

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

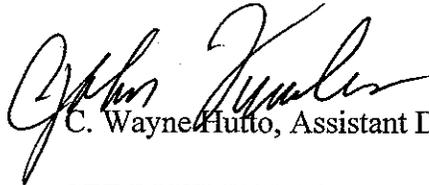
**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRST-139-1 (13) Brantley County  
P.I. No. 533159

**OFFICE** Preconstruction

**DATE** November 27, 2001

**FROM**



C. Wayne Hutto, Assistant Director of Preconstruction

**TO**

SEE DISTRIBUTION

**SUBJECT PROJECT CONCEPT REPORT APPROVAL**

Attached for your file(s) is the approval for subject project.

CWH/cj

Attachment

**DISTRIBUTION:**

Tom Turner  
David Mulling  
Harvey Keepler  
Jerry Hobbs  
Herman Griffin  
Michael Henry  
Phillip Allen  
Marta Rosen  
Paul Liles  
Jimmy Chambers  
Gary Priester

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRST-139-1(13) Brantley County **OFFICE** Preconstruction  
P.I. No. 533159 **DATE** November 13, 2001

**FROM**  C. Wayne Hutto, P.E., Assistant Director of Preconstruction

**TO** Frank L. Danchetz, P.E., Chief Engineer

**SUBJECT PROJECT CONCEPT REPORT**

This project is the replacement of a structurally deficient bridge on SR 23/US 301 over Buffalo Creek, 1.0 mile north of Hickox, Georgia. The existing bridge, constructed in 1940, is load limited with a sufficiency rating of 40. State Route 23/US 301 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 23/US 301 is functionally classified as a rural minor arterial and is a designated school bus route. Traffic is projected to be 2,750 VPD and 4,100 VPD in the years 2006 and 2026 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 23/US 301 west of its present location, extending a total of 1.04 miles. The proposed new bridge will be 510' x 44' and will be located just west of the existing bridge structure. The relocated SR 23/US 301 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:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$2,454,000	\$1,470,000	2003	02-07
Right-of-Way	\$ 12,000	\$ 10,000		
Utilities*	LGPA	LGPA		

\*Brantley County signed LGPA for utilities 7-27-99.

Frank L. Danchetz

Page 2

BRST-139-1(13) Brantley

November 13, 2001

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

CWH:JDQ/cj

Attachment

CONCUR



Thomas L. Turner, P.E., Director of Preconstruction

APPROVE



Frank L. Danchetz, P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

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INTERDEPARTMENTAL CORRESPONDENCE

**FILE:** BRST-139-1(13) Brantley  
P.I. Number 533159-

**OFFICE:** Engineering Services

**DATE:** NOV 16, 2001

**FROM:**  David Mulling, Project Review Engineer

**TO:** Wayne Hutto, Assistant Director of Pre-construction

**SUBJECT:** CONCEPT REPORT

We have reviewed the concept report submitted November 7, 2001 by the letter from James R. Chambers dated November 2, 2001, and have the following comments.

1. The existing bridge sufficiency rating of 40.9 in the Need and Purpose Statement is not consistent with the existing bridge sufficiency rating of 48.5 in the Existing Design Features section of the report.
2. Since cost was used to eliminate Alternate 1, a cost estimate for this alternate needs to be included in the report.
3. Alternate 2 was eliminated due to public inconvenience. The report should include a description of the public inconvenience justifying the elimination the off site detour.

The costs for the project are:

Construction	\$2,023,000
Inflation	\$ 202,000
E&C	\$ 223,000
Reimbursable Utilities	\$ 12,000
Right of Way	\$ 12,000

DTM

c: Ted Cashin – Office of Consultant Design

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> BRST-139-1(13)		<b>County:</b> Brantley		<b>PI No.:</b> 533159-		
<b>Report Date:</b> 11/2/01			<b>Concept By:</b>			
			DOT Office: CONSULTANT DESIGN			
<input checked="" type="checkbox"/> CONCEPT						
			Consultant: Parsons Transportation Group			
<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 <input type="checkbox"/> Building <input type="checkbox"/> Interchange <input type="checkbox"/> Intersection <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>	90%	Report has conflicting bridge sufficiency ratings. Cost estimate needed for Alternate 1 since cost was basis for elimination. Need description of public inconvenience eliminating Alternate 2.				
<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%					

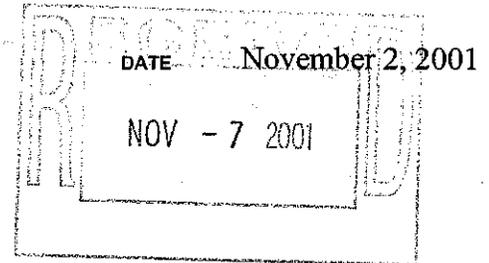
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** **BRST-139-1(13) Brantley County**  
SR 23/US 301 over Buffalo Creek 1 mi N of Hickox  
P.I. No. 533159-

**OFFICE** Atlanta

**FROM** *James R. Chambers, MBA*  
James R. Chambers, State Consultant Design Engineer



**TO** Wayne Hutto, Assistant Director of Preconstruction

**SUBJECT** **PROJECT CONCEPT REPORT**

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

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

If you have any questions or require further information please call Otis Clark at (404)463-6265 or Rodney Givens of Parsons Transportation Group, Inc. at (404) 893-9950.

*Distribution:*

David Mulling, Project Review Engineer  
Harvey Keepler, State Environmental/Location Engineer  
Phillip Allen, State Traffic Safety and Design Engineer  
Marta Rosen, State Transportation Planning Administrator  
Herman Griffin, State Transportation Programming Engineer  
Gary Priester, District Engineer – Jesup  
Paul Liles, State Bridge & Structural Engineer

*MBA*  
JRC:MBA:OC

cc: Parsons Transportation Group, Inc.

October 31, 2001

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
*Office of Consultant Design*

**Project Concept Report**

Project Number: BRST-139-1(13)

County: Brantley

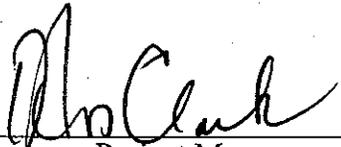
P. I. Number: 533159

Federal Route Number: 301

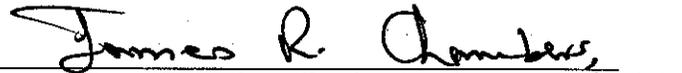
State Route Number: 23

Recommendation for Approval:

DATE 11-2-01

  
Project Manager

DATE 11-2-01

  
State Consultant Design Engineer *MGA*

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Programming Engineer

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer

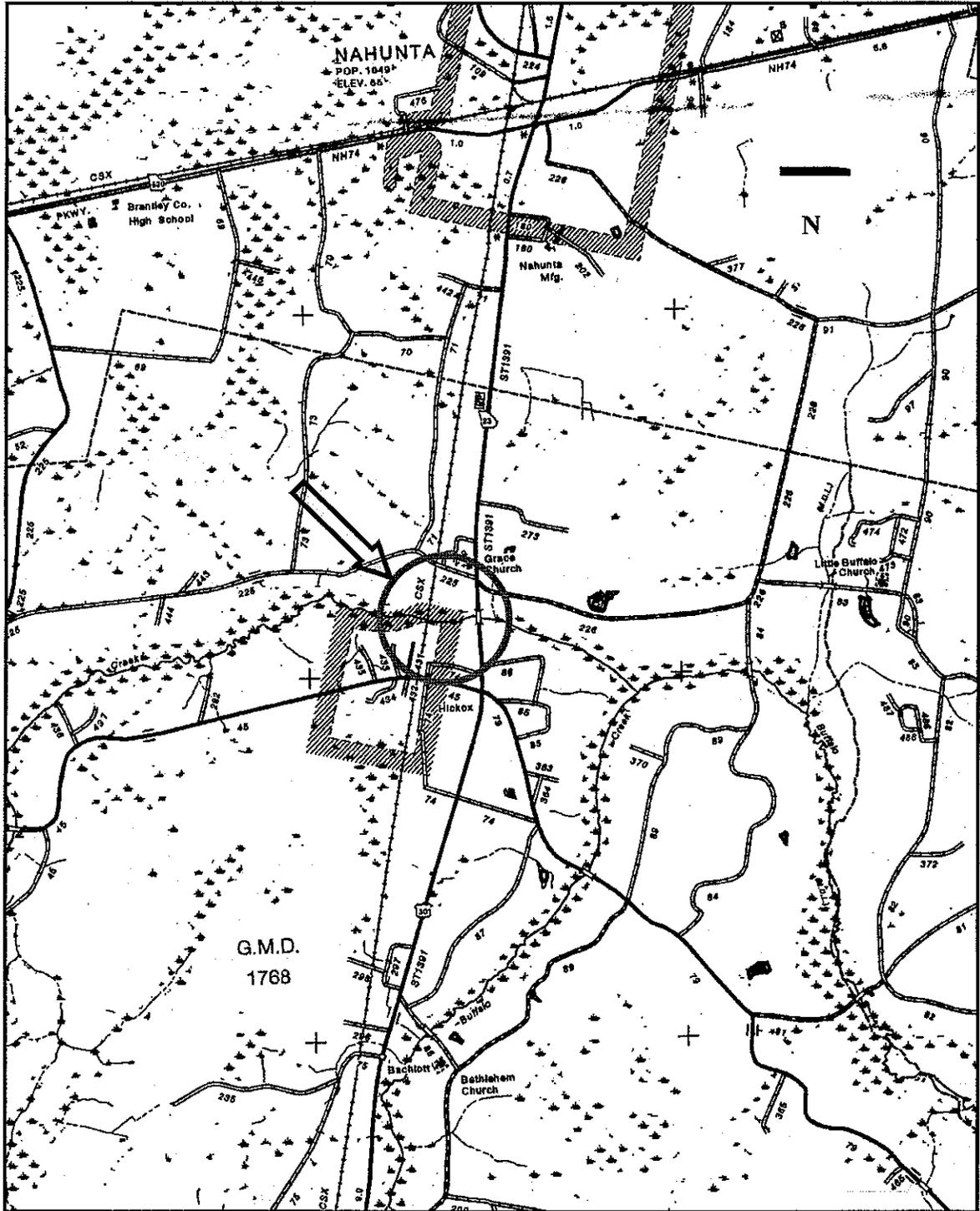
DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge Design Engineer

Project Concept Report Page 2  
Project Number: BRST-139-1(13)  
P.I. Number: 533159  
County: Brantley



Scale: 1 inch = 1 mile

### Location Map

**Project:** BRST-139-1(13) Brantley County PI No.: 533159-  
**Description:** SR 23/US 301 over Buffalo Creek 1 mi N of Hickox

Project Concept Report Page 3  
Project Number: BRST-139-1(13)  
P.I. Number: 533159  
County: Brantley

### **NEED AND PURPOSE:**

Bridge project BRST-139-1(3) will replace the structurally deficient bridge located on State Route (SR) 23 / US 301 over Buffalo Creek. The bridge's sufficiency rating is 40.9. The Office of Bridge Maintenance had determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. This project will replace the existing bridge with a structurally adequate bridge.

This section of SR 23 is functionally classified as a rural minor arterial and is a designated school bus route. It is not on the GDOT Statewide Bicycle and Pedestrian Plan. The posted speed limit along this section of SR 23 is 55 mph. The bridge is located 1.0 mile north of Hickox and was constructed in 1940.

The Average Daily Traffic (AADT) along this section of roadway was 2,300 in 1999, resulting in a Level of Service "B". The construction year (2006) AADT is expected to be 2,750 which is a Level of Service "B". The projected year (2026) AADT for this section of roadway is 4,100 which is a Level of Service "C". 15% percent of the traffic volume on this section of SR 23 is truck traffic.

Replacing this bridge will bring it up to current design standards and in doing so will improve the operation and safety of this roadway.

### **DESCRIPTION OF THE PROPOSED PROJECT:**

The proposed project is approximately 5491 feet (1.04 miles) long, beginning at mile 5.83 and ending at mile 6.87 along SR 23, and is located one mile north of the city of Hickox.

The new bridge will be constructed on new alignment to the west of the existing bridge with a centerline-to-centerline offset of nearly 58 feet and is to be constructed while maintaining traffic on the existing roadway. The termini of the project were determined to provide sufficient length for the proposed road to connect the new structures to the existing tangents, while providing a smooth transition from new to existing pavement.

This concept satisfies the Need and Purpose by replacing the existing structures with 44-foot (gutter to gutter) bridges of adequate structural integrity and capacity for the projected 2026 AADT in accordance to MOG 2450-1, the Structural Evaluation Rating, and the Sufficiency Rating procedure.

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Project Number: BRST-139-1(13)  
P.I. Number: 533159  
County: Brantley

**IS THE PROJECT LOCATED IN A NON-ATTAINMENT AREA? No.**

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

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

**Functional Classification:** \_\_\_\_\_ Rural minor arterial

**U.S. Route Number(s):**  301  **State Route Number(s):**  23

**Traffic (AADT):**  
Current Year: (2006)  2,750  Design Year: (2026)  4,100

**EXISTING DESIGN FEATURES:**

Typical Section: Two 12-foot rural lanes, with 100 feet of right-of-way on both sides of the roadway.

Posted Speed  55  mph Maximum degree of curvature:  0° 00'

Maximum grade Mainline:  1.22  %

Maximum grade Crossroads:  N/A  %

Maximum grade Driveways:  N/A  %

Major Structures: The existing bridge consists of eighteen 27-foot concrete I-beam spans.

S. RTG:  48.5  LENGTH:  486 feet  WIDTH:  23.7feet

**MAJOR INTERCHANGES OR INTERSECTIONS:** Buffalo Creek intersects the bridge structure itself. SR 23/US 301 intersects County Roads 45, 74, 79, and 86 within 1400 feet south of the beginning of the bridge and County Roads 225 and 226 approximately 800 feet north of the end of the existing bridge.

**MILE POINT REFERENCE:**

BEGIN  5.83  END  6.87

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Project Concept Report Page 5  
Project Number: BRST-139-1(13)  
P.I. Number: 533159  
County: Brantley

**PROPOSED DESIGN FEATURES:**

PROPOSED TYPICAL SECTION(S): The proposed roadway will consist of two 12-foot travel lanes with 10-foot wide shoulders.(2-ft paved and 8-ft unpaved) See typical section attached.

Proposed Design Speed Mainline: 55 mph

Proposed Maximum grade Mainline: 1.21 %    Maximum grade allowable: 4.5 %  
Proposed Maximum grade Side Street: N/A %    Maximum grade allowable: N/A %  
Proposed Maximum grade Driveway: N/A %  
Proposed Maximum degree of curve: 1° 55'    Maximum degree allowable: 6° 00'

**RIGHT OF WAY**

Width varies between 100 feet and 145 feet

Easements: Temporary ( ), Permanent (X), Utility ( ), Other ( )

Type of access control: Full ( ), Partial ( ), By Permit ( X ), Other ( )

Number of Parcels: 4.0    Number of displacements:

Business: None

Residences: None

Mobile homes: None

Other: None

STRUCTURES: The proposed bridge will be 44-feet (gutter to gutter) wide, consisting of two 12-foot travel lanes and 10-foot shoulders. The bridge is expected to be approximately 510 feet long.

MAJOR INTERSECTIONS AND INTERCHANGES: The project on SR 23/US 301 intersects County Roads 45, 74, 79 and 86 within 1400 feet south of the beginning of the bridge and County Road 225 and 226 approximately 800 feet north of the end of the existing bridge.

TRAFFIC CONTROL DURING CONSTRUCTION: Two-way traffic will be maintained on the existing bridge while the proposed bridge is constructed. Once the proposed structure and approaches are complete, the old bridge will be demolished.

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Project Number: BRST-139-1(13)  
P.I. Number: 533159  
County: Brantley

Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	( )	( )	(X)
ROADWAY WIDTH:	( )	( )	(X)
SHOULDER WIDTH:	( )	( )	(X)
VERTICAL GRADES:	( )	( )	(X)
CROSS SLOPES:	( )	( )	(X)
STOPPING SIGHT DISTANCE:	( )	( )	(X)
SUPERELEVATION RATES:	( )	( )	(X)
HORIZONTAL CLEARANCE:	( )	( )	(X)
SPEED DESIGN:	( )	( )	(X)
VERTICAL CLEARANCE:	( )	( )	(X)
BRIDGE WIDTH:	( )	( )	(X)
BRIDGE STRUCTURAL CAPACITY:	( )	( )	(X)

Design Variances: None

ENVIRONMENTAL CONCERNS: Environmental study in process.

**Permits**

Corp of Engineers Section 404 Permit,  
Federal Emergency Management Agency (FEMA),

Probable locations of USTS: None identified.

Probable location of hazardous waste: None identified.

Utility involvements: *(Communications, Power, Gas, Petroleum, ITS, Railroads, etc.)*

Overhead power lines and buried fiber-optic telephone cable located on the east side of the bridge. Other utilities to be determined.

Local government commitments: Brantley County signed for the utilities on 7-27-99

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Department Of Transportation

Project Concept Report Page 7  
Project Number: BRST-139-1(13)  
P.I. Number: 533159  
County: Brantley

**Project responsibilities:**

Design, Parsons Transportation Group  
Right of Way Acquisition, GDOT  
Relocation of Utilities, LGPA (Brantley County)  
Letting of contract, GDOT  
Supervision of construction, GDOT  
Providing material pits, Contractor  
Providing detours, Parsons Transportation Group

**COORDINATION**

CONCEPT TEAM MEETING DATE: September 10, 2001

CONFORMS TO TIP/STIP? Yes

MEETS LOGICAL TERMINI REQUIREMENTS? Yes

P.A.R. MEETING: None

LEVEL OF ENVIRONMENTAL ANALYSIS: CE Anticipated

PUBLIC INVOLVEMENT: None

TIME SAVINGS PROCEDURES APPROPRIATE: Yes

OTHER PROJECTS IN THE AREA: None

RAILROADS: None

Project Concept Report Page 8  
Project Number: BRST-139-1(13)  
P.I. Number: 533159  
County: Brantley

## SCHEDULING

Time to complete the environmental process:	9 Months
Time to complete preliminary construction plans:	3 Months
Time to complete right of way plans:	3 Months
Time to complete the Section 404 Permit:	3 Months
Time to complete final construction plans:	3 Months
Time to complete to purchase right of way:	9 Months

## OTHER ALTERNATES CONSIDERED:

- (1) Build proposed bridge on same alignment as existing bridge by using an on-site temporary detour to maintain existing traffic
- (2) Build proposed bridge on same alignment as the existing bridge by using an off site detour route to maintain existing traffic.
- (3) No Build.

**COMMENTS:** Alternate (1) was eliminated due to higher costs resulting from construction of the temporary bridge. Alternate (2) was eliminated due to public inconvenience. Alternate (3) was eliminated due to long-term maintenance cost of structurally deficient bridge.

November 2, 2001

State of Georgia  
Department Of Transportation

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Project Number: BRST-139-1(13)  
P.I. Number: 533159  
County: Brantley

**ATTACHMENTS:**

1. Cost Estimates:
  - a. Construction including E&C,
  - b. Right of Way, and
  - c. Utilities.
2. Cover Sheet,
3. Typical Sections,
4. Bridge Inventory,
5. Notice of Location and Design Approval,
6. Meeting Minutes.
7. LGPA-Brantley County, signed 07/27/1999

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Project Number: BRST-139-1(13)  
P.I. Number: 533159  
County: Brantley

# Attachment 1

## PRELIMINARY COST ESTIMATE

PROJECT NUMBER: BRST-139-1(13)

COUNTY: Brantley

DATE: October 22, 2001

ESTIMATED LETTING DATE:

PREPARED BY: Parsons Transportation Group

PROJECT LENG 1.04miles

PROGRAMMING PROCESS

CONCEPT DEVELOPMENT

DURING PROJECT D

PROJECT COST	
<b>A. RIGHT-OF-WAY:</b>	
1. PROPERTY (LAND & EASEMENT) 5.78 Acres @ 2,000 / Non-commercial acre	\$ 11,560
2. DISPLACEMENTS: RES:0; BUS:0; M.H.:0	\$ -
3. OTHER COST (ADM./COST, INFLATION)	\$ -
SUBTOTAL A:	\$ 11,560
<b>B. REIMBURSABLE UTILITIES:</b>	
1. RAILROAD	
2. TRANSMISSION LINES	\$ 12,000
3. SERVICES	
SUBTOTAL B:	\$ 12,000
<b>C. CONSTRUCTION</b>	
<b>1. MAJOR STRUCTURES</b>	
a. BRIDGE- SR 23/ US 301 Bridge over Buffalo Creek (510' L X 44' W) @ \$53 / SF	\$ 1,189,320
b. BRIDGE - SR 23/US 301 Existing Bridge Demolition (486' L X 24' W) @ \$10 / SF	\$ 116,640
SUBTOTAL C-1:	\$ 1,305,960
<b>2. GRADING AND DRAINAGE:</b>	
a. EARTHWORK-- 67605 CuYds--S.R. 23 @ \$2.44	\$ 164,956
<b>b. DRAINAGE:</b>	
1) 40'-18" RCP & 2 Drop Inlets	\$ 4,144
	\$ -
	\$ -
SUBTOTAL C-2:	\$ 169,100

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Project Number: BRST-139-1(13)  
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County: Brantley

**Attachment 1 (cont'd)**

3. BASE AND PAVING:		
a. ASPHALT PAVING: 1.5" Asph. Surface- 1405.6 TN @ \$36.06/TN	\$	50,687
4" Asphalt Surface--3392.4 TN--@\$38.22/T	\$	129,658
Tack Coat-- 1080 gallons @ \$0.91	\$	983
Gross Aggr Base: 6"-- 15420 SY--@ \$7.00/SY	\$	107,940
SUBTOTAL C-3.b		\$ 289,268
b. Reinforce Concrete Approach Slab 310 SY@ \$116.83/SY	\$	36,217
c. PERMANENT GRASSING--4.8 Ac @ \$41.53/TN (30 LB/Ac)	\$	5,980
d. AG. LIME--4.8 Ac @ \$53.92/TN (3.0 TN/Ac)	\$	777
e. Fertilizer mixed grade--4.8 Ac @ \$235.39/TN (0.9TN/Ac)	\$	1,017
f. Fertilizer Nitrogen Content-- 4.8 Ac @ \$1.85/LB (50 LB/Ac)	\$	444
SUBTOTAL C-3:		\$ 333,703
4. LUMP ITEMS:		
a. EROSION CONTROL	\$	38,878
b. TRAFFIC CONTROL	\$	150,000
SUBTOTAL C-4:		\$ 188,878
5. MISCELLANEOUS:		
a. SIGNING - MARKING	\$	9,600
b. GUARDRAIL - Install new guardrail 325 LF @ \$49.51/LF	\$	16,091
SUBTOTAL C-5:		\$ 25,691
6. SPECIAL FEATURES-		\$ -
SUBTOTAL C-6:		
SUBTOTAL C:		\$ 1,956,240

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 Project Number: BRST-139-1(13)  
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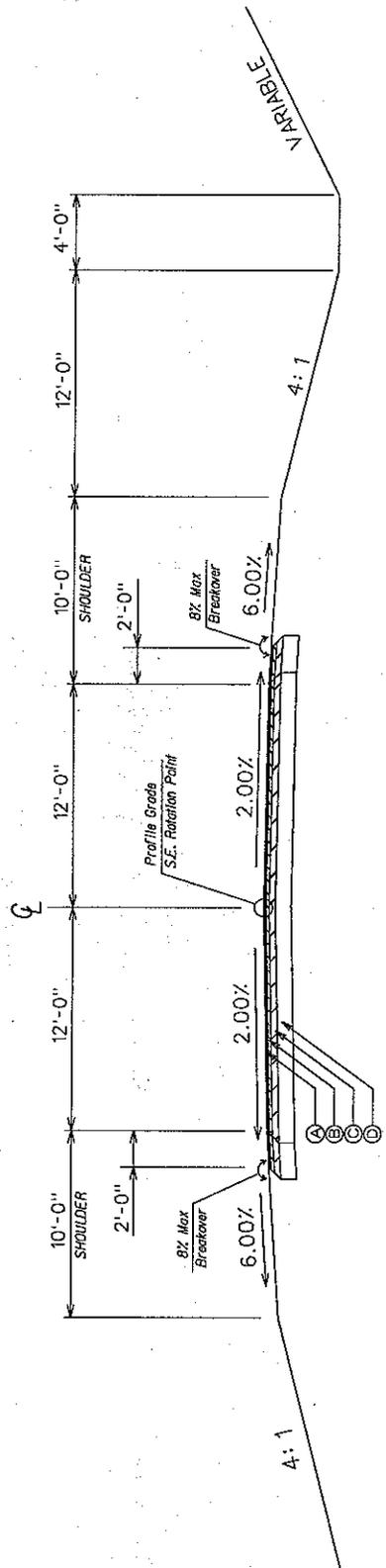
## Attachment 1 (cont'd)

ESTIMATE SUMMARY	
A. RIGHT-OF-WAY	\$ 11,560
B. REIMBURSABLE UTILITIES	\$ 12,000
C. CONSTRUCTION	
1. MAJOR STRUCTURES	\$ 1,305,960
2. GRADING AND DRAINAGE:	\$ 169,100
3. BASE AND PAVING:	\$ 333,703
4. LUMP ITEMS:	\$ 188,878
5. MISCELLANEOUS:	\$ 25,691
6. SPECIAL FEATURES	\$ -
SUBTOTAL CONSTRUCTION	\$ 2,023,332
INFLATION (5% PER YEAR)	\$ 207,392
NUMBER OF YEARS	2.0
E. & C. (10%)	\$ 223,072
TOTAL CONSTRUCTION COST	\$ 2,453,796
<b>GRAND TOTAL PROJECT COST</b>	<b>\$ 2,477,356</b>

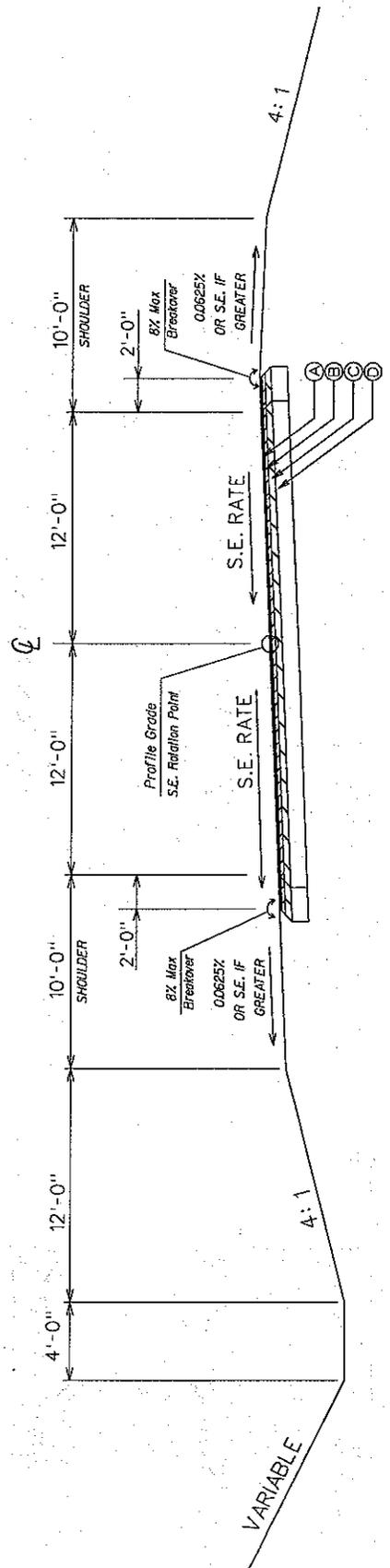


PROJECT NUMBER: BRST-139-1(13)  
 P.I. NUMBER: 533159  
 COUNTY: BRANTLEY

# TYPICAL SECTIONS



PROPOSED SR 23 /US 301 TANGENT SECTION



PROPOSED SR 23 /US 301 SUPERELEVATED SECTION

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 025-0005-0

Brantley County

SUFF. RATING: 40.9

## Location & Geography

\* Structure I.D. No.: 025-0005-0  
 \* 200 Bridge Information: 06  
 \* 6A Feature Int.: BUFFALO CREEK  
 \* 6B Critical Bridge: 0  
 \* 7A Route Number Carried: SR00023  
 \* 7B Facility Carried: US 301  
 \* 9 Location: 2 M I S OF HORTENSE  
 2 DOT District: 5  
 207 Year Photo: 1997

\* 104 Highway System: 0  
 \* 26 Functional Classification: 06  
 \* 204 Federal Route Type: F No: 139-1  
 \* 110 Truck Route: 1  
 206 School Bus Route: 1  
 217 Benchmark Elevation: 49.00  
 218 Datum: 2  
 \* 19 Bypass Length: 15  
 \* 20 Toll: 3  
 \* 21 Maintenance: 01  
 \* 22 Owner: 01  
 \* 31 Design Load: 2  
 37 Historical Significance: 5  
 205 Congressional District: 01  
 \* 27 Year Constructed: 1940  
 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: 2

\* 4 Place Code: 00000  
 \* 5 Inventory Route (O/U): 1  
 Type: 2  
 Designator: 1  
 Number: 00301  
 Direction: 0  
 \* 16 Latitude: 31-09.3  
 \* 17 Longitude: 81 -59.4

\* 233 Posted Speed Limit: 55  
 236 Warning Sign: 1  
 234 Delineator: 1  
 235 Hazard Boards: 1  
 237 Utilities Gas: 00  
 Water: 00  
 Electric: 00  
 Telephone: 00  
 Sewer: 00  
 247 Lighting Street: 0  
 Navigation: 0  
 Aerial: 0  
 \* 248 County Continuity No: 00

\* 91 Inspection Frequency: 24 Date: 10/03/1999  
 92A Fract Crit Insp Freq: 0 00 Date: 0000  
 92B Underwater Insp Freq: 0 00 Date: 0000  
 92C Other Spc. Insp Freq: 0 00 Date: 0000  
 \* 4 Place Code: 00000  
 \* 5 Inventory Route (O/U): 1  
 Type: 2  
 Designator: 1  
 Number: 00301  
 Direction: 0

\* 230 Guardrail Loc Dir Rear: 3  
 Fwrd: 3  
 Oppo Dir Rear: 0  
 Fwrd: 0  
 244 Approach Slab: 0  
 224 Retaining Wall: 0  
 233 Posted Speed Limit: 55  
 236 Warning Sign: 1  
 234 Delineator: 1  
 235 Hazard Boards: 1  
 237 Utilities Gas: 00  
 Water: 00  
 Electric: 00  
 Telephone: 00  
 Sewer: 00  
 247 Lighting Street: 0  
 Navigation: 0  
 Aerial: 0  
 \* 248 County Continuity No: 00

\* 42 Type Service On: 1  
 Under: 5  
 214 Movable Bridge: 00  
 203 Type Bridge: E-N-M-O  
 259 Pile Encasement: 1  
 \* 43 Structure Type Main: 4 02  
 45 No. Spans Main: 018  
 44 Structure Type Appr: 0 0  
 46 No. Spans Appr: 0000  
 226 Bridge Curve Horz: 0 Vert: 0  
 111 Pier Protection: 0  
 107 Deck Structure Type: 1

\* 108 Wearing Surface Type: 6  
 Membrane: 8  
 Protection: 8

\* 100 Defense Highway: 0  
 \* 101 Parallel Structure: N  
 \* 102 Direction of Traffic: 2  
 264 Road Inventory Mile Post: 006.45  
 \* 208 Inspection Area: 05 Initials: JEC  
 \* Location I.D. No: 025-00023D-006.46N  
 \* XReferen I.D. No: 000-000000-000.000

\* 233 Posted Speed Limit: 55  
 236 Warning Sign: 1  
 234 Delineator: 1  
 235 Hazard Boards: 1  
 237 Utilities Gas: 00  
 Water: 00  
 Electric: 00  
 Telephone: 00  
 Sewer: 00  
 247 Lighting Street: 0  
 Navigation: 0  
 Aerial: 0  
 \* 248 County Continuity No: 00

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 025-0005-0

Brantley County

SUFF. RATING: 40.9

## Programming Data

201 Project No: SF-1069-C  
 202 Plans Available: 0  
 249 Prop. Proj No: BRST-139-1 (13)  
 250 Approval Status: 0000  
 251 P.I. No: 533159  
 252 Contract Date: 02/01/2005  
 260 Seismic No: 00000  
 75 Type Work: 34 1  
 94 Bridge Imp. Cost: \$ 573  
 95 Roadway Imp. Cost: \$ 72  
 96 Total Imp. Cost: \$ 870  
 76 Imp. Length: 000697  
 97 Imp. Year: 1990  
 114 Future ADT: 002700 Year: 2018

## Measurements

\* 29 ADT: 001800 Year: 1998  
 109 % Trucks: 19  
 \* 28 Lanes On: 02 Under: 00  
 210 No. Tracks On: 00 Under: 00  
 \* 48 Max. Span Length: 0027  
 \* 49 Structure Length: 486  
 51 Br. Rdwy. Width: 23.7  
 52 Deck Width: 28.0  
 \* 47 Tot. Horz. Cl: 23.7  
 50 Curb/Sdewlk Width: 1.0/1.0  
 32 Approach Rdwy Width: 028  
 \* 229 Shlder Width:  
 Rear Lt: 2.0 Type: 2 Rt: 2.0  
 Fwrd Lt: 2.0 Type: 2 Rt: 2.0  
 Pmnt Width:  
 Rear: 24.0 Type: 2  
 Fwrd: 24.0 Type: 2  
 Intersection Rear: 0 Fwrd: 0  
 36 Safety Features Br. Rail: 2  
 Transition: 2  
 App. G. Rail: 1  
 App. Rail End: 2  
 53 Minimum Cl. Over: 99'99"  
 Under: N 00'00"  
 \* 228 Min. Vert. Cl  
 Act. Odm. Dir: 99'99"  
 Oppo. Dir: 99'99"  
 Posted Odm. Dir: 00'00"  
 Oppo. Dir: 00'00"  
 55 Lateral Undercl. Rt: N 99.9  
 56 Lateral Undercl. Lt: 0.0  
 \* 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: 8.0  
 Deck Thick Approach: 0.0  
 246 Overlay Thickness: 1.5  
 211 Tons Structural Steel: 53.0  
 212 Year Last Painted: Sup: 1995 Sub: 1995

## Ratings

66 Inventory Type: 2 Rating: 13  
 64 Operating Type: 2 Rating: 29  
 231 Calculated Loads  
 H-Modified: 14 1  
 HS-Modified: 22 1  
 Type 3: 18 1  
 Type 3s2: 33 1  
 Timber: 25 1  
 Piggyback: 40 0  
 261 H Inventory Rating: 10  
 262 H Operating Rating: 15  
 67 Structural Evaluation: 2  
 58 Deck Condition: 7  
 59 Superstructure Condition: 7  
 \* 227 Collision Damage: 0  
 60A Substructure Condition: 7  
 60B Scour Condition: 7  
 60C Underwater Condition: N  
 71 Waterway Adequacy: 8  
 61 Channel Protection Cond: 7  
 68 Deck Geometry: 3  
 69 UnderClr. Horz/Vert: N  
 72 Appr. Alignment: 8  
 62 Culvert: N

## Posting Data

70 Bridge Posting Required: 3  
 41 Struct Open, Posted, Cl: P  
 \* 103 Temporary Structure: T  
 232 Posted Loads H-Modified: 15  
 HS-Modified: 00  
 Type 3: 27  
 Type 3S2: 00  
 Timber: 37  
 Piggyback: 00  
 253 Notification Date: 0000  
 253 Fed Notify Date: 0000 2

## Hydraulic Data

215 Waterway Data  
 Highwater Elev: 0000.0 Year: 0000  
 Flood Elev: 0000.0 Freq: 00  
 Avg. Streambed Elev: 0029.4  
 Drainage Area: 00000  
 Area of Opening: 000000  
 113 Scour Critical: 6  
 216 Water Depth: 01.2 Br Height: 15.8  
 222 Slope Protection: 0  
 221 Spur Dikes Rear: 0 Fwrd: 0  
 219 Fender System: 0  
 220 Dolphin: 0  
 223 Culvert Cover: 000  
 Type: 0  
 No Barrels: 0  
 Width: 0.0  
 Height: 0.0  
 Length: 0  
 Apron: 0  
 \* 265 U/W Insp. Area: 0 Diver: ZZZ  
 \* Location I.D. No: 025-00023D-006.46N  
 \* XReferen I.D. No: 000-000000-000.000

October 31, 2001

State of Georgia  
Department Of Transportation

**NOTICE OF LOCATION AND DESIGN APPROVAL**

**Project No. BRST-139-1(13)**

**P.I. No. 533159**

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.

This project consists of improvements of S.R. 23/ U.S. 301 over Buffalo Creek, located in Brantley, 15th Land District, Land Lots 154 and 187. The improvement project includes replacing the existing two-lane bridge over Buffalo.

Date of Location Approval: *NOVEMBER 27, 2001*

Drawings and/or maps, and/or plats of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation. Any interested party may obtain a copy of the drawings or maps or plats by writing to the Georgia Department of Transportation, No. 2 Capital Square, Atlanta, Georgia 30334 and paying a nominal cost thereof.

Any written request in reference to this Notice SHOULD include the PROJECT AND P.I. NUMBERS AS NOTED AT THE TOP OF THIS NOTICE AND may be referenced to:

James R. Chambers  
Georgia Department of Transportation  
No. 2 Capital Square  
Atlanta, Georgia 30334

## MEETING MINUTES

Meeting Date: September 10, 2001

Attendees: Tony Collins, GADOT	Romeo Reyes, Satilla R.E.M.C.
Jerome Sheffield, GADOT	Howell Clements, GADOT
Woody Rehberg, GADOT	J.W.Swain, Alma Telephone
Harry Riggins, Brantley County	Gary Sands, GADOT
J.D.Driffin, Public Works	Donnie Boyd, GADOT
Danny Giddens, Satilla R.E.M.C.	Aykut Urgan, Parsons Trans. Group
Stephen Thomas, GADOT-Utilities	Hayden Gellineau, Parsons Trans. Group
Cynthia Phillips, GADOT	

**Projects : BRST-139-1(13) Brantley County P.I.No.533159  
SR23/US301 over Buffalo Creek 1 mi N of Hickox**

On September 10, 2001, at 2:00 p.m., a meeting for the above referenced project was held in Georgia Department of Transportation District 5, Jesup Office. The following items were discussed during the meeting;

1. Estimated schedule for this project has been identified by GADOT representatives as follows;
  - Approval of R/W Plans..... 2002
  - Beginning of Construction..... 2003
  - Estimated Construction Period..... Max. 18 months
2. GADOT will fund 100% of the preliminary engineering, right-of-way, and construction cost.
3. GADOT representatives stated that no on-site detour to be encouraged due to high costs and risky construction process.
4. Conceptual Layout prepared by PTG has been accepted with the following comments;
  - The new bridge will be located on the west of existing bridge as proposed by PTG, however the proposed roadway centerline will be shifted towards west to maintain minimum 20' clear distance between existing and proposed bridge structures.
  - GADOT instructed PTG to extend the project limits approximately 1000'-1200' on both ends for a smoother connection to the existing roadway. PTG stated that the reverse curves maintaining the diversion from existing centerline to the proposed roadway centerline have been designed to provide a much flatter transition than AASHTO requirements. Stretching out the tapers 1000'-1200' on both sides will definitely provide a more comfortable drive to the public but will increase the cost of the project and will require additional survey.

5. Typical section should be paved full depth all the way out to the face of the guardrail, and the binder should be pulled to the shoulder brake point.
6. In order to reduce erosion on shoulder slopes, a 5-inch asphalt curb will be placed at the back of guardrail.
7. GADOT instructed PTG to put a general note on the plans saying "All construction limits are 10' outside the fill and cut lines showed on the plans." Accordingly, all construction limits outside the existing right-of-way line will be treated as required right-of-way.
8. The existing bridge to be demolished and the debris to be removed by the contractor. The existing asphalt layers will also be removed up to subgrade level, however the existing roadway embankment will stay as it is.
9. PTG will take into consideration the necessity of additional R/W for relocating the existing underground copper cables towards west.
10. Representatives from Brantley County have confirmed that the existing underground fiber-optic telephone cable on the east of existing bridge have been buried 48" deep. They will allow locating the roadway fill on the existing cable if necessary, however they will not allow any excavation closer than 2'-3' to the cable.



ORIGINAL

# Department of Transportation

State of Georgia

#2 Capitol Square, S.W.

Atlanta, Georgia 30334-1002

July 1, 1999

WAYNE SHACKELFORD  
COMMISSIONER  
(404)656-5206

FRANK L. DANCHETZ  
CHIEF ENGINEER  
(404)656-5277

STEVEN L. PARKS  
DEPUTY COMMISSIONER  
(404)656-5212

BILLY F. SHARP  
TREASURER  
(404)656-5224

## LOCAL GOVERNMENT PROJECT AGREEMENT

*In consideration of the proposed improvements, BRANTLEY County agrees to provide or perform the following at no cost to the Georgia D.O.T. for project BRST-139-1(13) BRANTLEY CO., PI # 533159--:*

### BRIDGES

#### SR 23/US 301 @ BUFFALO CREEK 2 MILES OF HORTENSE

Provide all rights-of-way and/or easements needed for the construction of the project and remove existing structures or obstructions within the rights-of-way.

Make all utility relocations, adjustments or betterments of publicly owned utilities that are in conflict with construction of this project. Reimburse Georgia D.O.T. for any damages paid to the contractor for delay of construction caused by a delay in relocating the publicly owned utilities.

Relocate or adjust all privately owned utilities to clear construction of this project, including adjustments at railroad crossings if required.

Furnish detours, local borrow & waste pits as needed.

We support this project but choose not to commit any funding, realizing this may delay the project until additional funding can be found.

This 27th day of July, 1999

APPROVED Harry Riggins - Chairman

City/County Official



October 31, 2001

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Consultant Design

Project Concept Report

Project Number: BRST-139-1(13)

County: Brantley

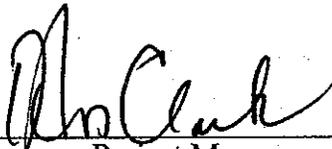
P. I. Number: 533159

Federal Route Number: 301

State Route Number: 23

Recommendation for Approval:

DATE 11-2-01

  
Project Manager

DATE 11-2-01

  
State Consultant Design Engineer *mga*

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

DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Programming Engineer

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

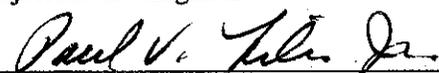
DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE 11/7/01

  
State Bridge Design Engineer

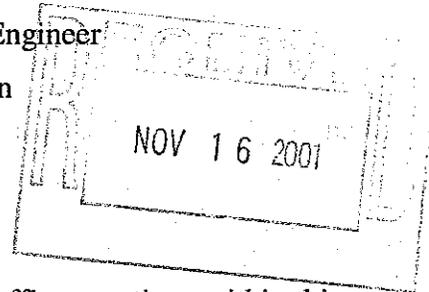
Department of Transportation  
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRST-139-1(13) / Brantley County  
P.I. No. 533159

Office: Traffic Safety & Design  
Atlanta, Georgia  
Date: November 14, 2001

From: <sup>PMA/sg</sup> Phillip M. Allen, State Traffic Safety and Design Engineer  
To: Wayne Hutto, Assistant Director of Preconstruction  
Subject: Project Concept Report Review



We believe this concept will improve safety and traffic operations within this area, therefore find this report satisfactory for approval.

PMA/sz

Attachment (signature page)

Cc: Harvey Keepler, State Environment/Location Engineer  
Jimmy Chambers, State Consultant Design Engineer  
Attention: Ted Cashin  
David Mulling, State Review Engineer, w/ attachment  
Marta Rosen, State Transportation Planning Administrator  
Paul Liles, State Bridge & Structural Design Engineer  
Chuck Hasty, TMC  
General Files  
Office Files

October 31, 2001

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Consultant Design

Project Concept Report

Project Number: BRST-139-1(13)

County: Brantley

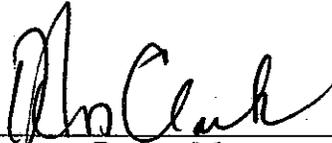
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Federal Route Number: 301

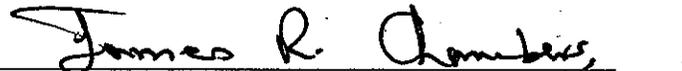
State Route Number: 23

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Project Manager

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State Transportation Planning Administrator

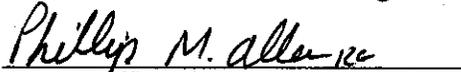
DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Programming Engineer

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State Environmental/Location Engineer

DATE 11/15/01

  
State Traffic Safety and Design Engineer

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District Engineer

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Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge Design Engineer

October 31, 2001

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Consultant Design

Project Concept Report

Project Number: BRST-139-1(13)

County: Brantley

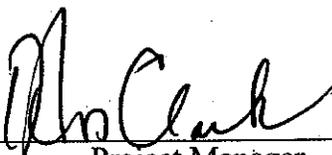
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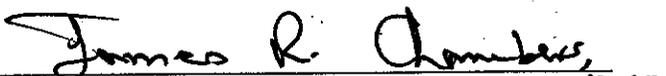
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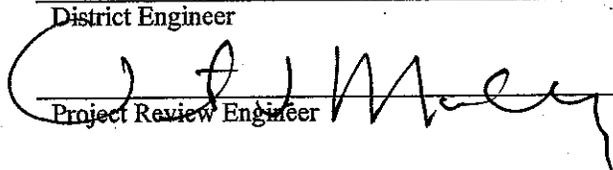
DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE 11/15/01

  
Project Review Engineer

DATE \_\_\_\_\_

State Bridge Design Engineer

October 31, 2001

**DEPARTMENT OF TRANSPORTATION**  
**STATE OF GEORGIA**  
*Office of Consultant Design*

**Project Concept Report**

Project Number: BRST-139-1(13)

County: Brantley

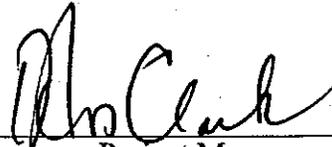
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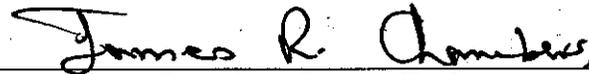
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DATE 11-2-01

  
Project Manager

DATE 11-2-01

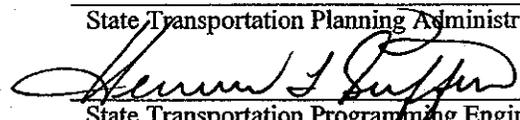
  
State Consultant Design Engineer *MSA*

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DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE 11-08-01

  
State Transportation Programming Engineer

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

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State Bridge Design Engineer

October 31, 2001

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Consultant Design

Project Concept Report

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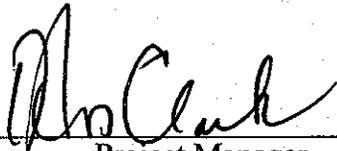
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