

D.O.T. 66

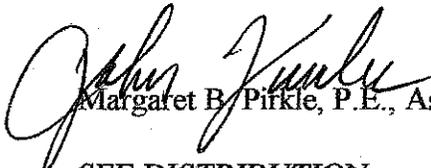
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-012-1(111) Cherokee County
P. I. No. 632900

OFFICE Preconstruction

DATE May 19, 2003

FROM  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

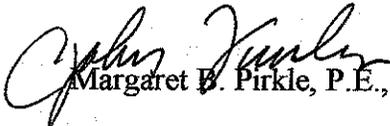
- David Mulling
- Harvey Keepler
- Jerry Hobbs
- Percy Middlebrooks
- Michael Henry
- Phillip Allen
- Marta Rosen
- Paul Liles
- Brent Storey
- Kent Sager
- BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-012-1(111) Cherokee County **OFFICE** Preconstruction
P.I. No. 632900

DATE May 6, 2003

FROM  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

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

SUBJECT PROJECT CONCEPT REPORT

This project is replacement of a structurally deficient bridge on SR 20 over Etowah River, 4.5 miles west of Canton, Georgia. The existing bridge, constructed in 1950, is load limited with a sufficiency rating of 61. The original design load capacity is H-15. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. State Route 20 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 20 is functionally classified as a rural minor arterial. Traffic is projected to be 9,600 VPD and 14,300 VPD in the years 2006 and 2026 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 20 north of its present location, extending 0.663 mile. The proposed new bridge will be 364' x 44' and will be located just north of the existing bridge structure. The relocated SR 20 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; a public hearing is not required; time saving procedures are appropriate.

This project will require split funding because the sufficiency rating exceeds 50. "BR" funding will cover the amount equal to the widening and the remainder will consist of "STP" funding.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
	BR	BR		
Construction (includes E&C and inflation)	\$2,125,000	\$2,000,000		
	STP	STP		
	\$2,309,000	\$2,000,000		
Right-of-Way	\$ 182,000	\$ 15,000		
Utilities*	LGPA	LGPA		

Frank L. Danchetz

Page 2

BRST-012-1(111) Cherokee

May 6, 2003

*Cherokee County signed LGPA for utilities 7-27-99.

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

MBP: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

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-012-1(111) Cherokee
P.I. Number 632900

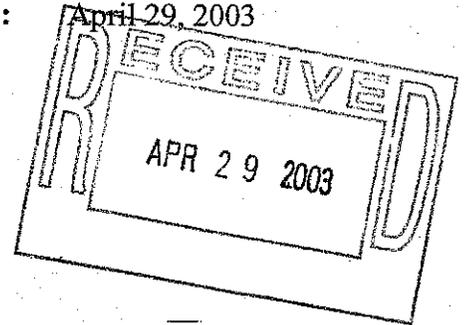
OFFICE: Engineering Services

DATE: April 29, 2003

FROM: David Mulling, Project Review Engineer *REW*

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT



We have reviewed the concept report submitted April 24, 2003 by the letter from James B. Buchan dated April 18, 2003, and have no comments.

The costs for this project are:

	Bridge Replacement	Bridge Widening
Construction	\$3,655,349	\$1,751,777
Inflation	\$374,674	\$179,558
E&C	\$403,003	\$193,134
Reimbursable Utilities	LGPA signed	LGPA signed
Right of Way	\$181,720	\$45,000

NOTE: This project will require split funding since the bridge has a sufficiency rating above 50 and is to be replaced. The BR funding is the amount equal to the Bridge Widening costs. Other costs will have to come from other funding sources.

REW

c: Ben Buchan, Attn: Ted Cashin

SCORING RESULTS AS PER MOG 2440-2

Project Number: BRST-012-1(111)		County: Cherokee		PI No.: 632900	
Report Date: April 21, 2003		Concept By: DOT Office: Consultant Design			
<input checked="" type="checkbox"/> Concept Stage		Consultant: Parsons Brincherhoff Quade & Douglas			
Project Type: 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	
FOCUS AREAS	SCORE	RESULTS			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

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**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

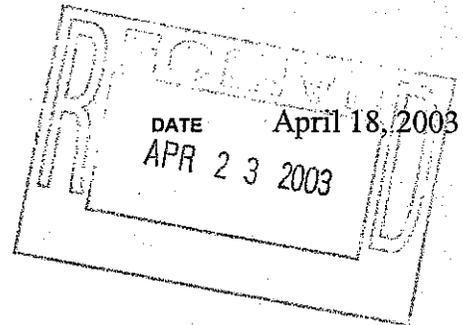
FILE **BRST-012-1(111) Cherokee County**
SR 20 over Etowah River 4.5 mi W of Canton
P.I. No. 632900-

OFFICE Atlanta

FROM *James B. Buchan*
James B. Buchan, State Consultant Design Engineer

TO Margaret B. Pirkle, 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 Ted Cashin at (404)463-6135 or John Durand of Parsons Brinckerhoff Quade & Douglas at (404) 364-5236.

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
Percy Middlebrooks, Office of Financial Management Administrator
Kent Sager, District Engineer – Cartersville
Paul Liles, State Bridge & Structural Engineer

JBB:MBA:EJC

cc: Parsons Brinckerhoff Quade & Douglas

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-012-1 (111)

County: CHEROKEE

P. I. Number: 632900-

Federal Route Number: N/A

State Route Number: 20

Recommendation for approval:

DATE 4-18-2003

DATE 4-21-2003



Project Manager
James B. Burhan *WBA*
State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

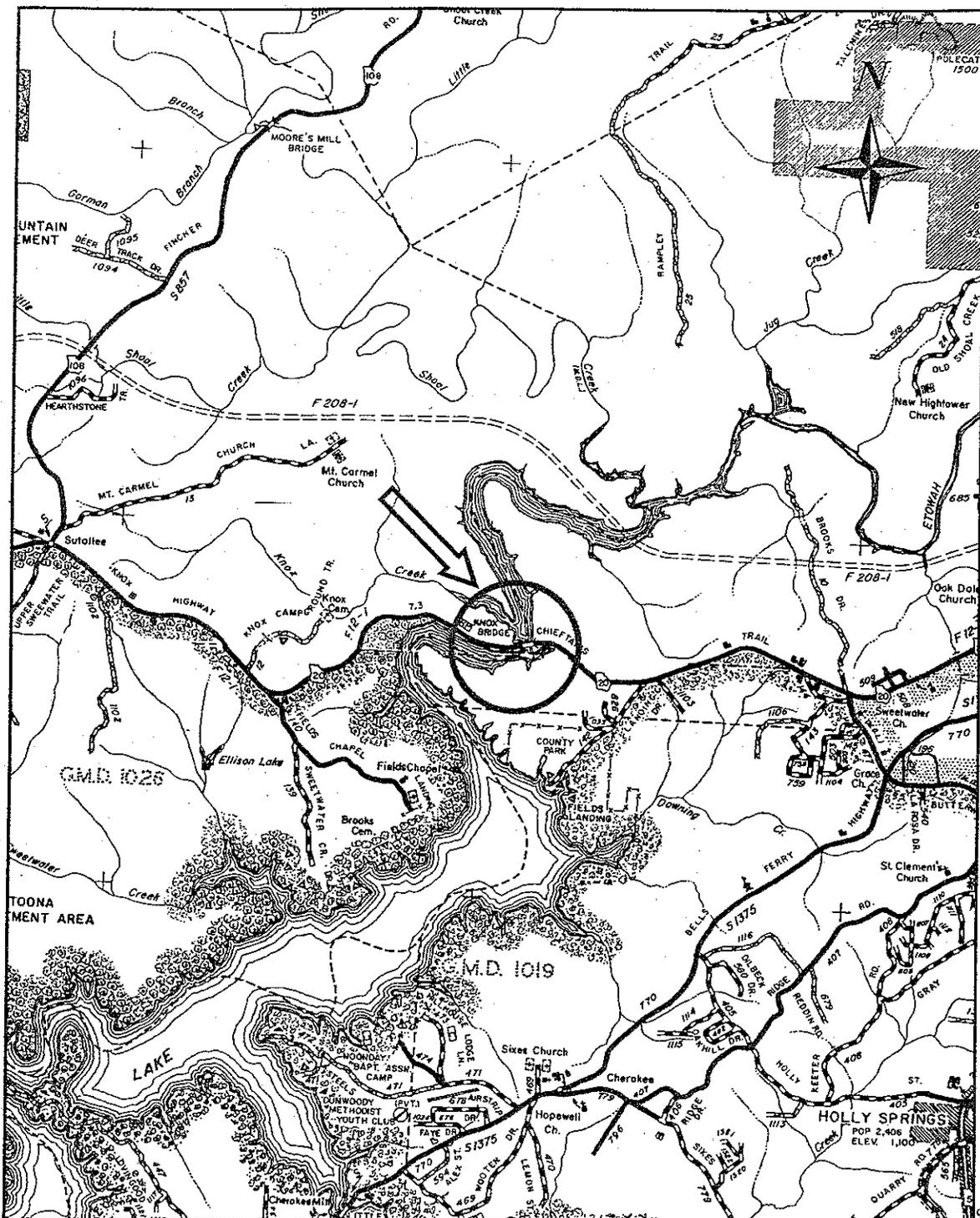
District 6 Engineer, Cartersville

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer



1 inch = 1 mile

Location Map

Project: BRST-012-1(111) Cherokee County PI No.: 632900-
Description: SR 20 over Etowah River 4.5 mi W of Canton

Project Concept Report page 2
 Project Number: BRST-012-1 (111) Cherokee County
 P. I. Number: 632900-

Need and Purpose: The purpose of project BRST-012-1 (111) is to replace a structurally deficient bridge on S.R.20 over Etowah River in Cherokee County. The existing bridge sufficiency rating is currently 61.00. See attached Need & Purpose Statements.

Description of the proposed project: Project BRST-012-1 (111) is a bridge replacement project in Cherokee County 4.5 miles west of Canton on State Route 20 over the Etowah River. The total project length is approximately 3500 feet (0.663 miles), beginning at approximately M.P. 5.543 and extending to approximately M.P. 6.206.

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

The proposed design, of this project, does not add any additional capacity to State Route 20. The existing roadway has two lanes. The proposed roadway will be designed for two lanes. The project is consistent with what is identified in the District 6 STIP.

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): None **State Route Number(s):** 20
Local Road Number(s): None

Traffic (AADT):

Current Year: (2006) 9600 Design Year: (2026) 14300

Existing design features:

- Typical Section: 2-12 ft. travel lanes, with a 2 ft. paved and variable width grassed shoulder on both sides.
- Posted speed 55mph Maximum degree of curvature: 6 degrees.
- Maximum grade: 7.0 % Mainline; 12.0% Cross Roads, and 10% Driveways
- Width of right of way: varies 200 ft. maximum

- Major structures: Concrete bridge, for a total length of 364 ft., width 29.60 ft., (bridge roadway width 23.8 ft.) sufficiency rating is 61.00.
- Existing length of the S.R. 20 roadway is approximately 3500 feet long.

Proposed Design Features:

Proposed typical section(s): Two 12'-0" travel lanes with 10' graded shoulders (6.5 Ft. paved).

Typical section attached.

- Proposed Design Speed Mainline 55 mph based on AASHTO Green Book for ADT
- Proposed Maximum grade Mainline 3% Maximum grade allowable 8%.
- Proposed Maximum grade Side Street 2% Maximum grade allowable 12%.
- Proposed Maximum grade driveway 12%
- Proposed Maximum radius of curve 1002.259 ft. Minimum Allowable radius 965.659 ft.
- Right of way
 - Additional R/W width varies from 85 to 188 ft. on the north
 - Easements: Temporary (), Permanent (), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 7 Number of displacements: None
 - Business: 0
 - Residences: 2
 - Mobile homes: 0
 - Other: 5
- Structures:
 - Bridges: The proposed concrete bridge will be 44 ft wide and approximately 364 ft long, consisting of two 12'-0" travel lanes and 10'-0" shoulders.
 - Retaining walls: None Required
- Major intersections and interchanges. None
- Traffic control during construction: The traffic during construction will be maintained on the existing facilities and switched over to the new alignment with pavement overlays

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: None
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion: **Anticipated**
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().

- Utility involvement: Overhead phone lines and cable TV lines run along the north side of S.R.20, relocation will be required. Also Cherokee County has a 16" water main hanging from the existing bridge along the north side, this will need a relocation as well.

Project responsibilities:

- Design: Office of Consultant Design/Parsons Brinckerhoff
- Right of Way Acquisition: Dist. 6 Preconstruction R/W Office
- Relocation of Utilities: District 6 Utility Office.
- Letting to contract: General Office (Office of Contract Administration)
- Supervision of construction: District 6 Construction Office
- Providing material pits: Responsibility of the Construction Contractor
- ☉ Providing detours: N/A

Coordination

- Initial Concept Meeting date and brief summary. N/A
- Concept meeting date and brief summary. Concept Meeting held on 02-21-03 See Attached minutes.
- P. A. R. meetings, dates and results: None required.
- FEMA, USCG, and/or TVA: Nationwide 23
- Public involvement: None Required
- Local government comments: Cherokee County signed LGPA 7-27-99.
- Other projects in the area:
- Other coordination to date.
- Railroads: None-N/A

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 9 Months.
- Time to complete preliminary construction plans: 3 Months.
- 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 to purchase right of way: 12 Months.
- List other major items that will affect the project schedule:

Alternates considered: (1) Construct proposed bridge at same location as the existing bridge with temporary on-site detour and detour bridge; (2) Construct proposed bridge at same location as the existing bridge with off-site detour; close road; (3) Construct proposed bridge parallel and offset from existing, and remove existing bridge; (4) No Build

Comments:

Comparison Summary of Concepts 1 - 4

Alternate (1) is not recommended for this concept. The preliminary hydraulic analysis indicates raising the proposed roadway and bridge slightly to clear the abnormal flood conditions due to the backwater effect from Allatoona Lake for the Design Year (50 Year) and the 100Year flood storm events. The location of an on-site run-around detour situated on the north side to avoid impacts to the existing boat ramp will require a considerable amount of rock fill and excavation to build the approaches to a temporary bridge and will also require considerable false work to support a temporary bridge structure 43 feet above the channel. The detour will also require shifting the traffic twice.

Alternate (2) is not recommended for this concept, due to the high volumes of traffic on S.R. 20(Approximately 9600 ADT). Also, there are no acceptable State Routes or County Roads in the area to detour traffic or to provide access for emergency vehicles.

Alternate (3) is recommended for this concept since the existing roadway alignment is favorable to a permanent shift to the north side. This parallel shifted alignment to the north side will utilize existing curves on both sides of the bridge. The profile can be raised on the shifted alignment, such that a new bridge can be completed, eliminating the need for a detour and provides for shifting the existing traffic only one time, which creates a safer project.

Alternate (4) was eliminated due to the condition of the existing bridge (Sufficiency Rating of 61.00) and also because of the long-term maintenance cost on a structurally and functionally deficient bridge.

Attachments:

1. Cost Estimates:
 - a. Construction including E&C,
 - b. Right of Way, and
 - c. Utilities.
 2. Need and Purpose Statements.
 3. Minutes of Concept Meeting.
 4. Typical Section.
 5. Bridge Inventory
 6. Traffic Assignments
 7. Flexible Pavement Design.
 8. Location and Design Notice.
 9. Project Concept Conformity Letter
 10. Status Report
 11. Office of Maintenance Recommendation Letter
-

PRELIMINARY COST ESTIMATE
(Bridge Replacement)

DATE January 28, 2003 PREPARED BY: Parsons Brinckerhoff

PROJECT NO.: BRST-012-1 (111) Cherokee County

P.I. NO.: 632900-

LENGTH: 0.663mi./3500 ft.

PROJECT DESCRIPTION: SR 20 over the Etowah River bridge replacement - Proposed bridge length of 364 ft and 44'-0" wide.

PROPOSED CONCEPT: Two 12'-0" travel lanes with 10'-0" shoulders (6'-6" Paved). Traffic will be maintained on the existing facilities while the new bridge and approaches are built.

EXISTING ROADWAY: STATE ROUTE 20

TRAFFIC: Existing: 9600 ADT (2006) Design: 14300 ADT (2026)

() PROGRAMMING PROCESS (x) CONCEPT DEVEL. () DURING PROJ DEVEL.

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (R/W & EASEMENT) 7.7 acre R/W@\$20,000/Ac.	\$ 154,000
2. DISPLACEMENTS:NONE	
3. OTHER COST (ADM./COST, INFLATION) (1*0.18)	\$ 27,720
SUBTOTAL:A	\$ 181,720
B. REIMBURSABLE UTILITIES:	
1. RAILROAD	\$ 0
2. TRANSMISSION LINES(RELOCATE CABEL TV & PHONE LINES- Estimated Non-Reimbursable Cost \$25,000)	\$ 0
3. SERVICES (Cherokee County signed LGPA 7-27-99 -Estimated Non- Reimbursable Cost \$212,000 for 3200'of 16" water line @\$65 & 2 FH @\$2000)	\$ 0
SUBTOTAL:B	\$ 0
C. CONSTRUCTION:	
I. MAJOR STRUCTURES	
a. OVERPASSES – Bridge over Etowah River (47'-3"x 364')@\$55/Sq.Ft.	\$945,945
b. APPROACH SLAB – 294 SY @\$99/SY 2 each spillways @\$1200 ea	\$31,506
SUBTOTAL:C-1	\$977,451
2. GRADING AND DRAINAGE:	
a. EARTHWORK – 33,000 CY(Mainline) Rock Embankment @\$23.15/cy-Mainline Unclassified Excavation 122,000 CY @ \$10.00/CY	\$1,983,950

PROJECT COST	
b. DRAINAGE:	
1) CROSS DRAIN PIPE 100' 48" CMP @\$110& Side Drain Pipe \$5000	\$ 16,000
2) LONGITUDINAL PIPE	\$
3) CATCH BASINS	\$
SUBTOTAL:C-2	\$1,999,950
3. BASE AND PAVING:	
a. AGGREGATE BASE – Mainline 6900 sy @12" & 4550 sy @ 6"= @\$9.00 & \$5.5	\$ 87,125
b. ASPHALT PAVING: SURFACE – Mainline 1027 TN-@\$45/TN	\$ 46,215
BINDER – Mainline 3321 TN- @\$40	\$ 132,840
Leveling 117 TN @\$40	\$ 4,680
SUBTOTAL:C-3.b	\$ 143,735
c. CONCRETE PAVING	
d. OTHER Bituminous Tack Coat 888 Gals.@ \$1.00/Gal	\$ 888
SUBTOTAL:C-3	\$ 231,748
4. LUMP ITEMS:	
a. GRASSING – 4 acres @ \$2000/ac	\$ 8,000
b. CLEARING AND GRUBBING - 7.5 acres @ \$2000/ac	\$ 15,000
c. LANDSCAPING	\$
d. EROSION CONTROL- Silt fence type A 7000 LF @\$3.10/LF, Silt fence type C 2000 LF @ \$4.80/LF, Floating silt fence 1200 ft. @ \$12/LF PSRM 32000SY @\$5	\$ 205,700
e. TRAFFIC CONTROL	\$ 50,000
SUBTOTAL:C-4	\$ 278,700
5. MISCELLANEOUS:	
a. LIGHTING - NONE	\$
b. SIGNING - MARKING	\$ 25,000
c. GUARDRAIL – 1260 LF @ \$15/LF, 8 ea Type 12 or 1 anchor @ \$1700/ea	\$ 32,500
d. CURB & GUTTER	\$
SUBTOTAL:C-5	\$ 57,500
6. SPECIAL FEATURES- Rem. Exist. Bridge @\$7/sq.ft-\$20,000; Field Eng. Office Ty 3 \$40,000, Remove existing pavement –Grade to Drain and Grass \$50,000	\$ 110,000
SUBTOTAL:C-6	

ESTIMATE SUMMARY

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY	\$	181,720
B. REIMBURSABLE UTILITIES (Cherokee Co. has signed LGPA.)	\$	0
C. CONSTRUCTION		
1. MAJOR STRUCTURES	\$	977,451
2. GRADING AND DRAINAGE	\$	1,999,950
3. BASE AND PAVING	\$	231,748
4. LUMP ITEMS	\$	278,700
5. MISCELLANEOUS	\$	57,500
6. SPECIAL FEATURES	\$	110,000
SUBTOTAL CONSTRUCTION COST		\$ 3,655,349
E. & C. (10%)		\$ 403,003
INFLATION (5% PER YEAR)		
NUMBER OF YEARS	2	\$ 374,674
TOTAL CONSTRUCTION COST		\$ 4,433,026
GRAND TOTAL PROJECT COST		\$ 4,614,746

PRELIMINARY COST ESTIMATE
(Bridge Widening)

DATE: January 28, 2003 PREPARED BY: Parsons Brinckerhoff

PROJECT NO.: BRST-012-1 (111) Cherokee County

P.I. NO.: 632900-

LENGTH: 0.448mi./2370 ft.

PROJECT DESCRIPTION: SR 20 over the Etowah River bridge widening - Proposed bridge length of 364 ft and 17.65 feet of widening (8.825' symmetrical widening on each side).

PROPOSED CONCEPT: Two 12'-0" travel lanes with 10'-0" shoulders (6'-6" Paved). Traffic will be maintained on the existing facilities while the bridge and approaches are widened.

EXISTING ROADWAY: STATE ROUTE 20

TRAFFIC: Existing: 9600 ADT (2006) Design: 14300 ADT (2026)

() PROGRAMMING PROCESS (x) CONCEPT DEVEL. () DURING PROJ DEVEL.

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (R/W & EASEMENT) 1.5 acre R/W@\$20,000/Ac.	\$ 30,000
2. DISPLACEMENTS:.	
3. OTHER COST (ADM./COST, INFLATION)	\$ 15,000
SUBTOTAL:A	\$ 45,000
B. REIMBURSABLE UTILITIES:	
1. RAILROAD	\$ 0
2. TRANSMISSION LINES (RELOCATE CABEL TV & PHONE LINES- Estimated Non-Reimbursable Cost \$20,000)	\$ 0
3. SERVICES (Cherokee County signed LGPA 7-27-99 – Estimated Non-Reimbursable Cost \$178,050 for 2370' 16" water line @\$65 & 2 FH @\$2000)	\$ 0
SUBTOTAL:B	\$ 0
C. CONSTRUCTION:	
1. MAJOR STRUCTURES	
a. OVERPASSES – Bridge over Etowah River (17'-10"x 364')@\$94/Sq.Ft	\$ 609,900
b. APPROACH SLAB – 126 SY @\$90/SY 4 each spillways @\$1200 ea	\$ 16,140
SUBTOTAL:C-1	\$ 626,040
2. GRADING AND DRAINAGE:	
a. EARTHWORK -- 11,000 CY(Mainline) Rock Embankment @\$23.15/cy-Mainline	\$ 854,650

PROJECT COST	
Unclassified Excavation 60,000 CY @ \$10.00/CY	
b. DRAINAGE:	
1) CROSS DRAIN PIPE	\$ 5,000
2) LONGITUDINAL PIPE	\$
3) CATCH BASINS	\$
SUBTOTAL:C-2	\$ 859,650
3. BASE AND PAVING:	
a. AGGREGATE BASE Mainline 200 sy @12" & 2890sy @ 6"= @\$9.00 & \$5.5	\$ 17,695
b. ASPHALT PAVING: SURFACE – Mainline 695 TN-@\$45/TN	\$ 31,275
BINDER – Mainline 424- TN@\$40	\$ \$ 16,960
BASE – Mainline 350 TN @\$40	\$ 14,000
SUBTOTAL:C-3.b	\$ 62,235
c. CONCRETE PAVING	
d. OTHER Bituminous Tack Coat 457 Gals.@ \$1.00/Gal	\$ 457
SUBTOTAL:C-3	\$ 80,387
4. LUMP ITEMS:	
a. GRASSING – 4 acres @ \$2000/ac	\$ 8,000
b. CLEARING AND GRUBBING - 2 acres @ \$2000/ac	\$ 4,000
c. LANDSCAPING	\$
d. EROSION CONTROL- Silt fence type A 4000 LF @\$3.10/LF, Silt fence type C 1000 LF @\$4.80/LF, Floating silt fence 600 ft. @ \$12/LF	\$ 24,400
e. TRAFFIC CONTROL	\$ 50,000
SUBTOTAL:C-4	\$ 86,400
5. MISCELLANEOUS:	
a. LIGHTING - NONE	\$
b. SIGNING - MARKING	\$ 8,000
c. GUARDRAIL – 1500 LF @ \$15/LF, 4 ea Type 12 or 1 anch @ \$1700/ea	\$ 29,300
d. CURB & GUTTER	\$
SUBTOTAL:C-5	\$ 37,300
6. SPECIAL FEATURES- Rem. Exist. Bridge Rail @\$7/sq.ft-\$12,000; Field Eng. Office Ty 3 \$40,000	\$ 62,000

PROJECT COST	
SUBTOTAL: C-6	

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY	\$ 45,000	
B. REIMBURSABLE UTILITIES (Henry Co. has not signed LGPA.)	\$ 0	
C. CONSTRUCTION		
1. MAJOR STRUCTURES	\$ 626,040	
2. GRADING AND DRAINAGE	\$ 859,650	
3. BASE AND PAVING	\$ 80,387	
4. LUMP ITEMS	\$ 86,400	
5. MISCELLANEOUS	\$ 37,300	
6. SPECIAL FEATURES	\$ 62,000	
SUBTOTAL CONSTRUCTION COST		\$ 1,751,777
E. & C. (10%)		\$ 193,134
INFLATION (5% PER YEAR)		
NUMBER OF YEARS	2	\$ 179,558
TOTAL CONSTRUCTION COST		\$ 2,124,469
GRAND TOTAL PROJECT COST		\$ 2,169,469

NEED AND PURPOSE
PROJECT BRST-012-1(111), CHEROKEE COUNTY
PI No. 632900

BRIDGE REPLACEMENT

Bridge project BRST-012-1(111) will replace the structurally deficient bridge located on State Road (SR) 20 over Etowah River, 4.5 miles west of the city of Canton.

This bridge was built in 1950 and consists of concrete bents, steel beam superstructure, and a concrete deck. The original design load capacity is H-15. The sufficiency rating on the structure is 61.0, and the bridge is classified as Functionally Obsolete and requires widening. However, in accordance with DOT policy 2405-1, we recommend that this bridge be replaced though due to unacceptable load capacity. This project will replace the existing bridge with a structurally adequate bridge.

This section of SR 20 is classified as a Rural Minor Arterial, is a designated school bus route and is not on a bike route. The posted speed limit along this section of SR 20 is 55 mph. The Average Daily Traffic (ADT) was 8,400 vehicles in 1998 with 13 percent trucks. The projected traffic for 2006 for this section of roadway is 9,600 ADT and for 2026 is 14,300 ADT.

There are no other projects within the immediate project area that are in the Department's long-range Construction Work Program.

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



**Parsons
Brinckerhoff**

3340 Peachtree Road, NE
Suite 2400, Tower Place
Atlanta, GA 30326-1001
404-237-2115
Fax 404-237-3015

Memorandum of Meeting No. 1

Date: February 25, 2003

Date of Meeting: February 21, 2003

Project: BRST-012-1(111) Cherokee County
P. I. 632900

Purpose of Meeting: Concept Team meeting for the bridge replacement project in Cherokee County on S.R. 20 over the Etowah River approximately 4.5 miles west of Canton.

Meeting Location: District 6 Office located in Cartersville

Attendees: Honorable Calvin Hill, State Representative, District 16
Dewayne Comer, GDOT District 6 Preconstruction Engineer
Dennis Thompson, Cherokee County
Jim Shinall, Corps of Engineers
Erik Peterson, Corps of Engineers
Harlan Conley, GDOT District Location Engineer
Melissa Wesley, GDOT
Cary Rutledge, GDOT
Dee Corson, GDOT Traffic Operations
Jennifer Deems, GDOT Utilities
Stanley Horton, GDOT Utilities
Kenny Beckworth, GDOT
Mike Thomason, GDOT
Ron Cannady, ALLTEL
Ronnie Gallman, ALLTEL
Mike Wilkey, ADELPHIA
David Baggett, Service Resources Corp. (R/W)
Jim Graybeal, PBQD



Minutes of Meeting
February 21, 2003
Page 2

Distribution: Attendees
Kent Sager, GDOT District 6 Engineer
Ted Cashin, GDOT Office of Consultant Design
John Durand, PBQD
Geoff Donald, PBQD

Discussion:

1. Jim Graybeal provided copies of the Draft Concept Report to several attendees. He began the meeting as follows:
 - Stated that the meeting was a Concept Team Meeting for Project BRST-012-1 (111), Cherokee County, a bridge replacement on S.R. 20 over the Etowah River.
 - Conducted an introduction of all attendees and the company they represent.
 - Discussed the sign-in sheet with regards to distribution of the meeting minutes for their review, requested email address or phone number
 - Oriented attendees with directions and features shown on the Concept Layout.
 - He described each item listed in the Concept Report.
2. Jim indicated that several changes would be made to the Concept Report as listed below:
 - Functional Classification will be changed to a Rural Minor Arterial to match the GDOT Need and Purpose Statement.
 - The proposed maximum degree of curves would be shown in Radii instead of degrees.
 - Correct spelling under the section of Utility Involvement.
 - He indicated that he had checked with the GDOT traffic section concerning the additional zero shown in the 2026 design year traffic, it should be 14,300 not 143,000.
3. Jim discussed the 61.00 sufficiency rating and indicated the bridge would only qualify for widening using federal funds. This was the reason two cost estimates were provided, one for widening and one for replacement. He also indicated that the report contained a letter from GDOT Office of Maintenance recommending replacing the existing bridge.
4. Jim then requested comments from the attendees and received the following responses and comments:
 - The two representatives from the Corps of Engineers indicated that the new alignment and bridge to the north would encroach on the Corps property and flood plain. They indicated the new embankments would impact their water storage capacity.
 - The Corps indicated that endangered species may be present (Darters) in this area of the Etowah River.



- The Corps expressed interest in several ideas and improvements that could be addressed as a part of constructing the new bridge, these solutions could possibly help to offset the impacts associated with the Corps property.
 - a. Reconstruct the Boat Ramp driveway intersection at S.R. 20, to improve safety for the ingress and egress movements for both the eastbound and westbound traffic.
 - b. Investigate other possible improvements that could be implemented with the project to enhance the Boat Ramp parking area, i.e. Paving, Aggregate, Signing, Stripping, Garbage receptacles, others.
 - c. Investigate the possibility of Cherokee County retaining and maintaining the existing bridge structure to be utilized as a recreational "fishing pier".
 - d. Provide assistance to the Corps in developing a "logging drive" to unlock the Corps property on the northeast side of the proposed project.
- 5. The Corps indicated to Parsons Brinckerhoff that they would like to be contacted early on in the development of the environmental document.
- 6. The Corps also indicated they have leased a sand dredging operation to a Mr. Milton Blankenship who is the lease tenant operating a private commercial business to dredge the channel and sell the sand.
- 7. Dewayne Comer and Dennis Thompson would discuss with Cherokee County the possibility of maintaining the old bridge.
- 8. Harlan Conley indicated that the survey would require the Corps property to be tied to the U.S Corps of Engineer coordinate system as well as state plane coordinates.
- 9. Dennis Thompson representing Cherokee County indicated that the County is currently constructing an entrance to a cemetery near the west end of the proposed project. It was determined that the project would have no impact other than a possible pavement overlay.
- 10. The GDOT Area Engineer expressed concern over the proposed design with regards to the vertical tie-ins and superelevation transitions at the beginning and ending of the project tying back to the existing S.R. 20. He requested to make sure the staging plans were clearly defined and understandable on how this work could be accomplished. Also he indicated that the plans need to show how to handle the drainage between the alignments during construction.
- 11. The Alltel representatives indicated that they had telephone lines on the north side of the existing bridge that would be affected by the permanent relocation of the alignment and new bridge to the north. They asked the District Utility representative if they could get permission to temporarily attach the telephone line to the existing bridge during construction. Also Alltel



Minutes of Meeting
February 21, 2003
Page 4

will request through the District Utility Office to get hangers designed in the new bridge for future use. They also stated that they may explore the opportunity to bore under the Etowah River. The Corps indicated they would work with Alltel if they decided on this option.

12. The District Utility Office indicated that any request for hanger space on the new proposed bridge be sent to their office for submittal to the Bridge Office.
13. It was stated that Alltel may need to obtain a ARAP (Aquatic Resource Alteration Permit from Tennessee Department of Environment and Conservation, TVA River Watershed) permit before boring under the Etowah River.
14. A representative from Adelphia Cable Company was present and indicated his cable lines would follow Alltel.
15. David Baggett, a representative for the GDOT General Office Right of Way, indicated he would bring the potential Corps of Engineer tenant problem to the attention of the Right of Way office at GDOT.

The foregoing is my understanding of the topics discussed. If you have any corrections or comments, please fax them to me at 404-237-3015 on or before Friday March 14th. Thanks

Sincerely,

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.

Jim Graybeal
Supervising Engineer

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 057-0010-0

Cherokee

SUFF. RATING

61.00

Programming Data

201 Project No.: CORP OF ENG 1607-B
 202 Plans Available: 1
 249 Prop. Proj. No. BRST-012-1 (111)
 250 Approval Status: 0000
 251 P.I. No.: 632900-
 252 Contract Date: 02/01/2004
 260 Seismic No.: 00028
 75 Type Work: 34 1
 94 Bridge Imp. Cost \$ 526
 95 Roadway Imp. Cos \$ 63
 96 Total Imp Cost: \$ 768
 76 Imp. Length: 000575
 97 Imp. Year: 1990
 114 Future ADT: 015600 Year: 2019

Measurements

* 29 ADT: 010400 Year: 1999
 109 % Trucks: 8
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0100
 * 49 Structure Length: 364
 51 Br. Rwdy. Width: 23.80
 52 Deck Width: 29.60
 * 47 Tol. Horiz. Cl: 23.80
 50 Curb/Sdewlk Width: 2.20/2.20
 32 Approach Rdwy Width: 026
 * 229 Shoulder Width:
 Rear Lt: 2.00 Type: 8 Rt: 1.00
 Fwd Lt: 2.00 Type: 8 Rt: 2.00
 Pavement Width:
 Rear: 23.00 Type: 2
 Fwd: 24.00 Type: 2
 Intersection Rear: 0 Fwd: 0
 36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 1
 App. Rail End: 1
 53 Minimum Cl. Over: 99 ' 99 "
 Under: N 00 ' 00 "

Ratings

65 Inventory Rating Method: 2
 63 Inventory Rating Method: 2
 66 Inventory Type: 2 Rating: 24
 64 Operating Type: 2 Rating: 38
 231 Calculated Loads
 H-Modified: 20 0
 HS-Modified: 25 0
 Type 3: 26 0
 Type 3s2: 40 0
 Timber: 36 0
 Piggyback: 40 0
 261 H Inventory Rating: 15
 262 H Operating Rating: 21
 67 Structural Evaluation: 5
 58 Deck Condition: 7
 59 Superstructure Condition: 7
 * 227 Collision Damage: 0
 60A Substructure Condition: 6
 60B Scour Condition: 7
 60C Underwater Condition: 6
 71 Waterway Adequacy: 8
 61 Channel Protection Cond: 8
 68 Deck Geometry: 2
 69 Under-Clr. Horiz/Vert: N
 72 Appr. Alignment: 8
 62 Culvert: N

Hydraulic Data

215 Waterway Data
 Highwater Elev.: 0000.0 Year: 1900
 Avg. Streambed Elev.: 0000.0 Freq.: 00
 Drainage Area: 00000
 Area Of Opening: 000000
 113 Scour Critical: 6
 216 Water Depth: 21.0 Br. Height: 23.5
 222 Slope Protection: 1
 221 Spur Dikes Rear: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No. Barrels: 0
 Width: 0.00 Height: 0.00
 Length: 0 Apron: 0
 * 265 U/W Insp. Area: 1 Diver: WS

* 228 Min. Vertical Cl
 Act. Odm Dir: 99 ' 99 "
 Oppo. Dir: 99 ' 99 "
 Posted Odm. Dir: 00 ' 00 "
 Oppo. Dir: 00 ' 00 "
 55 Lateral Undercl. Rt: N 99.90
 56 Lateral Undercl. Lt: 0.00
 * 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
 39 Nav Vert Cl: 000 Horiz: 0000
 116 Nav Vert Cl Closed: 000
 245 Deck Thickness Main: 7.00
 Deck Thick Approach: 0.00
 246 Overlay Thickness: 0.00
 212 Year Last Painted: Sup: 1986 Sub: 0000

Posting Data

70 Bridge Posting Required: 5
 41 Struct Open, Posted, Cl: A
 * 103 Temporary Structure: 0
 232 Posted Loads H-Modified: 00
 HS-Modified: 00
 Type 3: 00
 Type 3s2: 00
 Timber: 00
 Piggyback: 00
 253 Notification Date 02/01/1901
 253 Fed Notify Date: 02/01/1901 0

* Location I.D. No.: 057-00020D-005.91E

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 057-0010-0

Cherokee

SUFF. RATING

61.00

Location & Geography

* Structure I.D.No.: 057-0010-0

200 Bridge Information: 07

* 6A Feature Int: ETOWAH RIVER

* 6B Critical Bridge: 0

* 7A Route Number Carried: SR00020

* 7B Facility Carried: SR 20

* 9 Location: 4.5 MI WEST OF CANTON

2 DOT District: 6

207 Year Photo: 1998

91 Inspection Frequency: 24 Date: 04/04/2000

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

92B Underwater Insp Freq: 60 Date: 05/25/1999

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

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1

Type: 3

Designation: 1

Number: 00020

Direction: 0

* 16 Latitude: 34-12.9 MMS Prefix: SR

* 17 Longitude: 84-33.9 MMS Suffix: 00 MP: 5.91

98 Border Bridge: 000 %Shared: 00

99 ID Number: 000000000000000

* 100 STRAHNET: 0

12 Base Highway Network: 0

13A LRS Inventory Route:

13B Sub Inventory Route:

* 101 Parallel Structure: N

* 102 Direction of Traffic: 2

* 264 Road Inventory Mile Post: 005.89

* 208 Inspection Area: 09 Initials: JMC

Engineer's Initial:

* Location I.D. No.: 057-00020D-005.91E

Signs & Attachments

* 104 Highway System: 0

* 26 Functional Classification: 06

* 204 Federal Route Type: F No.: 012-1

* 105 Federal Lands Highway:

* 110 Truck Route: 0

* 206 School Bus Route: 1

217 Benchmark Elevation: 0000.00

218 Datum: 0

19 Bypass Length: 06

20 Toll: 3

21 Maintenance: 01

22 Owner: 01

31 Design Load: 2

37 Historical Significance: 5

205 Congressional District: 09

27 Year Constructed: 1950

106 Year Reconstructed: 0000

33 Bridge Median: 0

34 Skew: 00

35 Stru'ed Flared: 0

38 Navigation Control: 0

213 Special Steel Design: 0

267 Type of Pair: 1

* 42 Type of Service on: 5

214 Movable Bridge: 0

203 Type Bridge: A-O-M-O

259 Pile Encasement: 3

43 Structure Type Main: 4 02

45 No. Spans Main: 004

44 Structure Type Appr: 0 00

46 No. Spans Appr: 0000

226 Bridge Curve Horz: 0 Vert: 0

111 Pier Protection: 0

107 Deck Structure Type: 1

108 Wearing Surface Type: 1

M 0
F 8

* 225 Expansion Joint Type: 04

242 Deck Drains: 1

243 Parapet Location: 0

Height: 0.00
Width: 0.00

238 Curb: 1.10 1

239 Handrail: 1 1

* 240 Median Barrier Rail: 0

241 Bridge Median Height: 0.00

Width: 0.00

* 230 Guardrail Loc Dir Rear: 3

Fwrd: 3
Oppo Dir Rear: 0
Fwrd: 0

244 Approach Slab: 3

224 Retaining Wall: 0

233 Posted Speed Limit: 55

236 Warning Sign: 0

234 Delineator: 1

235 Hazard Boards: 1

237 Utilities Gas: 00

W 31
Ele 00
Telephone: 00
Sk 00

247 Lighting Street: 0

Navigation: 0
Aerial: 0

* 248 County Continuity No.: 00

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-012-1(111) Cherokee
P.I. No. 632900

OFFICE Environment/ Location

DATE May 24, 2002

FROM Harvey D. Keeper, State Environmental/ Location Engineer

TO James B. Buchan, P.E., State Consultant Design Engineer

Attn: Ted Cashin

SUBJECT SR 20 @ Etowah River

We are furnishing estimated traffic assignments for the above project as follows:

Existing 1998 ADT = 8400
2006 ADT = 9600
2026 ADT = 14300~~X~~
K = 9%
D = 60%
T = 13%
24 HR T = 15%
S.U. = 6%
COMB. = 9%

If you have any questions concerning this information please contact
Teresa Williamson at (404)699-4458.

HDK:TJW

FLEXIBLE PAVEMENT DESIGN ANALYSIS

Project: BRST-012-1 (111)

County: Cherokee

P.I. no.: 632900

Description: Bridge Replacement on S.R. 20 over the Etowah River

Traffic Data (NOTE: AADTs are one-way)

24-hour Truck Percentage: 15.00%

AADT initial year of design period: 5,760 vpd (2006)

AADT final year of design period: 8,580 vpd (2026)

Mean AADT (one-way): 7,170 vpd

Design Loading

Mean AADT	LDF	Trucks	18-K ESAL	Total Daily Loads
7,170 *	1.00 *	0.150 *	1.06 =	1,141

Total predicted design period loading = $1141 * 20 * 365 = 8,329,300$

Design Data

Terminal Serviceability Index: 2.50

Soil Support: 2.50

Regional Factor: 2.00

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness mm	Thickness (in.)	Structural Coefficient	Structural Value
12.5 mm Superpave	38	(1.50)	0.0173	0.66
19 mm Superpave	50	(1.97)	0.0173	0.86
25 mm Superpave	26	(1.02)	0.0173	0.45
	199	(7.83)	0.0118	2.35
Graded Aggregate Base	300	(11.81)	0.0063	1.89

Required SN = 6.27

Proposed SN = 6.21

>>> Proposed pavement is 0.9% Underdesign <<<

Remarks: New Alignment with Full Depth Pavement and paved shoulders

Prepared by Jim Graybeal (PB)/Ted Cashin March 20, 2003
Date

Recommended State Materials & Research Engineer Date

Approved State Consultant Design Engineer Date

NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. BRST-012-1 (111) COUNTY

P.I. No. 632900-

Notice is hereby given in compliance with Georgia code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of Location Approval is: MAY 19, 2003

Project BRST-012-1 (111) is a bridge replacement project in Cherokee County. It is in the 1026TH GMD, 4.5 miles west of Canton on State Route 20 over the Etowah River. The total project length is approximately 3500 feet (0.663 miles), beginning at M.P. 5.543 and extending to M.P. 6.206. The purpose of this project is to replace a structurally deficient and functionally obsolete bridge on S.R. 20 over the Etowah River. 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:

Mike Thomason

Georgia Department of Transportation

Mike.Thomason@DOT.STATE.GA.US

874 Peebles Valley Road, NW

Cartersville, Ga. 30120

Tel. No. 770-387-3680

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

Georgia Department of Transportation

Ted.Cashin@DOT.STATE.GA.US

No. 2 Capitol Square

Atlanta, Georgia 30334

Tel. No. 404-463-6135

Any written request or communication in reference to this project or notice SHOULD include the PROJECT AND P.I. NUMBER AS NOTED AT THE TOP OF THIS NOTICE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

File OFFICE Planning
DATE January 7, 2003

FROM *Marta V. Rosen/cjc*
Marta V. Rosen, State Transportation Planning Administrator

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

SUBJECT PROJECT CONCEPT CONFORMITY - CERTIFICATION FOR CONCEPT REPORT -
Project BRST-012-1(111) Cherokee County, PI # 632900, ARC # CH 203, SR 20 over
the Etowah River, bridge replacement.

The Office of Planning is providing this letter of certification as defined in the Plan Development Process Manual of Guidance. The proposed project is in conformance with the adopted Air Quality Model of the Atlanta Regional Transportation Plan and the State Transportation Improvement Program.

By copy of this letter, the project concept is found to conform to the Atlanta Regional Transportation Plan based on the January 7, 2003, review. This project can not be open to traffic before July 1, 2005 to comply with ARC's network 2010. If any changes occur to the proposed concept, please notify this office immediately. If you have any questions, please call Roxana Ene at 404-463-4377.

MVR:rre

cc: Tom Turner

PI NUMBER PROJECT COUNTY DESCRIPTION

632900- CHEROKEE SR 20 @ ETOWAH RIVER 4.5 MI WEST OF CANTON
 BRST-012-1(111) US: PHASE DATE: PROPOSED: COST: STATUS: FUND: PDD LET DATE:
 PROJ MGR: Cashin, Ted PE 2002 2002 \$30,000 AUTHORIZED Q10 7/15/05
 PROG TYPE: Replacement ROW 2006 2004 \$15,000 PRECST Q10 SCHED LET:
 CONCEPT: BR REPL CST 2007 2006 \$2,000,000 PRECST Q10 3/25/05
 P.E. PROJECT: NN: REF PROJ: TWIN PROJ: EST DATE: 10/31/02
 LENGTH: C DIST: 9 FIELD DIST: 6 STATUS: TIP #: CH-203 UAC:

SCHED START	SCHED FINISH	ACTIVITY	START	FINISH	PCT	DISTRICT COMMENTS
10-Feb-03	07-Apr-03	DEFINE CONCEPT RPT: CONCEPT MEETING:	26-Nov-02		64	
25-Mar-03	07-Apr-03	FINAL CONCEPT:			0	
15-Apr-03	12-May-03	PRECST APPROVAL:			0	
12-May-03	12-May-03	MGT APPROV CPT REPORT:			0	
13-May-03	02-Sep-03	ENVIRONMENTAL:			0	
	26-Aug-03	SECURE 404 PERMIT:			0	
13-May-03	16-Jun-03	FIELD SURVEY:	26-Nov-02		0	
18-Jun-03	19-Aug-03	PREL ROADWAY PLANS:			68	
18-Jun-03	15-Jul-03	REVIEW PRELIM PLANS:			0	
09-Jul-03	19-Aug-03	PRELIM BRIDGE/HYDRÖ:			0	
20-Aug-03	16-Sep-03	REVIEW HYDRO:			0	
16-Sep-03	16-Sep-03	BRIDGE LAYOUT COMPLT:			0	
	12-Nov-03	PRELIM FPR HELD:			0	
25-Dec-03	30-Dec-03	APPRV RW PLANS:			0	MILESTONES
11-Dec-03	07-Jan-04	FINAL SOIL SURVEY:			0	NTP: 26-Nov-02
08-Jan-04	21-Jan-04	REVIEW SOIL SURVEY:			0	RECEIVE TRAFFIC: 04-Jun-02
09-Dec-03	05-Jan-04	FINAL BFI:			0	UTILS 1ST SUBM:
06-Jan-04	19-Jan-04	REVIEW BFI:			0	RECEIVE PSS:
22-Jan-04	04-Feb-04	PAVEMENT DESIGN:			0	RECEIVE P.B.F.I.
30-Mar-04	24-May-04	FINAL CST PLANS:			0	PFPR REPORT:
03-Feb-04	29-Mar-04	BRIDGE PLANS:			0	PFPR RESPONSE:
30-Mar-04	26-Apr-04	REVIEW BRIDGE PLANS:			0	UTILS 2ND SUBM:
	08-Jun-04	FINAL FPR HELD:			0	SUBMIT FINALS:
		U.S.T.s:			0	

BIKE PROVISIONS INCLUDED?: N MEASUREMENT SYSTEM: E CONSULTANT: C UT EST: 0
 PDD : APRIL BOARD ADD: ASSIGNED OCD 4/30/99. Need Concept. COORD W/NEW VET CEMETERY. 9/13/00. No activity. 9/1 1/02.
 PLANNING: NETWORK ANALYSIS YR 2010
 DZN CMT: PBQD-07; BR CROSSES ALLATOONA; CONCEPT MTG SOON
 UTIL CMT:
 LGPA: CHEROKEE SGN UTILITIES 7-27-99. ROW:
 LOC CMT: BRIDGE RR:
 EIS: ZBIDA|TW|CONS TASK FORCE | AA | ELSTON PITS:
 404: CONSULTANT TASK FORCE; NW 23 EXPECTED UST CMT:
 TS: CAH|BR REPL PRJCT|S&M PLNS N/R| BR CMT:

R/W INFORMATION: PARCELS: UNDER REVIEW: RELEASED: DEEDS: RW CERTIFICATION:
 APPRAISED: OPTS PEND: CONDEMNATIONS FILED: PENDING:



Department of Transportation State of Georgia

J. TOM COLEMAN, JR.
COMMISSIONER
(404) 656-5206

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

HAROLD E. LINNENKOHL
DEPUTY COMMISSIONER
(404) 656-5212

EAR MAHFUZ
TREASURER
(404) 656-5224

INTERDEPARTMENT CORRESPONDENCE

May 22, 2002

FROM: Buddy Gratton, P.E., State Maintenance Engineer

TO: Ted Cashin, Office of Consultant Design

SUBJECT: Bridge Replacement

**BRST-012-1(111) / Cherokee
Structure ID 057-0010-0
Location ID 057-00020D-005.91E
SR 20 over Etowah River**

This bridge was built in 1950 and consists of concrete bents, steel beam superstructure, and a concrete deck. The original design load capacity is H-15. The sufficiency rating on the structure is 61.0, and the bridge is classified as Functionally Obsolete and requires widening. However, in accordance with DOT policy 2405-1, we recommend that this bridge be replaced though due to unacceptable load capacity. Due to this criteria, no additional cost analysis or coring by the lab will be required. This bridge does not currently qualify for federal replacement BR funding but does qualify for federal bridge widening funds, which can be used toward replacement up to the estimated cost of widening. The remaining funds would have to come from another funding source.

If further information is required, please contact Brian Summers at (404) 635-8179.

BG/BKS

cc: Percy Middlebrooks

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-012-1 (111)

County: CHEROKEE

P. I. Number: 632900-

Federal Route Number: N/A

State Route Number: 20

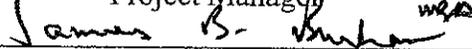
Recommendation for approval:

DATE 4-18-2003

DATE 4-21-2003



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 Plan (RTP) and/or the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

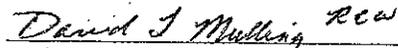
DATE _____

State Traffic Safety and Design Engineer

DATE _____

District 6 Engineer, Cartersville

DATE 4/29/03


Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

Page 1

Project Concept Report page 1

Project Number: BRST-012-1 (111) Cherokee County

P. I. Number: 632900-

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-012-1 (111)

County: CHEROKEE

P. I. Number: 632900-

Federal Route Number: N/A

State Route Number: 20

- Recommendation for approval:

DATE 4-18-2003

DATE 4-21-2003



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 Plan (RTP) and/or the State Transportation Improvement Program (STIP).

DATE 4/29/03


State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District 6 Engineer, Cartersville

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

Page 1

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

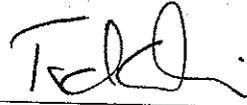
Project Number: BRST-012-1 (111)
County: CHEROKEE
P. I. Number: 632900-

Federal Route Number: N/A
State Route Number: 20

Recommendation for approval:

DATE 4-18-2003

DATE 4-21-2003



Project Manager
James B. Buchanan

State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 4/29/03

Keith [Signature]

District 6 Engineer, Cartersville

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-012-1 (111)

County: CHEROKEE

P. I. Number: 632900-

Federal Route Number: N/A

State Route Number: 20

Recommendation for approval:

DATE 4-18-2003

DATE 4-21-2003



Project Manager

James B. Burhan
State Consultant Design Engineer

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

DATE _____

DATE 4-24-03

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

State Transportation Planning Administrator

Percy B. Middlebrooks Jr.
Office of Financial Management Administrator

State Environmental/Location Engineer

State Traffic Safety and Design Engineer

District 6 Engineer, Cartersville

Project Review Engineer

State Bridge and Structural Design Engineer

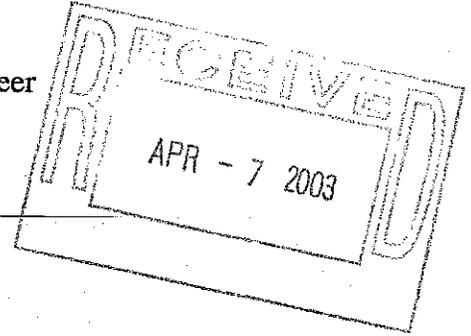
Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRST-012-1(111), Cherokee County
P.I. No. 632900

Office: Traffic Safety & Design
Atlanta, Georgia
Date: April 30, 2003

From: ^{PMA/sz} Phillip M. Allen, State Traffic Safety and Design Engineer
To: Meg Pirkle, Assistant Director of Preconstruction
Subject: Project Concept Report Review



We have reviewed the above referenced concept report for the proposed bridge replacement on State Route 20 over the Etowah River in Cherokee County.

The Office of Traffic Safety & Design finds this report satisfactory for approval because it will improve safety and traffic operations within this area.

PMA/sz

Attachment (signature page)

Cc: Harvey Keepler, State Environment/Location Engineer
James B. Buchan, State Consultant Design Engineer
Attention: Ted Cashin
Kent L. Sager, District Engineer
Attention: William M. Darby, District 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
Office Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

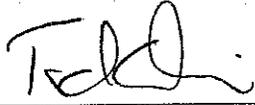
Project Number: BRST-012-1 (111)
County: CHEROKEE
P. I. Number: 632900-

Federal Route Number: N/A
State Route Number: 20

Recommendation for approval:

DATE 4-18-2003

DATE 4-21-2003



Project Manager
James B. Buchanan WSA

State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

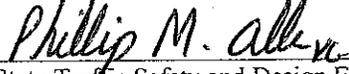
DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE 5/2/03



State Traffic Safety and Design Engineer

DATE _____

District 6 Engineer, Cartersville

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
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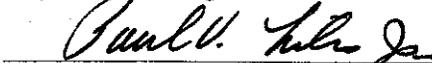
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District 6 Engineer, Cartersville

DATE _____

Project Review Engineer

DATE 5/15/03



State Bridge and Structural Design Engineer