

July 13, 2001

State of Georgia
Department of Transportation

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

RECEIVED
NOV 29 2001

FILE *BHF-001-6(43), Catoosa County*

P.I. Number 631505

OFFICE: *Atlanta*

DATE: *July 13, 2001*

FROM:

for
James R. Chambers, P.E. Consultant Design Office

TO:

Wayne Hutto, Assistant Director of Preconstruction

SUBJECT:

Revised Project Concept Report

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

The approved bridge, four lanes with median, was moved to long range. The existing bridge deck and handrail require immediate replacement. The revised bridge will consist of two 12-foot lanes with bike lanes and sidewalks.

The revised concept as presented herein 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

8/29/01

Wayne V. Hutto

State Transportation Planning Administrator

Distribution:

*Project Review Engineer
State Environmental/Location Engineer
State Traffic Operations Engineer
State Transportation Planning Administrator
State Transportation Programming Engineer
District 6 Engineer
State Bridge Design Engineer*

July 16, 2001

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Revised Project Concept Report

Project Number: BHF-001-6(43)

P.I. Number: 631505

REVISED PROJECT CONCEPT REPORT

Need and Purpose:

Project No. BHF-001-6(43) will replace the structurally deficient bridge deck and handrails located on SR 2/US 41 over South Chickamauga Creek.

The South Chickamauga Creek Bridge sufficiency rating is 75.6; however, the deck and handrails require immediate replacement due to chloride contamination.

State Road 2/US 41 is functionally classified as a urban minor arterial roadway. The posted speed limit along SR 2/US 41 is 45 mph westbound and 35 mph eastbound into the City of Ringgold. SR 2/US 41 is part of the Statewide Bicycle Plan and bike lanes will be provided on the bridge. The South Chickamauga Creek Bridge is located in West Ringgold and was constructed in 1955. Sidewalks are proposed on the bridge. The projected Average Daily Traffic (ADT) along this section of roadway for 2007 is 17,500 with 8% trucks. The projected 2027 ADT for this section of roadway is 28,000. The bridge is not located on the National Highway System (NHS). Replacing the bridge deck and handrails and providing sidewalks and bike lanes will bring it up to current design standards and in doing so will improve the operation and safety of this roadway.

Project Location:

The proposed project is located in Catoosa County on SR 2/US 41 over South Chickamauga Creek in West Ringgold.

Description of the Approved Concept:

This project is proposed to widen the existing 30 foot wide bridge to 83 feet (24.9 m). The proposed typical section would consist of four 12 foot lanes with a 20 foot raised median, curb and gutter and 5 foot sidewalks. The proposed roadway will be widened to full width for 200 feet on the north end and taper back into the existing 2 lane section. The south end will be widened full width to the SR 151 intersection and taper back into the existing 2 lane section.

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Revised Project Concept Report

Project Number: BHF-001-6(43)

P.I. Number: 631505

PDP Classification: *Minor*

Full Oversight (), Exempt (X), SF (), Other ()

Functional Classification: *Urban Minor Arterial*

U.S. Route Number(s): 41

State Route Number(s): 2

Traffic (AADT) as Shown on the Approved Concept:

Current Year (1999): 15,900 Design Year (2019): 25,500

Proposed Features to be Revised:

- 1) *The approved typical section is a divided urban arterial with four 12 foot lanes with a 20 foot raised median and 5 foot sidewalks.*
- 2) *The approved concept for the project has SR 2 being widened full width (4 lane with 20 foot median) for 200 feet north of the bridge and 800 feet south to SR 151. The gross length of the project including the tie-in tapers is 0.42 miles.*
- 3) *The approved concept was prepared in metric units.*

Describe the Revised Feature(s) to be Approved:

- 1) *The revised bridge will be widened to the high side of superelevation for a total width of 48 feet. The proposed bridge section will consist of two 12 foot lanes, two 6 foot bike lanes (includes 2 foot gutter for each bike lane) and two 6 foot sidewalks. The existing bridge deck will be replaced. The existing substructure and superstructure will be retained. The existing low beam elevation will provide 0.42 feet of free board (1.00 ft. min.) above 100 year storm; however, this alternate will provide the most economical and functional bridge. The centerline of the proposed bridge will shift approximately 8 feet from the existing centerline.*
- 2) *The proposed two lane alignment will tie-in 360 feet north the bridge and 460 feet south of the bridge. The revised gross length of the project is 0.22 miles.*
- 3) *This project will be prepared in English units.*

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Revised Project Concept Report

Project Number: BHF-001-6(43)

P.I. Number: 631505

Updated Traffic Data (AADT):

Current Year (2007): 17,500 Design Year (2027): 28,000

Programmed / Schedule:

P.E. 1996 R/W: 2004 Construction: LR

Revised Cost Estimates:

1. Construction Cost, including inflation and E&C,
2. Right-of-Way, and
3. Utilities

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

Recommendation: *Recommend that the proposed revision to the concept be approved for implementation.*

Attachments:

1. Sketch Map,
2. Cost Estimate,
3. Other supporting documents.

Exempt Projects

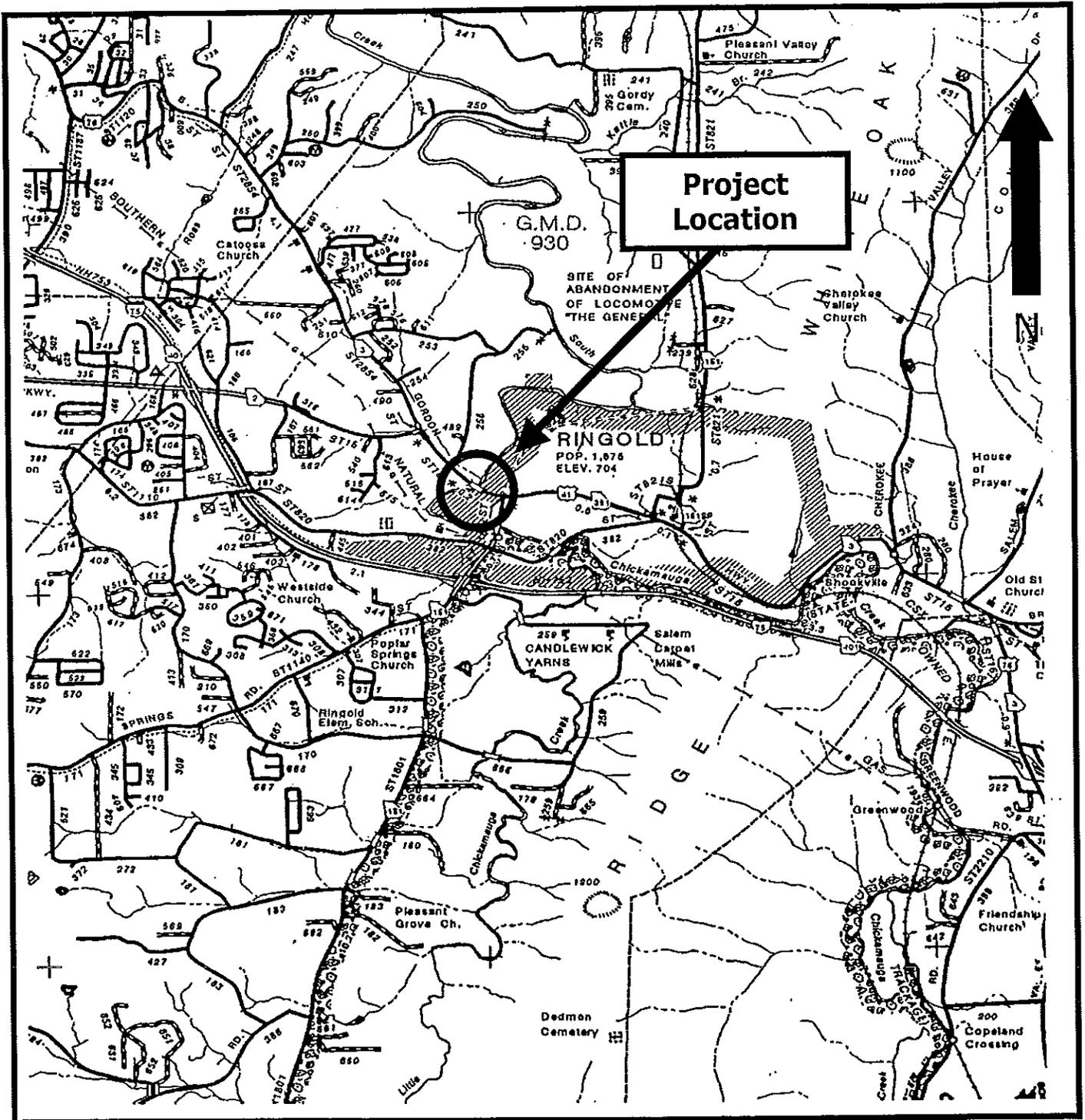
Concur:

Thomas L. Linn
Director of Preconstruction

Approve:

[Signature]
Chief Engineer

PROJECT LOCATION MAP



Project No. BHF-001-6(43), P.I. No. 631505
SR 2/US 41 over South Chickamauga Creek
Catoosa County

REVISED
PRELIMINARY COST ESTIMATE

PROJECT NUMBER: BHF-001-6(43)

COUNTY: Catoosa

DATE:

ESTIMATED LETTING DATE:

PREPARED BY: PBS&J

PROJECT LENGTH: 0.22 miles

PROGRAMMING
 PROCESS

CONCEPT
 DEVELOPMENT

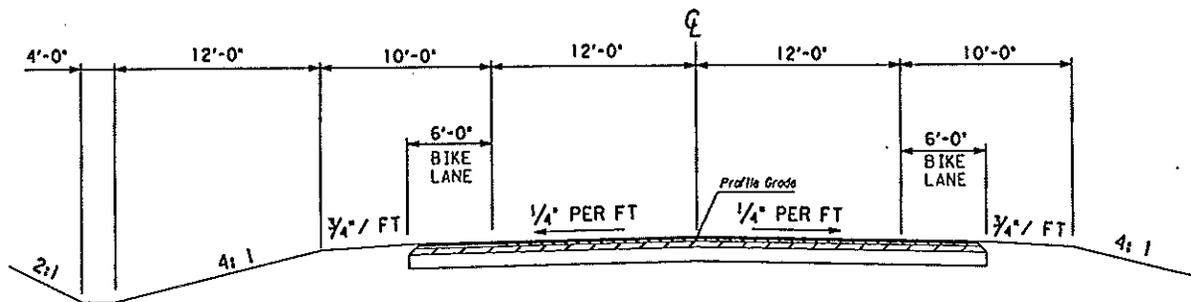
DURING PROJECT
 DEVELOPMENT

<u>PROJECT COST</u>	
A. RIGHT-OF-WAY: (LGPA)	
1. PROPERTY (LAND AND EASEMENT)	\$0.00
2. DISPLACEMENTS (RES:0, BUS:0, MH:0)	\$0.00
3. OTHER COST (ADM./COST, INFLATION)	\$0.00
SUBTOTAL A:	\$0.00
B. REIMBURSABLE UTILITIES: (LGPA)	
1. RAILROAD	\$0.00
2. TRANSMISSION LINES	\$0.00
3. SERVICES	\$0.00
SUBTOTAL B:	\$0.00
CONSTRUCTION	
C. MAJOR STRUCTURES:	
1. RETAINING WALLS	\$0.00
2. BRIDGES (350' x 48')	\$1,500,000.00
3. DETOUR BRIDGES	\$0.00
4. EXTEND EXISTING CULVERTS	\$0.00
SUBTOTAL C:	\$1,500,000.00
D. GRADING AND DRAINAGE	
1. EARTHWORK	

a. BORROW: (4,000 cy @ \$6.00)	\$24,000.00
b. EXCAVATION: (1,000 cy @ \$4.00)	\$4,000.00
SUBTOTAL D-1:	\$28,000.00
2. DRAINAGE	
a. STORM DRAIN PIPE (160 ft of 15 in @ \$20)	\$3,200.00
b. CATCH BASIN (4 EACH @ \$1200)	\$4,800.00
SUBTOTAL D-2:	\$8,000.00
SUBTOTAL D:	\$36,000.00
E. BASE AND PAVING	
1. AGGREGATE BASE (25 sy of 8" @ \$8)	\$200.00
2. SURFACE AGGREGATE (50 tons @ \$15)	\$750.00
3. ASPHALT PAVING	
a. SURFACE (280 tons @ \$35)	\$9,800.00
b. BINDER (30 tons @ \$40)	\$1,200.00
c. BASE (60 tons @ \$42)	\$2,520.00
d. LEVELING (25 tons @ \$36)	\$900.00
e. TACK COAT (300 gals @ \$1)	\$300.00
SUBTOTAL E-3:	\$14,720.00
4. CONCRETE PAVING - APPROACH SLABS (337 sy @ \$90)	\$30,330.00
SUBTOTAL E:	\$46,000.00
F. LUMP ITEMS:	
1. TRAFFIC CONTROL	\$25,000.00
2. CLEARING AND GRUBBING	\$5,000.00
3. GRASSING	\$2,500.00
4. EROSION CONTROL	\$2,500.00
5. TEMP. EROSION CONTROL	\$5,000.00
SUBTOTAL F:	\$40,000.00
G. MISCELLANEOUS:	
1. SIGNING	
a. SIGNS	\$1,000.00
b. POSTS	\$500.00
SUBTOTAL G-1:	\$1,500.00
2. STRIPING	
a. 5 IN WHITE SOLID (2400 ft @ \$0.50)	\$1,200.00
b. 5 IN YELLOW SOLID (2400 ft @ \$0.50)	\$1,200.00
SUBTOTAL G-2:	\$2,400.00

3. GUARDRAIL	
a. TYPE W (600 ft @ \$12)	\$7,200.00
b. TYPE T (84 ft @ \$35)	\$2,940.00
c. TYPE 12 ANCHORS (2 @ \$1600)	\$3,200.00
d. TYPE 1 ANCHORS (2 @ \$450)	\$900.00
SUBTOTAL G-3:	\$14,240.00
SUBTOTAL G:	\$18,140.00
SUBTOTAL :	\$1,640,140.00

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY		\$0.00
B. REIMBURSABLE UTILITIES		\$0.00
CONSTRUCTION		
C. MAJOR STRUCTURES	\$1,500,000.00	
D. GRADING AND DRAINAGE	\$36,000.00	
E. BASE AND PAVING	\$46,000.00	
F. LUMP ITEMS	\$40,000.00	
G. MISCELLANEOUS	\$18,140.00	
SUBTOTAL CONSTRUCTION COST:	\$1,640,140.00	
E. & C. (10%)	164,140.00	
INFLATION (5% PER YEAR, 2 YEARS)	\$184,939.00	
TOTAL CONSTRUCTION COST		\$1,989,219.00
GRAND TOTAL PROJECT COST		\$1,989,219.00



TYPICAL SECTION

**SR 2 /US 41 OVER
SOUTH CHICKAMAUGA CREEK
PROJECT NO. BHF-001-6(43)
P.I. NO. 631505
CATOOSA CO.**

Concept Team Meeting Minutes

Project: BHF-001-6 (43)

Date: July 5, 2001

On June 29, 2001 at 9:00 a.m., a project team concept meeting was held at the project site in Ringgold, Georgia to review the concept report for project numbers BHF-001-6 (43). The following were in attendance:

GDOT

Jim Callaway, Catoosa County
Dan Wright, City of Ringgold
Royce Turner (Dist. Utilities)
Michael Long (DOT T.O.)
Kathy Spradley (Dist. 6 Env.)
Steve Sanders (Dist. 6 T.O.)
Harlan Conley (DOT Location)

PBS&J

Mickey Michalski
Holmes Clements
Ron Morris

Ron Morris presented the project and the following comments were made:

Project No. BHF-001-6 (43), Catoosa County, SR 2/ US41 over South Chickamauga Creek

- The project was approved with no comments except that Mr. Steve Sanders of District 6 Traffic Operations needed a few days to review the bridge staging plan.
- Mr. Dan Wright, City of Ringgold, requested that sidewalk be provided along the west side from the bridge to SR 151 (800' ± South) and to Battlefield Parkway (2600' ± North).
- On July 6, 2001, Mr. Mickey Michalski called Mr. Steve Sanders, District 6 Traffic Operations, to request any additional comments concerning the bridge staging plan. Mr. Sanders stated that he and his office had reviewed the bridge staging plan and determine it to be acceptable if a speed reduction to 35 mph could be provided. Mr. Michalski informed Mr. Sanders that the posted speed limit along SR2/US41 is 45mph westbound and 35 mph eastbound into the City of Ringgold. Mr. Sanders stated that he approved the staging plan.

Project Meeting Minutes
Project No. BHF-001-6 (43)
July 5, 2001
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- Per e-mail comment on June 27, 2001 from Mr. Ted Cashin of Consultant Design, revise the bridge sufficiency rating from 77.7 to 75.6.

