

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRZLB-015(16) Bartow County **OFFICE** Preconstruction
P.I. Nos. 670688 **DATE** April 5, 1994
CWH
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/se

Attachment

DISTRIBUTION:

John Lively
Bob Mustin
David Studstill
Herman Griffin
Toni Dunagan
Darrell Elwell
Charles Law

Wayne Shackelford
Page 2
March 24, 1994

BRZLB-015(16) Bartow County

This concept is recommended for approval.

HJL/CWH/se

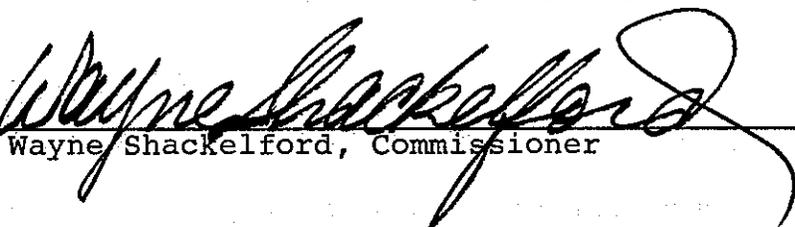
Attachment

CONCUR:



Frank Danchetz, State Highway Engineer

APPROVED:



Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

RECEIVED

MAR 16 1994

Georgia
PRECONSTRUCTION

FILE BRZLB-015(16) Bartow County
P.I. No. 670688
Bridge Replacement on CR 204

OFFICE

DATE

March 14, 1994

FROM Bob Mustin, P.E., Project Review Engineer *DM*

TO Hoyt J. Lively, Jr., P.E., Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for this project and have the following comment:

Since no quantities or unit prices are included in the cost estimate, the estimate costs could not be verified.

This report is satisfactory for approval subject to the above comment.

The estimated costs of this project are as follows:

Construction	\$350,000
Inflation (5% per year)	\$ 35,000
E & C (10%)	\$ 39,000
Preliminary Engineering (5%)	\$ 18,000
Right of Way	? (LGPA?)
Reimbursable Utilities	? (LGPA?)

DTM/kmc
Attachments
c: Charles Law

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE **OFFICE** Cartersville
DATE February 28, 1994

FROM Charles E. Law, P.E., District Engineer
TO Bobby Mustin, Project Review Engineer

SUBJECT BRZLB-015(16) BARTOW COUNTY
P.I. NO. 670688



Herewith for your review and further handling is the Concept Report covering the subject project.

William H. McVey
BY: William H. McVey
Preconstruction Engineer

CEL:WHM:djd

Attachments

- xc: Mr. Wayne Hutto w/Attachments
- Mr. David Studstill w/Attachments
- Mr. Marion Waters w/Attachments
- Mr. Jack Ray w/Attachments
- Mr. Frank Penson
- Mr. Jim Kennerly

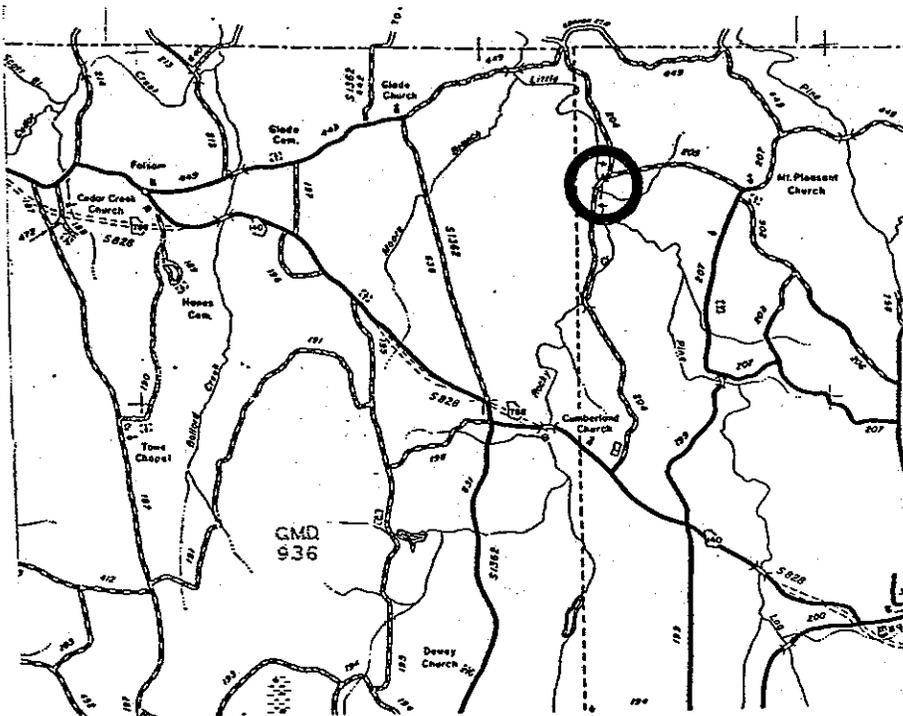
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

BRIDGE REPLACEMENT ON COUNTY ROAD 204
OVER LITTLE PINE LOG CREEK

BRZLB-015(16) BARTOW COUNTY

Federal Route No.: N/A
State Route No.: N/A
Ga. D.O.T. P. I. No.: 670688



Date of Report: February 28, 1994

RECOMMENDATION FOR APPROVAL

3-1-94
Date

[Signature]
Project Manager

Date

State Environmental Engineer

Date

State Engineer

PROJECT CONCEPT REPORT

DATE: FEBRUARY 28, 1994

PROJECT NUMBER: BRZLB 15 (16) COUNTY: BARTOW

PROJECT NAME: BRIDGE OVER LITTLE PINE LOG CREEK ON CR 204 LENGTH: 0.5 km

P. I. NUMBER: 670688 U.S. ROUTE NO.: N/A STATE ROUTE NO.: N/A

LOCATION

COUNTY ROAD 204 OVER LITTLE PINE LOG CREEK

YEAR	TRAFFIC			YEAR	AADT
	CURRENT	AADT	PROJECTED		
1997		300		2017	600
PDP CLASSIFICATION	NON-CA	CA	EXEMPT	FUNCTIONAL CLASSIFICATION	
MINOR	(XX)	()	()	RURAL LOCAL ROAD	

EXISTING TYPICAL SECTION

SOUTH APPROACH - 4 m PAVING, WITH 2 TO 2.4 m SHOULDERS. NORTH APPROACH - 5m PAVING, WITH 2 TO 2.4 m SHOULDERS. NO EXISTING DITCH SECTION ON PROPOSED PROJECT.

POSTED SPEED	MAX EXIST DEGREE OF CURVE	MAX EXIST GRADE
N/A km/h	220 m RADIUS	4. %

EXISTING MAJOR STRUCTURES

RANK:	N. RTG	S. RTG	FEATURES INTERSECTED	LENGTH	WIDTH
		14.6	015-00204X0001.10 S 015-5036-0	36.6 m	3.6 m

PROJECT NEED: EXISTING BRIDGE IS NARROW AND LOAD LIMITED.

PROJECT CONCEPT REPORT

PROJECT NUMBER: BRZLB 15 (16) BARTOW

PROPOSED TYPICAL SECTION

3.6
7.2 m LANES. WITH 1.2 m SHOULDERS. 4:1 FRONT SLOPES WITH 0.6 m FLAT
BOTTOMED DITCH. 2:1 BACKSLOPES.

<u>DESIGN SPEED</u>	<u>MAX DEGREE OF CURVE</u>	<u>MAX GRADE</u>
<u>50 km/h</u>	ALLOWABLE: <u>76.8 m RADIUS</u>	ALLOWABLE: <u>10 %</u>
	PROPOSED: <u>218 m RADIUS</u>	PROPOSED: <u>4 %</u>

MAJOR STRUCTURES

PRELIMINARY HYDRAULIC CALCULATIONS INDICATE A 55 m X 9 m BRIDGE WILL BE
REQUIRED. ACTUAL SIZE OF BRIDGE TO BE DETERMINED BY IN DEPTH HYDRAULIC STUDY.

TYPE ACCESS: CONTROLLED BY COUNTY

TRAFFIC CONTROL DURING CONSTRUCTION: REQUEST COUNTY TO CLOSE ROAD DURING
CONSTRUCTION.

ESTIMATED COST:

CONSTRUCTION: <u>347,000</u>	RIGHT-OF-WAY: <u>LOCAL GOV'T.</u>
E & C (10%): <u>34,700</u>	ACQUIRED BY: <u>LOCAL GOV'T.</u>
INFLATION: <u>38,170</u>	UTILITIES: <u>LOCAL GOV'T.</u>
<u>2 yrs at 5% per yr</u>	ADJUSTED BY: <u>OWNERS</u>

TOTAL CONST COST: _____

DESIGN VARIATIONS REQUIRED

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

PROJECT CONCEPT REPORT

PROJECT NUMBER: BRZLB 15 (16) BARTOW

COMMENTS: ALIGNMENT SHOULD NOT START UNTIL CLEAR OF A CONCRETE BLOCK BUILDING
AND HISTORICAL BARN. ALIGNMENT WILL NEED TO STAY RELATIVELY CLOSE TO THE
EXISTING ALIGNMENT.

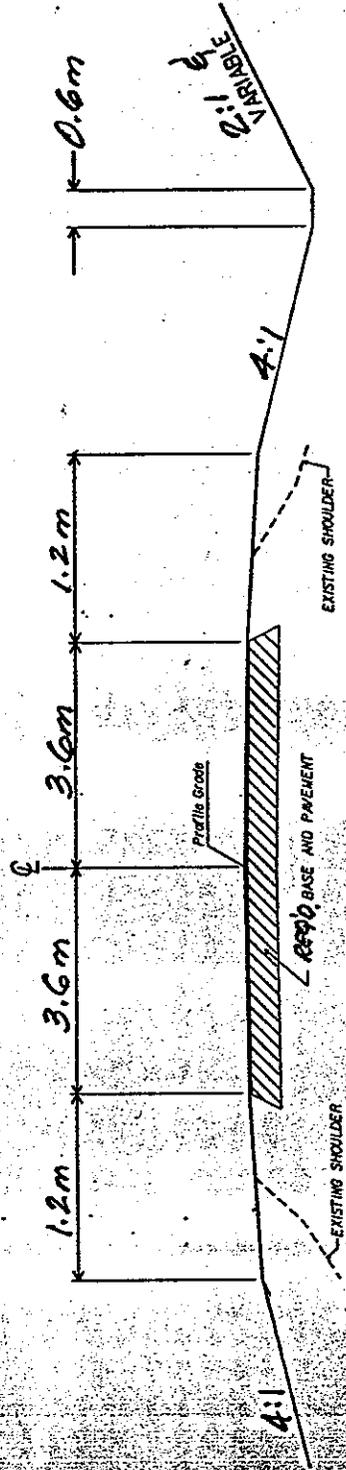
BARTOW COUNTY HAS REQUESTED PROVISIONS FOR HANGING A 8" WATER MAIN TO THE
NEW BRIDGE. BARTOW CO. WATER AUTHORITY SAID THAT ROCK IN THE CREEK MAY MAKE
IT DIFFICULT TO BURY THE WATER LINE.

ATTACHMENTS: TYPICAL SECTION

Signed LGPA Not Recieved.

Prepared By: Dennis Thompson

TYPICAL SECTION



PRELIMINARY COST ESTIMATE

DATE FEBRUARY 28, 1994

PROJECT BRZLB 015 (16) BARTOW

P.I. NO. 670688

PROJECT DESCRIPTION BRIDGE REPLACEMENT ON CR 204 OVER LITTLE PINE
LOG CREEK.

PROPOSED CONCEPT BRIDGE REPLACEMENT

EXISTING ROAD (If Applicable) 4 - 5 m PAVING, 2 - 2.4 m SHOULDERS

TRAFFIC: Existing 300 (1997) Design 600 (2017)

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

PROJECT COST

A. RIGHT OF WAY

- 1. PROPERTY (Land and Easements) \$ _____
- 2. DISPLACEMENTS \$ _____
- 3. OTHER COSTS \$ _____
- SUBTOTAL \$ LOC GOV'T.

B. REIMBURSABLE UTILITIES

- 1. RAILROAD \$ _____
- 2. TRANSMISSION LINES \$ _____
- 3. SERVICES \$ _____
- SUBTOTAL \$ LOC GOV'T.

C. MAJOR STRUCTURES

- 1. WALLS \$ _____
- 2. BRIDGE STREAM CROSSINGS \$ 243,000
- 3. BRIDGE OVER/UNDERPASS \$ _____
- 4. BOX CULVERTS \$ _____
- SUBTOTAL \$ 243,000

D. GRADING AND DRAINAGE

1. EARTHWORK	\$ 35,000
<hr/>	
2. DRAINAGE	
a. Cross Drain Pipes (exc. Box Culverts)	\$
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b. Side Drain Pipes	\$ 2,200
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c. Logitudinal System (incl. Catch Basins)	\$
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SUBTOTAL	\$ 37,200

E. BASE AND PAVING

1. AGGREGATE BASE	\$ 15,700
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2. ASPHALT PAVING	\$ 22,600
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3. CONCRETE PAVING	\$
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4. OTHER	\$
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SUBTOTAL	\$ 38,300

F. LUMP ITEMS

1. TRAFFIC CONTROL	\$
<hr/>	
2. CLEARING AND GRUBBING (INCL. REM. EX. BRIDGE)	\$ 10,000
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3. LANDSCAPING	\$
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4. EROSION CONTROL	\$ 11,000
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5. DETOURS (incl. TEMP. BRIDGES)	\$
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SUBTOTAL	\$ 21,000

G. MISCELLANEOUS

1. LIGHTING	\$
<hr/>	
2. SIGNING - STRIPING	\$
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3. GUARDRAIL	\$ 7,500
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4. OTHER	\$
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SUBTOTAL	\$ 7,500

H. SPECIAL FEATURES

	\$
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ESTIMATE SUMMARY

A. RIGHT OF WAY \$ LOC GOV'T.
B. REIMBURSABLE UTILITIES \$ LOC GOV'T.

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES \$ 243.000
D. GRADING AND DRAINAGE \$ 37.200
E. BASE AND PAVING \$ 38.300
F. LUMP ITEMS \$ 21.000
G. MISCELLANEOUS \$ 7.500
H. SPECIAL FEATURES \$
SUBTOTAL CONSTRUCTION COST \$ 347.000
E & C (10%) \$ 34.700
2 YRS. INFLATION (5% per year) \$ 38.170
TOTAL CONSTRUCTION COST \$ 419.870

GRAND TOTAL PROJECT COST \$ 419.870

*file
concept*

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

RECEIVED

MAR 14 1994

INTERDEPARTMENT CORRESPONDENCE PRECONSTRUCTION

FILE BRZLB-015(16) Bartow County
P.I. No. 670688

OFFICE Traffic Operations
Atlanta, Georgia
DATE March 14, 1994

FROM *MGW* Marion G. Waters, III, P.E., State Traffic Operations Engineer

TO Bob Mustin, P.E., Project Review Engineer

SUBJECT Project Concept Report Review

We have reviewed the concept report on the above project for the replacement of a narrow, load limited bridge on CR 204 over Little Pine Log Creek in Bartow County with a 55 m x 9 m bridge. We believe this concept will improve safety and operational capacity along this section of roadway. We therefore find this report satisfactory for approval.

MGW:TOC:dc

Attachment (signature page)

cc: David Studstill
Charles E. Law (Attn: Bill McVey)
Wayne Hutto, w/attachment
General Files



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DEPARTMENT OF TRANSPORTATION

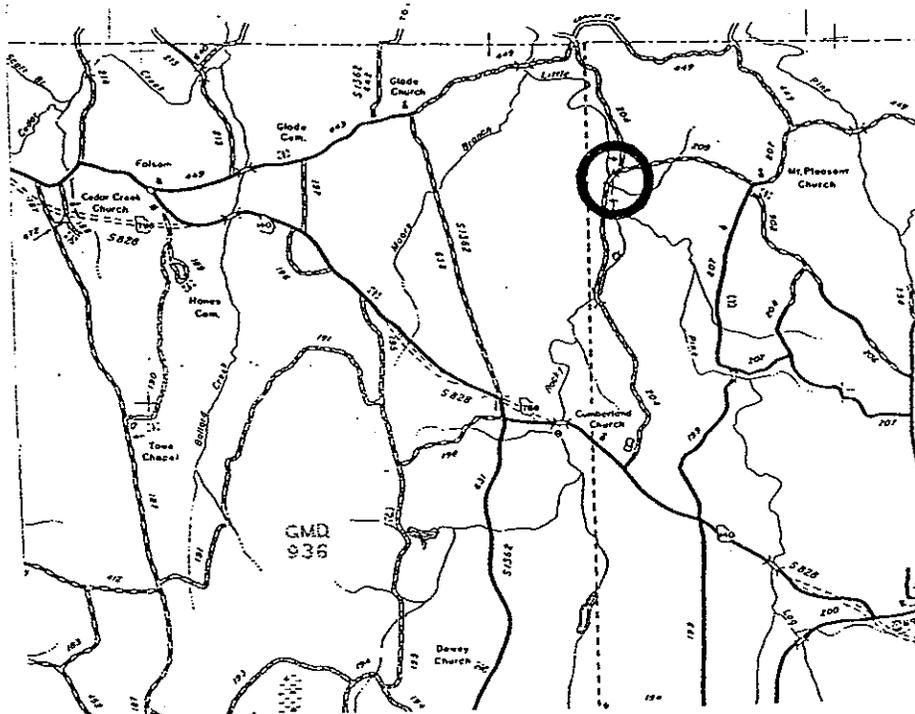
STATE OF GEORGIA

PROJECT CONCEPT REPORT

BRIDGE REPLACEMENT ON COUNTY ROAD 204
OVER LITTLE PINE LOG CREEK

BRZLB-015(16) BARTOW COUNTY

Federal Route No.: N/A
State Route No.: N/A
Ga. D.O.T. P. I. No.: 670688



Date Of Report: February 28, 1994

RECOMMENDATION FOR APPROVAL

3-1-94
Date

[Signature]
Project Manager

3-14-94
Date

[Signature]
State Environmental Engineer
[Signature]
State Traffic Operations Engineer



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