ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRS-0679(7) Pulaski County
P.I. No. 343000

OFFICE Preconstruction

DATE June 13, 1996

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
Bobby Mustin
David Studstill (ATTN: Harvey Keepler)
Jerry Hobbs
Herman Griffin
Darrell Elwell (ATTN: Michael Henry)
Marion Waters
Toni Dunagan
Paul Liles
Jim Kennerly
Joe Street

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRS-0679(7) Pulaski County
P.I. No. 343000

OFFICE Preconstruction

DATE June 5, 1996

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

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a narrow and structurally deficient bridge on SR 230 over Big Creek (Tucsawhatchee Creek), 9.65km west of Hawkinsville, Georgia. The existing bridge is 114.3m x 7.3m with steel pile foundation, steel and concrete substructure, and concrete deck with a sufficiency rating of 46.50. The existing approaches consist of two, 3.5m lanes with 0.9m rural shoulders on 24.4m of proposed right-of-way. The base year traffic (2000) is 950 VPD and the design year (2020) is 1,500 VPD. The posted speed and the design speed are 90km/h.

The project proposes to construct a new 121.9m x 11.4m bridge over Big Creek at the existing bridge site. The approaches will consist of two, 3.3m lanes with 1.8m rural shoulders on 30.0m of proposed right-of-way. Traffic will be maintained during construction utilizing a detour bridge.

Environmental concerns include requiring a COE 404 permit; a Categorical Exclusion will be prepared; a public hearing is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$1,453,000	$1,086,000	1999	98-12
Right-of-Way	$ 34,000	$ 8,000		
Utilities*	-----	-----		

*Pulaski County signed LGPA for utilities 12-19-94.

June 5, 1996
BRS-0679(7) Pulaski

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

RECEIVED
MAY 29 1996
PRECONSTRUCTION

INTERDEPARTMENT CORRESPONDENCE

FILE BRS-0679(7) PULASKI
P.I. NO. 343000

OFFICE Atlanta, Georgia

DATE MAY 29, 1996

FROM Bob Mustin, Project Review Engineer DTM

TO C. Wayne Hutto, Assistant Director of Preconstruction

SUBJECT **PROJECT CONCEPT REPORT**

The concept report submitted May 23, 1996 by the letter from Joe Street dated May 8, 1996 has been reviewed and is considered satisfactory.

The estimated costs for the project are as follows:

Construction	$ 1,149,000	
Inflation	$ 172,000	
E & C	$ 132,000	
Right of Way	$ 33,300	
Reimbursable Utilities	$?	(LGPA)

DTM

c: Joe Street

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: BRS-0679(7) Pulaski
P.I.No. 343000
State Route 230 over Big Creek

OFFICE: Thomaston

DATE: May 8, 1996

FROM: FOR Joe Street, District Engineer

TO: Bobby Mustin, State Project Review Engineer

SUBJECT: **PROJECT CONCEPT REPORT/CONSTRUCTION COST ESTIMATE**

Attached is the Project Concept Report/Construction Cost Estimate on the above project for your review and further handling.

JAL:GEB

c: Wayne Hutto

c/att: Tony Williamson (Concept Report Only)
David Studstill (Concept Report Only)
Paul Liles (Concept Report Only)
David Millen (Concept Report Only)
Jim Kennerly (Concept Report & Cost Estimate)
Joe Leoni (Concept Report & Cost Estimate)
Lem Dobbs (Cost Estimate Only)
Percy Middlebrooks (Cost Estimate Only)
Ethel White (Cost Estimate Only)
Design File (Cost Estimate Only)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Bridge Replacement
State Route 230 over Big Creek
Pulaski County

BRS-0679(7)

Federal Route No.: None
State Route No: 230
GaDOT P.I.No.: 343000

SEE LOCATION SKETCH
(Next Page)

Date of Report: May 8, 1996

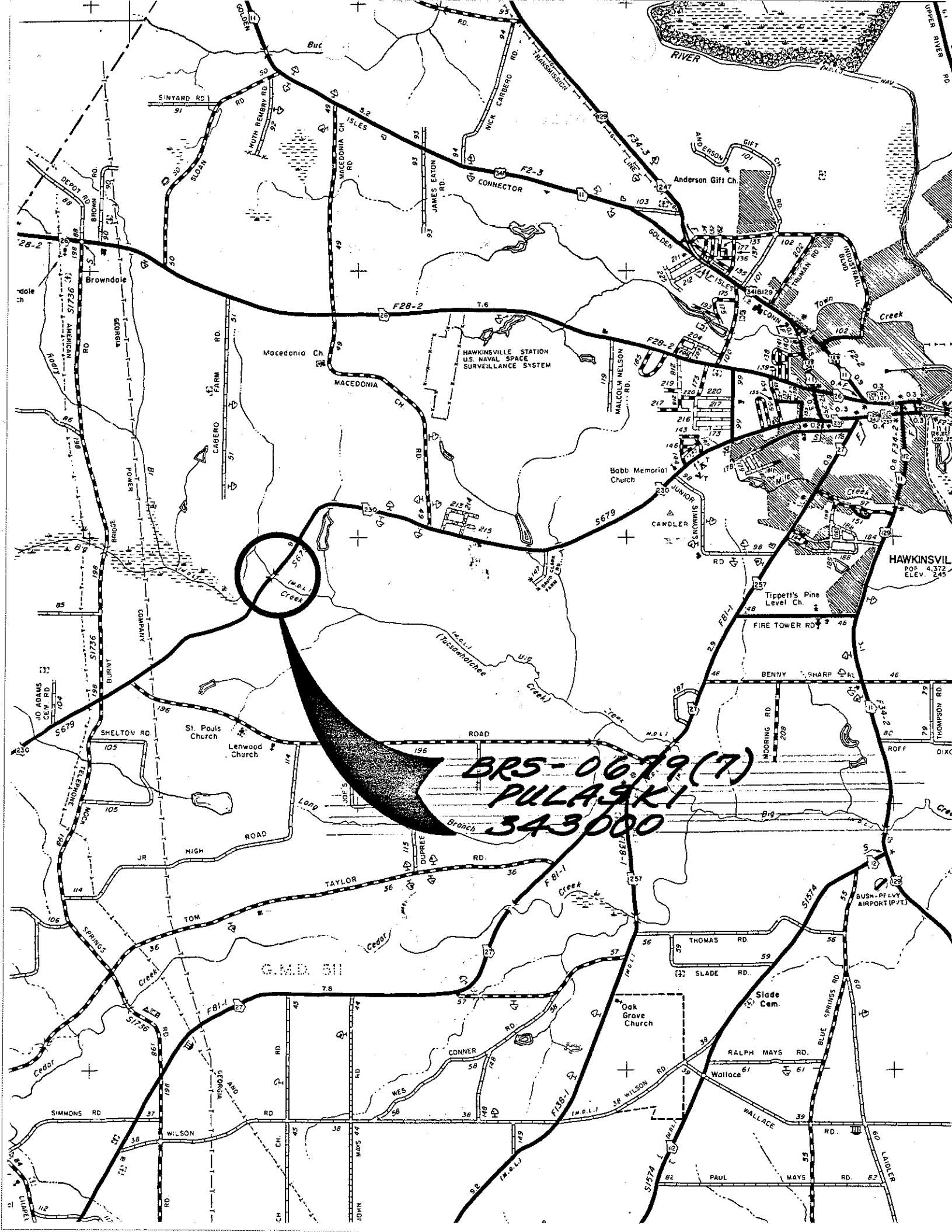
RECOMMENDATION OF APPROVAL

5-21-96 Joe B. [illegible]
Date District Engineer

Date State Road & Airport Design Engineer

Date State Environmental Engineer

Date State Bridge & Structural Design Engineer


BRS-0679(7)
PULASKI
343000
Anderson Gift Ch.
Browndale
Macedonia Ch.
HAWKINSVILLE STATION
U.S. NAVAL SPACE
SURVEILLANCE SYSTEM
Bobb Memorial
Church
HAWKINSVIL
POP. 4,372
ELEV. 245
Tippett's Pine
Level Ch.
St. Pauls
Church
Lenwood
Church
Oak
Grove
Church
Slade
Cem.
Wallace
BUSH-PF LVT
AIRPORT (PVT.)
G.M.D. 511
F28-2
F2-3
F34-3
F81-1
F138-1
S679
S1736
S1574
GOLDEN ISLES CONNECTOR
MACEDONIA CH. RD.
JAMES EATON RD.
MALCOLM NELSON RD.
JUNIOR
CANDLER
FIRE TOWER RD.
BENNY SHARP RD.
MOORING RD.
SHELTON RD.
TAYLOR
TOM
SPRINGS
CONNER
RALPH MAYS RD.
BLUE SPRINGS RD.
WALLACE RD.
SIMMONS RD.
WILSON
PAUL MAYS RD.
THOMAS RD.
SLADE RD.
Tacsonhatchee
Creek
Long
Branch
Cedar
Creek
Big
Creek
RIVER
UPPER RIVER RD.
INDUSTRIAL BLVD.
TRANSMISSION LINE
NICK CARBERO RD.
SINYARD RD.
RUTH BEMBRY RD.
SLOAN
DEPOT RD.
BROWN
AMERICAN
GEORGIA
POWER
BRIDGE
COMPANY
BURNT
CABERO
FARM
RD.
JO ADAMS CEM. RD.
TELEPHONE
MOCK
JR. HIGH ROAD
DUPREE
JOE S.
ANDERSON
GIFT CH.
TRUMAN RD.
DIXON
THOMPSON RD.
ROFF

PROJECT CONCEPT REPORT

PROJECT NO.: BRS-0679(7) **COUNTY:** Pulaski

PREVIOUS PROJECT NO.: None **ROUTE NO.:** SR 230 (S679)

LOCATION: State Route 230 over Big Creek (Tucsawhatchee Creek) west of Hawkinsville.

TRAFFIC: CURRENT ADT 950 VPD (2000) PROJECTED ADT 1500 VPD (2020)

EXISTING TYPICAL SECTION: 7.0 m asphaltic concrete paving with 0.9 m grass shoulders (rural section).

EXISTING MAJOR STRUCTURES: 114.3 m x 7.3 m bridge with steel pile foundation, steel & concrete substructure, and concrete deck. (serial # 0017-0)

EXISTING RIGHT OF WAY: 24.4 m total (est).

STATEMENT OF NEED & PURPOSE OF PROJECT:

The purpose of this project is to replace an existing narrow and structurally deficient bridge and thereby improve the operational safety of the route. This bridge has a Sufficiency Rating of 46.5.

PROJECT CONCEPT:

LENGTH: 0.8 km (est).

BEGINNING: Approx. 0.4 km west of Big Creek.

ENDING: Approx. 0.4 km east of Big Creek.

PDP CLASSIFICATION: Minor NON-CA ( ) CA ( ) EXEMPT (xx)

FUNCTIONAL CLASSIFICATION: Rural Major Collector

	EXISTING	PROPOSED	ALLOWABLE
MIN. RADIUS OF CURVE:	(Tangent)	(Tangent)	290 m
MAX. GRADE:	3 %	3 %	6 %

POSTED SPEED: 55 mph (45 advisory) **DESIGN SPEED:** 90 km/h

PROPOSED TYPICAL SECTION: Two (2) 3.3 m paved travel lanes with 1.8 m grass shoulders (rural section).

MAJOR STRUCTURES: 121.9 m x 11.6 m bridge (est).

REQUIRED RIGHT OF WAY: 30 m total (est).

DISPLACEMENTS: BUSINESSES - None RESIDENCES - None

TYPE ACCESS: Controlled by permit

TRAFFIC CONTROL DURING CONSTRUCTION: Traffic will maintained during construction by use of an on-site run-around detour constructed to the south of the existing bridge.

ESTIMATED COST: R/W $ 33,300.00

CONST. $ 1,435,670.00 TOTAL $ 1,468,970.00

UTIL. $ N/A (LGPA)

PERMITS REQUIRED: Nationwide 404 anticipated.

LEVEL OF ENVIRONMENTAL ANALYSIS: It is anticipated that this project will be considered a Categorical Exclusion.

POSSIBLE UST SITES: None **POSSIBLE H/W SITES:** None

LEVEL OF PUBLIC INVOLVEMENT: No hearings required.

TIME SAVING PROCEDURES APPROPRIATE: YES (xx) NO ( )

DESIGN EXCEPTIONS REQUIRED: None anticipated.

ALTERNATES CONSIDERED: The only feasible alternates considered were "BUILD" and "NO BUILD". The "BUILD" Alternate was chosen due to the needs and purpose of this project.

OTHER PROJECTS IN AREA: None

CONCEPT TEAM MEETING HELD: None

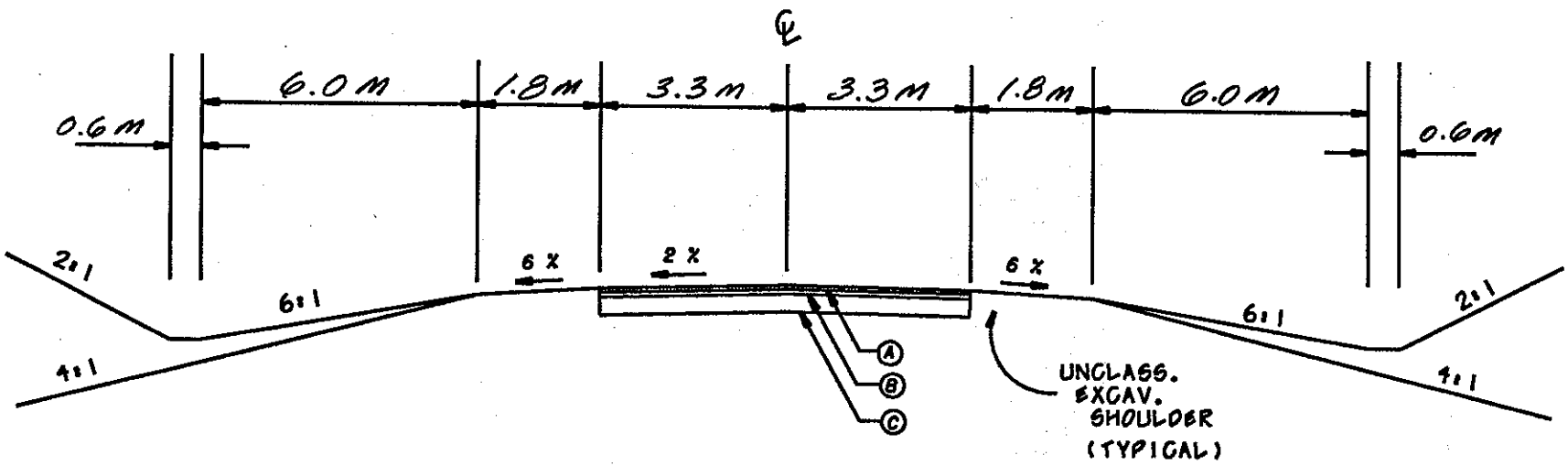
PRESENT: N/A

FIELD REVIEW HELD: Pending

COMMENTS:

TYPICAL SECTION

NO SCALE



Ⓐ = 90 Kg/m² A/C "E"

Ⓑ = 180 Kg/m² A/C "B"

Ⓒ = 200 MM GAB

PROJECT BRS-0679(7)

COUNTY PULASKI

P.I.NO. 343000

P R E L I M I N A R Y C O S T E S T I M A T E

DATE: May 8, 1996

PROJECT NO.: BRS-0679(7) Pulaski

P.I. NO.: 343000

PROJECT DESCRIPTION: Replacement of the existing bridge on State Route 230 over Big Creek (Tucsawhatchee Creek) including minor approaches and a temporary run-around detour. Estimated length of project = 0.8 km. Estimated new structure = 121.9 m x 11.6 m bridge.

PROPOSED CONCEPT: Br Repl

EXISTING ROADWAY: 7.0 m a/c paving with 0.9 m grass shoulders.

TRAFFIC: EXISTING 950 VPD (2000) DESIGN 1500 VPD (2020)

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

PROJECT COSTS

A. RIGHT OF WAY

1. Property (Land and Easements) $ 33,300.00

2. Displacements $

3. Other Costs $

SUBTOTAL $ 33,300.00

B. REIMBURSABLE UTILITIES

1. Railroad		
	$	
2. Transmission Lines		
	$	
3. Services		
	$	
SUBTOTAL	$	N/A (LGPA)

C. MAJOR STRUCTURES

1. Walls		
	$	
2. Bridge (Stream Crossing)		
121.9 m x 11.6 m bridge (est)	$	685,900.00
3. Bridge (Over/Underpass)		
	$	
4. Box/Bridge Culvert		
	$	
SUBTOTAL	$	685,900.00

D. GRADING AND DRAINAGE

1. Earthwork		
12,000 m3 @ $ 7.00	$	84,000.00
2. Drainage		
a. Cross Drain Pipes (excl. box clvts)		
	$	
b. Curb and Gutter		
	$	
c. Longitudinal System (incl. CB's)		
	$	
SUBTOTAL	$	84,000.00

E. BASE AND PAVING

1. Aggregate Base		
2700 Mg @ $ 17.00	$	45,900.00
2. Asphalt Paving		
1500 Mg @ $ 42.00	$	63,000.00
3. Concrete Paving		
	$	
4. Other		
	$	
SUBTOTAL	$	108,900.00

F. LUMP ITEMS

1. Traffic Control		
	$	30,000.00
2. Clearing and Grubbing		
2.4 hectares @ $ 7500.00	$	18,000.00
3. Landscaping		
	$	
4. Erosion Control		
	$	
5. Detours (incl. Temp. Bridges)		
	$	214,500.00
SUBTOTAL	$	262,500.00

G. MISCELLANEOUS

1. Lighting		
	$	
2. Signing/Striping		
	$	
3. Guardrail		
120 m @ $ 60.00	$	7,200.00
4. Other		
	$	
SUBTOTAL	$	7,200.00

ESTIMATE SUMMARY

A.	RIGHT OF WAY	$	33,300.00
B.	REIMBURSABLE UTILITIES	$	N/A (LGPA)

CONSTRUCTION COST SUMMARY

C.	MAJOR STRUCTURES	$	685,900.00
D.	GRADING AND DRAINAGE	$	84,000.00
E.	BASE AND PAVING	$	108,900.00
F.	LUMP ITEMS	$	262,500.00
G.	MISCELLANEOUS	$	7,200.00
	SUBTOTAL CONSTRUCTION COST	$	1,148,500.00
	E & C (10%)	$	114,850.00
	INFLATION (5% per year X 3 yrs.)	$	172,320.00
	TOTAL CONSTRUCTION COST	$	1,435,670.00

GRAND TOTAL PROJECT COST $ 1,468,970.00

This GRAND TOTAL PROJECT COST represents:

$ 1,468,970.00 within Congressional District 8.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Bridge Replacement
State Route 230 over Big Creek
Pulaski County

BRS-0679(7)

Federal Route No.: None
State Route No: 230
GaDOT P.I.No.: 343000

SEE LOCATION SKETCH
(Next Page)

Date of Report: May 8, 1996

RECOMMENDATION OF APPROVAL

5-21-96 Joe B. [illegible]
Date District Engineer

Date State Road & Airport Design Engineer

Date State Environmental Engineer

5/24/96 Paul V. Liles Jr.
Date State Bridge & Structural Design Engineer

PROJECT CONCEPT:

LENGTH: 0.8 km (est).

BEGINNING: Approx. 0.4 km west of Big Creek.

ENDING: Approx. 0.4 km east of Big Creek.

PDP CLASSIFICATION: Minor NON-CA ( ) CA ( ) EXEMPT (xx)

FUNCTIONAL CLASSIFICATION: Rural Major Collector

	EXISTING	PROPOSED	ALLOWABLE
MIN. RADIUS OF CURVE:	(Tangent)	(Tangent)	290 m
MAX. GRADE:	3 %	3 %	6 %

POSTED SPEED: 55 mph (45 advisory) **DESIGN SPEED:** 90 km/h

PROPOSED TYPICAL SECTION: Two (2) 3.3 m paved travel lanes with 1.8 m grass shoulders (rural section).

MAJOR STRUCTURES: 121.9 m x ~~11.6~~ 11.4 m bridge (est).

REQUIRED RIGHT OF WAY: 30 m total (est).

DISPLACEMENTS: BUSINESSES - None RESIDENCES - None

TYPE ACCESS: Controlled by permit

TRAFFIC CONTROL DURING CONSTRUCTION: Traffic will maintained during construction by use of an on-site run-around detour constructed to the south of the existing bridge.

ESTIMATED COST: R/W $ 33,300.00

CONST. $ 1,435,670.00 TOTAL $ 1,468,970.00

UTIL. $ N/A (LGPA)

PERMITS REQUIRED: Nationwide 404 anticipated.

LEVEL OF ENVIRONMENTAL ANALYSIS: It is anticipated that this project will be considered a Categorical Exclusion.

POSSIBLE UST SITES: None **POSSIBLE H/W SITES:** None

LEVEL OF PUBLIC INVOLVEMENT: No hearings required.

TIME SAVING PROCEDURES APPROPRIATE: YES (xx) NO ( )

DESIGN EXCEPTIONS REQUIRED: None anticipated.