

D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE** P. I. No. 632885-, Catoosa County **OFFICE** Preconstruction  
BRST-001-6(47)  
SR 3/US 41 at Tiger Creek Bridge Replacement **DATE** March 5, 2007

**FROM** *GRS* 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.

GRS/cj

Attachment

DISTRIBUTION:

Brian Summers  
Harvey Keepler  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Angela Alexander (file copy)  
Paul Liles  
Babs Abubakari  
Kent Sager  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** P. I. No. 632885-, Catoosa County **OFFICE:** Preconstruction  
BRST-001-6(47)  
SR 3/US 41 at Tiger Creek Bridge Replacement **DATE:** February 20, 2007

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

**TO:** David E. Studstill, Jr., P.E., Chief Engineer

**SUBJECT: PROJECT CONCEPT REPORT**

This project is the replacement of a structurally deficient bridge on SR 3/US 41 over Tiger Creek, 1.9 miles east of Ringgold, Georgia. The existing bridge, constructed in 1955, is load limited with a sufficiency rating of 34. State Route 3 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. Traffic is projected to be 9,800 VPD and 16,000 VPD in the years 2010 and 2030 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 3/US 41 west of its present location, extending a total of 0.51 mile. The proposed new bridge will be 250' x 44' and will be located just west of the existing bridge structure. The relocated SR 3 will consist of two, 12' lanes with 10' rural shoulders (2' paved). Traffic will be maintained on the existing bridge while the proposed bridge is constructed.

Environmental concerns include requiring a COE 404 permit; a Categorical Exclusion will be prepared; time saving procedures are appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	FUNDING	PROG DATE
Construction (includes E&C and inflation)	\$1,860,000	\$1,775,000	LICO	LR
Right-of-Way	\$ 535,000	\$ 500,000	LICO	2009
Utilities*	\$ 150,000	-----		

\*Catoosa County signed LGPA for utilities 6-24-03; rescission letter sent to Catoosa County 7-22-05.

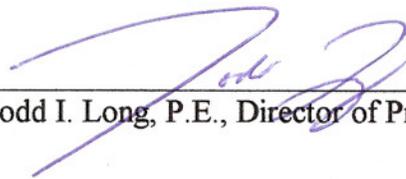
P. I. No. 632885-, Catoosa  
February 20, 2007

This project is in the STIP. I recommend this project concept be approved.

GRS:JDQ/cj

Attachment

CONCUR \_\_\_\_\_

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

APPROVE \_\_\_\_\_

  
\_\_\_\_\_  
David E. Studstill, Jr., P.E., Chief Engineer



## SCORING RESULTS AS PER TOPPS 2440-2

<b>Project Number:</b> BRST-001-6(47)		<b>County:</b> Catoosa		<b>PI No.:</b> 632885	
<b>Report Date:</b> January 8, 2007		<b>Concept By:</b> DOT Office: Consultant Design			
<input checked="" type="checkbox"/> Concept Stage		Consultant: Street Smarts			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" 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				

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Program Delivery and Consultant Design**

**PROJECT CONCEPT REPORT**

**PROJECT NUMBER: BRST-001-6(47)**

County: Catoosa

Project P.I. Number: 632885

Federal Route Number: 41

State Route Number: 3

**S.R.3/U.S. 41 at Tiger Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 8, 2007

Yun Tang

Project Manager

Date: January 8, 2007

M. Babs Abubakari

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

Date: \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

Date: 1-9-07

James T. Simpson  
Financial Management Administrator

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

\_\_\_\_\_  
State Traffic Operations Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
District 6 Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
State Project Review Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
Bridge Design

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Program Delivery and Consultant Design**

**PROJECT CONCEPT REPORT**

**PROJECT NUMBER: BRST-001-6(47)**

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*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 8, 2007

Yun Tang  
Project Manager

Date: January 8, 2007

M. Babs Abubakar

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Date: \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

\_\_\_\_\_  
State Traffic Operations Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
District 6 Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
State Project Review Engineer

Date: 3/12/07

Paul V. Telle Jr  
\_\_\_\_\_  
Bridge Design

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

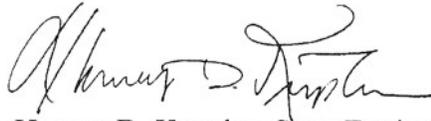
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**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** P.I. No. 632885

**OFFICE:** Environment/Location

**DATE:** January 24, 2007



**FROM:** Harvey D. Keeper, State Environmental/Location Engineer

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

**SUBJECT: PROJECT CONCEPT REPORT  
BRST-001-6(47) / Catoosa County  
S.R. 3 / U.S. 41 at Tiger Creek Bridge Replacement**

The above subject concept report has been reviewed. We will need approximately six (6) months to get a 404 permit. Approximately \$35,000 should be added to ROW estimate for wetland mitigation. Page 4 under Non-Attainment should be revised to indicate type of Non-Attainment – Ozone or PM 2.5.

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

HDK/lc

Attachment

cc: Brian Summers  
Babs Abubakari  
Angela Alexander  
Jamie Simpson  
Keith Golden  
Paul Liles  
Kent Sager

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Program Delivery and Consultant Design**

**PROJECT CONCEPT REPORT**

**PROJECT NUMBER: BRST-001-6(47)**

County: Catoosa

Project P.I. Number: 632885

Federal Route Number: 41

State Route Number: 3

**S.R.3/U.S. 41 at Tiger Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 8, 2007

Yun Tang

Project Manager

Date: January 8, 2007

M. Babs Abubakari

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

Date: \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

Date: \_\_\_\_\_

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

Date: 1.24.07

[Signature]  
State Environmental/Location Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
State Traffic Operations Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
District 6 Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
State Project Review Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
Bridge Design

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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INTERDEPARTMENT CORRESPONDENCE

FILE **BRST-001-6(47) Catoosa County** OFFICE Consultant Design  
S.R. 3/U.S. 41 over Tiger Creek Bridge Replacement  
P.I. No. 632885

FROM  Babs Abubakari, State Consultant Design and Program Delivery Engineer DATE February 6, 2007

TO Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT **Response to Concept Review Comments**

We have received and reviewed Concept Review comments from Mr. Harvey Keeper, dated January 24, 2007. Updated Concept Report will NOT be issued.

\$35,000 wetland mitigation cost will be added to project cost estimate.

This project is not in the non-attainment area; therefore, we did not specify the type of non-attainment.

If you have any questions, please contact Yun Tang at (404) 463-0290.

MBA: MAH: YT

Attachments

Cc: Harvey Keeper, State Environmental/Location Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Program Delivery and Consultant Design**

**PROJECT CONCEPT REPORT**

**PROJECT NUMBER: BRST-001-6(47)**

County: Catoosa

Project P.I. Number: 632885

Federal Route Number: 41

State Route Number: 3

**S.R.3/U.S. 41 at Tiger Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 8, 2007

Yun Tang

Project Manager

Date: January 8, 2007

M. Babs Abubakari

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

Date: \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

\_\_\_\_\_  
State Traffic Operations Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
District 6 Engineer

Date: 2/19/07

Brian K. Summer  
State Project Review Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
Bridge Design

## NOTICE OF LOCATION AND DESIGN APPROVAL

Project Name	Project Number	P.I. Number	County
SR3/US41 at Tiger Creek Bridge Replacement	BRST-001-6(47)	632885	Catoosa

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 and design approval is MARCH 5, 2007

### Descriptions of the Proposed Project:

This project is located in Catoosa County in the 9<sup>th</sup> U.S. Congressional District, in Land Lots 194, 202 and 203 of the 4<sup>th</sup> Land District of Catoosa County.

### Descriptions of the Proposed Construction:

The proposed bridge replacement on SR3/US41 over Tiger Creek will have a total length of approximately 2700 linear feet with the existing bridge located near the center of the project. SR3/US41 is currently signed at 55 mph. The existing bridge has a length of 194'. The replacement bridge will have an approximate length of 250'. The alignment will shift to the west to maintain the minimum radius for a 55 mph design speed.

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:

Devon Brooks, Area Engineer  
Devon.brooks@dot.state.ga.us  
313 North Tibbs Road  
Dalton, GA 30720  
Telephone: (706) 272-2211

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:

Kent L. Sager, District Engineer  
Kent.sager@dot.state.ga.us  
500 Joe Frank Harris Parkway SE  
P.O. Box 10  
Carersville, GA 30120  
Telephone (770) 387-3602

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**     **PROJECT NUMBER: BRST-001-6(47) PI No. 632885**     **OFFICE**     Consultant Design  
**Catoosa County**  
S.R.3/U.S. 41 at Tiger Creek Bridge Replacement

**FROM**     *M. Babs Abubakari*  
Babs Abubakari, P.E., State Consultant Design Engineer     **Date**     January 8, 2007

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

**SUBJECT**     PROJECT CONCEPT REPORT

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

**Distribution:**

*Brian Summers -- State Project Review Engineer*  
*Harvey Keeper -- State Environment/ Location Engineer*  
*Carla Holmes -- State Traffic Operations Engineer*  
*Angela Alexander -- State Transportation Planning Administrator*  
*Jamie Simpson -- State Transportation Financial Management Administrator*  
*Kent L. Sager -- District 6 Engineer*  
*Paul Liles, Jr. -- State Bridge Design Engineer*

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Program Delivery and Consultant Design**

**PROJECT CONCEPT REPORT**

**PROJECT NUMBER: BRST-001-6(47)**

County: Catoosa

Project P.I. Number: 632885

Federal Route Number: 41

State Route Number: 3

**S.R.3/U.S. 41 at Tiger Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 8, 2007

Yun Tang  
Project Manager

Date: January 8, 2007

M. Babs Abubakari

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

Date: \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_

\_\_\_\_\_  
State Traffic Operations Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
District 6 Engineer

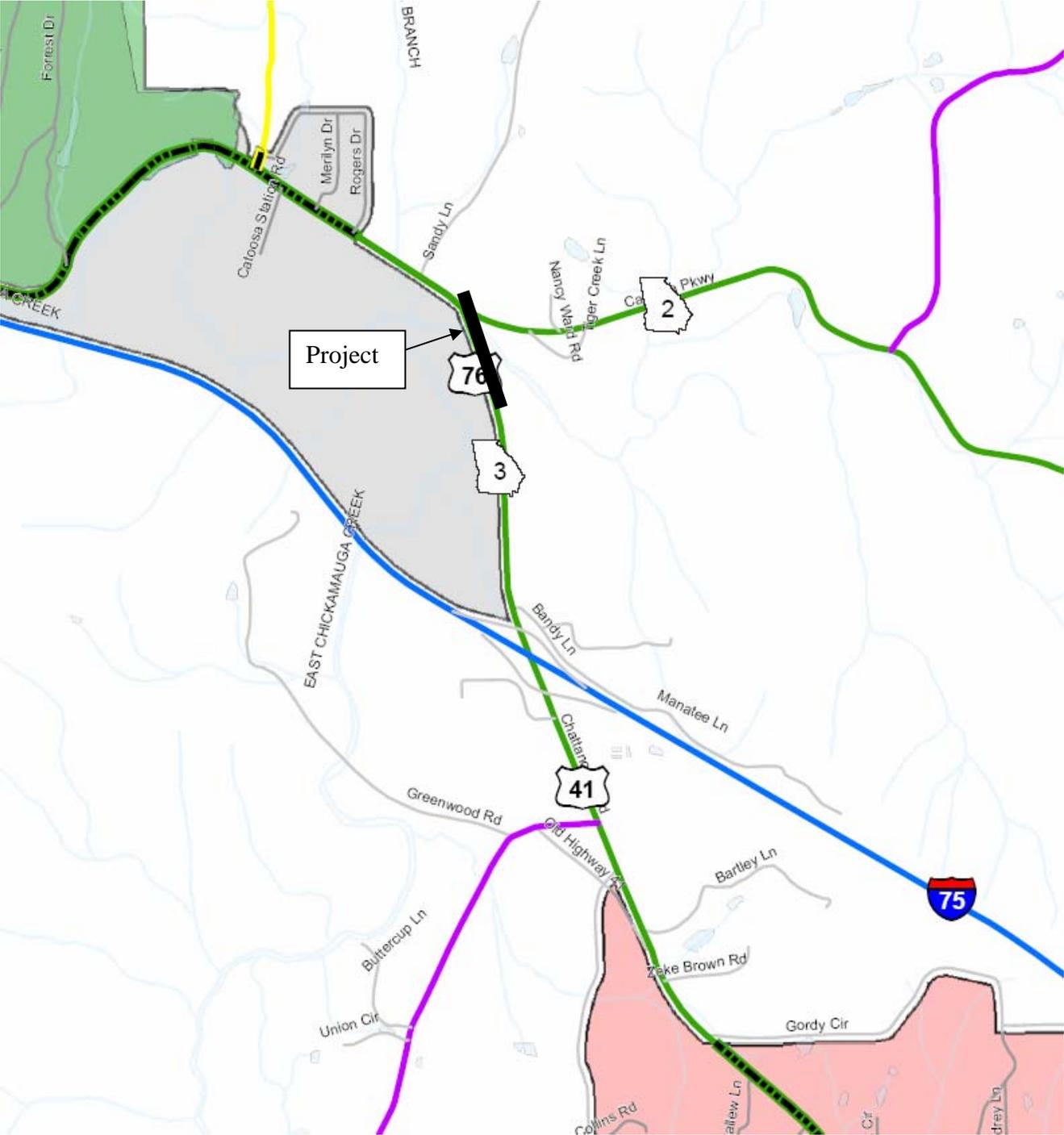
Date: \_\_\_\_\_

\_\_\_\_\_  
State Project Review Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
Bridge Design

# SITE LOCATION MAP



**Need and Purpose:** The existing bridge on SR3/US41 over Tiger Creek carried an average of 7200 vehicles per day in the year 2000. This traffic volume represents a Level-of -Service of “A”, which is acceptable.

This two lane bridge was constructed in 1938 and reconstructed in 1955 and is not on a state or locally designated bike route. The bridge is in poor condition. The sufficiency rating on the structure is 34.23 and the bridge is classified as Structurally Deficient and requires replacement.

For the year 2010, the traffic volume is projected to be 9800 vehicles per day. This traffic volume represents a Level-of -Service of “B”, which is acceptable. By the year 2030, traffic volume is projected to grow to 16,000 vehicles per day. This traffic volume represents a Level-of -Service of “D”, which is acceptable.

Because the bridge is considered structurally deficient, GDOT has a proposed project BRST-001-6(47) to replace the bridge with a new structure. There are no other associated projects in the area and this project has independent utility.

Catoosa County’s population grew by 25.5% between 1990 and 2000 to a total population of 53,282. In the year 2004, Catoosa County had a minority population of 5.5%, compared to a statewide average of 30.8% (the U.S. Census defines a minority population as Black/African-American, Hispanic/Latino, Asian/Pacific Islander, or American Indian/Alaska Native). The U.S. Census estimated in 2003 that 10.6% of Catoosa County residents lived below the poverty level, compared to a statewide average of 13.3%.

This project does not disproportionately burden or benefit any particular community. The project is surrounded by mainly agricultural and residential land with a small commercial area north of the proposed bridge. The project is considered to be a benefit to all of the communities that use the bridge because of the improved bridge condition.

**Description of the proposed project:** The proposed bridge replacement on SR3/US41 over Tiger Creek will have a total length of approximately 2700 linear feet with the existing bridge located near the center of the project. SR3/US41 is currently signed at 55 mph. The existing bridge has a length of 194’. The replacement bridge will have an approximate length of 250’. The alignment will be permanently shifted to the west to maintain the minimum radius for a 55 mph design speed.

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

**PDP Classification:** Major Project ( ) Minor Project (X)

**Project Designation:** Full Oversight ( ) Exempt ( X ) State Funded ( ) Other ( )

**Functional Classification:** Rural Minor Arterial

**U.S. Route Number:** 41

**State Route Number:** 3

**Traffic (AADT – 2004 counts) – 7200 v.p.d.**

**Traffic Projections (AADT) - Base Year 2010 – 9800 v.p.d.**

**Traffic Projections (AADT) - Design Year 2030 – 16000 v.p.d.**

**Existing Design Features:**

- SR 3 is a two-lane rural roadway with a 55 mph speed limit. The adjacent land use is agricultural with scattered residential and commercial structures.
- Typical Section: Two 12-foot travel lanes with 2-foot unpaved shoulders. Slopes vary from 2:1 to 4:1.
- Posted Speed: 55 mph
- Maximum Radius: 10,000 feet
- Maximum Grade (mainline): 3%
- Maximum Grade (driveway): 20%
- Width of Right-Of-Way: 85-100 feet
- Major Structures: Bridge, Structure ID 047-0013-0, 194' long, 29.8' deck width, 34.23 Suff. rating
- Major interchanges or intersections along the project: none
- Existing length of roadway segment: 0.51 miles

**Proposed Design Features:**

- Proposed Typical Sections: One 12-foot through lane in each direction with a 10-foot shoulder, 4-foot paved and 6-foot grassed. Slopes will vary from 2:1 in areas with guardrail to 4:1 in areas without guardrail.
- Proposed Design Speed: 55 mph
- Proposed Maximum Grade: 8%
- Maximum Grade Allowable: 9%
- Proposed Maximum Grade (Driveway): 25%
- Proposed Minimum Radius: 960'
- Minimum Radius Allowable: 960'
- Right of Way
  - Width: Varies 100-160 feet
  - Easements: Temporary ( ) Permanent (X) Utility ( ) Other ( )
  - Type of access Control: Full ( ) Partial ( ) By Permit (X) Other ( )
  - Number of Parcels: 10
  - Number of Displacements:
    - Business: 3
    - Residences: 0
    - Mobile Homes: 0
    - Other: 0
- Structures: Bridge approximately 250 feet long and 48 feet wide
- Major intersections and interchanges: N/A

- Traffic control during construction: Traffic will continue to utilize the existing roadway while the new bridge is constructed to the west of the existing alignment. All driveway access will be maintained during construction.
- Design Exceptions to controlling criteria anticipated:

	Undetermined	Yes	No
Horizontal Alignment			X
Roadway Width			X
Shoulder Width			X
Vertical Grades			X
Cross Slopes			X
Stopping Site Distance			X
Super Elevation Rates			X
Horizontal Clearance			X
Speed Design			X
Vertical Clearance			X
Bridge Width			X
Bridge Structural Capacity			X

- Design Variances: None
- Environmental Concerns: Stream Crossing, Wetland Area, Museum
- Level of Environmental Analysis:
  - Are Time Saving Procedures appropriate? Yes ( ) No (X)
  - Categorical Exclusion? Yes (X) No ( )
  - Environmental Assessment/Finding of No Significant Impact – N/A
  - Environmental Impact Statement – N/A
- Utility Involvements:
  - Atlanta Gas Light Northwest
  - Catoosa Utility District Water
  - Dalton Utilities Water
  - Dalton Utilities Fiber
  - MCI
  - North Georgia EMC
  - QWEST Communications
  - Ringgold Telephone
  - Bellsouth
  - Georgia Power
  - Charter Communications

### Project Responsibilities:

- Design – GDOT
- Right-of-Way Acquisition – GDOT
- Relocation of Utilities – GDOT
- Letting to Contract – GDOT
- Supervision of Construction – GDOT
- Providing Material Pits – Contractor
- Providing Detours – GDOT

### Coordination

- Concept meeting date and brief summary: 9/29/06
- P.A.R meetings, dates and results: N/A
- FEMA, USCG and/or TVA: TBD
- Public Involvement: N/A
- Local Government Comments: TBD
- Other Projects in the area: None
- Other Coordination to date: None

### Scheduling – Responsible Parties Estimate

Time to complete environmental process: 6 months

Time to complete preliminary construction plans: 2 month

Time to complete right-of-way plans: 1 month

Time to complete the Section 404 permit: 2 months

Time to complete final construction plans: 1 month

Time to complete the purchase of right-of-way: 12 months

List other major items that will affect the project schedule: None

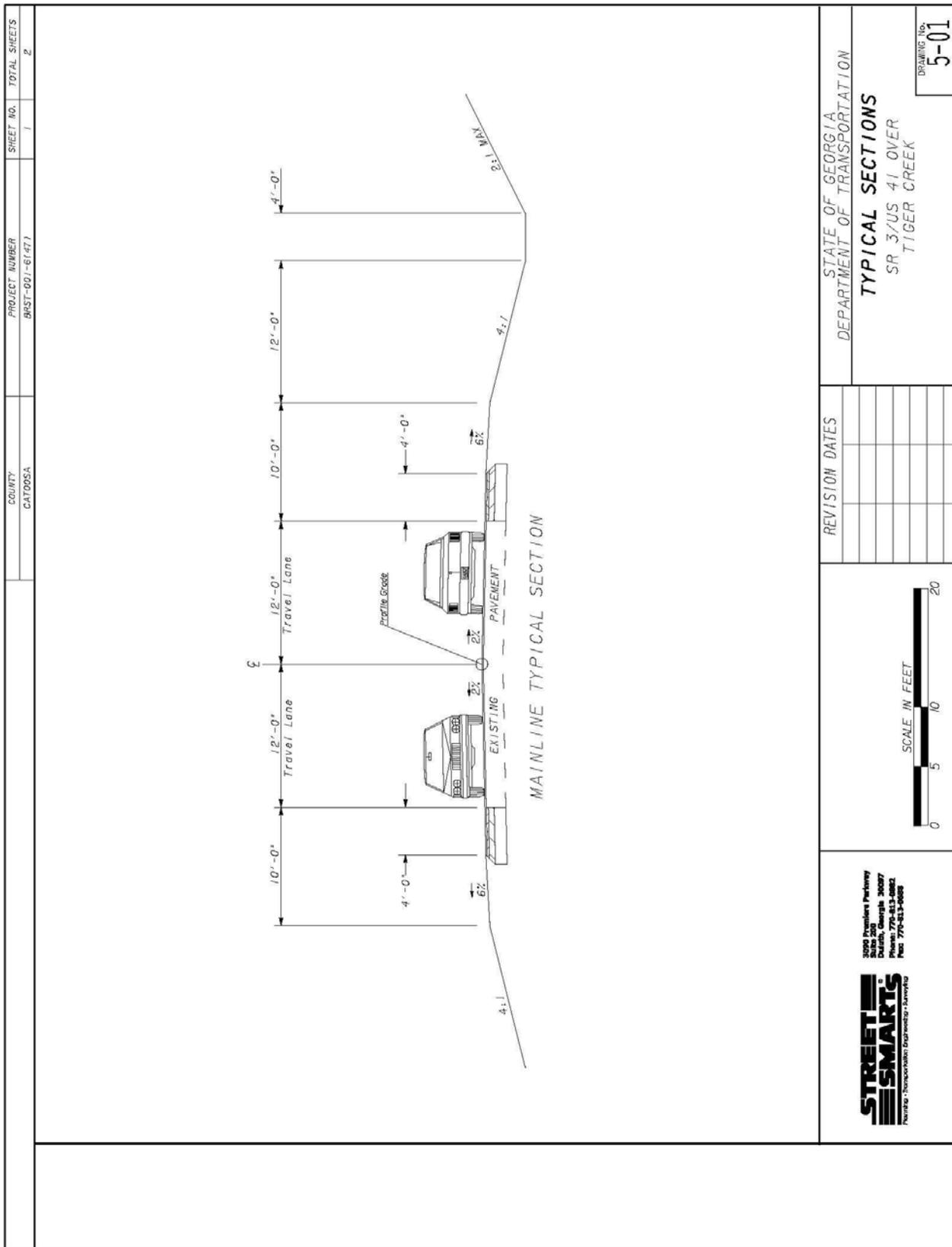
### Other Alternates Considered:

1. **No Build.** The No Build option is not a viable one since it does not address the structural deficiencies in the bridge and therefore does not meet the need and purpose of the project.
2. **Construct a new bridge on existing alignment and build a temporary detour bridge.** The construction of a new bridge on the existing alignment and building a temporary detour bridge was explored. The existing curve on SR3/US41 north of the existing bridge has very little super elevation and a radius less than the minimum allowable at 55 mph and therefore, would have to be reconstructed in any scenario. Replacing the existing bridge on the current alignment would prove impossible due to this constraint. The curve would move to the northeast and encroach upon the marked historic properties. In addition, the construction of the temporary roadway and temporary bridge would cost as much as the project that is being presented. The alignment for the temporary bridge would follow the same basic path as the suggested alignment. The same properties would be impacted in addition to the impacts on the historic museum property.
3. **Construct a new bridge on existing alignment and use an offsite detour.** The construction of a new bridge on the existing alignment and building a temporary detour bridge was explored. The existing curve on SR3/US41 north of the existing bridge has very little super elevation and a radius less than the minimum allowable at 55 mph and therefore, would have to be reconstructed in any scenario. Replacing the existing bridge on the current alignment would prove impossible due to this constraint. The curve would move to the northeast and encroach upon the marked historic properties. In addition, this is one of the main routes from Interstate

75 to Ringold, GA. Due to the extreme topography of the area no suitable offsite detour could be found.

**Attachments:**

1. Roadway Typical Section
2. Bridge Typical Section
3. Concept Plan
4. Traffic Volumes
5. Bridge Inventory Data Sheets
6. Cost Estimate
7. Concept Team Meeting Notes
8. Notice of Location and Design

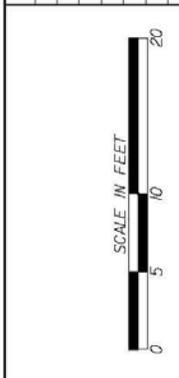


STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**  
 SR 3/US 41 OVER  
 TIGER CREEK

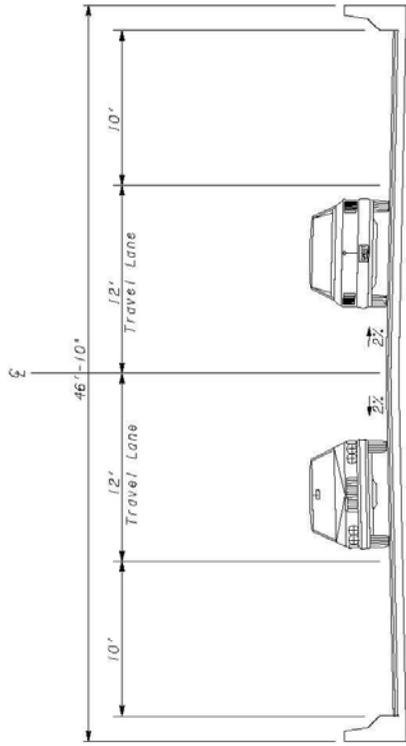
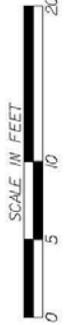
DRAWING NO.  
**5-01**

REVISION DATES

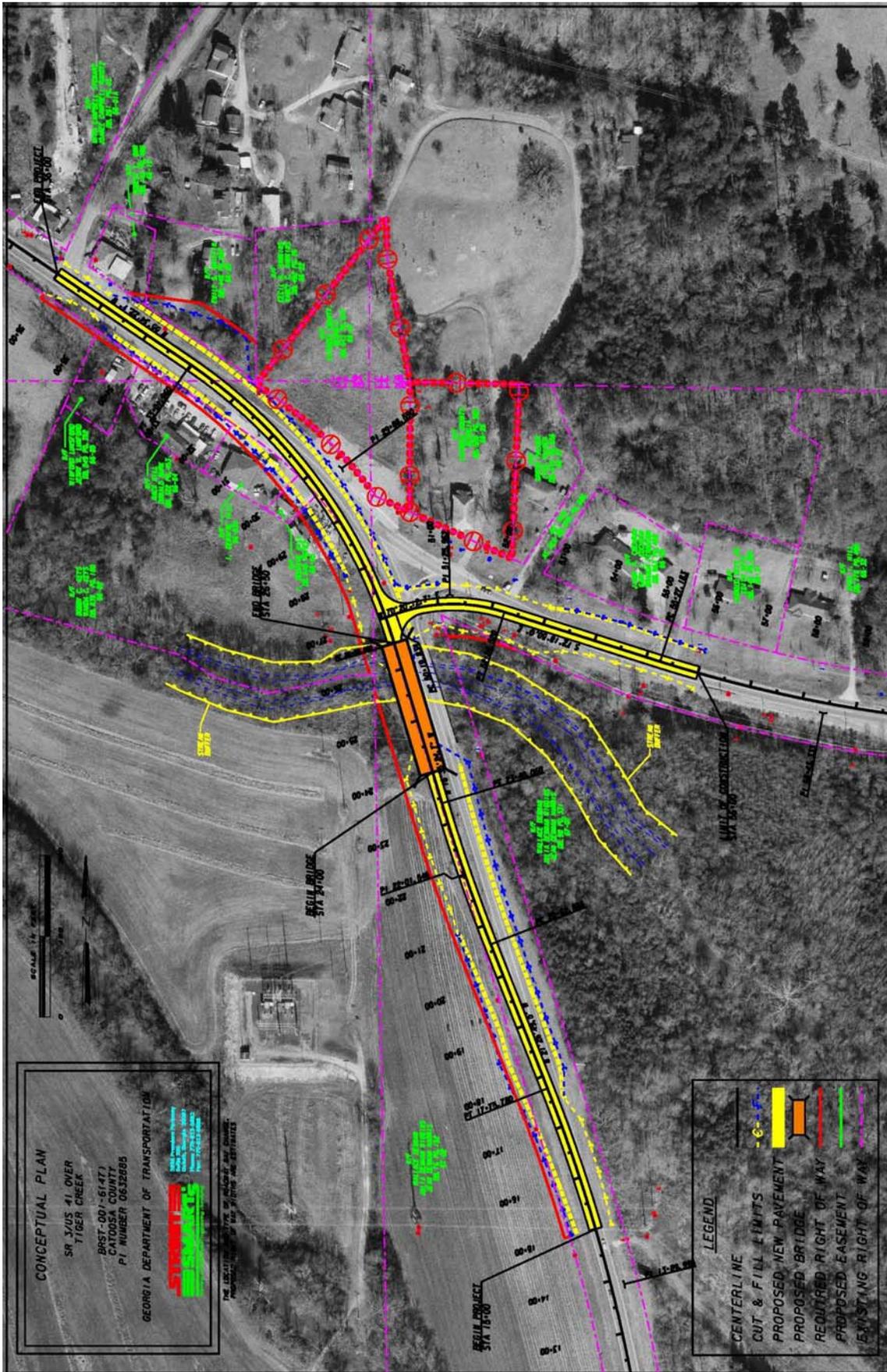


**STREET SMARTS**  
 Planning • Design • Construction • Surveying

3000 Peachtree Parkway  
 Suite 200  
 Duluth, Georgia 30097  
 Phone: 770-453-0882  
 Fax: 770-453-9888

COUNTY: CATOOSA	PROJECT NUMBER: BRST-001-6(47)	SHEET NO.: 2	TOTAL SHEETS: 2
 <p>BRIDGE SECTION</p>			
STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS SR 3/US 41 OVER TIGER CREEK		REVISION DATES	
		DRAWING NO. <b>5-02</b>	

**STREET SMARTS**  
 Planning • Transportation Engineering • Surveying  
 3006 Peachtree Parkway  
 Suite 200  
 Duluth, Georgia 30097  
 Phone: 770-813-0882  
 Fax: 770-813-0888



## Department of Transportation State of Georgia

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### INTERDEPARTMENT CORRESPONDENCE

**FILE** BRST-001-6(47), Catoosa County  
P.I. # 632885

**OFFICE** Environment/Location

**DATE** July 26, 2002

**FROM** Harvey D. Keepler., State Environment/Location Engineer

**TO** James B. Buchan, P.E., State Consultant Design Engineer.  
**Attn.** Ted Cashin

**SUBJECT** Traffic Assignments S.R. 3/U.S. 41 at Tiger Creek 1.9 MI E of Ringgold in Catoosa County.

We are furnishing estimated Traffic Assignments for the above project as follows:

2000 AADT = 7200  
2010 AADT = 9800  
2030 AADT = 16000  
K = 9%  
D = 60%  
T. = 12%  
24 HOUR T = 15%  
S.U. = 6.5%  
COMB. = 8.5%

If you have any questions concerning this information please contact Abby Ebodaghe at (404) 699-4460.

HDK/AFE

**BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION**

Structure ID:	047-0013-0	Catoosa	SUFF. RATING	34.23
<b>Location &amp; Geography</b>				
* Structure I.D.No:	047-0013-0			
* 200 Bridge Information	07			
* 6A Feature Int:	TIGER CREEK			
* 6B Critical Bridge:	0			
* 7A Route Number Carried:	SR00003			
* 7B Facility Carried:	US 41			
* 9 Location:	1.9 MI EAST OF RINGGOLD			
* 2 DOT District:	6			
* 207 Year Photo:	1999			
* 91 Inspection Frequency:	24	Date: 12/09/2002		
* 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:	2			
Designation:	1			
Number:	00041			
Direction:	0			
* 16 Latitude:	34-54.3	MMS Prefix: SR		
* 17 Longitude:	85-04.6	MMS Suffix: 00	MP:	3.28
* 98 Border Bridge:	000	%Shared: 00		
* 99 ID Number:	0000000000000000			
* 100 STRAHNET:	0			
12 Base Highway Network:	1			
13A LRS Inventory Route:	471000300			
13B Sub Inventory Route:	0			
* 101 Parallel Structure:	N			
* 102 Direction of Traffic:	2			
* 264 Road Inventory Mile Post:	003.23			
* 208 Inspection Area:	06	Initials: DEM		
Engineer's Initial:	sgm			
* Location I.D. No.:	047-00003D-003.28N			
<b>Signs &amp; Attachments</b>				
* 104 Highway System:	0			
* 26 Functional Classification:	06			
* 204 Federal Route Type:	F	No.: 00016		
* 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:	02			
* 20 Toll:	3			
* 21 Maintenance:	01			
* 22 Owner:	01			
* 31 Design Load:	2			
* 37 Historical Significance:	5			
* 205 Congressional District:	10			
* 27 Year Constructed:	1938			
* 106 Year Reconstructed:	1955			
* 33 Bridge Median:	0			
* 34 Skew:	00			
* 35 Structure Flared:	0			
* 38 Navigation Control:	0			
* 213 Special Steel Design:	0			
* 267 Type of Paint:	0			
* 42 Type of Service on:	1			
* 5				
* 214 Movable Bridge:	0			
* 203 Type Bridge:	O-O-O-O			
* 239 Pile Encasement:	3			
* 43 Structure Type Main:	1	04		
* 45 No. Spans Main:	001			
* 44 Structure Type Appr:	1	04		
* 46 No. Spans Appr:	0006			
* 226 Bridge Curve Horiz:	0	Vert: 0		
* 111 Pier Protection:	0			
* 107 Deck Structure Type:	1			
* 108 Wearing Surface Type:	6			
Mr	0			
F	0			
* 225 Expansion Joint Type:	02			
* 242 Deck Drains:	1			
* 243 Parapet Location:	0			
Height:	0.00			
Width:	0.00			
* 238 Curb:	0			
* 239 Handrail:	1	1		
* 240 Median Barrier Rail:	0			
* 241 Bridge Median Height:	0.00			
Width:	0.00			
* 230 Guardrail Loc Dir Rear:	3			
Fwrd:	3			
* Oppo Dir Rear:	0			
Fwrd:	0			
* 244 Approach Slab:	3			
* 224 Retaining Wall:	0			
* 233 Posted Speed Limit:	55			
* 236 Warning Sign:	0			
* 234 Delimitator:	1			
* 235 Hazard Boards:	1			
* 237 Utilities Gas:	00			
W	00			
Ele:	00			
Telephone:	00			
Se:	00			
* 247 Lighting Street:	0			
Navigation:	0			
Aerial:	0			
* 248 County Continuity No.:	18			



## COST ESTIMATE SUMMARY

A. Right-of-Way	\$500,000.00
B. Reimbursable Utilities	\$150,000.00
C. Construction	
1. Major Structures	\$965,000.00
2. Grading and Drainage	\$234,000.00
3. Base and Paving	\$380,300.00
4. Lump Items	\$80,000.00
5. Miscellaneous	\$31,000.00
Subtotal Construction Cost	\$1,690,300.00
E & C (5%)	\$84,515.00
<b>Total Construction Cost</b>	<b>\$1,774,815.00</b>
<b>Grand Total Project Cost</b>	<b>\$2,424,815.00</b>

## DETAILED CONCEPT COST ESTIMATE

<b>A. Right-of-Way</b>	
1. Property: ROW (2.0 acres @ \$25,000/acre)	\$50,000.00
Easement (0 Acres @ \$15,000/acre)	
2. Displacements: Res: 0, Bus: 3, M.H.: 0	\$450,000.00
Subtotal A	\$500,000.00
<b>B. Reimbursable Utilities</b>	
1. Water	\$50,000.00
2. Electric	\$100,000.00
Subtotal B	\$150,000.00
<b>C. Construction</b>	
1. Major Structures: Bridge 250' x 48' @ \$70/sq. ft.	\$840,000.00
Remove Existing Bridge	\$125,000.00
Subtotal C-1	\$965,000.00
2. Grading and Drainage	
a. Earthwork (23,000 cy @ \$8.00/cy)	\$184,000.00
b. Drainage	\$20,000.00
c. Clearing & Grubbing (3 acres @ \$10,000/acre)	\$30,000.00
Subtotal C-2	\$234,000.00
3. Base and Paving	
a. Aggregate Base (3240 tons @ \$25.00/ton)	\$81,000.00
b. Asphalt Paving	
1 1/4" 9.5mm Superpave (330 tons @ \$100/ton)	\$33,000.00
2" 19mm Superpave (530 tons @ \$100/ton)	\$53,000.00
8" 25 mm Superpave (2115 tons @ \$100/ton)	\$211,500.00
Milling (900 sq. yds. @ \$2.00/sq. yd.)	\$1,800.00
Subtotal C-3	\$380,300.00
4. Lump Items	
a. Grassing (5 ac @ \$1000/acre)	\$5,000.00
c. Erosion Control	\$75,000.00
Subtotal C-4	\$80,000.00
5. Miscellaneous	
a. Signing & Marking	\$15,000.00
b. Guardrail (1000 lf @ \$16/lf)	\$16,000.00
Subtotal C-5	\$31,000.00

## Concept Team Meeting Minutes 9/26/06

Name	E-Mail Address	Phone Number	Organization
Yun Tang	<a href="mailto:yun.tang@dot.state.ga.us">yun.tang@dot.state.ga.us</a>	404-463-0290	GDOT
Royce Turner	<a href="mailto:royce.turner@dot.state.ga.us">royce.turner@dot.state.ga.us</a>	770-387-3615	GDOT Utilities
Pat Myers	<a href="mailto:pat.myers@dot.state.ga.us">pat.myers@dot.state.ga.us</a>	706-937-5298	GDOT Area Construction
Kerry Bonner	<a href="mailto:kerry.bonner@dot.state.ga.us">kerry.bonner@dot.state.ga.us</a>	770-387-3614	GDOT District Utilities
Wallace Millwood	-	770-532-3053	GDOT R/W (consultant)
Rob Hembree	-	404-584-3363	AGL
Randy Thompson	<a href="mailto:randyt@cotoosaulity.com">randyt@cotoosaulity.com</a>	706-937-9370	Catoosa Utility
Scott Dodd	-	706-965-1529	Ringgold Telephone
Keith Burton	-	423-478-1934 ext 1037	Charter Communications
Nikki Townsend	<a href="mailto:ntownsend@ngemc.com">ntownsend@ngemc.com</a>	706-259-3394 ext 1271	North Georgia EMC
Jon Jefferies	-	706-232-8961	Georgia Power Co.
William Dial	<a href="mailto:williamd@streetsmarts.us">williamd@streetsmarts.us</a>	770-813-0882	Street Smarts
Andy Anderson	<a href="mailto:andya@streetsmarts.us">andya@streetsmarts.us</a>	770-813-0882	Street Smarts

1. Yun Tang began the meeting with Introductions.
2. Andy Anderson described the project.
3. Changes required for the report:
  - a. Change the description on the surrounding land uses in the Need and Purpose Statement to include the small commercial area north of the proposed bridge.
  - b. Change total number of displacements to 3 commercial and adjust the cost estimate accordingly
  - c. Change design responsibility to GDOT
  - d. Add date of concept team meeting and meeting minutes to the report.
  - e. ROW acquisition time should be changed from 6 months to 1 year due to the displacements.
4. Verify the functional classification of the roadway. (the functional classification is correct according to the latest maps available from GDOT.
5. The district questioned whether a traffic signal would be needed at the intersection located in the project limits. It was determined that the district would conduct a traffic study and coordinate with OCD concerning the signal.