

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 132995-, Hall County **OFFICE** Preconstruction  
BRST-197-1(13)  
SR 52 over Candler Creek Bridge –  
Bridge Replacement **DATE** March 13, 2007

**FROM** *Cyahn J. King*  
Genetha Rice-Singleton, Assistant Director of Preconstruction

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

**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  
Russell McMurry  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE:** P. I. No. 132995-, Hall County **OFFICE:** Preconstruction  
BRST-197-1(13)  
SR 52 over Candler Creek Bridge Replacement **DATE:** March 1, 2007

**FROM:** *Genetha Rice-Singleton*  
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 52 over Candler Creek, 5.4 miles south of Lula, Georgia. The existing bridge, constructed in 1940, is load limited with a sufficiency rating of 46. State Route 52 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. Traffic is projected to be 4,300 VPD and 5,700 VPD in the years 2010 and 2030 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 52 north of its present location, extending a total of 0.46 mile. The proposed new bridge will be 200' x 44' and will be located just north of the existing bridge structure. The relocated SR 52 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)	\$1,792,000	\$1,710,000	LICO	LR
Right-of-Way	\$ 59,000	\$ 50,000	LICO	2007
Utilities*	\$ 120,000	-----		

\*Requested Hall County do utilities 7-19-99; Gainesville no involved utilities; rescission letter sent to Gainesville and Hall County 11-4-05.

David Studstill  
Page 2

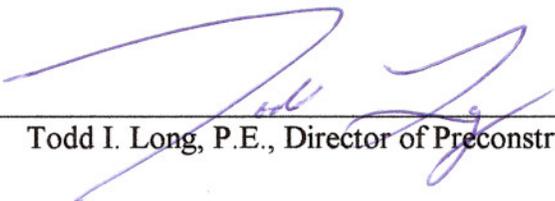
P. I. No. 132995-, Hall  
March 1, 2007

I recommend this project concept be approved.

GRS:JDQ/cj

Attachment

CONCUR



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

APPROVE



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

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** BRST-197-1(13) Hall  
P.I. No. 132995  
S.R. 52 @ Candler Creek

**OFFICE:** Engineering Services

**DATE:** February 26, 2007

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

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

**SUBJECT:** ~~REVISED~~ CONCEPT REPORT

We have reviewed the Concept Report submitted February 26, 2007 and have no comments:

The costs for this project are:

Construction	\$1,628,700
E & C	\$162,870
Reimbursable Utilities	\$120,000
Right of Way	\$58,500

REW

c: Babs Abubakari, Attn.: Yun Tang

### SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> BRST-197-1(13)		<b>County:</b> Hall		<b>PI No.:</b> 132995	
<b>Report Date:</b> January 4, 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-197-1(13)**

County: Hall

Project P.I. Number: 132995

Federal Route Number: N/A

State Route Number: 52

**S.R. 52 Over Candler Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 4, 2007

Yun Tang  
Project Manager

Date: January 4, 2007

M. Babs Abubakari

Office Head

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 Engineer

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

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

Date: 1/7/07

Paul V. Tullis Jr.  
Bridge Design

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

**PROJECT CONCEPT REPORT**

**PROJECT NUMBER: BRST-197-1(13)**

County: Hall

Project P.I. Number: 132995

Federal Route Number: N/A

State Route Number: 52

**S.R. 52 Over Candler Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 4, 2007

Yun Tang  
Project Manager

Date: January 4, 2007

M. Babs Abubakari

Office Head

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: 1/9/07

Angela J. Alexander *Per revisions to need/purpose as noted.*  
State Transportation Planning Administrator

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

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

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

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

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

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

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

\_\_\_\_\_  
District 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-197-1(13)**

County: Hall

Project P.I. Number: 132995

Federal Route Number: N/A

State Route Number: 52

**S.R. 52 Over Candler Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 4, 2007

Yun Tang  
Project Manager

Date: January 4, 2007

M. Babs Abubakari

Office Head

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: 1.25.07

[Signature]  
State Environmental/Location Engineer

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

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

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

\_\_\_\_\_  
District 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-197-1(13)**

County: Hall

Project P.I. Number: 132995

Federal Route Number: N/A

State Route Number: 52

**S.R. 52 Over Candler Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 4, 2007

Yun Tang  
Project Manager

Date: January 4, 2007

M. Babs Abubakari

Office Head

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: 1/26/2007

Q. R. McWhorter  
District 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-197-1(13)**

County: Hall

Project P.I. Number: 132995

Federal Route Number: N/A

State Route Number: 52

**S.R. 52 Over Candler Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 4, 2007

Yun Tang  
Project Manager

Date: January 4, 2007

M. Babs Abubakari

Office Head

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: 2-7-07

James T. Simpson  
State Transportation Financial Management Administrator

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

State Environmental/Location Engineer

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

State Traffic Operations Engineer

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

District 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-197-1(13)**

County: Hall

Project P.I. Number: 132995

Federal Route Number: N/A

State Route Number: 52

**S.R. 52 Over Candler Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 4, 2007

Yun Tang

Project Manager

Date: January 4, 2007

M. Babs Abubakari

Office Head

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 Engineer

Date: 2/26/07

Brian K. Summers REC  
State Project Review Engineer

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

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

## NOTICE OF LOCATION AND DESIGN APPROVAL

Project Name	Project Number	P.I. Number	County
SR52 Over Candler Creek Bridge Replacement	BRST-197-1(13)	132995	Hall

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 13, 2007

### Descriptions of the Proposed Project:

This project is located in Hall County in the 9<sup>th</sup> U.S. Congressional District, in the 1557<sup>th</sup> Georgia Military District of Hall County.

### Descriptions of the Proposed Construction:

The proposed bridge replacement on SR 52 over Candler Creek will have a total length of approximately 2450 linear feet with the existing bridge located near the center of the project. SR 52 is currently signed at 55 mph. The vertical profile of SR 52 currently fails to meet a 55 mph speed design. The existing bridge has a length of 112'. The replacement bridge will have an approximate length of 200'. The existing horizontal alignment will be shifted to the north and the new bridge will be constructed in the new location to avoid the parallel stream that is present on the south side of SR 52.

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:

Brandon Kirby, Area Engineer  
Brandon.kirby@dot.state.ga.us  
2594 Gillesville Highway  
Gainesville, GA 30507  
Telephone: (770) 535-5759

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:

Russel McMurry, District Engineer  
Russel.mcmurry@dot.state.ga.us  
2505 Athens Highway, SE  
Gainesville, GA 30503  
Telephone (770) 532-5526

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-197-1(13) PI No. 132995**  
**Hall County**  
**SR52 Over Candler Creek Bridge Replacement**

**OFFICE**      Consultant Design

*M. Babs Abubakari*

**FROM**      Babs Abubakari, P.E., State Consultant Design Engineer

**DATE**      January 4, 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).

MBA: MAH: YT

**Distribution:**

*Brian Summers -- State Project Review Engineer*  
*Harvey Kepler -- State Environment/ Location Engineer*  
*Carla Holmes -- State Traffic Operations Engineer*  
*Angela Alexander -- State Transportation Planning Administrator*  
*Jamie Simpson -- State Transportation Financial Management Administrator*  
*Russell McMurry -- District 1 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-197-1(13)**

County: Hall

Project P.I. Number: 132995

Federal Route Number: N/A

State Route Number: 52

**S.R. 52 Over Candler Creek Bridge Replacement**

*[see page 3 for location sketch]*

Recommendation for Approval:

Date: January 4, 2007

Yun Tang  
Project Manager

Date: January 4, 2007

M. Babs Abubakari

Office Head

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 Engineer

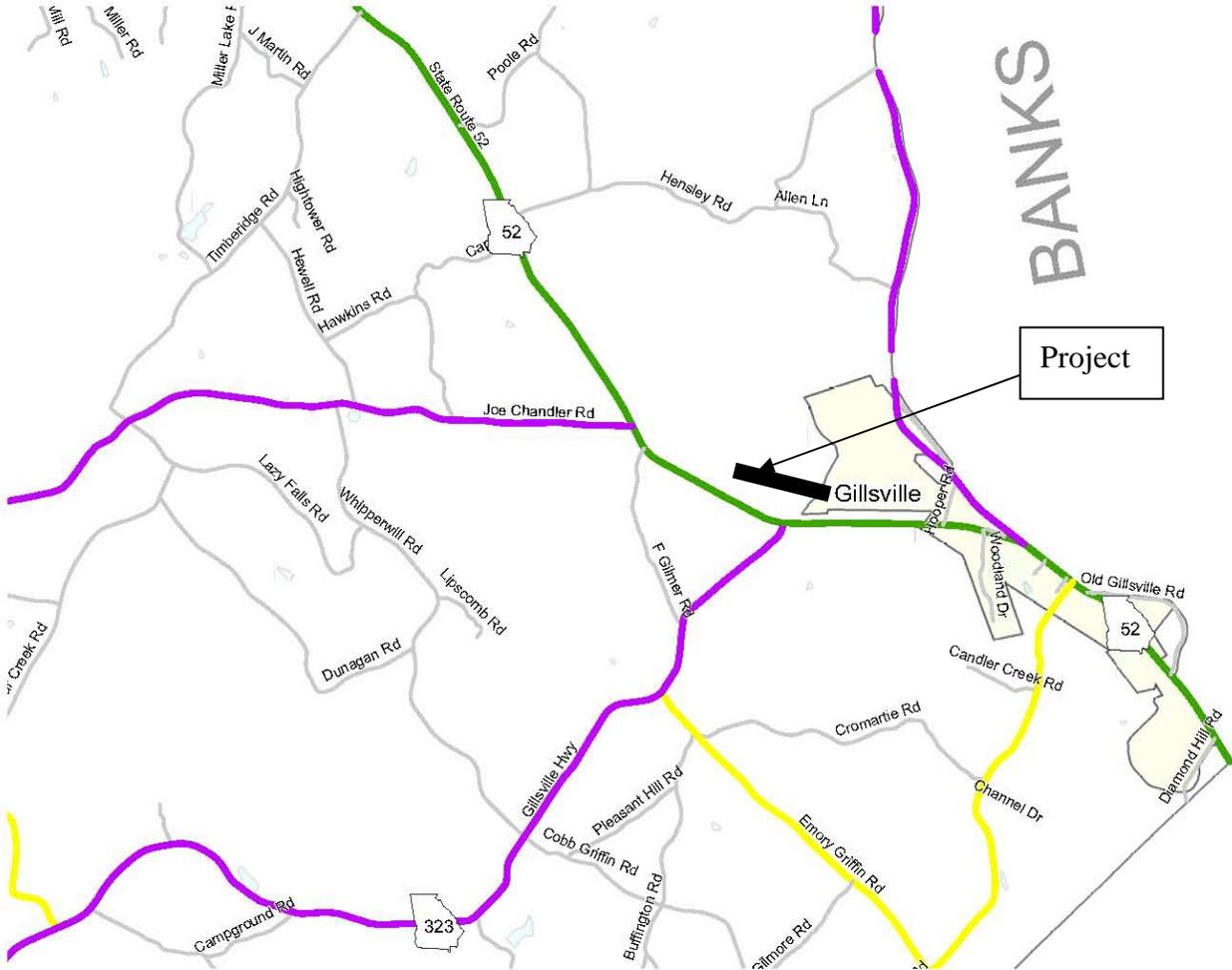
Date: \_\_\_\_\_

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

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

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

# SITE LOCATION MAP



**Need and Purpose:** The existing bridge on SR52 over Candler Creek carried an average of 4070 vehicles per day in the year 2006. This traffic volume represents a Level-of-Service of “A”, which is acceptable.

This two lane bridge was constructed in 1940 and is not on a state or locally designated bike route. The bridge meets GDOT’s policy 2405-1 requirements to be replaced. The policy allows bridges with a sufficiency rating below 50 and on the Highway Bridge Replacement Rehabilitation Program (HBRRP) list to be replaced. The bridge is on the required HBRRP list, and the bridge has a sufficiency rating of 49.32. The bridge is in poor condition and is classified as Structurally Deficient and requires replacement.

For the year 2010, the traffic volume is projected to be 4300 vehicles per day. By the year 2030, traffic volume is projected to grow to 5700 vehicles per day. For both conditions, the Level-of-Service will be “A”, which is acceptable.

Because the bridge is considered structurally deficient, GDOT has a proposed project BRST-197-1(13) to replace the bridge with a new structure. There are no other associated projects in the area and this project has independent utility.

Hall County’s population grew more than 45.9% between 1990 and 2000 to a total population of 139,277. In the year 2000, Hall County had a minority population of 33.1%, compared to a statewide average of 39.8% (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 12.0% of Hall 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 wooded/agricultural/residential land. 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 SR 52 over Candler Creek will have a total length of approximately 2450 linear feet with the existing bridge located near the center of the project. SR 52 is currently signed at 55 mph. The vertical profile of SR 52 currently fails to meet a 55 mph speed design. The existing bridge has a length of 112’. The replacement bridge will have an approximate length of 200’. The existing horizontal alignment will be shifted to the north and the new bridge will be constructed in the new location to avoid the parallel stream that is present on the south side of SR 52.

**Is the project located in a Non-Attainment area?** Yes.

**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:** N/A                      **State Route Number:** 52

**Traffic (AADT – 2000 counts) – 3750 v.p.d.**

**Traffic Projections (AADT) - Base Year 2010 – 4300 v.p.d.**

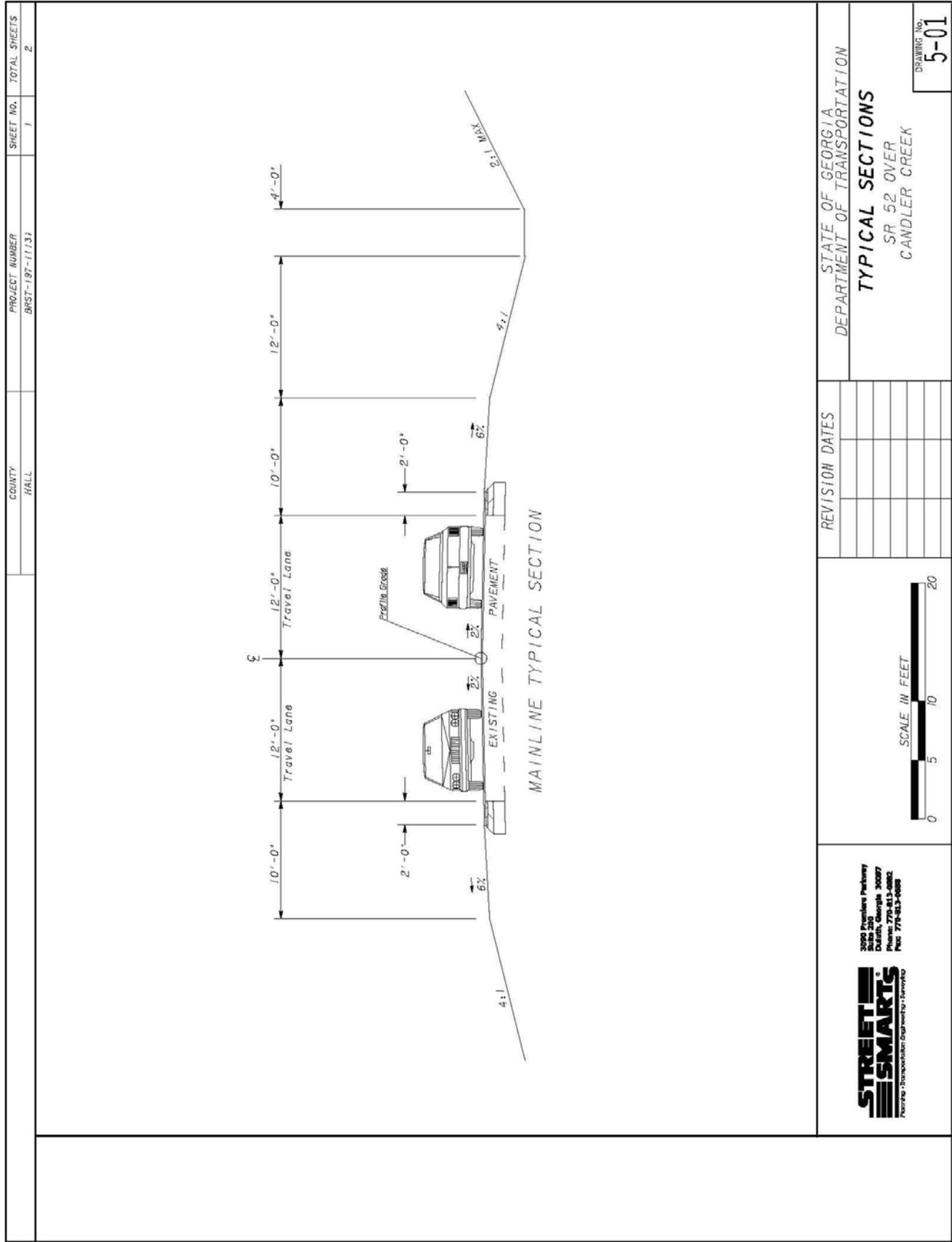
**Traffic Projections (AADT) - Design Year 2030 – 5700 v.p.d.**

**Existing Design Features:**

- SR 52 is a two-lane rural roadway with a 55 mph speed limit. The adjacent land use is mainly forested with some residential 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): 7%
- Maximum Grade (driveway): 20%
- Width of Right-Of-Way: 80 feet
- Major Structures: Bridge, Structure ID 139-0014-0, 112' long, 27.40' deck width, 51.24 Suff. rating
- Major interchanges or intersections along the project: SR52 at SR323
- Existing length of roadway segment: 0.46 miles

**Proposed Design Features:**

- Proposed Typical Sections: One 12-foot through lane in each direction with a 10-foot shoulder, 2-foot paved and 8-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: 7%
- Maximum Grade Allowable: 9%
- Proposed Maximum Grade (Driveway): 25%
- Proposed Minimum Radius: 1,560'
- Minimum Radius Allowable: 960'
- Right of Way
  - Width: Varies 80-200 feet
  - Easements: Temporary ( ) Permanent (X) Utility ( ) Other ( )
  - Type of access Control: Full ( ) Partial ( ) By Permit (X) Other ( )
  - Number of Parcels: 13
  - Number of Displacements:
    - Business: 0
    - Residences: 0
    - Mobile Homes: 0
    - Other: 0
- Structures: Bridge approximately 200 feet long and 46'-10" feet wide



STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	REVISION DATES	TYPICAL SECTIONS SR 52 OVER CANDLER CREEK	DRAWING No. <b>5-01</b>																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																						<p>SCALE IN FEET</p>	
 2000 Peachtree Parkway Suite 200 Duluth, Georgia 30097 Phone: 770-413-0882 Fax: 770-413-0888 www.StreetSmart.com		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS SR 52 OVER CANDLER CREEK																																					

- Major intersections and interchanges: SR52 at SR 323
- Traffic control during construction: Traffic will be maintained on the existing alignment during the construction of new 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, Parallel Stream
- 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:
  - Gainesville Public Utilities (Water)
  - Bellsouth
  - Atlanta Gas and Light
  - Comcast
  - Georgia Power
  - Jackson EMC

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: 10/12/06
- 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: 3 months

Time to complete the purchase of right-of-way: 6 months

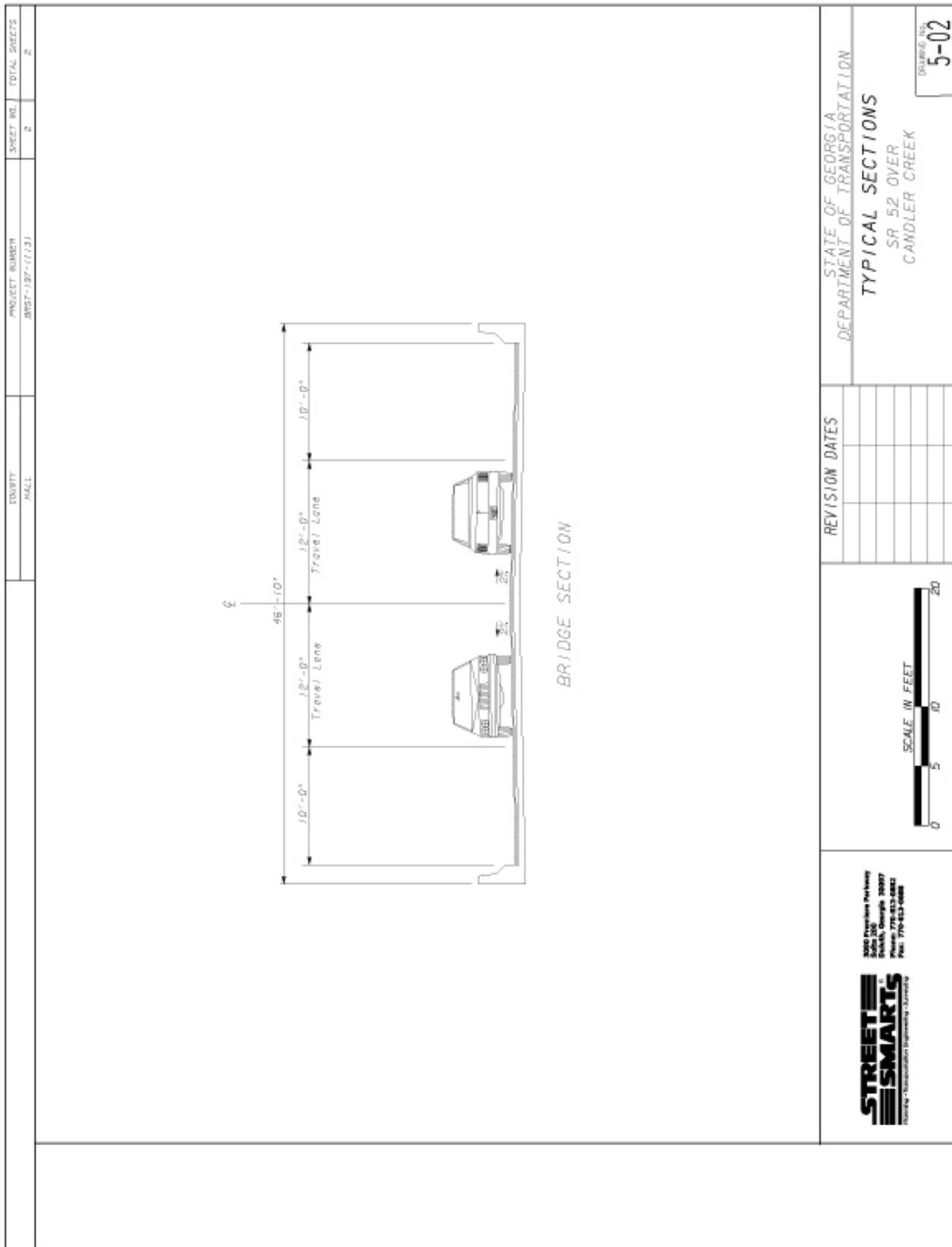
List other major items that will affect the project schedule: None

### 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. Utilize an on-site detour. An on-site detour on this project is prohibitively expensive. The construction of the temporary roadway and temporary bridge would cost as much as the project that is being presented.

### Attachments:

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



## Concept Team Meeting Minutes 10/13/06

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
Shane Dover	<a href="mailto:Shane.dover@dot.state.ga.us">Shane.dover@dot.state.ga.us</a>	770-532-5580	GDOT District 1
Billy Cantrell	<a href="mailto:Bill.cantrell@dot.state.ga.us">Bill.cantrell@dot.state.ga.us</a>	770-532-5530	GDOT District 1
Robert W. Mahoney	<a href="mailto:Robert.mahoney@dot.state.ga.us">Robert.mahoney@dot.state.ga.us</a>	770-532-5520	GDOT District 1 Preconstruction
Robby Oliver	<a href="mailto:Robby.oliver@dot.state.ga.us">Robby.oliver@dot.state.ga.us</a>	770-532-5510	GDOT District 1 Utilities
Brent Cook	<a href="mailto:Brent.cook@dot.state.ga.us">Brent.cook@dot.state.ga.us</a>	770-532-5563	GDOT District 1 Traffic Operations
James S Moore	<a href="mailto:James.moore@dot.state.ga.us">James.moore@dot.state.ga.us</a>	770-532-5528	GDOT Construction
Amber Perkins	<a href="mailto:Amber.perkins@dot.state.ga.us">Amber.perkins@dot.state.ga.us</a>	404-699-3473	GDOT OEL
Robert Ferguson	<a href="mailto:Rferguson@Hallcounty.Org">Rferguson@Hallcounty.Org</a>	770-531-6800	Hall County Public Works
Wallace Millwood	<a href="mailto:Millwood@bellsouth.net">Millwood@bellsouth.net</a>	770-532-3053	GDOT R/W (consultant)
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. Andy Anderson described the project.
2. Change to non-attainment area.
3. Change phone numbers for location and design.
4. Remove inflation from cost estimate.
5. Check proposed bridge width.
6. Check the design of culvert under side road.
7. Check if stream is cold or warm water.



## Department of Transportation State of Georgia

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### INTERDEPARTMENT CORRESPONDENCE

**FILE** BRST-197-1(13), Hall County  
P.I. # 132995

**OFFICE** Environment/Location

**DATE** July 8, 2002

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

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

**SUBJECT** Traffic Assignment for S.R. 52 @ Candler Creek 5.4 Mi S. of Lula in Hall County.

We are furnishing estimated Traffic Assignment for the above project below:

2000 AADT = 3750  
2010 AADT = 4300  
2030 AADT = 5700  
K = 10%  
D = 60%  
T. = 12%  
24 HOUR T = 15%  
S.U. = 6%  
COMB. = 9%

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

HDK/AFE

## COST ESTIMATE SUMMARY

A. Right-of-Way	\$58,500.00
B. Reimbursable Utilities	\$120,000.00
C. Construction	
1. Major Structures	\$772,000.00
2. Grading and Drainage	\$381,000.00
3. Base and Paving	\$350,300.00
4. Lump Items	\$80,000.00
5. Miscellaneous	\$45,400.00
Subtotal Construction Cost	\$1,628,700.00
E & C (5%)	\$81,435.00
<b>Total Construction Cost</b>	<b>\$1,710,135.00</b>
<b>Grand Total Project Cost</b>	<b>\$1,888,635.00</b>

## DETAILED CONCEPT COST ESTIMATE

<b>A. Right-of-Way</b>	
1. Property: ROW (3.9 acres @ \$15,000/acre)	\$58,500.00
Easement (0 Acres @ \$15,000/acre)	
2. Displacements: Res: 0, Bus: 0, M.H.: 0	
Subtotal A	\$58,500.00
<b>B. Reimbursable Utilities</b>	
1. Water	\$40,000.00
2. Electric	\$80,000.00
Subtotal B	\$120,000.00
<b>C. Construction</b>	
1. Major Structures: Bridge 200' x 48' @ \$70/sq. ft.	\$672,000.00
Remove Existing Bridge	\$100,000.00
Subtotal C-1	\$772,000.00
2. Grading and Drainage	
a. Earthwork (42,000 cy @ \$8.00/cy)	\$336,000.00
b. Drainage	\$15,000.00
c. Clearing & Grubbing (3 acres @ \$10,000/acre)	\$30,000.00
Subtotal C-2	\$381,000.00
3. Base and Paving	
a. Aggregate Base (3200 tons @ \$25.00/ton)	\$80,000.00
b. Asphalt Paving	
1 1/4" 9.5mm Superpave (330 tons @ \$100/ton)	\$33,000.00
2" 19mm Superpave (525 tons @ \$100/ton)	\$52,500.00
7" 25 mm Superpave (1830 tons @ \$100/ton)	\$183,000.00
Milling (900 sq. yds. @ \$2.00/sq. yd.)	\$1,800.00
Subtotal C-3	\$350,300.00
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 (1900 lf @ \$16/lf)	\$30,400.00
Subtotal C-5	\$45,400.00