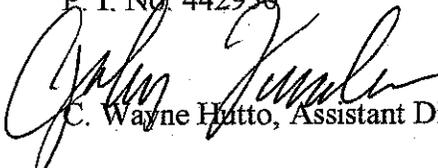


D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0510(12) Calhoun County **OFFICE** Preconstruction
P. I. No. 442958
DATE January 17, 2002
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

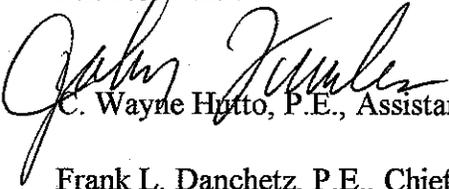
DISTRIBUTION:

Tom Turner
David Mulling
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Phillip Allen
Marta Rosen
Paul Liles
Ben Buchan
David Crim
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0510(12) Calhoun County **OFFICE** Preconstruction
P.I. No. 442950
DATE January 10, 2002

FROM  C. Wayne Hutto, P.E., Assistant Director of Preconstruction

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

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on SR 216 over Little Pachitla Creek, 1.0 mile north of Edison, Georgia. The existing bridge, constructed in 1955, is load limited with a sufficiency rating of 37. State Route 216 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 216 is functionally classified as a rural minor collector and is a designated school bus route. Traffic is projected to be 1,200 VPD and 2,000 VPD in the years 2006 and 2026 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 216 south of its present location, extending a total of 0.44 mile. The proposed new bridge will be 160' x 40' and will be located just south of the existing bridge structure. The relocated SR 216 will consist of two, 12' lanes with 10' rural shoulders (2' paved). Traffic will be maintained on the existing bridge while the proposed bridge is constructed.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; time saving procedures are appropriate.

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) | \$1,419,000 | \$1,100,000 | 2003 | 02-07 |
| Right-of-Way | \$ 22,000 | \$ 10,000 | | |
| Utilities* | LGPA | LGPA | | |

*Calhoun County signed LGPA for utilities 7-12-99.

Frank L. Danchetz
Page 2

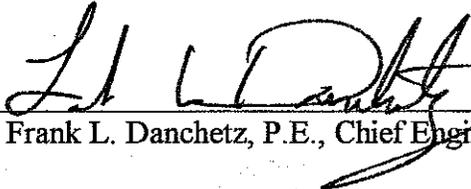
BRST-0510(12) Calhoun
January 10, 2002

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

CWH:JDQ/cj

Attachment

CONCUR 
Thomas L. Turner, P.E., Director of Preconstruction

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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-0510(12) Calhoun
P.I. Number 442950-

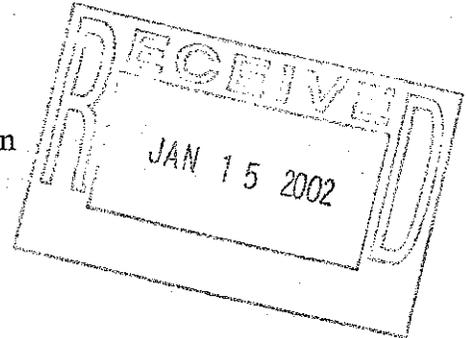
OFFICE: Engineering Services

DATE: January 15, 2002.

FROM: David Mulling, ^{DM}Project Review Engineer

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT



We have reviewed the concept report submitted December 27, 2001 by the letter from James B. Buchan dated December 20, 2001, and have the following comments:

1. Since cost was the basis for the elimination of the on-site detour, a cost estimate needs to be provided for the project costs with the on-site detour. The cost items should be presented in the same manner as the proposed alternate.

The costs for the project are:

| | |
|------------------------|----------------------|
| Construction | \$1,228,000 |
| Inflation | \$ 62,000 |
| E&C | \$ 129,000 |
| Reimbursable Utilities | \$ 10,000 |
| Right of Way | \$ 22,000 <i>del</i> |

DTM

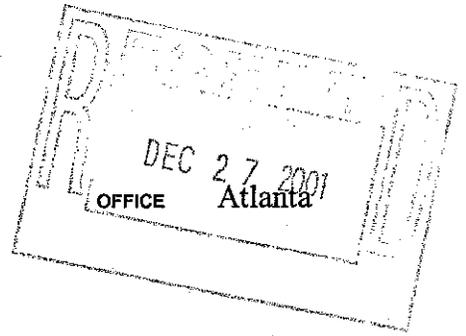
c: Ben Buchan

SCORING RESULTS AS PER MOG 2440-2

| | | | | | | |
|---|--------------|---|---|---|--|--|
| Project Number: BRST-0510(12) | | County: CALHOUN | | PI No.: 442950- | | |
| Report Date: 12/20/01 | | | Concept By: | | | |
| | | | DOT Office: CONSULTANT DESIGN | | | |
| <input checked="" type="checkbox"/> CONCEPT | | | | | | |
| | | | Consultant: HNTB | | | |
| Project Type: Choose One From Each Column | | <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor | <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural | <input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge <input type="checkbox"/> Building <input type="checkbox"/> Interchange <input type="checkbox"/> Intersection <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous | | |
| FOCUS AREAS | SCORE | RESULTS | | | | |
| Presentation | 80% | Since cost was basis for elimination of on-site detour alternate, project cost estimate needed with items presented same as proposed cost estimate. 5 years inflation used with construction letting scheduled for Dec. 2002. | | | | |
| Judgement | 100% | | | | | |
| Environmental | 100% | | | | | |
| Right of Way | 100% | | | | | |
| Utility | 100% | | | | | |
| Constructability | 100% | | | | | |
| Schedule | 100% | | | | | |

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE



FILE **BRST-0510(12) Calhoun County**
SR 216 over Little Pachitla Creek 1 mi N of Edison
P.I. No. 442950-

FROM *James B. Buchan, MBA*
James B. Buchan, State Consultant Design Engineer

DATE December 20, 2001

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT **PROJECT CONCEPT REPORT**

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

Those on the distribution list below should review the Concept Report and send comments and/or the signature page to the Preconstruction Office within 10 days as per the PDP.

If you have any questions or require further information please call Ted Cashin at (404)463-6135 or Larry Cook of HNTB Corporation at (770) 956-5770.

Distribution:

David Mulling, Project Review Engineer
Harvey Keepler, State Environmental/Location Engineer
Phillip Allen, State Traffic Safety and Design Engineer
Marta Rosen, State Transportation Planning Administrator
Herman Griffin, State Transportation Programming Engineer
David Crim, District Engineer - Tifton
Paul Liles, State Bridge & Structural Engineer

MBA
JBB:MBA:EJC

cc: HNTB Corporation

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Office of Consultant Design*

Project Number: BRST-0510(12)

County: Calhoun

P. I. Number: 442950

Federal Route Number: N/A

State Route Number: 216

Recommendation for approval:

DATE 12-20-01



Project Manager

DATE 12-21-01

James B. Buchanan, MBA
State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

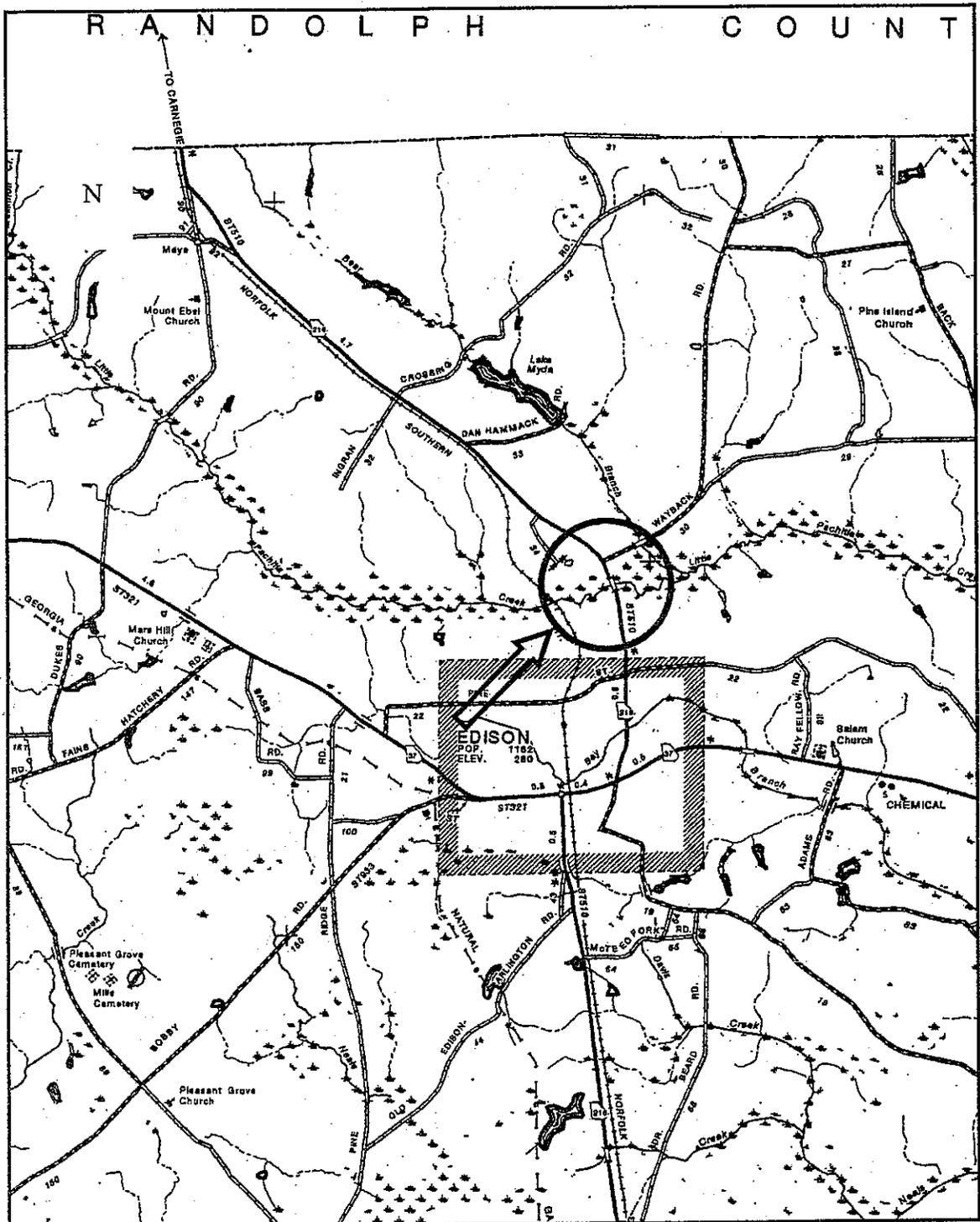
District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer



Scale: 1 inch = 1 mile

Location Map

Project: BRST-0510(12) Calhoun County PI No.: 442950
Description: SR 216 over Little Pachitla Creek 1 mi N of Edison

Need and Purpose:

This project will replace the existing bridge on SR 216 at Little Pachitla Creek located approximately 1 mile north of Edison in Calhoun County. The existing bridge was constructed in 1955, has a sufficiency rating of 37.81 and has design load of H-15. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement.

The section of SR 216 is functionally classified as a rural minor collector road. The bridge is located on a section of SR 216 that is a designated school bus route and has a posted speed limit of 55 mph. The Average Daily Traffic (AADT) along this section of roadway was 1,200 in 2001. Traffic is projected to increase to 2,000 AADT by the year of 2026 with 7% trucks.

Land use along this section of roadway is residential with some agricultural located off the highway. This section of SR 216 is not currently a part of the Statewide Bicycle and Pedestrian Plan. There are no other Department of Transportation projects in the area.

This project does not disproportionately burden or benefit any particular community. This project is in a census block that the 2000 Census reports has more than 50% minority residents. The Census block also has no residents living below the poverty level.

Replacing this bridge will bring it up to current design standards.

Description of the proposed project: The proposed project would consist of replacing the existing bridge and approaches on SR 216 over Little Pachitla Creek. The existing 2-lane bridge is 135 feet long and 28 feet wide and has 5 spans, each approximately 27 feet long. The proposed bridge will be 40 feet wide, consisting of two 12-foot lanes with two 8-foot shoulders. The proposed bridge is expected to be approximately 160 ft. in length and have 4 spans, each approximately 40 ft. long. The existing approach roadway has 2 lanes with rural shoulders on an existing right-of-way of 100 feet. The proposed approaches would consist of two 12-foot lanes with 10-foot shoulders, 2 feet of which will be paved. Additional right-of-way acquisition on both sides of the road is anticipated. The total length of bridge and approaches is approximately 2330 feet (0.44 miles). The required bridge will be constructed on an offset alignment.

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

PDP Classification:

Full Oversight (), Exempt (X), State Funded (), or Other ()

Functional Classification: Rural Minor Collector

U. S. Route Number(s): N/A

State Route Number(s): 216

Traffic (AADT):

Current Year: (2001) 1200 Design Year: (2026) 2000
K = 11%, D = 65%, T = 7%, 24-Hr. T = 11%, S.U. = 5%, COMB. = 6%

Existing design features:

- Typical Section: The existing roadway is a two lane rural section with 12-foot travel lanes, shoulders, and ditches.
- Posted speed: 55 mph Maximum degree of curvature: 3°00'
- Maximum grade: 6%
- Width of right of way: 100 ft.
- Major structures: Existing Bridge Over Little Pachitla Creek
 Length: 135'
 Width: 28'
 Sufficiency Rating: 37.8
- Major interchanges or intersections along the project: N/A
- Existing length of roadway segment: 2330'

Proposed Design Features:

- Proposed typical section(s): The proposed typical section will consist of two 12-foot travel lanes, 10-foot shoulders (2-foot paved, 8-foot grass) and normal roadway ditch sections.
- Proposed Design Speed Mainline: 55 mph
- Proposed Maximum grade Mainline: 4.86% Maximum grade allowable: 6%
- Proposed Maximum grade Side Street: 4% Maximum grade allowable: 6%
- Proposed Maximum grade driveway: 10%
- Proposed Maximum degree of curve: 3°00' Maximum degree allowable: 6°00'
- Right of way:
 - Width: 180 ft. maximum
 - Easements: Temporary (X), Permanent (), Utility (), Other ()
 - Type of access control: Full (), Partial (), By Permit (X), Other ()
 - Number of parcels: 6
 - Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges: The proposed bridge over Little Pachitla Creek will have an approximate length of 160' and a width of 40', which includes two 12-foot travel lanes and 8-foot shoulders.
 - Retaining walls: N/A
- Major intersections and interchanges: County Road 30
- Traffic control during construction: Existing bridge will remain open while offset alignment is being constructed.

- Design Exceptions to controlling criteria anticipated:

| | <u>UNDETERMINED</u> | <u>YES</u> | <u>NO</u> |
|-----------------------------|---------------------|------------|-----------|
| HORIZONTAL ALIGNMENT: | () | () | (x) |
| ROADWAY WIDTH: | () | () | (x) |
| SHOULDER WIDTH: | () | () | (x) |
| VERTICAL GRADES: | () | () | (x) |
| CROSS SLOPES: | () | () | (x) |
| STOPPING SIGHT DISTANCE: | () | () | (x) |
| SUPERELEVATION RATES: | () | () | (x) |
| HORIZONTAL CLEARANCE: | () | () | (x) |
| SPEED DESIGN: | () | () | (x) |
| VERTICAL CLEARANCE: | () | () | (x) |
| BRIDGE WIDTH: | () | () | (x) |
| BRIDGE STRUCTURAL CAPACITY: | () | () | (x) |

- Design Variances: None
- Environmental concerns: Environmental study underway
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate: Yes (X) No ()
 - Categorical Exclusion: Anticipated (X)
 - Environmental Impact Statement (EIS) ()
- Utility involvements:
 - Alltel of Georgia
 - Pataula EMC

Project responsibilities:

- | | |
|-------------------------------|---|
| ○ Design | Wolverton & Associates, Inc./ Ralph Whitehead & Associates |
| ○ Right of Way Acquisition | Georgia Department of Transportation |
| ○ Relocation of Utilities | Georgia Department of Transportation |
| ○ Letting to contract | Georgia Department of Transportation |
| ○ Supervision of construction | Georgia Department of Transportation |
| ○ Providing material pits | Georgia Department of Transportation |
| ○ Providing detours | Georgia Department of Transportation |

Coordination:

- Concept meeting date: December 3, 2001
- P. A. R. meetings: None
- Public involvement: No public involvement anticipated
- Local government comments: None

- Other projects in the area: None
- Other coordination to date: None

Scheduling – Responsible Parties' Estimate:

- Time to complete the environmental process: 9 Months
- Time to complete preliminary construction plans: 5 Months
- Time to complete right of way plans: 1 Month
- Time to complete the Section 404 Permit: Months
- Time to complete final construction plans: 4 Months
- Time to complete to purchase right of way: 6 Months
- List other major items that will affect the project schedule: N/A

Alternates considered:

Permanent Alignment

On-Site Detour

Off-Site Detour

No Build

Comments: It was determined that the other alternates were not feasible. A brief explanation is as follows:

1. On-Site Detour: This alternate was discarded because of excessive estimated cost of \$567,000 for building a detour bridge. The horizontal alignment lended itself to building the bridge on a permanent offset alignment downstream of the existing bridge. This new alignment does not introduce any new curves and is more cost effective than building a temporary detour.
2. Off-site detour: There were no adjacent roads that would serve as a convenient off-site detour. The shortest detour is approximately 9 miles.
3. No Build: The Structural Evaluation Rating for the bridge is a 2 and the Sufficiency Rating is a 37.8. Under department guidelines a Sufficiency Rating below 50 requires that the bridge be replaced. The No Build alternate was not a viable option.

Attachments:

1. Cost Estimates:
 - a. Construction including E&C,
 - b. Right of Way, and
 - c. Utilities
2. Typical sections
3. Concept layout
4. Bridge inventory
5. Concept Team Meeting Minutes
6. LGPA Agreement
7. Sufficiency Rating Change
6. Location and Design Notice

PRELIMINARY COST ESTIMATE

BIG BRIDGE WORK ORDER NUMBER 17 - S.R. 216 Bridge over Little Pachitla Creek

PROJECT NUMBER: BRST-0510(12) COUNTY: Calhoun

DATE: 10/15/01 ESTIMATED LETTING DATE: -

PREPARED BY: Wolverton & Assoc, Inc. PROJECT LENGTH (MILES): 0.44

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

| PROJECT COST | | | | |
|--|------|------------|----------|------------|
| ITEM | UNIT | UNIT PRICE | QUANTITY | COST |
| A. RIGHT-OF-WAY: | | | | |
| 1. PROPERTY (LAND & EASEMENT): | AC | \$5,000 | 3.02 | \$ 15,100 |
| 2. DISPLACEMENTS: RES 0; BUS 0; MH 0 | EA | \$125,000 | 0 | \$ 0 |
| 3. OTHER COST (ADM./ COST, INFLATION) | EA | \$1,200 | 5 | \$ 6,000 |
| SUBTOTAL: A | | | | \$ 21,100 |
| B. REIMBURSABLE UTILITIES: (LGPA) | | | | |
| 1. RAILROAD | EA | \$20,000 | 0 | \$ 0 |
| 2. TRANSMISSION LINES | EA | \$20,000 | 0 | \$ 0 |
| 3. SERVICES | EA | \$10,000 | 1 | \$ 10,000 |
| SUBTOTAL: B | | | | \$ 10,000 |
| CONSTRUCTION | | | | |
| C. MAJOR STRUCTURES: | | | | |
| 1. RETAINING WALLS | SF | \$62 | 0 | \$ 0 |
| 2. BRIDGES | SF | \$55 | 6400 | \$ 352,000 |
| 3. DETOUR BRIDGES | SF | \$40 | 0 | \$ 0 |
| 4. REMOVAL OF EXISTING BRIDGE | SF | \$10 | 3780 | \$ 37,800 |
| 5. BOX CULVERTS | | | | \$ 0 |
| SUBTOTAL: C | | | | \$ 389,800 |

PROJECT COST

| ITEM | UNIT | UNIT PRICE | QUANTITY | COST |
|--|------|------------|----------|-------------------|
| D. GRADING, DRAINAGE AND EROSION CONTROL: | | | | |
| 1. EARTHWORK | | | | |
| a. Permanent Borrow: | CY | \$4 | 30022 | \$ 120,087 |
| b. Permanent Excavation: | CY | \$6 | 1987 | \$ 11,923 |
| c. Detour Borrow: | CY | \$4 | 0 | \$ 0 |
| d. Detour Excavation: | CY | \$6 | 0 | \$ 0 |
| SUBTOTAL: D-1 | | | | \$ 132,010 |
| 2. DRAINAGE: | | | | |
| a. Cross Drain Pipe | LS | LUMP SUM | LUMP SUM | \$ 0 |
| b. Curb and Gutter | FT | \$12 | 0 | \$ 0 |
| c. Longitudinal System | LS | LUMP SUM | LUMP SUM | \$ 10,352 |
| SUBTOTAL D-2 | | | | \$ 10,352 |
| 3. TEMPORARY EROSION CONTROL: | | | | |
| a. Silt Fence - Type A | FT | \$3 | 2361 | \$ 11,805 |
| b. Straw Bales or Silt Fence - Type B | FT | \$2 | 6710 | \$ 15,098 |
| c. Silt Fence - Type C | FT | \$5 | 826 | \$ 3,922 |
| d. Temporary Grass | LB | \$37 | 93 | \$ 3,430 |
| e. Temporary Mulch | TN | \$500 | 9.27 | \$ 4,635 |
| f. Silt Control Gates | EA | \$650 | 8 | \$ 5,200 |
| g. Check Dams/ Ditch Checks | EA | \$300 | 0 | \$ 0 |
| h. Sediment Basins | EA | \$6,000 | 0 | \$ 0 |
| SUBTOTAL: D-3 | | | | 44,091 |
| 4. PERMANENT EROSION CONTROL: | | | | |
| a. Concrete Ditch Paving | SY | \$30 | 352 | \$ 10,550 |
| b. Permanent Soil Reinforcing Mat | SY | \$7 | 5627 | \$ 37,980 |
| c. Bituminous Treated Roving | SY | \$3 | 1055 | \$ 2,901 |
| d. Rip Rap for Bridge End Rolls | SY | \$38 | 320 | \$ 12,170 |
| e. Erosion Blankets or Mats | SY | \$3 | 480 | \$ 1,201 |
| f. Permanent Grassing | AC | \$1,595 | 6.18 | \$ 9,857 |
| SUBTOTAL: D-4 | | | | \$ 74,659 |
| SUBTOTAL: D | | | | \$ 261,112 |

PROJECT COST

| ITEM | UNIT | UNIT PRICE | QUANTITY | COST |
|-------------------------------|------|------------|----------------------|-------------------|
| E. BASE AND PAVING: | | | | |
| 1. PERMANENT ROADWAY | | | | |
| a. Aggregate Base | TN | \$16 | 4253.76 | \$ 68,060 |
| b. Surface | TN | \$39 | 541.57 | \$ 20,850 |
| c. Binder | TN | \$37 | 722.09 | \$ 26,356 |
| d. Base | TN | \$38 | 2166.27 | \$ 82,318 |
| e. Leveling | TN | \$39 | 10.00 | \$ 393 |
| f. Tack Coat | GAL | \$1 | 787.73 | \$ 867 |
| g. Approach Slabs | SY | \$106 | 267 | \$ 28,133 |
| | | | SUBTOTAL: E-1 | \$ 226,977 |
| 2. DETOUR ROADWAY | | | | |
| a. Aggregate Base | TN | \$16 | 0.00 | \$ 0 |
| b. Surface | TN | \$39 | 0.00 | \$ 0 |
| c. Binder | TN | \$37 | 0.00 | \$ 0 |
| d. Leveling | TN | \$39 | 0.00 | \$ 0 |
| e. Tack Coat | GAL | \$1 | 0.00 | \$ 0 |
| f. Approach Slabs | SY | \$106 | 0 | \$ 0 |
| | | | SUBTOTAL: E-2 | \$ 0 |
| | | | SUBTOTAL: E | \$ 226,977 |
| F. LUMP ITEMS: | | | | |
| 1. TRAFFIC CONTROL | LS | LUMP SUM | LUMP SUM | \$ 50,000 |
| 2. CLEARING AND GRUBBING | AC | \$19,750 | 7.49 | \$ 147,898 |
| | | | SUBTOTAL: F | \$ 197,898 |
| G. MISCELLANEOUS: | | | | |
| 1. FENCING AND SIGNING | | | | |
| a. Fencing | LF | \$13 | 0 | \$ 0 |
| b. Signs & Posts | EA | \$222 | 23 | \$ 5,161 |
| c. Signals | EA | \$37,000 | 0 | \$ 0 |
| | | | SUBTOTAL: G-1 | \$ 5,161 |

PROJECT COST

| ITEM | UNIT | UNIT PRICE | QUANTITY | COST |
|----------------------|------|------------|----------|------------------|
| 2. STRIPING | | | | |
| a. 5 In White Solid | LM | \$260 | 1 | \$ 229 |
| b. 5 In Yellow Solid | LM | \$262 | 1 | \$ 231 |
| SUBTOTAL: G-2 | | | | \$ 461 |
| 3. GUARDRAIL | | | | |
| a. Type W | LF | \$12 | 1892 | \$ 23,182 |
| b. Type T | LF | \$50 | 83 | \$ 4,129 |
| c. Type 12 Anchors | EA | \$1,500 | 2 | \$ 3,000 |
| d. Type 1 Anchors | EA | \$435 | 2 | \$ 870 |
| e. Removal | LF | \$9 | 400 | \$ 3,400 |
| SUBTOTAL: G-3 | | | | \$ 34,581 |
| SUBTOTAL: G | | | | \$ 40,203 |

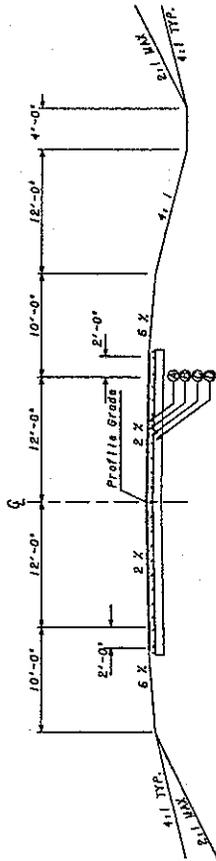
PROJECT COST

| ITEM | UNIT | UNIT PRICE | QUANTITY | COST |
|------|------|------------|----------|------|
|------|------|------------|----------|------|

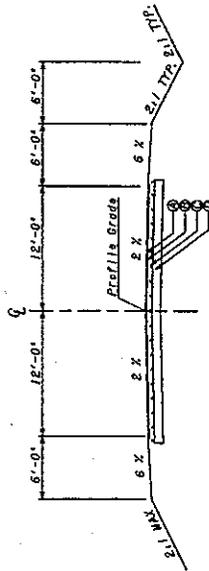
ESTIMATE SUMMARY

| | | | | |
|--|-----------------|--|---|--------------|
| A. RIGHT-OF-WAY | | | | \$ 21,100 |
| B. REIMBURSABLE UTILITIES | | | | \$ 10,000 |
| CONSTRUCTION | | | | |
| C. MAJOR STRUCTURES | | | | \$ 389,800 |
| D. GRADING, DRAINAGE AND EROSION CONTROL | | | | \$ 261,112 |
| E. BASE AND PAVING | | | | \$ 226,977 |
| F. LUMP ITEMS | | | | \$ 197,898 |
| G. MISCELLANEOUS | | | | \$ 40,203 |
| CONTINGENCIES (10%) | | | | \$ 111,599 |
| SUBTOTAL CONSTRUCTION COST | | | | \$ 1,227,590 |
| INFLATION (5% PER YEAR) | | | | \$ 339,160 |
| | NUMBER OF YEARS | | 5 | |
| E. & C. (10%) | | | | \$ 156,675 |
| | | | | |
| TOTAL CONSTRUCTION COST | | | | \$ 1,723,425 |
| | | | | |
| GRAND TOTAL PROJECT COST | | | | \$ 1,754,525 |
| | | | | |
| GRAND TOTAL PROJECT COST (DETOUR) | | | | \$ 0 |
| | | | | |
| GRAND TOTAL PROJECT COST (PERMANENT) | | | | \$ 1,754,525 |

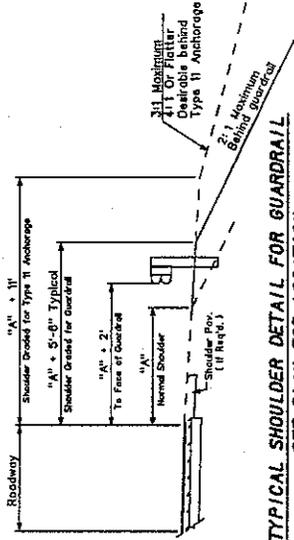
STATE PROJECT NUMBER
 GA. BRST-0510(12)



TYPICAL ROADWAY SECTION



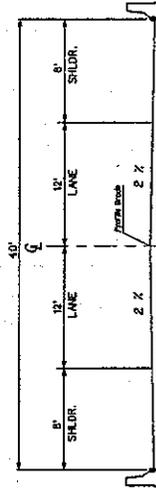
TYPICAL DETOUR SECTION



TYPICAL SHOULDER DETAIL FOR GUARDRAIL
 SEE PLAN FOR LOCATION

| SLOPE CONTROLS | |
|----------------|-------------------|
| CUT | FILL |
| 4:1 | 0-10' |
| 2:1 | OVER 10' OVER 10' |

*REQUIRES GUARDRAIL



TYPICAL BRIDGE SECTION

DRAWING No.

GEORGIA
 DEPARTMENT OF TRANSPORTATION
 TYPICAL SECTIONS
 PROJECT: BRST-0510(12)
 COUNTY: CALHOUN

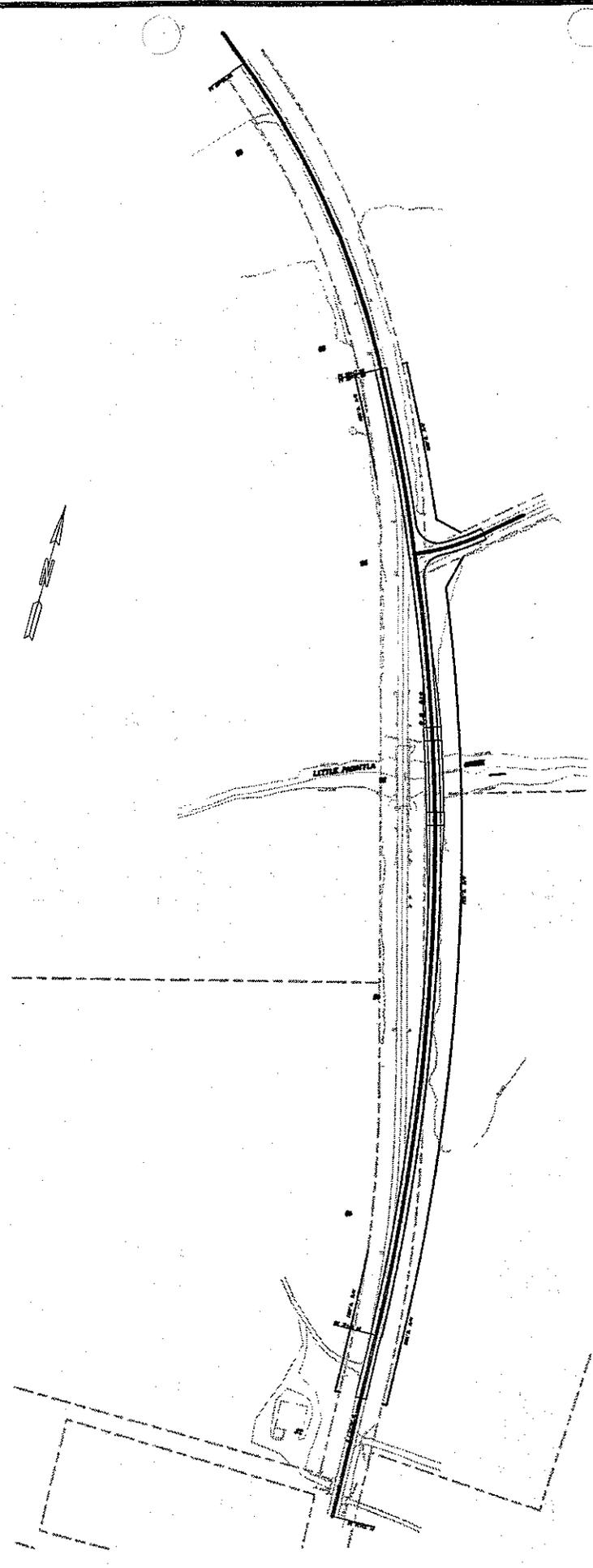
| DATE | REVISIONS | DATE | REVISIONS |
|------|-----------|------|-----------|
| | | | |
| | | | |
| | | | |
| | | | |

Walperston Associates
 INCORPORATED
 5300 DAKBROOK PARKWAY
 NORCROSS, GA 30063
 (770) 447-9399

HNTB
 BRIDGE REPLACEMENT,
 S. R. 216 OVER LITTLE PACHITLA

BRIDGE REPLACEMENT,
 S. R. 216 OVER LITTLE PACHITLA

STATE PROJECT NUMBER
 G.A. BRST-0510(12)



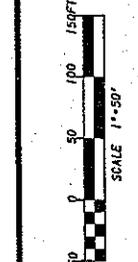
DRAWING No.

GEORGIA
 DEPARTMENT OF TRANSPORTATION
 CONCEPT LAYOUT
 PROJECT: BRST-0510(12)
 COUNTY: CALHOUN

| DATE | REVISIONS | NOTE | REVISIONS |
|------|-----------|------|-----------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

WVA
 Wolfson Associates
 5300 OAKBROOK PARKWAY
 NORCROSS, GA 30093
 (770) 447-8899

GINTB
 BRIDGE REPLACEMENT,
 S. R. 216 OVER LITTLE PACHITLA



BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 037-0022-0

Location & Geography

Calhoun County

SUFF. RATING:

Signs & Attachments

- * Structure I.D. No.: 037-0022-0
- * 200 Bridge Information: 06
- * 6A Feature Int.: LITTLE PACHITLA CREEK
- * 6B Critical Bridge: 0
- * 7A Route Number Carried: SR00216
- * 7B Facility Carried: SR 216
- * 9 Location: 1 MI N OF EDISON
- * 2 DOT District: 4
- * 207 Year Photo: 1999
- * 91 Inspection Frequency: 24 Date: 02/20/2001
- * 92A Fract Crit Insp Freq: 0 00 Date: 0000
- * 92B Underwater Insp Freq: 1 60 Date: 04/05/2000
- * 92C Other Spec. Insp Freq: 0 00 Date: 0000
- * 4 Place Code: 00000
- * 5 Inventory Route (O/D): 1
- Type: 3
- Designator: 1
- Number: 00216
- Direction: 0
- * 16 Latitude: 31-33.9
- * 17 Longitude: 84-41.9
- 98 Border Bridge: 000 %Shared: 00
- 99 ID Number: 0000000000000000
- * 100 Defense Highway: 0
- * 101 Parallel Structure: N
- * 102 Direction of Traffic: 2
- 264 Road Inventory Mile Post: 010.11
- * 208 Inspection Area: 11 Initials: JWH
- * Location I.D. No: 037-00216D-010.11N
- * XReferen I.D. No: 000-000000-000.000
- * 104 Highway System: 0
- * 26 Functional Classification: 07
- * 204 Federal Route Type: S No: 00510
- * 110 Truck Route: 0
- 206 School Bus Route: 1
- 217 Benchmark Elevation: 234.24
- 218 Datum: 1
- * 19 Bypass Length: 4
- * 20 Toll: 1
- * 21 Maintenance: 01
- * 22 Owner: 01
- * 31 Design Load: 2
- 37 Historical Significance: 5
- 205 Congressional District: 02
- * 27 Year Constructed: 1955
- 106 Year Reconstructed: 0000
- 33 Bridge Median: 0
- 34 Skew: 00
- 35 Structure Flared: 0
- 38 Navigation Control: 0
- 213 Special Steel Design: 0
- 267 Type of Paint: 2
- * 42 Type Service On: 1 Under: 5
- 214 Moveable Bridge: 00
- 203 Type Bridge: E-N-M-O
- 259 File Encasement: 2
- * 43 Structure Type Main: 4 02
- 45 No. Spans Main: 005
- 44 Structure Type Appr: 0 0
- 46 No. Spans Appr: 0000
- 226 Bridge Curve Horiz: 0 Vert: 0
- 111 Pier Protection: 0
- 107 Deck Structure Type: 1
- 108 Wearing Surface Type: 1 Membrane: 8 Protection: 8
- 223 Expansion Joint Type: 02
- 242 Deck Drains: 1
- 243 Parapet Location: 0 Height: 0 Width: 0
- 238 Curb: 1.3 1
- 239 Handrail: 1 1
- * 240 Median Barrier Rail: 0
- 241 Bridge Median Height: 0 Width: 0
- * 230 Guardrail Loc Dir Rear: 3 Fwd: 3
- Oppo Dir Rear: 0 Fwd: 0
- 244 Approach Slab: 3
- 224 Retaining Wall: 0
- 231 Posted Speed Limit: 45
- 236 Warning Sign: 1
- 234 Delineator: 1
- 235 Hazard Boards: 1
- 237 Utilities Gas: 00 Water: 00 Electric: 00 Telephone: 00 Sewer: 00
- 247 Lighting Street: 0 Navigation: 0 Aerial: 0
- * 248 County Continuity No: 00

60017

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 037-0022-0

Calhoun County

SUFF. RATING: 2

Programming Data

201 Project No: BA(2)358-B(3)
 202 Plans Available: 1
 249 Prop. Proj No: BRST-0510 (12)
 250 Approval Status: 0000
 251 P.I. No: 442950
 252 Contract Date: 02/01/2004
 260 Seismic No: 00000
 75 Type Work: 00 0
 94 Bridge Imp. Cost: \$ 0
 95 Roadway Imp. Cost: \$ 0
 96 Total Imp. Cost: \$ 0
 76 Imp. Length: 000000
 97 Imp. Year: 0000
 114 Future ADT: 001050 Year: 2019

Measurements

* 29 ADT: 000700 Year: 1999
 * 109 % Trucks: 16
 * 28 Lanes Op: 02 Under: 00
 * 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0027
 * 49 Structure Length: 135
 * 51 Ec. Rdwy Width: 24.0
 * 52 Deck Width: 28.0
 * 47 Tot. Horz. Cl: 24.0
 * 50 Curb/Subwllk Width: 2.0/2.0
 * 32 Approach Rowy Width: 022
 * 229 Shoulder Width: 0
 * Rear Lt: 5.0 Type: 8 Rt: 5.0
 * Fwd Lt: 5.0 Type: 8 Rt: 5.0
 * Pavment Width:
 * Rear: 22.0 Type: 2
 * Fwd: 22.0 Type: 2
 * Intersection Rear: 0 Fwd: 1
 * 36 Safety Features Br. Rail: 2
 * Transition: 2
 * App. G. Rail: 1
 * App. Rail End: 1
 * 53 Minimum Cl. Over: 99' 99"
 * Under: N 00' 00"
 * 228 Min. Vert. Cl

Ratings

66 Inventory Type: 2 Rating: 13
 64 Operating Type: 2 Rating: 29
 201 Calculated Loads
 H-Modified: 15 1
 HS-Modified: 25 0
 Type 3: 27 1
 Type 3s2: 40 0
 Timber: 32 1
 Piggyback: 00 0
 261 H Inventory Rating: 13
 262 H Operating Rating: 18
 67 Structural Evaluation: 2
 58 Deck Condition: 6
 59 Superstructure Condition: 6
 * 227 Collision Damage: 0
 60A Substructure Condition: 6
 60B Scour Condition: 6
 60C Underwater Condition: 6
 71 Waterway Adequacy: 8
 61 Channel Protection Condi: 6
 68 Deck Geometry: 4
 69 Under Cl. Horz/Vert: N
 72 Appr. Alignment: 8
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 3
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: T
 232 Posted Loads H-Modified: 15
 HS-Modified: 00
 Type 3: 27
 Type 3S2: 00
 Timber: 32
 Piggyback: 00
 253 Notification Date: 0000
 253 Fed Notify Date: 0000

Hydraulic Data

215 Waterway Data
 Highway Elev: 0242.7 Year: 1973
 Flood Elev: 0000.0 Freq: 00
 Avg. Streambed Elev: 0232.7
 Drainage Area: 00000
 Area of Opening: 001944
 113 Scour Critical: 6
 216 Water Depth: 15.0 Br Height: 13.9
 222 Slope Protection: 6
 221 Spur Dikes Rear: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No Barrels: 0
 Width: 0.0
 Height: 0.0
 Length: 0
 Apron: 0
 * 265 U/W Insp. Area: 2 Diver: WCS

* Location I.D. No: 037-00216D-010.11N
 * XReferen I.D. No: 000-000000-000.000

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

File: Bridge Replacement: S.R. 216 over Little Pachitla Creek
BRST-1510(12), Calhoun County
P.I. No. 442950

From: James B. Buchan, State Consultant Design Engineer

To: Distribution

Subject: Minutes of Concept Meeting

The Concept Meeting for the S.R. 216 over Little Pachitla Creek Bridge Replacement was held on December 3, 2001 at the Georgia Department of Transportation District 4 Conference Room. The attendees are listed below.

| | | | |
|------------|-----------------|----------------------------|----------------|
| Attendees: | Larry Cook | HNTB | (770) 956-5770 |
| | Zane Hutchinson | GDOT Dist. 4 Design | (229) 386-3300 |
| | Danny Gay | GDOT Dist. 4 Traffic | (229) 386-3435 |
| | Emory Giddens | GDOT Dist. 4 Utilities | (229) 386-3288 |
| | Sam Bowyer | Wolverton & Associates | (770)447-8999 |
| | Barbara Thomas | GDOT Dist. 4 Plan. & Prog. | (229) 386-3300 |

- Mr. Bowyer described the project
- Mr. Gay provided accident data
- Mr. Gay noted that the maximum driveway grade needs to be changed to 10%
- Mr. Gay mentioned that he would prefer to see the county road realigned to improve the skew angle, but that sight distance must be considered
- Mr. Giddens noted that Alltel (non reimbursable) and Pataula EMC (part reimbursable, part non reimbursable) had existing facilities in the project corridor
- Ms. Thomas noted that the project is programmed for 2002 R/W and 2003 Construction, that no UST's, no historical resources, no hazardous waste sites existed on the project, and that the picnic area on the southeast quadrant should not pose any problems.
- Mr. Hutchinson noted that a continuous curve along the proposed bridge should be considered, but that sight distance should be checked

- Mr. Hutchinson noted that more separation between the existing and proposed bridges is preferable
- Mr. Hutchinson noted that it is preferable to keep superelevation transitions off of approach slabs



01-919

ORIGINAL

Department of Transportation

State of Georgia

#2 Capitol Square, S.W.

Atlanta, Georgia 30334-1002

July 1, 1999

WAYNE SHACKELFORD
COMMISSIONER
(404)656-5206

FRANK L. DANCHETZ
CHIEF ENGINEER
(404)656-5277

RECEIVED

JUL 16 1999

OFFICE OF PROGRAMMING

STEVEN L. PARKS
DEPUTY COMMISSIONER
(404)656-5212

BILLY F. SHARP
TREASURER
(404)656-5224

LOCAL GOVERNMENT PROJECT AGREEMENT

In consideration of the proposed improvements, CALHOUN County agrees to provide or perform the following at no cost to the Georgia D.O.T. for project BRST-0510(12) CALHOUN CO., PI # 442950-:

BRIDGES

SR 216 @ LITTLE PACHITLA CREEK 1 MI N OF EDISON

Provide all rights-of-way and/or easements needed for the construction of the project and remove existing structures or obstructions within the rights-of-way.

Make all utility relocations, adjustments or betterments of publicly owned utilities that are in conflict with construction of this project. Reimburse Georgia D.O.T. for any damages paid to the contractor for delay of construction caused by a delay in relocating the publicly owned utilities.

Relocate or adjust all privately owned utilities to clear construction of this project, including adjustments at railroad crossings if required.

Furnish detours, local borrow & waste pits as needed.

We support this project but choose not to commit any funding, realizing this may delay the project until additional funding can be found.

This 12th day of July, 19 99

APPROVED

Richard H. West, Chairman

City/County Official



LINE
S. PARK

Sam Bowyer

From: Larry Cook [LCook@HNTB.com]
Sent: Monday, June 25, 2001 3:25 PM
To: 'Sam Bowyer (E-mail)'
Subject: FW: Replacement Justification 037-0022-0

-----Original Message-----

From: Cashin, Ted [mailto:Ted.Cashin@dot.state.ga.us]
Sent: Monday, June 25, 2001 2:56 PM
To: 'Larry'
Subject: FW: Replacement Justification 037-0022-0

Ted Cashin
Georgia DOT Office of Consultant Design
(404)463-6135

-----Original Message-----

From: Summers, Brian
Sent: Monday, June 25, 2001 2:50 PM
To: Cashin, Ted
Subject: RE: Replacement Justification 037-0022-0

The sufficiency rating is now 37.8.

-----Original Message-----

From: Cashin, Ted
Sent: Friday, June 15, 2001 1:17 PM
To: Summers, Brian
Subject: Replacement Justification 037-0022-0

Sorry if I have already asked you about this one. I don't have anything in my records.

HNTB Corporation is beginning design work on the following project:

PI No.: 442950-
Project No.: BRST-0510(12) Calhoun County

SR 216 over Little Pachitla Creek 1 mi N of Edison

Because sufficiency is 52.9 we will need a letter justifying replacement from your office or a re-evaluation of the bridge to bring its sufficiency to less than 50.

NOTICE OF LOCATION AND DESIGN APPROVAL

**PROJECT: BRST-0510(12) CALHOUN COUNTY
P. I. NO. 442950**

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.

Date of Location and Design Approval: JANUARY 17, 2002

Bridge project BRST-0510(12) will replace the structurally deficient bridge and approaches on SR 216 over Little Pachitla Creek in Calhoun Co. The bridge is located approximately one mile north of Edison Ga. The project is 100% in Calhoun Co. and 100% within Congressional District # 4.

This project will be constructed on an alignment offset to the south of the existing alignment, and the existing alignment will remain open to traffic during construction.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Andy Oliver
andy.oliver@dot.state.ga.us
Route 1 Box 8
Cuthbert, GA 31740
Telephone (229) 732-3066

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Ted Cashin
Office of Consultant Design
Ted.cashin@dot.state.ga.us
Georgia Department of Transportation
No. 2 Capitol Square, Room 433
Atlanta, Georgia 30334
Telephone (404) 463-6133

Any written request or communication in reference to this project or notice SHOULD include the Project and P.I. Numbers as noted at the top of this notice.

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Office of Consultant Design*

Project Number: BRST-0510(12)
County: Calhoun
P. I. Number: 442950

Federal Route Number: N/A
State Route Number: 216

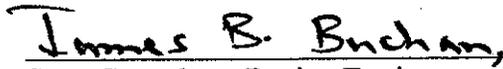
Recommendation for approval:

DATE 12-20-01



Project Manager

DATE 12-21-01



State Consultant Design Engineer *MSA*

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

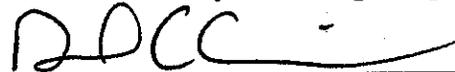
DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 12-27-01



District Engineer *X*

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRST - 0510 (12) / Calhoun County
P.I. No. 442950

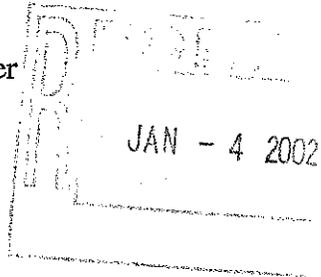
Office: Traffic Safety & Design
Atlanta, Georgia

Date: December 27, 2001

From: ^{PMA/ks} Phillip M. Allen, State Traffic Safety and Design Engineer

To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review



We have reviewed the above referenced concept report for the proposed bridge replacement along State Route 216 over Little Pachitla Creek in Calhoun County.

The Office of Traffic Safety & Design finds this report satisfactory for approval because it will improve safety and traffic operations within this area.

PMA/bm

Attachment (signature page)

Cc: Harvey Keeper, State Environment/Location Engineer

James Chambers, State Consultant Design Engineer

Attention: Ted Cashin

David Mulling, State Review Engineer, w/ attachment

Marta Rosen, State Transportation Planning Administrator

Paul Liles, State Bridge & Structural Design Engineer

Chuck Hasty, TMC

General Files

Office Files

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Office of Consultant Design*

Project Number: BRST-0510(12)
County: Calhoun
P. I. Number: 442950

Federal Route Number: N/A
State Route Number: 216

Recommendation for approval:

DATE 12-20-01


Project Manager

DATE 12-21-01

James B. Buchanan, MBA
State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE 12/27/01

Phillip M. Allen
State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Office of Consultant Design*

Project Number: BRST-0510(12)
County: Calhoun
P. I. Number: 442950

Federal Route Number: N/A
State Route Number: 216

Recommendation for approval:

DATE 12-20-01


Project Manager

DATE 12-21-01

James B. Buchanan, MBA
State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE 1/7/02

Paul V. Tilles Jr.
State Bridge and Structural Design Engineer

Project Concept Report

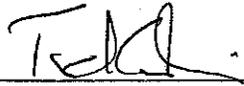
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Office of Consultant Design*

Project Number: BRST-0510(12)
County: Calhoun
P. I. Number: 442950

Federal Route Number: N/A
State Route Number: 216

Recommendation for approval:

DATE 12-20-01



Project Manager

DATE 12-21-01


State Consultant Design Engineer

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

DATE 1-8-02


State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Office of Consultant Design*

Project Number: BRST-0510(12)
County: Calhoun
P. I. Number: 442950

Federal Route Number: N/A
State Route Number: 216

Recommendation for approval:

DATE 12-20-01


Project Manager

DATE 12-21-01

James B. Buchanan, MBA
State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE 1/15/02


Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

Project Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA *Office of Consultant Design*

Project Number: BRST-0510(12)
County: Calhoun
P. I. Number: 442950

Federal Route Number: N/A
State Route Number: 216

Recommendation for approval:

DATE 12-20-01

T. Kelly
Project Manager

DATE 12-21-01

James B. Buchanan, MBA
State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

DATE 12-26-01

Harold J. Huff
State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer