

D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

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INTERDEPARTMENT CORRESPONDENCE

**FILE** P. I. No. 0002842, Candler County **OFFICE** Preconstruction  
BR-0002-00(842)  
CR 223 at Big Branch and Lotts Creek **DATE** July 20, 2006

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

**TO** SEE DISTRIBUTION

**SUBJECT** APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

MBP/cj

Attachment

**DISTRIBUTION:**

Brian Summers  
Harvey Keepler  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Joe Palladi (file copy)  
Babs Abubakari  
Glenn Durrence  
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

Interdepartmental Correspondence

RECEIVED

JUL 14 2006

BY:

Office : Jesup

File: BR-0002-00(842) Candler County  
Desc. C.R. 223 @ Big Branch and Lotts Creek  
P.I. No. 0002842

Date: 7/12/06

From: Glenn W. Durrence, P.E., District Engineer 

To: Meg Pirkle, Asst. Director of Preconstruction

Subject: Revised Project Concept Report

Remarks:

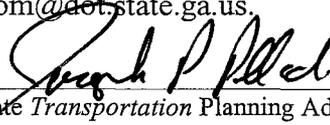
Attached is the original copy of the revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

The revision consists of for the replacement of the bridges over Big Branch and Lotts Creek on C.R. 223 / Portal Highway in Candler County 6.4 miles north of Metter.

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

If there are any questions or if additional information is needed, please contact Dennis Odom at (912) 427-5716 or e-mail at [Dennis.Odom@dot.state.ga.us](mailto:Dennis.Odom@dot.state.ga.us).

DATE 7/18/06

  
State Transportation Planning Administrator

GWD:ADO: td

Copies to:

Teresa Scott, District Planning and Programming  
Anthony Collins, Preconstruction Engineer  
Dennis Odom, District Design Engineer  
Brian Summers, Project Review Engineer  
Harvey Keeper, State Environmental/Location Engineer  
Keith Golden, State Traffic Safety and Design Engineer  
Joe Palladi P.E., State Transportation Planning Administrator  
Jamie Simpson, State Financial Management Administrator  
Paul Liles, State Bridge Design Engineer (only for those projects that involve structures)  
General File Unit, Atlanta  
Jesup Files

## REVISED PROJECT CONCEPT REPORT

**Need and Purpose:** This project is needed to replace two bridges with substandard load capacity, and deck geometry. The existing bridges were built in 1953. These are located on C.R. 223/Portal Highway over Big Branch and Lotts Creek, have sufficiency ratings of 24.11 and 16.9, and were designed for H-15 live loading. Bridges with a rating under 50 and H-15 live loading do not meet current standards under TOPPS directive 2405-1. The existing bridge decks, which are 27.5 ft. wide, will be replaced with bridges which are 40 ft. wide. This will meet the guidelines of TOPPS directive 4265-9.

**Project Location:** The approximate length of this project is 0.78 miles. The project is located 6.4 miles North of the City Limits of Metter Georgia, on C.R. 223 / Portal Highway at Big Branch and Lotts Creek.

**Description of the approved concept:** The approved concept consists of replacing the bridges, and reworking the shoulders and slopes to accommodate the guardrail. The new bridges will be constructed on new alignment on the west side of the existing bridge. Traffic will be maintained by using the existing alignment. The concept proposes to satisfy the Need and Purpose by replacing two substandard load capacity and deck geometry bridges, while at the same time placing guardrail, and upgrading shoulders to accommodate guardrail.

**PDP Classification:** Major \_\_\_\_\_ Minor X

**Federal Oversight:** Full Oversight( ), Exempt (X), SF ( ), Other ( )

**Functional Classification:** Rural Minor Arterial

**U.S. Route Number(s):**None

**State Route Number(s):** None

**Traffic (AADT) as shown in the approved concept:**

Current Year: (2008) 1750

Design Year:(2028) 2800

**Proposed features to be revised:**

- **Project Termini:** The current approximate length of the project is 0.78 miles. The project is located 6.4 miles North of the City Limits of Metter Georgia, on C.R. 223 / Portal Highway at Big Branch and Lotts Creek. The new bridges were to be constructed on new alignment on the west side of the existing bridge.
- **Traffic control during construction:** Traffic was to be maintained on the existing alignment while the proposed bridges were being constructed.

**Describe the revised feature(s) to be approved:**

- **Project Termini:** The current approximate length of the project is 0.79 miles. The project is located 6.4 miles North of the City Limits of Metter Georgia, on C.R. 223 / Portal Highway at Big Branch and Lotts Creek. The bridge at Big Branch is to be constructed on the existing alignment and the bridge at Lotts Creek is to be constructed on the west side of the existing bridge.

- Traffic control during construction: Road will be closed during construction. Candler and Bulloch Counties will be responsible for the detour.

**Updated traffic data (AADT):**

Current Year: (2008) 1750

Design Year:(2028) 2800

**Programmed/Schedule:**

PE 2002 R/W: LOCL Construction: 2007

**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.

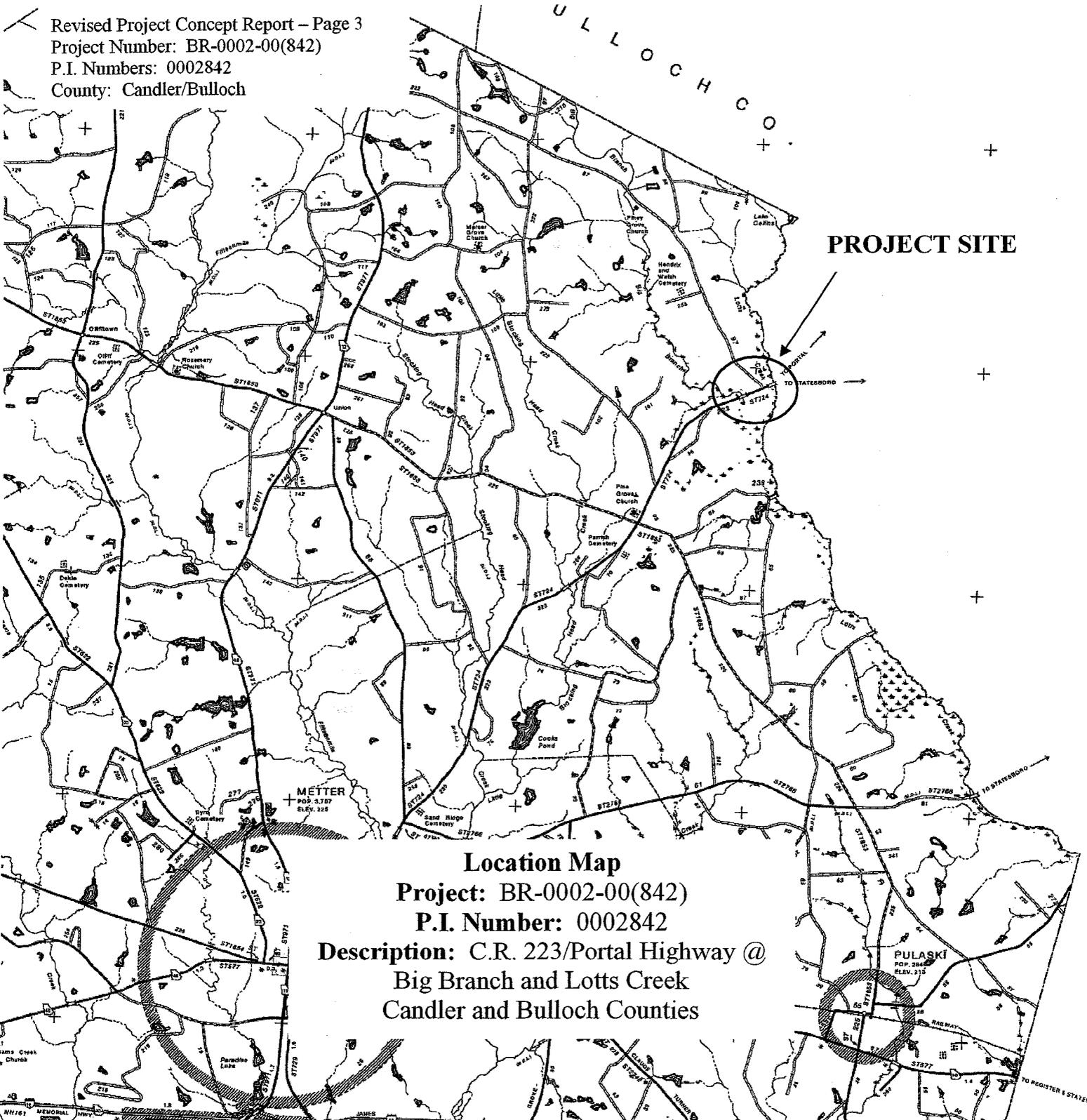
**Attachments:**

1. Sketch Map
2. Cost Estimate

Concur: Buddy [Signature]  
Director of Preconstruction

Approve: [Signature]  
Chief Engineer

Revised Project Concept Report – Page 3  
Project Number: BR-0002-00(842)  
P.I. Numbers: 0002842  
County: Candler/Bulloch



**Location Map**  
**Project: BR-0002-00(842)**  
**P.I. Number: 0002842**  
**Description: C.R. 223/Portal Highway @**  
**Big Branch and Lotts Creek**  
**Candler and Bulloch Counties**

# PRELIMINARY COST ESTIMATE

DATE: July 3, 2006

PROJECT NUMBER: BR-0002-00(842) Candler / Bulloch County

P.I. NUMBER: 0002842

Project Description: C.R. 223/ Portal Highway @ Big Branch Creek and Lotts Creek

PROPOSED REVISED CONCEPT: Replace substandard load capacity and geometry bridges

TRAFFIC:            EXISTING: (2008) adt = 1750            DESIGN: (2028) adt = 2800

Program Process ( )    Concept Development (X)    Project Development ( )

## PROJECT COSTS

### A. RIGHT OF WAY:

1. PROPERTY: 5 acres @ \$1500/ac	
	\$7,500
2. DISPLACEMENTS \$ RELOCATIONS -	
	\$0.00
3. OTHER COSTS (ADM./COURT/INFLATION) -	
	\$1,600
SUBTOTAL =====	<hr/>
	\$9,100

### B. REIMBURSABLE UTILITIES: LGPA

1. TELEPHONE LINES -	
	\$0
2. TRANSMISSION LINES -	
	\$12,000
3. SERVICES -	
	\$0
SUBTOTAL =====	<hr/>
	\$12,000

### C. MAJOR STRUCTURES:

2. BRIDGE- stream crossing - 180' X 40' @ \$53 sq. ft.	
BRIDGE- stream crossing - 240' X 40' @ \$53 sq. ft.	
	\$890,400
3. BRIDGE - Removal of old bridge - 90' x 27.5' @ \$10 sq. ft.	
BRIDGE - Removal of old bridge - 210' x 27.5' @ \$10 sq. ft.	
	\$82,500
SUBTOTAL =====	<hr/>
	\$972,900

D. GRADING AND DRAINAGE:

1. EARTHWORK

43650 cu. Yds. @ \$2.50 cu. Yd.

\$108,900

\$0

2. DRAINAGE

a. CROSS DRAIN PIPES (exc. Box culverts) - 120lf @ \$31/lf

\$3,800

b. CURB & GUTTER - lf X \$12/lf

\$0

c. LONGITUDINAL SYSTEM (incl. Catch Basins) -

\$0

SUBTOTAL =====

\$112,700

E. BASE AND PAVING:

1. AGGREGATE BASE - 11100 sq yd @ \$6.50 sq yd

\$72,150

2. ASPHALT PAVING - 3300 tn @ \$35 tn

\$115,500

3. CONCRETE PAVING - Appr slab - 270 sq yd @ \$120 sq yd

\$32,400

4. OTHER (driveways, mill existing paving, etc.) -

\$12,000

SUBTOTAL =====

\$232,050

F. LUMP SUM ITEMS:

1. EROSION CONTROL -

\$62,000

2. CLEARING & GRUBBING -

\$28,000

3. TRAFFIC CONTROL -

\$0

5. DETOURS (incl Temp. bridges) -

\$0

SUBTOTAL =====

\$90,000

G. MISCELLANEOUS:

1. LIGHTING -

\$0

2. SIGNING & STRIPING -

\$4,000

3. GUARDRAIL -

\$15,000

SUBTOTAL =====

\$19,000

**ESTIMATE SUMMARY**

A. RIGHTS-OF-WAY -----	\$9,100
B. REIMBURSABLE UTILITIES -----	\$12,000

**CONSTRUCTION COST SUMMARY**

C. MAJOR STRUCTURES -----	\$972,900
D. GRADING AND DRAINAGE -----	\$112,700
E. BASE AND PAVING -----	\$232,050
F. LUMP SUM ITEMS -----	\$90,000
G. MISCELLANEOUS -----	\$19,000
SUBTOTAL CONSTRUCTION COST -----	\$1,426,650
E & C (10%) -----	\$142,665
INFLATION ( 2 YRS @ 5% /YR) -----	\$142,665
TOTAL CONSTRUCTION COST =====	\$1,711,980
GRAND TOTAL PROJECT COST =====	\$1,733,080