

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRN-023-2(10) Coffee County **OFFICE** Preconstruction
P. I. No. 422250 **DATE** October 20, 1999
CW Hutto
FROM 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

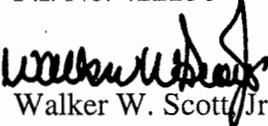
DISTRIBUTION:

Walker Scott
David Mulling
David Studstill (ATTN: Harvey Keeper)
Jerry Hobbs
Herman Griffin
Georgene Geary (ATTN: Michael Henry)
Marion Waters
Marta Rosen
Paul Liles
Don Mills
David Crim

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRN-023-2(10) Coffee County **OFFICE** Preconstruction
P.I. No. 422250
DATE September 14, 1999

FROM  Walker W. Scott, Jr., P.E., Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a structurally and functionally obsolete bridge on US 441/SR 31 over Mill Creek, 10.0 miles north of Broxton, Georgia. The existing bridge, constructed in 1935, is in poor condition with advance section loss, deterioration, spalling and scour. The bridge replacement project is a part of the improvements needed to widen US 441/SR 31, which is part of the Governor's Road Improvement Program (GRIP), project EDS-441(27). The bridge portion of the project is being accelerated because the structural deficiencies pose a significant safety hazard to the traveling public. The sufficiency rating of the Mill Creek Bridge is 6.0. The existing approaches consist of two, 12' lanes with rural shoulders on a variable 100'-200' of existing right-of-way. Base year traffic (2005) for this project is 3,400 VPD and the design year (2025) projection is 5,400 VPD. State Route 31/US 441 is classified as a rural arterial and is posted at 55 MPH. The proposed design speed is 55 MPH.

The construction proposes to replace the existing bridge over Mill Creek with a new 170' x 43' concrete structure on new alignment 68' east of the existing bridge structure. This will provide for the future widening of SR 31 to four lane with a 44' median. The length of the proposed bridge will be 10' longer to allow animal passage on both sides of the stream. The proposed roadway approaches will begin approximately 2,600' south of Mill Creek (MP 27.54) and end approximately 1,600' north of Mill Creek (MP 28.33). The typical section will consist of two, 12' lanes on a minimum of 250' of proposed right-of-way. State Route 107 would be relocated to tie into the temporary roadway. Traffic will be maintained on the existing roadway during construction.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion with a programmatic 4(f) will be prepared; a public hearing is not required; time saving procedures are appropriate.

BRN-023-2(10) Coffee
September 14, 1999

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) | \$1,954,000 | \$600,000 | 2000 | 00-03 |
| Right-of-Way | \$ 125,000 | \$ 10,000 | | |
| Utilities* | LGPA | LGPA | | |

*Coffee County signed LGPA on 2-3-89 for utilities.

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

WWS:JDQ/cj

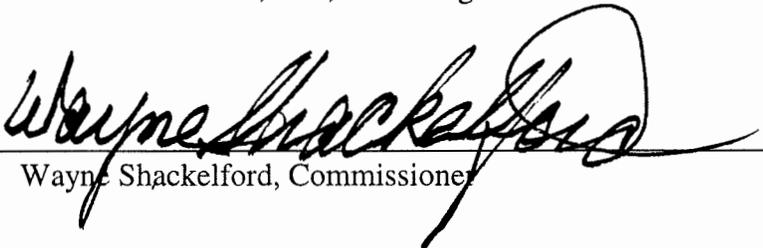
Attachment

CONCUR



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

APPROVE



Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRN-023-2(10) Coffee
P.I. Number 422250

OFFICE: Atlanta, Georgia

DATE: September 3, 1999

FROM: David Mulling, Project Review Engineer *DTM*

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT

We have reviewed the concept report submitted September 1, 1999 by the letter from David Studstill dated August 31, 1999, and have the following comments:

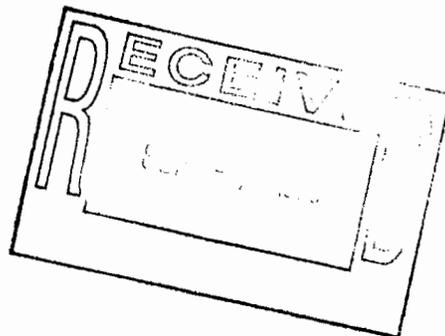
1. The concept report incorrectly shows the project as "CA". The project should be "Exempt".
2. The use of bridge replacement funds for roadway approaches is restricted to a reasonable tie-in to existing roadway using prevailing speed limit and minimum design criteria. See Topps Directive 4118 for guidance.

The costs for the project are:

| | |
|-------------------------|-------------|
| Construction | \$1,547,000 |
| Inflation | \$ 155,000 |
| E&C | \$ 174,000 |
| Preliminary Engineering | \$ 78,000 |
| Reimbursable Utilities | \$? (LGPA) |
| Right of Way | \$ 125,000 |

DTM

c: David Studstill



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT
BRN-023-2(10)
COFFEE COUNTY
P.I. NO. 422250

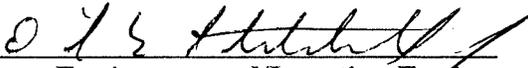
US Route No.: 441

Date of Report: August 11, 1999

State Route No.: 31

RECOMMENDATION FOR APPROVAL

8/27/99
Date


State Environmental/Location Engineer

Date

State Road Design Engineer

Date

State Traffic Operations Engineer

Date

District Engineer/Tifton

Date

Project Review Engineer

Date

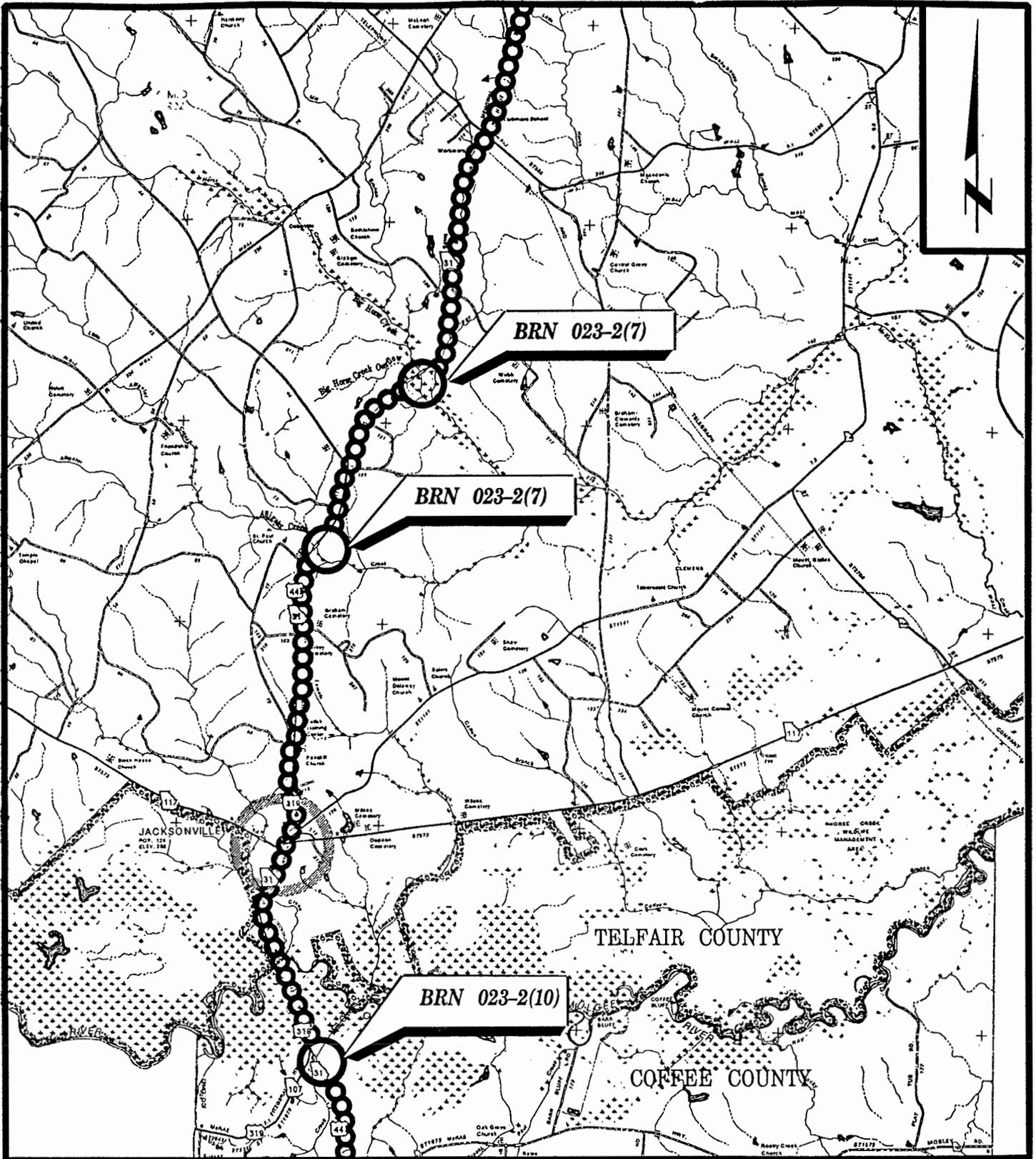
State Bridge & Structural Engineer

Date

State Transportation Planning Administrator

Date

State Transportation Programming Administrator



LOCATION

STRIPMAP

BRN 023-2(10) & BRN 023-2(7)
 BRIDGE REPLACEMENT PROJECTS
 COFFEE, TELFAIR COUNTIES
 P.I.# 422250 & 521570

SOURCE: GENERAL HIGHWAY MAP, COFFEE/TELFAR COUNTIES, GEORGIA
 PREPARED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION, 1996, 1993.

PROJECT CONCEPT REPORT

PROJECT LOCATION AND DESCRIPTION

Project BRN-023-2(10), Coffee County proposes to replace the existing bridge along S.R. 31 over Mill Creek, which is located 400 feet south of the intersection of U.S. 319/S.R. 107. The existing bridge has a sufficiency rating of 6.0.

The project would consist of constructing a new parallel bridge and approximately 4000 feet of two-lane roadway approaches to tie existing S.R. 31 to the new bridge. The new bridge is proposed to be located parallel and east of the existing bridge. The centerline of the new bridge is proposed to be located 68 feet east of the existing bridge centerline. This distance provides for the future widening of S.R. 31 to 4-lanes with a 44' median. The length of the proposed bridge would be 10 foot longer to allow animal passage on both sides of the stream. The proposed roadway approaches would begin approximately 2600 feet south of Mill Creek, mile point 27.54, and end approximately 1600 feet north of Mill Creek, mile point 28.33. Existing right of way varies from 100 feet to 200 feet and the proposed right of way would be a minimum of 250 feet. S.R. 107 would be relocated to tie into the temporary roadway.

TRAFFIC

CURRENT

PROJECTED

| YEAR | AADT | YEAR | AADT |
|------|-------|------|-------|
| 2005 | 3,400 | 2025 | 5,400 |

PDP CLASSIFICATION

FUNCTIONAL CLASSIFICATION

~~MAJOR~~
MINOR

RURAL ARTERIAL

| | | | |
|------------|--------|------------|--------|
| NON-CA () | CA () | EXEMPT (X) | SF () |
|------------|--------|------------|--------|

NEED AND PURPOSE

The bridge replacement project is a part of the improvements needed to widen US 441/SR 31, which is a part of the Governor's Road Improvement Program (GRIP), project EDS 441(27). The bridge portion of the project is being accelerated since the bridge's structural deficiencies pose a significant safety hazard to the travelling public. The sufficiency rating of the Mill Creek bridge is 6.0, which is based on a rating system of 1 to 100. Ratings of 50 or lower are candidates for replacement in order to provide a safe, structurally sufficient bridge for motorists and pedestrians to use. The existing bridge over Mill Creek is deficient and functionally obsolete. The substructure is in poor condition with advance section loss, deterioration, spalling and scour. The bridge is on the national truck route network. Bridge replacement to meet current standards would provide a safer facility for the traveling public

EXISTING ROADWAY

| | | |
|-------------------------|--------------------------------|-------------------------------------------|
| TYPICAL SECTION: | 2 – 12 lanes with open ditches | RIGHT-OF-WAY WIDTH 100' to 200' |
| POSTED SPEED | MINIMUM RADIUS OF CURVE | MAX GRADE |
| 55 M.P.H | N/A | N/A |

MAJOR STRUCTURES

| FEATURES INTERSECTED/TYPE | LENGTH | WIDTH | PRIORITY RATING | SUFF. RATING |
|-------------------------------|--------|-------|-----------------|--------------|
| Mill Creek – Bridge 069-00070 | 160' | 25.9' | 0 | 6.0 |

PROPOSED LENGTH OF PROJECT: 0.8 mile

Bridge Replacement with Temporary Roadway Tie Ins

TYPICAL SECTION: 2 – 12 lanes with open ditches

| DESIGN SPEED | MINIMUM RADIUS OF CURVE | | MAX. GRADE | |
|--------------|-------------------------|--------|------------|-------|
| 55 M.P.H. | ALLOWABLE | 6° | ALLOWABLE | 4.5 % |
| | PROPOSED | 0° 30' | PROPOSED | 0.7 % |

PROPOSED MAJOR STRUCTURES

| FEATURES INTERSECTED/TYPE | LENGTH | WIDTH |
|----------------------------------|--------|-------|
| Mill Creek – New Parallel Bridge | 170' | 43' |

PROPOSED RIGHT-OF-WAY

| RIGHT-OF-WAY WIDTH | PARCELS IMPACTED | DISPLACEMENTS | | |
|--------------------|------------------|---------------|---------|---------|
| 250' | 7 | RES.: 0 | BUS.: 0 | M.H.: 0 |

COORDINATION

TYPE OF ACCESS CONTROL: by permit

CONCEPT TEAM MEETING DATE: to be scheduled with roadway concept team meeting

PERMITS REQUIRED: Nationwide 23 C.O.E.

P.A.R. MEETING: Meeting held February 25, 1999

TIME SAVING PROCEDURES APPROPRIATE: No

OTHER PROJECTS IN THE AREA: EDS 441(27) and EDS 441(37)

LOCAL GOVERNMENT COMMITMENTS: Coffee signed 2-23-89 for utilities

MISCELLANEOUS

TRAFFIC CONTROL DURING CONSTRUCTION:

TRAFFIC TO BE MAINTAINED ON EXISTING ROADS.

ENVIRONMENTAL CONCERNS:

- a. Environmental Document will include BRN 023-2(7)
- b. Existing bridge eligible historic resource impacted. 106 required. A section 4(f) is required.
- c. No known T & E species involved at this time.
- d. Two known eligible archeology site known at this time.
- e. No parks within project limits.
- f. No known cemeteries within project limits.
- g. No stream channel changes proposed.

UNDERGROUND STORAGE TANKS:

NONE KNOWN; INVESTIGATION NOT REQUESTED YET

HAZARDOUS WASTE SITES:

NONE KNOWN; INVESTIGATION NOT REQUESTED YET

LEVEL OF ENVIRONMENTAL ANALYSIS:

Categorical Exclusion with a Programmatic 4(f)

DESIGN VARIATIONS REQUESTED:

| | YES | NO | UNDETERMINED |
|----------------------------|-----|-----|--------------|
| SUBST HORIZ ALIGNMENT | () | (X) | () |
| SUBST ROADWAY WIDTH | () | (X) | () |
| SUBST SHOULDER WIDTH | () | (X) | () |
| SUBST VERTICAL GRADES | () | (X) | () |
| SUBST CROSS SLOPES | () | (X) | () |
| SUBST STOPPING SIGHT DIST | () | (X) | () |
| SUBST SUPERELEV RATES | () | (X) | () |
| SUBST HORIZONTAL CLEARANCE | () | (X) | () |
| SUBST SPEED DESIGN | () | (X) | () |
| SUBST VERTICAL CLEARANCE | () | (X) | () |
| SUBST BRIDGE WIDTH | () | (X) | () |
| SUBST BR STRUCT CAPACITY | () | (X) | () |

ALTERNATIVES CONSIDERED: Widening to the west side of existing SR 31. Eliminated due to environmental impacts.

ESTIMATED COST

| | | | |
|------------------------------------|--------------|---------------|------------------------------|
| CONSTRUCTION: | \$ 1,547,000 | RIGHT-OF-WAY: | \$ 125,000 |
| E & C (10%): | \$ 155,000 | ACQUIRED BY: | D.O.T. |
| INFLATION: (2 yrs at 5% per yr) | \$ 174,000 | UTILITIES: | To be requested |
| | | ADJUSTED BY: | LGPA with Coffee Co. 2-23-89 |
| TOTAL CONS'T COST: | \$ 2,001,000 | | |

COMMENTS

- 1) Replacement Bridge will be constructed on 4 lanes of right-of-way with temporary roadway tie ins.
- 2) Bridge will be lengthened by 5 foot on each side of the creek to allow for wildlife passage.
- 3) S.R. 107 will be relocated on bridge project, instead of roadway project, to avoid archeology impact on tying back to temporary roadway.

ATTACHMENTS: Cost Estimate, Sketch Map, Typical Section, Bridge Inventory

PREPARED BY: Fred Matheny

NOTICE OF LOCATION AND DESIGN APPROVAL

BRN-023-2(10) Coffee County P.I. No. 422250

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.

Project BRN-023-2(10), Coffee County proposes to replace the existing bridge along S.R. 31 over Mill Creek, which is located 400 feet south of the intersection of U.S. 319/S.R. 107. The existing bridge has a sufficiency rating of 6.0.

The project would consist of constructing a new parallel bridge and approximately 4000 feet of two-lane roadway approaches to tie existing S.R. 31 to the new bridge. The new bridge is proposed to be located parallel and east of the existing bridge. The centerline of the new bridge is proposed to be located 68 feet east of the existing bridge centerline. This distance provides for the future widening of S.R. 31 to 4-lanes with a 44' median. The length of the proposed bridge would be 10 foot longer to allow animal passage on both sides of the stream. The proposed roadway approaches would begin approximately 2600 feet south of Mill Creek, mile point 27.54, and end approximately 1600 feet north of Mill Creek, mile point 28.33. Existing right of way varies from 100 feet to 200 feet and the proposed right of way would be a minimum of 250 feet. S.R. 107 would be relocated to the north of the existing intersection to tie into the temporary roadway.

Date of Location and Design Approval _____

Drawings or maps or plats of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation, 3993 Aviation Circle, Atlanta, Georgia 30336-1593, in the Office of Environment/Location. Or any interested party may obtain a copy of the drawings or maps or plats by writing the Georgia Department of Transportation, 3993 Aviation Circle, Atlanta, Georgia 30336-1593 and paying a nominal cost therefor.

Any written request in reference to this Notice should include the Project and P.I. Numbers as noted at the top of this notice and may be referred to:

David E. Studstill, P.E.
State of Georgia
Department of Transportation
Office of Environment/Location
3993 Aviation Circle
Atlanta, GA 30336-1593

404-699-4401

PRELIMINARY COST ESTIMATE
OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 422250

DATE: 08-11-1999

PROJECT NO: BRN 023-2(10)

PROJECT NAME: Mill Creek Bridge Replacement

COUNTY: COFFEE

PROJECT DESCRIPTION:

Bridge replacement at Mill Creek with temporary tie
ins from 2600' south of Mill Creek to 1600' north of Mill Creek.

*p2251X

PROJECT LENGTH: 0.800 MILES

SECTION LENGTH: 0.770 MILES

TYPICAL SECTION:

RURAL NEW LOCATION-2-LANES WITH 24' PAV'T

PROPOSED R / W = 150 ft

EXISTING ROADWAY (If Applicable):

US 441 / US 319 / SR 31

TRAFFIC:

INITIAL DESIGN YEAR: 2005

DAILY VOLUME (AADT): 3,400

FINAL DESIGN YEAR: 2025

DAILY VOLUME (AADT): 5,400

COMMENTS:

Relocation of SR 107 included in cost estimate. Bridge will be
lengthened 10' for wildlife passage.

PREPARED BY: Fred Matheny

PROJECT COSTS

A. RIGHT - OF - WAY

| | |
|----------------------------------|------------|
| 1. PROPERTY (Land and Easements) | \$ 13,500 |
| 2. DISPLACEMENTS | \$ 59,250 |
| 3. OTHER COST | \$ 52,250 |
| SUBTOTAL | \$ 125,000 |

B. REIMBURSABLE UTILITIES

| | |
|-----------------------|------|
| 1. RAILROAD | \$ 0 |
| 2. TRANSMISSION LINES | \$ 0 |
| 3. SERVICES | \$ 0 |
| SUBTOTAL | \$ 0 |

C. MAJOR STRUCTURES

| | |
|------------------------------------------------|------------|
| 1. WALLS | \$ 0 |
| <hr/> | |
| 2. BRIDGE STREAM CROSSING Mill Creek 43x170 | \$ 366,000 |
| <hr/> | |
| 3. BRIDGE OVER/UNDERPASS | \$ 0 |
| <hr/> | |
| 4. BOX CULVERTS | \$ 0 |
| <hr/> | |
| SUBTOTAL | \$ 366,000 |

D. GRADING AND DRAINAGE

| | |
|-------------------------------------------------------------------------------------------------|------------|
| 1. EARTHWORK | |
| a. UNCLASSIFIED EXCAVATION SOIL 14,500 CY @ \$2.40 | \$ 35,000 |
| <hr/> | |
| b. UNCLASSIFIED EXCAVATION ROCK 0 CY @ \$10.00 | \$ 0 |
| <hr/> | |
| c. BORROW EXCAVATION 43,300 CY @ \$4.72 | \$ 204,000 |
| <hr/> | |
| 2. DRAINAGE | |
| a. MINOR DRAINAGE (Including Cross Drain Pipes & Longitudinal System) 0.770 MILES @ \$27,000 | \$ 21,000 |
| <hr/> | |
| b. CURB AND GUTTER 0 LF @ \$9.80 | \$ 0 |
| <hr/> | |
| SUBTOTAL | \$ 260,000 |

PROJECT COSTS

con't.

E. BASE AND PAVING

| | | |
|-----------------------------|----|---------|
| 1. GRADED AGGREGATE BASE | \$ | 117,000 |
| 12.00" -- 9,107 T @ \$12.89 | | |
| <hr/> | | |
| 2. ASPHALT PAVING | | |
| a. ASPHALTIC CONCRETE "E" | \$ | 44,000 |
| 1.50" -- 1,247 T @ \$35.05 | | |
| <hr/> | | |
| b. ASPHALTIC CONCRETE "B" | \$ | 56,000 |
| 2.00" -- 1,662 T @ \$33.50 | | |
| <hr/> | | |
| c. ASPHALTIC CONCRETE BASE | \$ | 63,000 |
| 3.00" -- 1,870 T @ \$33.93 | | |
| <hr/> | | |
| d. BITUMINOUS TACK COAT | \$ | 1,000 |
| 1,073 G @ \$0.84 | | |
| <hr/> | | |
| 3. CONCRETE PAVING | \$ | 0 |
| <hr/> | | |
| 4. OTHER PAVING | \$ | 28,000 |
| <hr/> | | |
| SUBTOTAL | \$ | 309,000 |

F. LUMP ITEMS

| | | |
|------------------------------------------|----|---------|
| 1. TRAFFIC CONTROL | \$ | 15,000 |
| <hr/> | | |
| 2. CLEARING AND GRUBBING | \$ | 66,000 |
| 14 ACRES @ \$4,700 | | |
| <hr/> | | |
| 3. LANDSCAPING | \$ | 9,000 |
| 0.770 MILES @ \$12,000 | | |
| <hr/> | | |
| 4. EROSION CONTROL | \$ | 12,000 |
| 0.770 MILES @ \$15,000 | | |
| <hr/> | | |
| 5. DETOURS (Including Temporary Bridges) | \$ | 0 |
| <hr/> | | |
| SUBTOTAL | \$ | 102,000 |

G. MISCELLANEOUS

| | | |
|-------------------------------------------|----|--------|
| 1. SIGNING/STRIPING | \$ | 8,000 |
| 0.770 MILES @ \$10,000 | | |
| <hr/> | | |
| 2. GUARDRAIL | \$ | 14,000 |
| 640 LF @ \$10.88 + 4 Anchors @ \$1,632.38 | | |
| <hr/> | | |
| 3. OTHER | \$ | 50,000 |
| 0.770 MILES @ \$65,100 | | |
| <hr/> | | |
| SUBTOTAL | \$ | 72,000 |

H. SPECIAL FEATURES

| | | |
|----------------------|----|---------|
| Relocation of SR 107 | \$ | 438,000 |
| <hr/> | | |

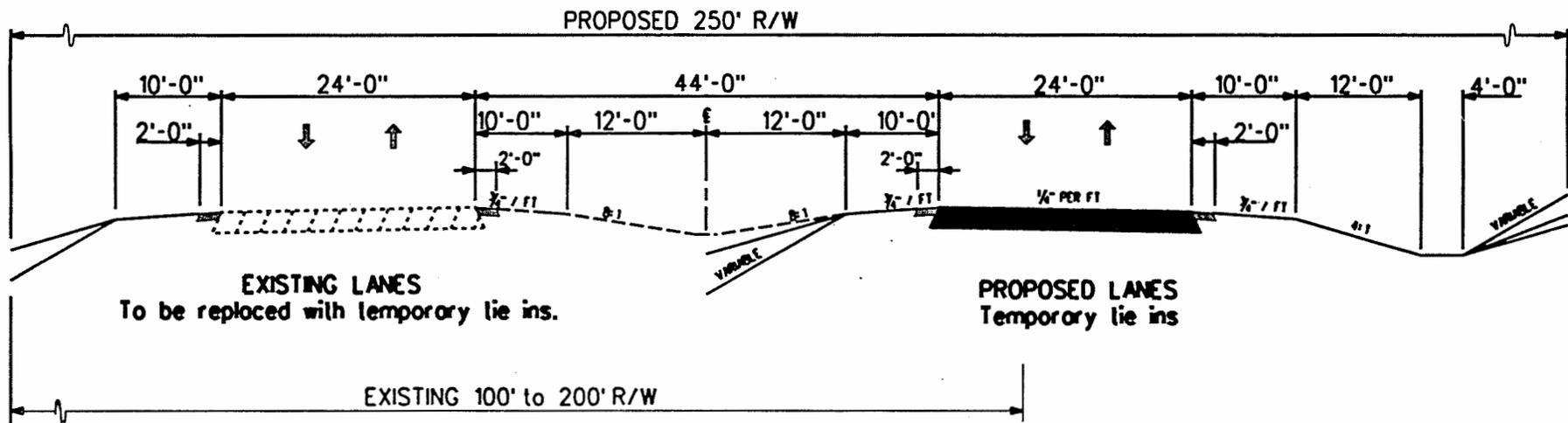
ESTIMATE SUMMARY

| | | SECTION COST (per mile) |
|---------------------------|------------|----------------------------|
| A. RIGHT-OF-WAY | \$ 125,000 | \$ 162,000 |
| B. REIMBURSABLE UTILITIES | \$ 0 | \$ 0 |

CONSTRUCTION COST SUMMARY

| | | |
|-------------------------------------|-----------------------|------------------|
| C. MAJOR STRUCTURES | \$ 366,000 | |
| D. GRADING AND DRAINAGE | \$ 260,000 | |
| E. BASE AND PAVING | \$ 309,000 | |
| F. LUMP ITEMS | \$ 102,000 | |
| G. MISCELLANEOUS | \$ 72,000 | |
| H. SPECIAL FEATURES | <u>\$ 438,000</u> | |
| SUBTOTAL CONSTRUCTION COST | \$ 1,547,000 | \$ 2,009,000 |
| E. & C. (10%) | \$ 155,000 | |
| INFLATION 2 yr(s) @ 5% per year | <u>\$ 174,000</u> | |
| TOTAL CONSTRUCTION COST | \$ 1,876,000 | \$ 2,436,000 |
| <hr/> | | |
| GRAND TOTAL CONSTRUCTION COST | \$ 2,001,000 | \$ 2,599,000 |

RURAL NEW LOCATION-2-LANES WITH 24' PAV'T



TYPICAL SECTION

**MILL CREEK BRIDGE REPLACEMENT
 BRN 023-2(10), COFFEE COUNTY
 FROM 2600' SOUTH OF MILL CREEK
 TO 1600' NORTH OF MILL CREEK**

NOT TO SCALE

----- 1: LOCATION AND GEOMETRIC DATA

5-AUG-1999

BRIDGE IN COFFEE COUNTY
----- FACILITY CARRIED -----
US 441
----- LOCATION -----
APP 10 MI N OF BROXTON
----- FEATURES INTERSECTED -----
MILL CREEK

SERIAL NUMBER : 0007-0
YEAR CONSTRUCTED : 1935
YEAR RECONSTRUCTED: None
DATE INSEPECTED : January 1998
DESIGN LOAD : H-15
NATIONAL TRUCK RTE: ON NETWORK
SCHOOL BUS ROUTE : NO

TYPE SERVICE ON : Highway
TYPE SERVICE UNDER: Waterway.
STRUCTURE : Continuous Steel Stringer Multi-beam; Girder
SURFACE : Concrete.
DECK : Concrete
MAIN SUPPORT: Steel
SUBSTRUCTURE: Timber
FOUNDATION : Timber pile.

----- 2: SIGNS AND ATTACHMENT DATA

GUARDRAIL REAR : Both sides.
GUARDRAIL FORWARD : Both sides.
GUARDRAIL REAR OPP DIR: None.
GUARDRAIL FOR. OPP DIR: None.

----- 3: PROGRAMMING DATA

CONTARCT DATE : 02/01/00
RANKING NUMBER : 0 Priority rating
TOTAL PROJECT COST: \$395,000 (1990 IMPROVEMENT COST ESTIMATE)
LAST PROJECT # : SAP 1522-B (2)
PROPOSED PROJECT #: BRN-023-2 (10)
PROPOSED WORK : Replace; substandard load capacity or geometry.
RECONSTRCT. STATUS: Eligibility being processed.
RECONSTRCT. STATUS: Defined as replacement.
RECONSTRCT. STATUS: Eligible for Federal Bridge Replacement Funds.

----- 4: HYDRAULIC DATA

SCOUR CRITICAL: Scour calculations not yet made

----- 5: MEASURMENT DATA

NUMBER OF LANES ON: 2 UNDER: 0
STRUCTURE LENGTH : 160 FT BRIDGE ROADWAY WIDTH: 24.0 FT
CLEARANCE (FT-IN) : OVER: 99-99 UNDER: 00-00 HORIZONTAL: 24.0 FT
SIDEWALK OR CURB : 0.5 FT (LT) 0.5 FT (RT)
BRIDGE RAILING : Meets acceptable construction date standards.
APPROACH GUARDRAIL: Meets current acceptable standards.

----- 6: RATING DATA

INVENTORY : Indefinite safe use HS loading of 00 tons.
OPERATING : Equal to or above legal load limit.
SUFFICIENCY : 6.0
STRUCTURE : Intolerable requiring high priority of replacement.
DECK : FAIR, sound primary elements, possible minor defects.
MAIN SUPPORT: GOOD, some minor problems.
SUBSTRUCTURE: POOR, advanced section loss, deterioration, spalling, scour.
SCOUR : NEGLIGIBLE - structure function unaffected.
CHANNEL PROT: Minor damage and drift, minor repair needed.

----- 7: POSTING DATA

STRUCTURE POSTED : Open; temporary shoring, no posting required.
TEMPORARY POSTING: Temporary structure(s) or conditions exist.
ACTUAL POSTINGS : [H: NP TONS] [TRI: NP TONS] [3S2: NP TONS]

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT
BRN-023-2(10)
COFFEE COUNTY
P.I. NO. 422250

US Route No.: 441

Date of Report: August 11, 1999

State Route No.: 31

RECOMMENDATION FOR APPROVAL

9/27/99
Date

[Signature]
State Environmental/Location Engineer

Date

State Road Design Engineer

Date

State Traffic Operations Engineer

Date

District Engineer/Tifton

Date

Project Review Engineer

9/2/99
Date

Paul V. Tules Jr.
State Bridge & Structural Engineer

Date

State Transportation Planning Administrator

Date

State Transportation Programming Administrator

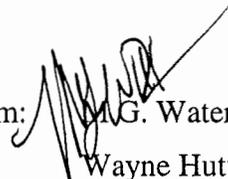
Department of Transportation State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRN-023-2(10)/Coffee County
P.I. No. 422250

Office: Traffic Operations
Atlanta, Georgia

Date: September 2, 1999

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

To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review

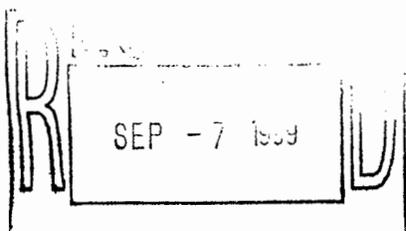
We have reviewed the concept report on the above project for the replacement of a structurally deficient and obsolete bridge on US 441/SR 31 over Mill Creek, located approximately 400 feet south of the US 319/SR 107 intersection. The bridge has a sufficiency rating of 6.

At this location US 441/SR 31 is a rural two lane roadway with open ditches and a posted speed limit of 55mph. This project will construct a new parallel bridge, east of the existing location, and 4000 feet of approach roadway. The proposed roadway will have two lanes, open ditches and a design speed of 55mph. Roadway reconstruction will begin 2600 feet south of Mill Creek and ends 1600 feet north of Mill Creek. The bridge is part of improvements needed to widen US 441/SR 31, project EDS-441(27). Future widening of US 441/SR 31 will create a four lane roadway with a 44 foot wide median.

We believe this concept will improve safety and traffic operations along this section of roadway.

We recommend the bridge be widened to a width of 44 feet, as in accordance with M.O.G. 4265-10.

We request that conduit be installed within the limits of the new bridge construction as part of this project. The conduit would be used for the future interconnection of the Advanced Transportation Management System components in this area. Our Traffic Operations Design Office can provide details cost estimates for inclusion in the project.


SEP - 7 1999

With the recommended statements, we find this report satisfactory for approval.

MGW:TWS

Attachment (signature page)

c: David Studstill

James A. Kennerly, State Road and Airport Design Engineer

Attention: Kim Fulbright

David Mulling, w/ attachment

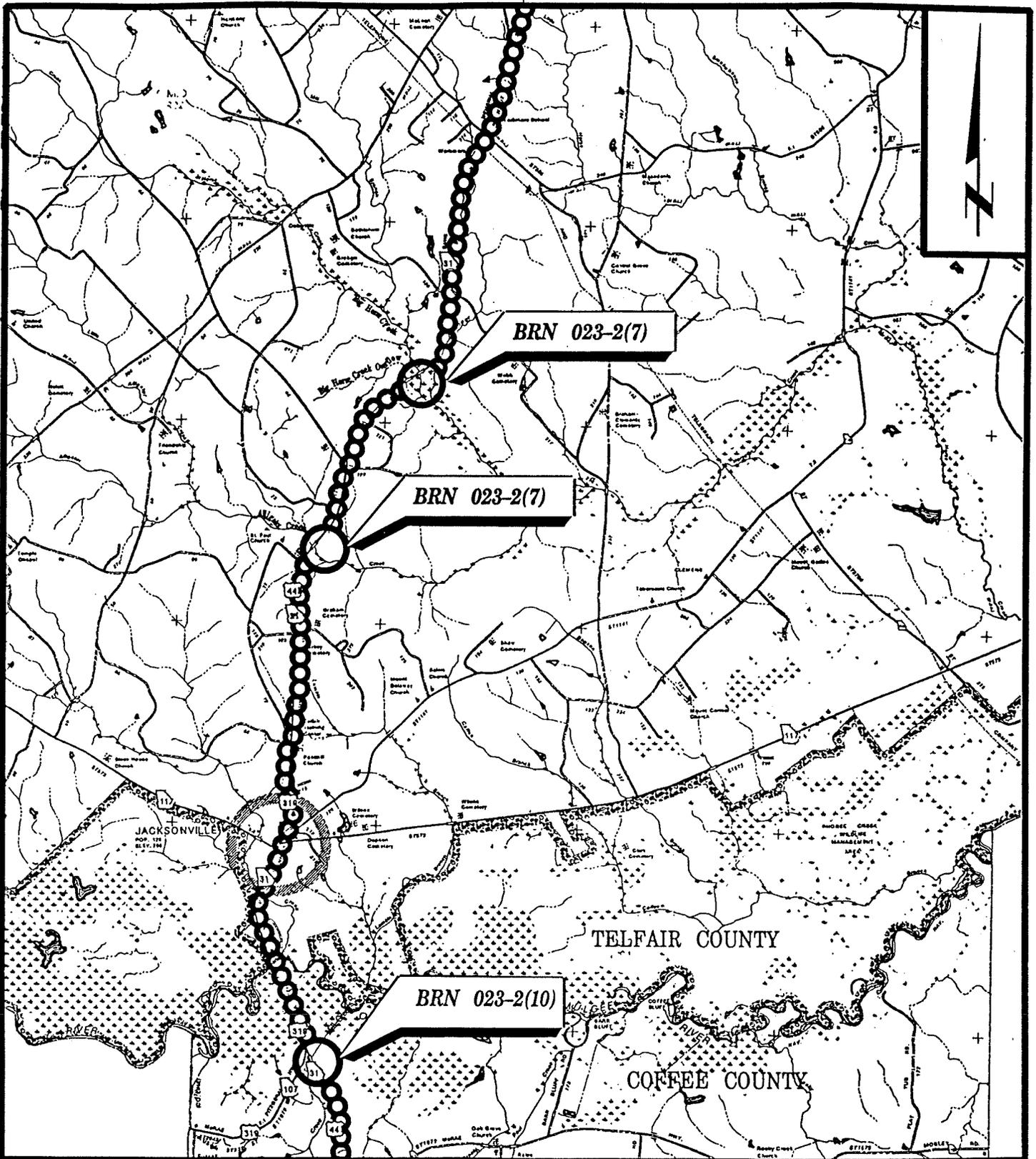
Marta Rosen

Karl Alff, TMC

Keith Golden, P.E., TMC

Paul Liles, State Bridge Design Engineer

General Files



LOCATION

STRIPMAP

**BRN 023-2(10) & BRN 023-2(7)
 BRIDGE REPLACEMENT PROJECTS
 COFFEE, TELFAIR COUNTIES
 P.I.# 422250 & 521570**

SOURCE: GENERAL HIGHWAY MAP, COFFEE/TELFAIR COUNTIES, GEORGIA
 PREPARED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION, 1996, 1993.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT
BRN-023-2(10)
COFFEE COUNTY
P.I. NO. 422250

US Route No.: 441

Date of Report: August 11, 1999

State Route No.: 31

RECOMMENDATION FOR APPROVAL

8/27/99
Date

D. L. Hatcher
State Environmental/Location Engineer

Date

State Road Design Engineer

9-3-99
Date

Marion H. Waters
State Traffic Operations Engineer

Date

District Engineer/Tifton

Date

Project Review Engineer

Date

State Bridge & Structural Engineer

Date

State Transportation Planning Administrator

Date

State Transportation Programming Administrator

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT
BRN-023-2(10)
COFFEE COUNTY
P.I. NO. 422250

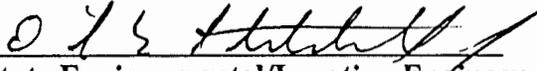
US Route No.: 441

Date of Report: August 11, 1999

State Route No.: 31

RECOMMENDATION FOR APPROVAL

8/27/99
Date


State Environmental/Location Engineer

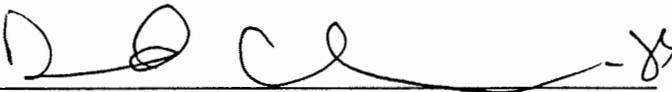
Date

State Road Design Engineer 

Date

State Traffic Operations Engineer

8/07/99
Date


District Engineer/Tifton

Date

Project Review Engineer

Date

State Bridge & Structural Engineer

Date

State Transportation Planning Administrator

Date

State Transportation Programming Administrator

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT
BRN-023-2(10)
COFFEE COUNTY
P.I. NO. 422250

US Route No.: 441

Date of Report: August 11, 1999

State Route No.: 31

RECOMMENDATION FOR APPROVAL

8/27/99
Date

[Signature]
State Environmental/Location Engineer

Date

State Road Design Engineer

Date

State Traffic Operations Engineer

Date

District Engineer/Tifton

9/3/99
Date

David J. Mullin
Project Review Engineer

Date

State Bridge & Structural Engineer

Date

State Transportation Planning Administrator

Date

State Transportation Programming Administrator