

ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE** BRST-133-1(9) Brooks-Lowndes Counties **OFFICE** Preconstruction  
P.I. No. 432150  
**DATE** August 23, 2001  
**FROM** *CWH*  
C. Wayne Hutto, Assistant Director of Preconstruction  
**TO** SEE DISTRIBUTION

**SUBJECT** PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

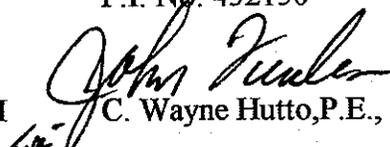
**DISTRIBUTION:**

Tom Turner  
David Mulling  
Harvey Keeper  
Jerry Hobbs  
Herman Griffin  
Michael Henry  
Marion Waters  
Marta Rosen  
Paul Liles  
Jimmy Chambers  
David Crim  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRST-133-1(9) Brooks-Lowndes Counties **OFFICE** Preconstruction  
P.I. No. 432150 **DATE** August 21, 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 two narrow and structurally deficient bridges on SR 122 over Little River and Meeting House Creek at the Brooks-Lowndes county line. The existing bridges, constructed in 1941, are 27.3' wide with sufficiency ratings of 36 and 43. The existing approaches consist of a two lane roadway with rural shoulders on a variable 100' - 300' of existing right-of-way. The base year traffic (2007) along this section of SR 122 is 1,900 VPD and the 20 year (2027) or design year projected volume is 2,600 VPD. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 122 south of its present location, extending a total of 1.09 miles. The proposed new bridges will be 1,080' x 40' and 280' x 40' and will be located just south of the existing bridge structures. The relocated SR 122 will consist of two, 12' lanes with 10' rural shoulders (2' paved). Traffic will be maintained on the existing bridges while the proposed bridges are constructed.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing is not required; 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)	\$6,631,000	\$4,190,000	2005	02-07
Right-of-Way	\$ 47,000	\$ 10,000		
Utilities*	---	---		

\*LGPA sent 7-1-99 requesting Lowndes and Brooks Counties do utilities.

Frank L. Danchetz  
Page 2

BRST-133-1(9) Brooks-Lowndes  
August 21, 2001

I recommend this project concept be approved.

CWH:JDQ/cj

Attachment

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

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

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

**FILE:** BRST-133-1(9) Brooks - Lowndes  
P.I. Number 432150-  
**OFFICE:** Engineering Services  
**DATE:** August 8, 2001

**FROM:** *CSM* David Mulling, Project Review Engineer  
**TO:** Wayne Hutto, Assistant Director of Pre-construction  
**SUBJECT:** CONCEPT REPORT

RECEIVED  
AUG 10 2001

We have reviewed the concept report submitted August 2, 2001 by the letter from James R. Chambers dated August 1, 2001, and have the following comments:

1. More justification needs to be provided for the proposed replacement of Meeting House Creek Bridge. The Meeting House Creek Bridge has a sufficiency rating of ~~65.5~~ 65.5, and does not qualify for bridge replacement funds unless the alignment shift for the Little River Bridge requires its replacement. See Topps Directives 2405 and 4118 for guidance.

The costs for the project are:

Construction	\$5,480,000
Inflation	\$ 548,000
E&C	\$ 603,000
Reimbursable Utilities	\$ 0
Right of Way	\$ 47,000

DTM

c: Jim Chambers -- Office of Consultant Design

SUFFICIENCY RATING REVISED TO 43.8 — *JDel*  
8/21/2001

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> BRST-133-1(9)		<b>County:</b> BROOKS - LOWNDES		<b>PI No.:</b> 432150		
<b>Report Date:</b> 8/1/01			<b>Concept By:</b>			
			DOT Office: CONSULTANT DESIGN			
<input checked="" type="checkbox"/> CONCEPT						
			Consultant: HNTB			
<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>	80%	More justification needed for replacing instead of widening bridge with 65.5 Sufficiency Rating. <i>tdl</i>				
<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-133-1(9) Brooks/Lowndes Counties  
S.R. 122 over Little River and Meeting House Creek  
P.I. No. 432150  
**FROM** *James R. Chambers*  
James R. Chambers, State Consultant Design Engineer

**OFFICE** Atlanta

**DATE** August 2, 2001

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

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

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

People 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.

JRC:llb

*Distribution:*

David Mulling, Project Review Engineer  
Harvey Keeper, State Environmental/Location Engineer  
Marion Waters, State Traffic Operations Engineer  
Marta Rosen, State Transportation Planning Administrator  
Herman Griffin, State Transportation Programming Engineer  
David Crim, District 4 Engineer  
Paul Liles, State Bridge Design Engineer

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

**PROJECT CONCEPT REPORT**

Project Number: BRST-133-1(9)  
County: Brooks/Lowndes  
P. I. Number: 432150

Federal Route Number: N/A  
State Route Number: 122

Recommendation for approval:

DATE 8-2-01

DATE 8-2-01



Project Manager  
James R. Chambers  
State Consultant Design Engineer

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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

DATE \_\_\_\_\_

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



**Need and Purpose:** This project will replace the structurally deficient bridge on State Route 122 over Little River at the Brooks/Lowndes County Line and the bridge over Meeting House Creek. The two-lane bridges were constructed in 1941. The project would replace the current 27.3-foot wide bridges with 40-foot wide bridges. At either end of the project, the terminus is a two-lane roadway with 12-foot lanes and 6-foot shoulders. The existing roadway constitutes logical terminus for the bridges.

The section of roadway where the bridge is located functions at an acceptable Level of Service. The 1999 ADT is 1,650 vehicles, and 2019 traffic is projected at 2,475 ADT. The Level of Service is anticipated to remain at an acceptable level through 2019.

This project is located within the project limits of shoulder work project STP-M000-00 (353). This project and the shoulder work project are independent of each other. Project BRST-133-1(9) has independent utility.

The Little River bridge's Sufficiency Rating is 36.0 and the Structural Evaluation is 2. In accordance with MOG 2450-10, the Structural Evaluation rating and the Sufficiency rating of the bridge requires the bridge to be replaced. The Meeting House Creek bridge's Sufficiency Rating is ~~65.5~~. The width of both of these bridges is not consistent with current standards. *43.8 JDC. 21/AUG/2001 AS PER MAINTENANCE*

**Description of the proposed project:** The proposed project would consist of replacing the existing bridge on SR 122 over Little River and Meeting House Creek. The existing 2-lane bridge over Little River is 1053 feet long, 27.3 feet wide, and has 39 spans, each approximately 27 feet long. The proposed bridge over Little River will be 40 feet wide, consisting of two 12-foot travel lanes with two 8-foot shoulders. The proposed bridge is expected to be approximately 1080 feet in length. The existing 2-lane bridge over Meeting House Creek is 270 feet long, 27.3 feet wide, and has 10 spans, each approximately 27 feet long. The proposed bridge over Meeting House Creek will be 40 feet wide, consisting of two 12-foot travel lanes with two 8-foot shoulders. The proposed bridge is expected to be approximately 280 feet in length. The existing approach roadway has two lanes with rural shoulders and an existing right-of-way varying from 100 to 300 feet. The proposed roadway would consist of two 12-foot lanes with 10-foot shoulders, 2 feet of which will be paved. The project will require additional right-of-way at the beginning of the realignment. The total length of the proposed project is approximately 5,800 feet (1.09 miles).

Is the project located in a Non-attainment area? ( ) Yes (X) No.

PDP Classification: MINOR

~~FEDERAL OVERSIGHT~~ : Full Oversight ( ), Exempt (X), State Funded ( ), or Other ( )

**Functional Classification:** Rural Minor Arterial

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

State Route Number(s): 122

**Traffic:**

- ADT: Current Year: (2007) 1900  
Design Year: (2027) 2600
- K=10%
- D=60%
- T=7%
- 24HR T =9%
- SU=4%
- COMB=5%

**Existing design features:**

- Typical Section: The existing roadway is a two lane rural section with 12-foot travel lanes, shoulders, and ditches.
- Posted speed: 55 mph
- Maximum degree of curvature: N/A
- Maximum grade: 0.7% (Mainline)
- Width of right of way: Varies from 100' to 300'
- Major structures: Existing Bridge Over Little River
  - Length: 1053'
  - Width: 27.3'
  - Sufficiency Rating: 36.0Existing Bridge Over Meeting House Creek
  - Length: 270'
  - Width: 27.3'
  - Sufficiency Rating: 65.5
- Major interchanges or intersections along the project: N/A
- Existing length of roadway segment: 5768.12 ft
- Beginning mile logs for each county segment;

**Proposed Design Features:**

- Proposed typical section(s): The proposed roadway will consist of two 12 ft travel lanes, 10 foot shoulders (2' paved, 8' unpaved) and normal roadway ditch sections.
- Proposed Design Speed Mainline: 55 mph
- Proposed Maximum grade Mainline: 1.0%      Maximum grade allowable: 6%
- Proposed Maximum grade Side Street: 9.5%      Maximum grade allowable: N/A
- Proposed Maximum grade driveway 7.0%
- Proposed Maximum degree of curve: 1°00'      Maximum degree allowable: 6°00'
- Right of way
  - Width: Varies from 130' to 300'

- Easements: Temporary (X), Permanent ( ), Utility ( ), Other ( ).
- Type of access control: Full ( ), Partial ( ), By Permit (X), Other ( ).
- Number of parcels impacted: 2 for right of way 1 for easement.
- Number of displacements:
  - Business: 0
  - Residences: 0
  - Mobile homes: 0
  - Other: 0

- Structures:

- Bridges: The proposed bridge over Little River will have an approximate length of 1080 feet and a width of 40 feet, which includes two 12-foot travel lanes and 8-foot shoulders, the proposed bridge over Meeting House Creek will have an approximate length of 280 feet and a width of 40 feet, which includes two 12-foot travel lanes and 8-foot shoulders, based on MOG 4265-10.
- Retaining walls: N/A

- Major intersections and interchanges: N/A
- Traffic control during construction: N/A (new alignment)

- 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 underway.

Project Concept Report pag  
Project Number: BRST-133-1(9)  
P. I. Number: 432150  
County: Brooks/Lowndes

- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes (X), No ( ),
  - Categorical Exclusion (Anticipated) (X),
- Utility involvement:
  - Telephone.

**Project responsibilities:**

- Design, HNTB Corporation
- Right of Way Acquisition, GDOT
- Relocation of Utilities, GDOT or Owner
- Letting to contract, GDOT
- Supervision of construction, GDOT
- Providing material pits, GDOT
- Providing detours, GDOT

**Coordination**

- Concept meeting date: July 26, 2001
- P. A. R. meetings, dates: None
- FEMA, USCG, and/or TVA
- Public involvement: No public involvement anticipated.
- Local government comments: LGPA Agreement
- Other projects in the area: None
- Other coordination to date: None

**Scheduling – Responsible Parties' Estimate**

- Time to complete the environmental process: 9 Months.
- Time to complete preliminary construction plans: 5 Months.
- Time to complete right of way plans: 2 Months.
- Time to complete the Section 404 Permit: 1-4 Months.
- Time to complete final construction plans: 4 Months.
- Time to complete to purchase right of way: 6 Months.
- List other major items that will affect the project schedule: None

**Other alternates considered:**

Off-site Detour  
No Build  
On-site Detour

**Comments:** It was determined that the other alternates were not feasible. A brief explanation is as follows:

- 1) Off-site detour: There were no adjacent roads which could serve as a convenient off-site detour.

- 2) No Build: The Structural Evaluation Rating for the bridge is a 2 and the Sufficiency Rating is a 36 for the Little River bridge. Since the Sufficiency Rating is below 50, Department guidelines require that the bridge be replaced. The Meeting House Creek bridge is too narrow for the projected ADT. The No Build scenario is not a viable option.
- 3) On-site detour is not a viable option due to the length of the project as well as the replacement of two bridges. This option would dramatically increase the cost of the project to approximately \$9,500,000.

**Attachments:**

1. Cost Estimates:
  - a. Construction including E&C,
  - b. Right of Way, and
  - c. Utilities.
2. Typical Sections
3. Concept Layout
4. Bridge Inventory
5. Minutes from Concept Meeting
6. Location and Design Notice

Project Concept Report p: 3  
 Project Number: BRST-133-1(9)  
 P. I. Number: 432150  
 County: Brooks/Lowndes

## PRELIMINARY COST ESTIMATE

**BIG BRIDGE WORK ORDER NUMBER 9 - S.R. 122 OVER LITTLE RIVER AND MEETING HOUSE CREEK**

PROJECT NUMBER: BRST-133-1(9) COUNTY: BROOKS/LOWNDES  
 DATE: 6/1/2001 ESTIMATED LETTING DATE: -  
 PREPARED BY: HNTB PROJECT LENGTH (MILES): 1.09

( ) PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT ( ) DURING PROJECT DEV.

PROJECT COST				
ITEM	UNIT	UNIT COST	QUANTITY	COST
<b>A. RIGHT-OF-WAY:</b>				
1. PROPERTY (LAND & EASEMENT):	AC	\$5,000.00	2.17	\$ 10,850
2. DISPLACEMENTS: RES 0; BUS 0; MH 0	EA	\$125,000.00	0.00	\$ 0
3. OTHER COST (ADM./ COST, INFLATION)	EA	\$6,000.00	6.00	\$ 36,000
		<b>SUBTOTAL: A</b>		<b>\$ 46,850</b>
<b>B. REIMBURSABLE UTILITIES: (LGPA)</b>				
1. RAILROAD	EA	\$20,000.00	0.00	\$ 0
2. TRANSMISSION LINES	EA	\$20,000.00	0.00	\$ 0
3. SERVICES	EA	\$10,000.00	0.00	\$ 0
		<b>SUBTOTAL: B</b>		<b>\$ 0</b>
<b>CONSTRUCTION</b>				
<b>C. MAJOR STRUCTURES:</b>				
1. RETAINING WALLS	SF	\$62.00	0.00	\$ 0
2. BRIDGES				0
a. Little River	SF	\$55.00		\$ 2,376,000
b. Meeting House Creek	SF	\$55.00		\$ 616,000
3. DETOUR BRIDGES	SF	\$40.00	0.00	\$ 0
4. REMOVAL OF EXISTING BRIDGE				
a. Little River	SF	\$10.00	28719.60	\$ 287,196
b. Meeting House Creek	SF	\$10.00	7371.00	\$ 73,710
5. BOX CULVERTS	LS	LUMP SUM	LUMP SUM	\$ 0
		<b>SUBTOTAL: C</b>		<b>\$ 3,352,906</b>

<b>D. GRADING, DRAINAGE AND EROSION CONTROL:</b>				
<b>1. EARTHWORK</b>				
a. Permanent Borrow:	CY	\$4.00	78579.91	\$ 314,320
b. Permanent Excavation:	CY	\$6.00	0.00	\$ 0
c. Detour Borrow:	CY	\$4.00	0.00	\$ 0
d. Detour Excavation:	CY	\$6.00	0.00	\$ 0
<b>SUBTOTAL: D-1</b>				<b>\$ 314,320</b>
<b>2. DRAINAGE:</b>				
a. Cross Drain Pipe	LS	LUMP SUM	LUMP SUM	\$ 0
b. Curb and Gutter	FT	\$12.00	0.00	\$ 0
c. Longitudinal System	FT	\$89.18	258.76	\$ 23,075
<b>SUBTOTAL D-2</b>				<b>\$ 23,075</b>
<b>3. TEMPORARY EROSION CONTROL:</b>				
a. Silt Fence - Type A	LF	\$2.50	6,622.64	\$ 16,557
b. Straw Bales or Silt Fence - Type B	LF	\$2.25	4048.08	\$ 9,108
c. Silt Fence - Type C	LF	\$4.75	1132.89	\$ 5,381
d. Temporary Grass	LB	\$37.00	112.09	\$ 4,147
e. Temporary Mulch	TN	\$500.00	11.21	\$ 5,605
f. Silt Control Gates	EA	\$650.00	8.00	\$ 5,200
g. Check Dams/ Ditch Checks	EA	\$300.00	0.00	\$ 0
h. Sediment Basins	EA	\$6,000.00	0.00	\$ 0
<b>SUBTOTAL: D-3</b>				<b>45,998</b>
<b>4. PERMANENT EROSION CONTROL:</b>				
a. Concrete Ditch Paving	SY	\$30.00	715.33	\$ 21,460
b. Permanent Soil Reinforcing Mat	SY	\$6.75	11445.33	\$ 77,256
c. Bituminous Treated Roving	SY	\$2.75	2146.00	\$ 5,902
d. Rip Rap for Bridge End Rolls	SY	\$38.00	1305.65	\$ 49,615
e. Erosion Blankets or Mats	SY	\$2.50	1958.48	\$ 4,896
f. Permanent Grassing	AC	\$1,596.00	14.95	\$ 23,839
<b>SUBTOTAL: D-4</b>				<b>\$ 182,967</b>
<b>SUBTOTAL: D</b>				<b>\$ 566,360</b>

Project Concept Report page 0  
 Project Number: BRST-135-1(9)  
 P. I. Number: 432150  
 County: Brooks/Lowndes

<b>E. BASE AND PAVING:</b>				
<b>1. PERMANENT ROADWAY</b>				
a. Aggregate Base	TN	\$16.00	8652.67	\$ 138,443
b. Surface	TN	\$38.50	1101.61	\$ 42,412
c. Binder	TN	\$36.50	1468.82	\$ 53,612
d. Base	TN	\$38.00	4406.45	\$ 167,445
e. Leveling	TN	\$39.25	20.00	\$ 785
f. Tack Coat	GAL	\$1.10	1602.35	\$ 1,763
g. Approach Slabs	SY	\$105.50	533.33	\$ 56,267
			<b>SUBTOTAL: E-1</b>	<b>\$ 460,726</b>
<b>2. DETOUR ROADWAY</b>				
a. Aggregate Base	TN	\$16.00	0.00	\$ 0
b. Surface	TN	\$38.50	0.00	\$ 0
c. Binder	TN	\$36.50	0.00	\$ 0
d. Leveling	TN	\$39.25	0.00	\$ 0
e. Tack Coat	GAL	\$1.10	0.00	\$ 0
f. Approach Slabs	SY	\$105.50	0.00	\$ 0
			<b>SUBTOTAL: E-2</b>	<b>\$ 0</b>
			<b>SUBTOTAL: E</b>	<b>\$ 460,726</b>
<b>F. LUMP ITEMS:</b>				
<b>1. TRAFFIC CONTROL</b>				
	LS	LUMP SUM	LUMP SUM	\$ 173,160
<b>2. CLEARING AND GRUBBING</b>				
	AC	\$11,500.60	18.55	\$ 213,336
			<b>SUBTOTAL: F</b>	<b>\$ 386,496</b>
<b>G. MISCELLANEOUS:</b>				
<b>1. FENCING AND SIGNING</b>				
a. Fencing	LF	\$12.50	0.00	\$ 0
b. Signs & Posts	EA	\$220.43	58.00	\$ 12,785
c. Signals	EA	\$37,000.00	0.00	\$ 0
			<b>SUBTOTAL: G-1</b>	<b>\$ 12,785</b>
<b>2. STRIPING</b>				
a. 5 In White Solid	LF	\$260.00	2.19	\$ 568
b. 5 In Yellow Solid	LF	\$262.00	2.19	\$ 573
			<b>SUBTOTAL: G-2</b>	<b>\$ 1,141</b>

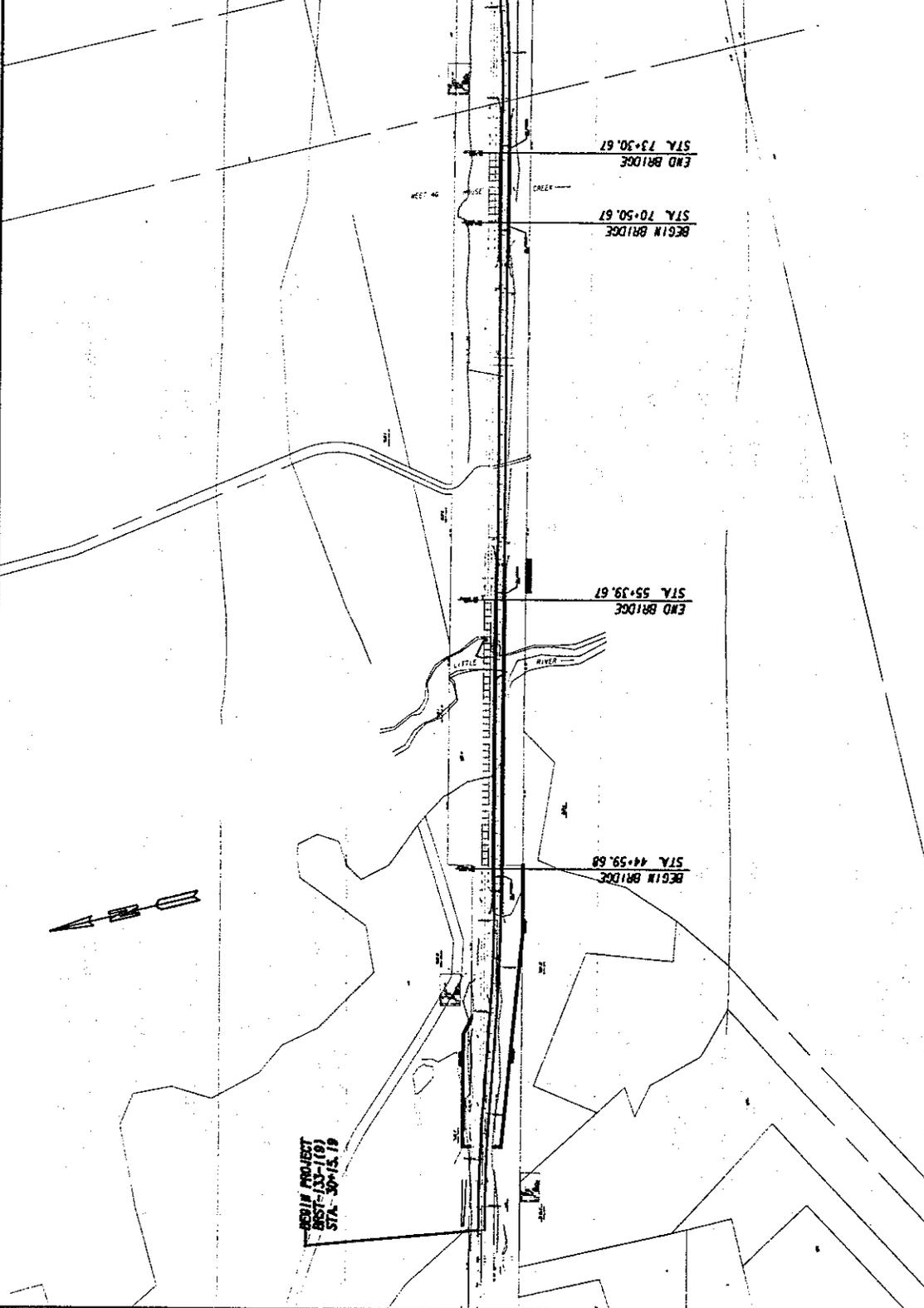
Project Concept Report page  
 Project Number: BRST-133-1(9)  
 P. I. Number: 432150  
 County: Brooks/Lowndes

<b>3. GUARDRAIL</b>				
a. Type W	LF	\$12.25	14484.84	\$ 177,439
b. Type T	LF	\$50.00	165.17	\$ 8,258
c. Type 12 Anchors	EA	\$1,500.00	4.00	\$ 6,000
d. Type 1 Anchors	EA	\$435.00	4.00	\$ 1,740
e. Removal	LF	\$7.75	1068.70	\$ 8,278
			<b>SUBTOTAL: G-3</b>	<b>\$ 201,716</b>
			<b>SUBTOTAL: G</b>	<b>\$ 215,642</b>

ESTIMATE SUMMARY	
A. RIGHT-OF-WAY	\$ 46,850
B. REIMBURSABLE UTILITIES	\$ 0
<b>CONSTRUCTION</b>	
C. MAJOR STRUCTURES	\$ 3,352,906
D. GRADING, DRAINAGE AND EROSION CONTROL	\$ 566,360
E. BASE AND PAVING	\$ 460,726
F. LUMP ITEMS	\$ 386,496
G. MISCELLANEOUS	\$ 215,642
CONTINGENCIES (10%)	\$ 498,213
<b>SUBTOTAL CONSTRUCTION COST</b>	<b>\$ 5,480,343</b>
E. & C. (10%)	\$ 548,034
INFLATION (5% PER YEAR)	\$ 1,665,530
NUMBER OF YEARS	5
<b>TOTAL CONSTRUCTION COST</b>	<b>\$ 7,693,907</b>
<b>GRAND TOTAL PROJECT COST</b>	<b>\$ 7,740,757</b>



STATE PROJECT NUMBER  
GA.

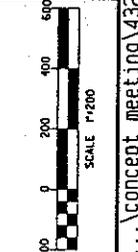


DRAWING No.  
**GEORGIA**  
**DEPARTMENT OF TRANSPORTATION**  
**CONCEPT PLAN**  
 PROJECT: BRST-133-119  
 COUNTY: BROOKS/LOWMEDES

DATE	REVISED	DATE	REVISION

**HNTB**  
 100 CIRCLE 75 PARKWAY  
 SUITE 650  
 ATLANTA, GEORGIA 30339

**HNTB**  
 BIDDING WORK ORDER SERVICES  
 WORK ORDER #  
 S. R. 122 OVER LITTLE RIVER AND  
 MEETING HOUSE CREEK



...concept meeting\432150p1.n.dgn Aug. 01, 2001 12:20:23

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 027-0036-0

Brooks County

SUFF. RATING: 30

## Location & Geography

\* Structure I.D. No.: 027-0036-0  
 \* 200 Bridge Information: 07

\* 6A Feature Int.: LITTLE RIVER  
 \* 6B Critical Bridge: 0  
 \* 7A Route Number Carried: SR00122  
 \* 7B Facility Carried: SR 122  
 \* 9 Location: APP 3 MILE OF BARNEY  
 \* 2 DOT District: 4  
 \* 207 Year Photo: 1998

\* 91 Inspection Frequency: 24 Date: 08/08/2000  
 \* 92A Fract Crit Insp Freq: 0 00 Date: 0000  
 \* 92B Underwater Insp Freq: 1 60 Date: 03/22/2000  
 \* 92C Other Spc. Insp Freq: 0 00 Date: 0000

\* 4 Place Code: 00000

\* 5 Inventory Route (O/U): 1  
 Type: 3  
 Designator: 1  
 Number: 00122  
 Direction: 0

\* 16 Latitude: 31-00.1  
 \* 17 Longitude: 83-27.5

98 Border Bridge: 000 %Shared: 00  
 99 ID Number: 0000000000000000

\* 100 Defense Highway: 0  
 \* 101 Parallel Structure: N  
 \* 102 Direction of Traffic: 2  
 264 Road Inventory Mile Post: 017.07

\* 208 Inspection Area: 04 Initials: RAC  
 \* Location I.D. No: 027-00122D-017.28E  
 \* XReferen I.D. No: 000-000000-000.000

## Signs & Attachments

\* 104 Highway System: 0  
 \* 26 Functional Classification: 06  
 \* 204 Federal Route Type: F No: 133-1  
 \* 110 Truck Route: 1  
 206 School Bus Route: 0  
 217 Benchmark Elevation: 200.00  
 218 Datum: 1  
 \* 19 Bypass Length: 27  
 \* 20 Toll: 3  
 \* 21 Maintenance: 01  
 \* 22 Owner: 01  
 \* 31 Design Load: 2  
 37 Historical Significance: 5  
 205 Congressional District: 02  
 \* 27 Year Constructed: 1941  
 106 Year Reconstructed: 0000  
 33 Bridge Median: 0  
 34 Skew: 00  
 35 Structure Flared: 0  
 38 Navigation Control: 0  
 213 Special Steel Design: 0  
 267 Type of Paint: 1

\* 42 Type 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: 039  
 44 Structure Type Appr: 0 0  
 46 No. Spans Appr: 0000  
 226 Bridge Curve Horz: 0 Vert: 1  
 111 Pier Protection: 0  
 107 Deck Structure Type: 1

108 Wearing Surface Type: 1  
 Membrane: 0  
 Protection: 0

\* 223 Expansion Joint Type: 02  
 242 Deck Drains: 1  
 243 Parapet Location: 0  
 Height: 0  
 Width: 0  
 238 Curb: 1.2 1  
 239 Handrail: 1 1  
 \* 240 Median Barrier Rail: 0  
 241 Bridge Median Height: 0  
 Width: 0  
 \* 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: 1  
 234 Delineator: 1  
 235 Hazard Boards: 1  
 237 Utilities Gas: 00  
 Water: 0  
 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: 027-0036-0

## Programming Data

201 Project No: SP-1591-B (6)  
 202 Plans Available: 1  
 249 Prop. Proj No: BRST-133-1 (9)  
 250 Approval Status: 0000  
 251 P.I. No: 432150  
 252 Contract Date: 02/01/2005  
 260 Seismic No: 00000  
 75 Type Work: 34 1  
 94 Bridge Imp. Cost: \$ 1,063  
 95 Roadway Imp. Cost: \$ 114  
 96 Total Imp. Cost: \$ 1,642  
 76 Imp. Length: 001264  
 97 Imp. Year: 1990  
 114 Future ADT: 002475 Year: 2019

## Hydraulic Data

215 Waterway Data  
 Highway Elev: 0197.5 Year: 1977  
 Flood Elev: 0000.0 Freq: 00  
 Avg. Streambed Elev: 0188.7  
 Drainage Area: 00000  
 Area of Opening: 018724  
 113 Scour Critical: 6  
 216 Water Depth: 12.0 Br Height: 13.4  
 222 Slope Protection: 4  
 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: 2 Diver: WCS

\* Location I.D. No: 027-00122D-017.28E  
 \* XReferen I.D. No: 000-000000-000.000

Report Date: 02/08/2001

## Measurements

\* 29 ADT: 001650 Year: 1999  
 109 % Trucks: 16  
 \* 28 Lanes On: 02 Under: 00  
 210 No. Tracks On: 00 Under: 00  
 \* 48 Max. Span Length: 0027  
 \* 49 Structure Length: 1053  
 51 Br. Rdwy. Width: 23.9  
 52 Deck Width: 27.3  
 \* 47 Tot. Horz. Cl: 23.9  
 50 Curb/Sdewik Width: 1.0/1.0  
 32 Approach Rdwy Width: 023  
 \* 229 Shlder Width:

Rear Lt: 5.0 Type: 8 Rt: 5.0  
 Fwrd Lt: 5.0 Type: 8 Rt: 5.0  
 Pvmnt Width:

Rear: 23.0 Type: 2  
 Fwrd: 23.0 Type: 2  
 Intersection Rear: 0 Fwrd: 1  
 36 Safety Features Br. Rail: 2

Transition: 2  
 App. G. Rail: 2  
 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:  
 \* 10 Max Min Vert Cl: 99' 99" Dir: 0  
 39 Nav Vert Cl: 000 Horz: 0000  
 116 Nav Vert Cl Closed:  
 245 Deck Thickness Main: 7.0  
 Deck Thick Approach: 0.0  
 246 Overlay Thickness: 0.0  
 211 Tons Structural Steel: 94.0  
 212 Year Last Painted: Sup: 1997 Sub: 1984

## Ratings

66 Inventory Type: 2 Rating: 13  
 64 Operating Type: 2 Rating: 29  
 231 Calculated Loads

H-Modified: 15 1  
 HS-Modified: 25 0  
 Type 3: 27 1  
 Type 3s2: 40 0  
 Timber: 32 1  
 Piggyback: 40 0

261 H Inventory Rating: 15

262 H Operating Rating: 21

67 Structural Evaluation: 2

58 Deck Condition: 5

59 Superstructure Condition: 6

\* 227 Collision Damage: 0

60A Substructure Condition: 6

60B Scour Condition: 6

60C Underwater Condition: 6

71 Waterway Adequacy: 8

61 Channel Protection Cond: 7

68 Deck Geometry: 3

69 UnderClr. Horz/Vert: N

72 Appr. Alignment: 7

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: 32  
 Piggyback: 00  
 253 Notification Date: 0000  
 253 Fed Notify Date: 0000

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

File: Bridge Replacement: S.R. 122 over Little River and Meeting House Creek  
BRST-133-1(9), Brooks / Lowndes Counties  
P.I. No. 432150

From: James R. Chambers, State Consultant Design Engineer

To: Distribution

Subject: Minutes of Concept Meeting  
Big Bridge W.O. #9

The Concept Meeting for the S.R. 122 over Little River and Meeting House Creek Bridge replacements was held on July 26, 2001 at the Georgia Department of Transportation District 4 Conference Room. The attendees are listed below.

Attendees:	Larry Cook	HNTB	(770) 956-5770
	Ashley Chan	HNTB	(770) 956-5770
	Tim Heilmeier	HNTB	(770) 956-5770
	Kerry Williams	HNTB	(770) 956-5770
	Emory Giddens	GDOT Dist. 4 Utilities	(229) 386-3288
	Danny Gay	GDOT Dist. 4 Traffic	(229) 386-3435
	Zane Hutchinson	GDOT Dist. 4 Design	(229) 386-3300
	Joe Sheffield	GDOT Dist. 4 Pre-construction	(229) 386-3300
	Joe Burns	GDOT Dist. 4 Environmental	(229) 386-3046
	Don Gaskins	GDOT Dist. 4 Plan. & Prog.	(229) 386-3045
	Tim Warren	GDOT Dist. 4 Area One	(229) 333-5287

- Ms. Chan described the project.
- Mr. Giddens noted that there are no utilities.
- Mr. Gay noted that a temporary attenuator will be needed for stage construction, since the proposed guardrail intersects the existing roadway.
- Mr. Gaskins noted that number of impacted parcels is wrong in the report. He also noted that this project is programmed for 2002 right of way and 2003 construction.

Page 2

Concept Meeting Minutes – W.O. #9

July 27, 2001

- Mr. Burns noted that the only environmental impact is wetlands.
- Mr. Sheffield suggested the alignment be changed to 1-degree curves with 400' tangents in between.

## NOTICE OF LOCATION AND DESIGN APPROVAL

**PROJECT: BRST-133-1(9) BROOKS/LOWNDES COUNTIES  
P. I. NO. 432150**

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.

Date of Location and Design Approval: \_\_\_\_\_

Project BRST-133-1(9) Brooks/Lowndes Counties proposes the replacement of the structurally deficient bridge at State Route 122 over Little River and the bridge over Meeting House Creek. The bridges are located at the Brooks/Lowndes County Line.

State Route 122 is a rural minor arterial in the southern part of the state. The current bridge on S.R. 122 over Little River has a structural evaluation rating of 2 and a sufficiency rating of 36.0 and, both the bridge over Little River and over Meeting House Creek are too narrow for the projected ADT, therefore, require replacement.

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:

Tim Warren  
[Tim.warren@dot.state.ga.us](mailto:Tim.warren@dot.state.ga.us)  
1409 Madison Highway  
Valdosta, Georgia 31601-6585  
Telephone (229) 333-5287

Sonja Thompson  
[Sonja.thompson@dot.state.ga.us](mailto:Sonja.thompson@dot.state.ga.us)  
120 East By-Pass NE  
Moultrie, Georgia 31768  
Telephone (229) 891-7130

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

Ted Cashin  
Office of Consultant Design  
[Ted.cashin@dot.state.ga.us](mailto:Ted.cashin@dot.state.ga.us)  
Georgia Department of Transportation  
No. 2 Capitol Square, Room 433  
Atlanta, Georgia 30334  
Telephone (404) 463-6133

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.

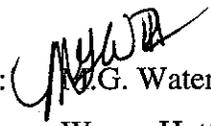
Department of Transportation  
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRST-133-1 (9) / Brooks/Lowndes County  
P.I. No. 432150

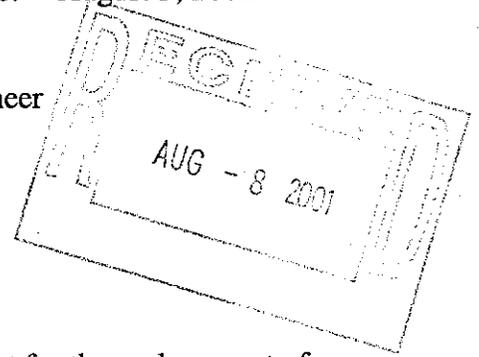
Office: Traffic Operations  
Atlanta, Georgia

Date: August 3, 2001

From:  M.G. Waters, III, P.E., State Traffic Operations Engineer

To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review



We have reviewed the above referenced concept report for the replacement of the two structurally deficient bridges on SR 122 over the Little River and Meeting House Creek. This project is located west of Hahira.

The existing structure over the Little River is 27 feet wide with a sufficiency rating of 36.0. The existing structure over Meeting House Creek is 27 feet wide with a sufficiency rating of 65.5. The concept proposes to construct two new structures 40 feet wide for the two-lane roadway. The current ADT is 1900 vehicles and the design year ADT is projected to be 2600 vehicles. The proposed bridge width is in accordance with MOG 4265-10 for this type of roadway.

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

MGW/BM

Attachment (signature page)

Cc: Harvey Keepler, State Environment/Location Engineer  
James Chambers, State Consultant Design Engineer  
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

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

**PROJECT CONCEPT REPORT**

Project Number: BRST-133-1(9)  
County: Brooks/Lowndes  
P. I. Number: 432150

Federal Route Number: N/A  
State Route Number: 122

Recommendation for approval:

DATE _____	_____
	Project Manager
DATE _____	_____
	State Consultant Design Engineer

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

DATE _____	_____
	State Transportation Planning Administrator

DATE _____	_____
	State Transportation Programming Engineer

DATE _____	_____
	State Environmental/Location Engineer

DATE <u>08/06/01</u>	 _____
	State Traffic Operations Engineer

DATE _____	_____
	District Engineer

DATE _____	_____
	Project Review Engineer

DATE _____	_____
	State Bridge Design Engineer

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

**PROJECT CONCEPT REPORT**

Project Number: BRST-133-1(9)  
County: Brooks/Lowndes  
P. I. Number: 432150

Federal Route Number: N/A  
State Route Number: 122

Recommendation for approval:

DATE \_\_\_\_\_  
DATE \_\_\_\_\_

\_\_\_\_\_  
Project Manager

\_\_\_\_\_  
State Consultant Design Engineer

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

DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE 8-07-01  
DATE \_\_\_\_\_  
DATE \_\_\_\_\_

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

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

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

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

Dee  
District Engineer

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

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

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-133-1(9)  
County: Brooks/Lowndes  
P. I. Number: 432150

Federal Route Number: N/A  
State Route Number: 122

Recommendation for approval:

DATE \_\_\_\_\_  
Project Manager

DATE \_\_\_\_\_  
State Consultant Design Engineer

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

DATE 8/3/01 \_\_\_\_\_  
State Transportation Planning Administrator

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

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

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

DATE \_\_\_\_\_  
District Engineer

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

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

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-133-1(9)  
County: Brooks/Lowndes  
P. I. Number: 432150

Federal Route Number: N/A  
State Route Number: 122

Recommendation for approval:

DATE \_\_\_\_\_

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Manager  
\_\_\_\_\_  
State Consultant Design Engineer

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

DATE \_\_\_\_\_

DATE 8/2/01

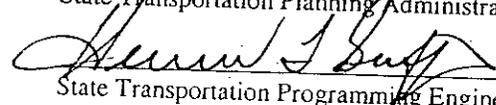
DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator  
  
\_\_\_\_\_  
State Transportation Programming Engineer  
\_\_\_\_\_  
State Environmental/Location Engineer  
\_\_\_\_\_  
State Traffic Operations Engineer  
\_\_\_\_\_  
District Engineer  
\_\_\_\_\_  
Project Review Engineer  
\_\_\_\_\_  
State Bridge Design Engineer

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

**PROJECT CONCEPT REPORT**

Project Number: BRST-133-1(9)  
County: Brooks/Lowndes  
P. I. Number: 432150

Federal Route Number: N/A  
State Route Number: 122

Recommendation for approval:

DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
Project Manager  
State Consultant Design Engineer

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

DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE 8/8/01  
DATE \_\_\_\_\_  
State Transportation Planning Administrator  
State Transportation Programming Engineer  
State Environmental/Location Engineer  
State Traffic Operations Engineer  
District Engineer  
Project Review Engineer  
State Bridge Design Engineer

## Liles, Paul

---

**From:** Summers, Brian  
**Sent:** Tuesday, August 21, 2001 1:41 PM  
**To:** Liles, Paul  
**Subject:** SR 122 over Mettinghouse creek

The new sufficiency rating for this bridge is 43.8. There must have been a glitch in the system when it was last updated.

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

**PROJECT CONCEPT REPORT**

Project Number: BRST-133-1(9)  
County: Brooks/Lowndes  
P. I. Number: 432150

Federal Route Number: N/A  
State Route Number: 122

Recommendation for approval:

DATE _____	_____
	Project Manager
DATE _____	_____
	State Consultant Design Engineer

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

DATE _____	_____
	State Transportation Planning Administrator
DATE _____	_____
	State Transportation Programming Engineer
DATE _____	_____
	State Environmental/Location Engineer
DATE _____	_____
	State Traffic Operations Engineer
DATE _____	_____
	District Engineer
DATE _____	_____
	Project Review Engineer
DATE <u>8/8/01</u>	<u>Paul V. Tiller Jr.</u>
	State Bridge Design Engineer