00
		Depth:	0.00 0.00
Steel Beam:			
	<u>FWD</u>	<u>REAR</u>	<u>Yr-Fab</u>
Weight (#/ft):	25	25	0
SX (in3):	25	25	

**Piles:**

# of Piles: 7      Super Structure Height (ft.): 1.90  
 Overburden  
 Soil (in.): 0.00      Asphalt (in.): 6.00

Pile	Cir	Core Loc	Depth	Pent	Unbrace	Condition	Length	Spacing
1	42.00	4.1' below cap	5.40	0.50	5.80	Fair	5.80	7.40
2	36.10	5' below cap	5.50	0.75	7.00	Fair	7.00	1.40
3	28.20	5.1' below cap	5.30	0.63	7.00	Fair	7.00	4.30
4	28.50	4.1' below cap	5.50	0.25	6.90	Fair	6.90	1.00
5	33.50	4.1' below cap	5.30	0.50	6.90	Fair	6.90	6.20
6	34.00	3.1' below cap	5.30	1.00	5.70	Fair	5.70	0.00
7	38.50	3.1' below cap	5.50	0.50	5.70	Fair	5.70	0.00

**Comments:**

All pile cored in 2001.  
 Old Pile #4 has a 2" hull with a hollow interior.  
 Piles 2 and 4 cored 2003.  
 All piles sounded 2003.  
 original Pile #4 has been replaced with a straddle bent, it is now a 7 pile bent. (2/8/2005)  
 All piles sounded and cored 2005

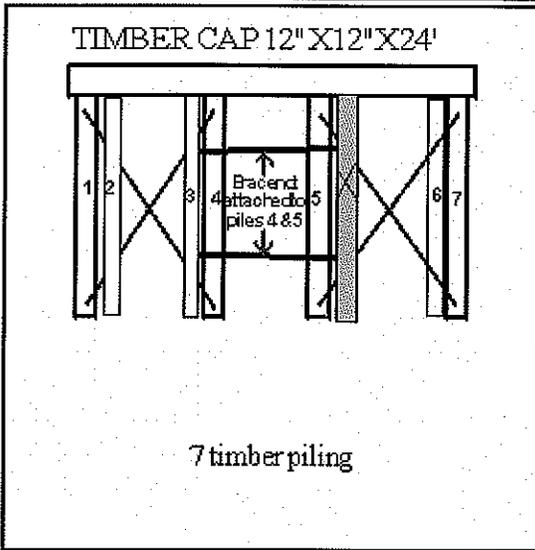
# GEORGIA DEPARTMENT OF TRANSPORTATION

## SubStructure Report

District: 3  
 Bridge Inspector: Bryon Patterson  
 Location ID: 077-00736F-010.58E  
 Structure ID: 077-0057-0

Inspection Date: 8/29/2005  
 Over: SHOAL CREEK  
 County: Coweta  
 Road Name: LWR FAYETTEVILLE RD

Inspection Area: 03  
 Skew: 00



Bent #:	5	Picture Type:	4		
Deck:					
Material:	Steel	Width:	24.30	Depth:	0.20
		Plank:	0.00		
Cap:					
Material:	Treated				
Beam:					
	<u>FWD</u>		<u>REAR</u>		<u>FWD</u> <u>REAR</u>
Material:	Steel	Width:	0.00	Depth:	0.00
			0.00		0.00
Steel Beam:					
	<u>FWD</u>		<u>REAR</u>		<u>Yr-Fab</u>
Weight (#/ft):	25	Weight (#/ft):	25	Yr-Fab:	0
SX (in3):	25	SX (in3):	25		

**Piles:**

# of Piles: 7                      Super Structure Height (ft.): 1.90  
 Overburden  
     Soil (in.): 0.00                      Asphalt (in.): 6.00

Pile	Cir	Core Loc	Depth	Pent	Unbrace	Condition	Length	Spacing
1	30.00	8.1' below cap	5.00	0.50	9.40	Fair	12.40	1.40
2	31.00	9.0' below cap	5.00	0.25	5.20	Fair	12.40	6.70
3	36.00	8.3' below cap	5.50	1.00	3.70	Fair	11.40	1.00
4	36.00	8.3' below cap	4.80	0.75	11.40	Fair	11.40	5.00
5	33.00	8.7' below cap	4.80	0.75	8.30	Fair	11.70	7.80
6	31.00	8.6' below cap	5.00	0.50	7.60	Fair	12.10	1.20
7	33.50	8.6' below cap	5.00	0.50	9.70	Fair	12.10	0.00

**Comments:**

All pile cored in 2001.  
 Pile 3 cored 2003.  
 All piles sounded 2003.  
 All piles sounded and cored 2005.

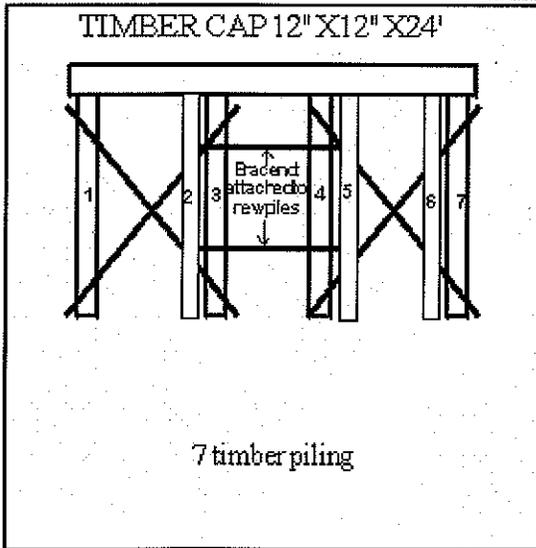
# GEORGIA DEPARTMENT OF TRANSPORTATION

## SubStructure Report

District: 3  
 Bridge Inspector: Bryon Patterson  
 Location ID: 077-00736F-010.58E  
 Structure ID: 077-0057-0

Inspection Date: 8/29/2005  
 Over: SHOAL CREEK  
 County: Coweta  
 Road Name: LWR FAYETTEVILLE RD

Inspection Area: 03  
 Skew: 00



Bent #:	4	Picture Type:	4
Deck:			
Material:	Steel	Width:	24.30
		Depth:	0.20
		Plank:	0.00
Cap:			
Material:	Treated		
Beam:			
		<u>FWD</u>	<u>REAR</u>
Material:	Steel	Steel	Steel
		Width:	0.00
		Depth:	0.00
Steel Beam:			
		<u>FWD</u>	<u>REAR</u>
Weight (#/ft):	25	25	0
SX (in3):	25	25	

**Piles:**

# of Piles: 7      Super Structure Height (ft.): 1.90  
 Overburden  
 Soil (in.): 0.00      Asphalt (in.): 6.00

Pile	Cir	Core Loc	Depth	Pent	Unbrace	Condition	Length	Spacing
1	36.00	4.7' below cap	5.00	0.38	5.00	Fair	9.70	7.00
2	33.50	7.8' below cap	5.10	0.75	4.00	Fair	9.70	1.00
3	34.00	6.5' below cap	4.90	0.87	8.70	Fair	9.70	4.90
4	32.00	8.3' below cap	5.00	0.50	9.00	Fair	10.70	1.00
5	38.00	8.0' below cap	5.30	0.50	4.20	Fair	10.70	6.00
6	29.00	7.8' below cap	5.20	0.50	9.00	Fair	11.50	1.00
7	37.00	8' below cap	5.20	1.00	8.50	Fair	11.50	0.00

**Comments:**

All pile cored in 2001.  
 Pile 4 cored 2003.  
 All piles sounded 2003.  
 All piles sounded and cored 2005.







# GEORGIA DEPARTMENT OF TRANSPORTATION

## Bridge Component Report

District: 3  
 Bridge Inspector: Bryon Patterson  
 Location ID: 077-00736F-010.58E  
 Structure ID: 077-0057-0

Inspection Date: 8/29/2005  
 Over: SHOAL CREEK  
 County: Coweta

Inspection Area: 03

Road Name: LWR FAYETTEVILLE RD

### SubStructure Data

Bent#	Type	Foundation	Col	#Cols	Piling	#Piles	Sway	CAP	Remarks
1	A	DP		0	T	8		T	
2	B	DP		0	T	7		T	
3	B	DP		0	T	7		T	
4	B	DP		0	T	7	X	T	
5	B	DP		0	T	7	X	T	
6	B	DP		0	T	5		T	
7	B	DP		0	T	4		T	
8	A	DP		0	T	7		T	

### SuperStructure Data

Span#	Beam Type	Spacing	Length	#Beams	Remarks
1	Steel	1.90	20.00	14	S10X25.4
2	Steel	1.90	20.00	14	S10X25.4
3	Steel	1.90	20.00	14	S10X25.4
4	Steel	1.90	20.00	14	S10X25.4
5	Steel	1.90	20.00	14	S10X25.4
6	Steel	1.90	20.00	14	S10X25.4
7	Steel	1.90	20.00	14	S10X25.4

### Bearing Data

Span#	Rear Type Bearing	FWD Type Bearing	Remarks
1	08 - Beam on Cap	08 - Beam on Cap	
2	08 - Beam on Cap	08 - Beam on Cap	
3	08 - Beam on Cap	08 - Beam on Cap	
4	08 - Beam on Cap	08 - Beam on Cap	
5	08 - Beam on Cap	08 - Beam on Cap	
6	08 - Beam on Cap	08 - Beam on Cap	
7	08 - Beam on Cap	08 - Beam on Cap	

# CONCEPT TEAM MEETING MINUTES

BRSRB-0736-00(005) – Coweta County

P.I. 331770-

CR 546 Lower Fayetteville Road at Shoal Creek

The concept team meeting for Georgia DOT project BRSRB-0736-00(005), Coweta County, P.I. 331770- was held at 1:30 p.m. on November 1, 2007 with Bill Rountree, District 3 Design Engineer, officiating. The Concept Team members present were:

<u>Name</u>	<u>Title</u>	<u>Telephone</u>	<u>Email</u>
Thomas Howell	GDOT, District Engineer	(706) 646-6900	Thomas.Howell@dot.state.ga.us
Lamar Pruitt	GDOT, District Construction Engineer	(706) 646-6911	Lamar.Pruitt@dot.state.ga.us
David Millen	GDOT, District Preconstruction Engineer	(706) 646-6987	David.Millen@dot.state.ga.us
Bill Rountree	GDOT, District Design Engineer	(706) 646-6990	Bill.Rountree@dot.state.ga.us
Jason Mobley	GDOT, District Design Squad Leader	(706) 646-6661	Jason.Mobley@dot.state.ga.us
Debra Pruitt	GDOT, District Environmentalist	(706) 646-6984	Debra.Pruitt@dot.state.ga.us
Audrey Gooch	GDOT, Local Government Coordinator	(706) 646-6965	Audrey.Gooch@dot.state.ga.us
Havard Seldon	GDOT, Area Engineer	(706) 845-4115	Havard.Seldon@dot.state.ga.us
Kim Brown	GDOT, Utilities Engineer	(706) 646-6695	Kim.Brown@dot.state.ga.us
Michael Presley	GDOT, District Traffic Operations Manager	(706) 646-6675	Michael.Presley@dot.state.ga.us
John Caldwell	Coweta County Water, Engineering Dept.	(770) 254-3710	JCaldwell@coweta.ga.us
Wayne Kennedy	Coweta County, County Engineer	(770) 254-3775	WKennedy@coweta.ga.us

The following constitutes the minutes for the concept team meeting. These minutes are a summary in nature and do not attempt to document every item discussed nor statement made. Should your recollection differ from what is contained herein or you wish to add something, please contact Bill Rountree at 706-646-6990, or via e-mail at [bill.rountree@dot.state.ga.us](mailto:bill.rountree@dot.state.ga.us).

1. The meeting began at approximately 1:30 P.M.
2. Each member was provided with a concept report draft and meeting agenda. A layout of the concept was displayed as a visual aid. Introductions were made. It was requested that comments or questions be withheld until after a review of the concept report draft.
3. Bill Rountree began by giving a project description using the project layout.
4. Additionally, Bill Rountree led the group through the draft concept report.
  - Page #1. No comments
  - Page #2. No comments
  - Page #3. No comments
  - Page #4.
    - i. Bill Rountree stated that ARC required bicycle facilities on all bridge replacement projects in the Atlanta MPO. Wayne Kennedy suggested that bicycle facilities were only necessary when they were already present in the general area. After discussion, it was determined that the bridge would be constructed wide enough to accommodate bicycles. David Millen suggested a follow-up with ARC to ensure the proposed bridge width would meet their requirements for bicycles.
    - ii. Wayne Kennedy stated that project 0004407 is near completion as the paving has already been done.
    - iii. Wayne Kennedy asked if the traffic counts included the proposed commercial development that would be built near Fisher Road. Bill Rountree said that the traffic would be updated even though the amount of traffic was not the reason behind the project.

Page #5. Jason Mobley will request the updated traffic.

Page #6.

- i. Wayne Kennedy stated that the existing road consisted of 10-foot lanes and 6-foot shoulders (2-foot paved & 4-foot grassed)
- ii. Bill Rountree said that the 80-foot R/W had been estimated based on fence locations. Wayne Kennedy confirmed that R/W was 80 feet.
- iii. Wayne Kennedy stated that the existing bridge had no concrete. This was later confirmed in the bridge inventory.

Page #7.

- i. Wayne Kennedy asked if the grade should be raised. He stated that he had seen the bridge under water twice. Bill Rountree stated that preliminary hydraulics did not indicate the need to raise the bridge, but that he would investigate further. He also mentioned that raising the grade could lengthen the project substantially. Thomas Howell recommended we request bridge design to perform a preliminary hydraulic study to determine whether the grade should be raised.
- ii. Kim Brown said that Atlanta Gas Light and Georgia Power Distribution could be eliminated from the utilities list.

Typical Sections Bill Rountree stated that the pavement section may be too thick and that a pavement design could be submitted to reduce the thickness. Lamar Pruitt said that a core could be taken so that we could possibly match the existing pavement section.

Detour Bill Rountree said that the page would be fixed so that the entire detour route was visible. Thomas Howell recommended that the project along State Route 54 at Reese Road and Stewart Road be mentioned in the report.

5. Bill Rountree showed a video of the existing project site.
6. Comments and questions were requested from members present. Such comments have been listed below and are categorized by department.
  - a. Planning: No comments
  - b. Office of Financial Management: No comments
  - c. Environmental: Katherine Russett indicated via email that the project would likely be a CE instead of a PCE. Debra Pruitt suggested we go ahead and submit a request for a UST investigation.
  - d. Utilities: No additional comments
  - e. Right of Way: No additional comments
  - f. Traffic Operations: Michael Presley recommended applying appropriate passing zone centerline markings if applicable.
  - g. Construction: No additional comments
  - h. Maintenance: No additional comments
  - i. Preconstruction: David Millen stated that we might want to shift driveways away from the bridge depending on the raising of the grade and the location of guardrail. Thomas Howell added that we should move the driveways if the property owners are agreeable. We should not break the guardrail if we can avoid it.
  - j. District Engineer: No additional comments.
  - k. Location: Tommy Cleveland stated before the meeting that the site had already been surveyed but not processed.
  - l. Coweta County: Wayne Kennedy stated that this bridge replacement is the most desperately needed in Coweta County.
  - m. Others: No comments
7. The meeting was adjourned at approximately 2:20 P.M.