

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

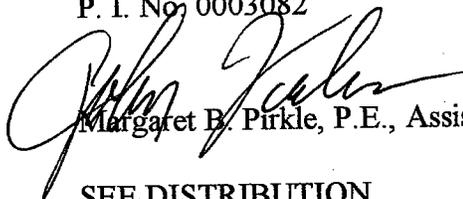
INTERDEPARTMENT CORRESPONDENCE

FILE BR-0003-00(082) Bartow County
P. I. No. 0003082

OFFICE Preconstruction

DATE October 15, 2002

FROM



Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO

SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

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

Frank L. Danchetz

Page 2

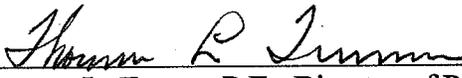
BR-0003-00(082) Bartow

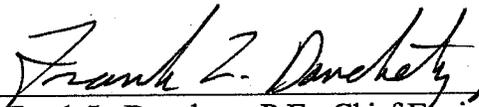
September 23, 2002

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

MBP: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: BR-0003-00(082) Bartow
P.I. Number 0003082

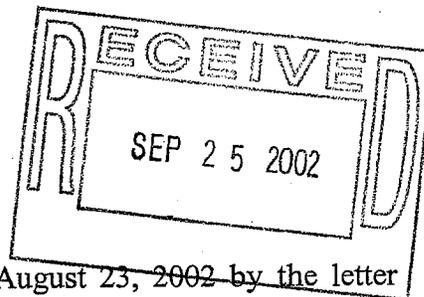
OFFICE: Engineering Services

DATE: September 24, 2002

FROM: David Mulling, Project Review Engineer *REW*

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT



We have reviewed the concept report submitted August 23, 2002 by the letter from Ben Buchan dated August 21, 2002, and have no additional comments.

The costs for the project are:

Construction	\$507,795
Inflation	\$80,041
E&C	\$58,784
Reimbursable Utilities	LGPA anticipated
Right of Way	LGPA anticipated

DTM

c: Ben Buchan, Attn: Ted Cashin

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

Project Concept Report

Project Number: BR-0003-00(082)

County: Bartow

P. I. Number: 0003082

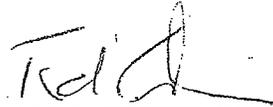
Federal Route Number: N/A

State Route Number: N/A

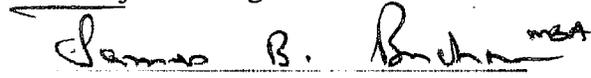
Recommendation for approval:

DATE 9-9-02

DATE 9-12-02



Project Manager



State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

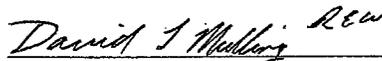
DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE 9/24/02


Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE **BR-0003-00(082) Bartow County** **OFFICE** Atlanta
CR 982/Perry Road at Little Pine Log Creek 8 mi NW of White
P.I. No. 0003082

FROM  **DATE** September 9, 2002
James B. Buchan, State Consultant Design Engineer

TO Meg Pirkle, 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 Carol Bowler of Wilbur Smith Associates at (770) 936-8650.

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, Office of Financial Management Administrator
Kent Sager, District Engineer – Cartersville
Paul Liles, State Bridge & Structural Engineer

JBB:MBA:EJC

cc: Wilbur Smith Associates

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design

Project Concept Report

Project Number: BR-0003-00(082)

County: Bartow

P. I. Number: 0003082

Federal Route Number: N/A

State Route Number: N/A

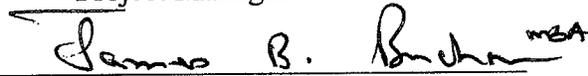
Recommendation for approval:

DATE 9-9-02

DATE 9-12-02



Project Manager



State Consultant Design Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District Engineer

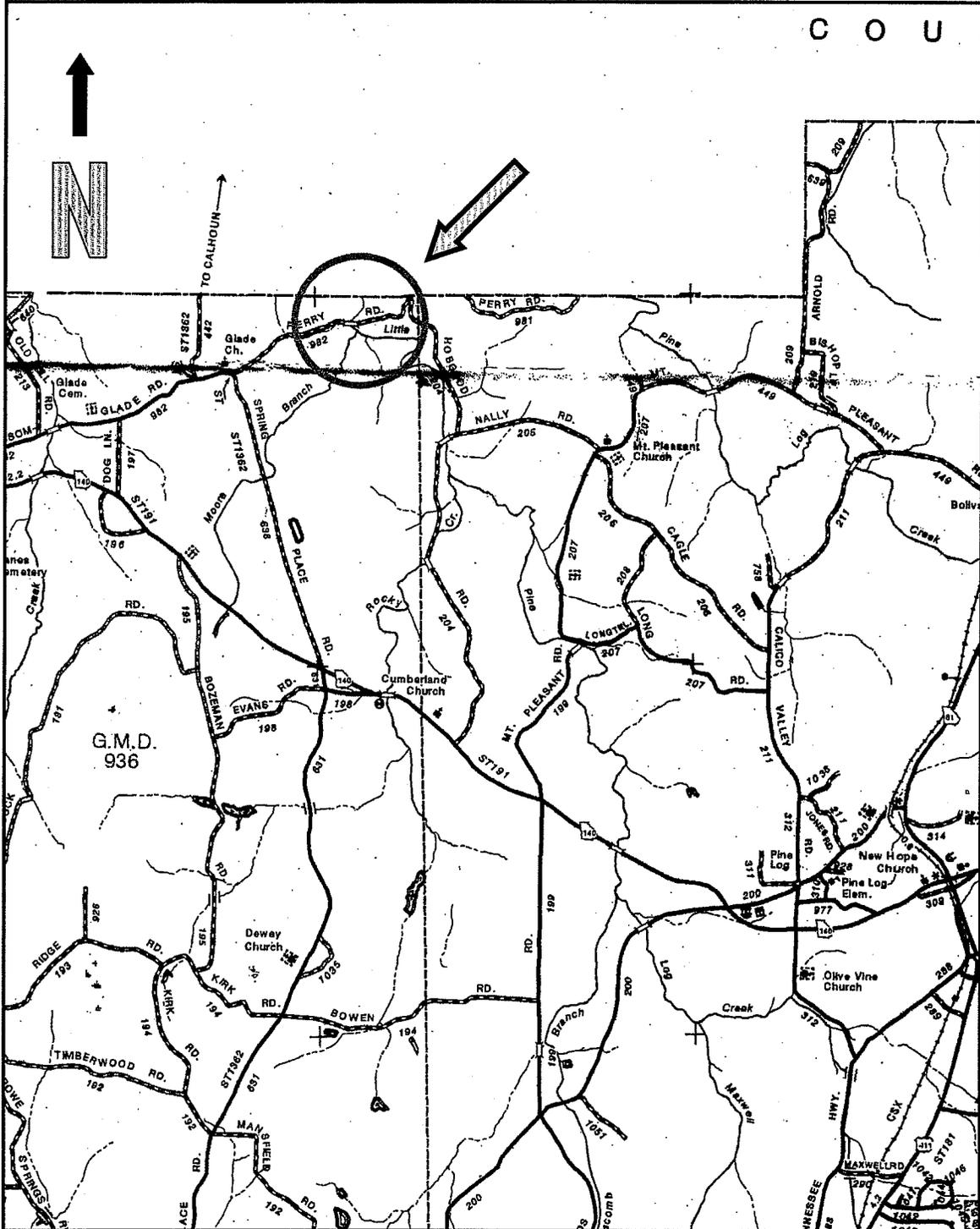
DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

Project Concept Report page 2
Project Number: BR-0003-00(082)
P. I. Number: 0003082
County: Bartow



Scale: 1 inch = 1 mile

Location Map

Project: BR-0003-00(082) Bartow County PI No.: 0003082

Description: CR 982/Perry Road at Little Pine Log Creek
8 mi NW of White

Project Concept Report page 3
Project Number: BR-0003-00(082)
P. I. Number: 0003082
County: Bartow

Need and Purpose: The proposed project BR-0003-00(082), will replace the structurally deficient County Road CR 982 / Perry Road bridge over Little Pine Log Creek with a structurally adequate bridge to improve the operations and safety of this section of CR 982. See the attached Need and Purpose Statement.

Description of the proposed project: Project BR-0003-00(082) is a bridge replacement project proposing the replacement of the existing, substandard bridge where CR 982 crosses Little Pine Log Creek in Bartow County. The proposed approach roadway will consist of two 12' travel lanes, 4' grass shoulders. The project length is approximately 1244.33 feet (0.24 miles). Project BR-0003-00(082) is approximately 8 miles northwest of White.

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

PDP Classification: Major _____ Minor

PDP Designation: Full Oversight (), Exempt(), State Funded(), or Other ()

Functional Classification: Rural Local Arterial

U. S. Route Number(s): NA State Route Number(s): NA

Traffic (AADT):
Current Year: (2007) 150 Design Year: (2027) 300

Existing design features:

- Typical Section: one lane rural section consisting of 18' travel lane and 2.5' shoulders.
- Posted speed: 35mph Maximum degree of curvature: 15° 00'
- Maximum grade: 9.0 %
- Width of right of way: is 30' wide.
- Major structures: An existing 11.1' wide steel bridge with 12' wide wooden deck. (The existing bridge consists of two spans for a total length of 94' with a sufficiency rating of 8.4).

Project Concept Report page 4.
 Project Number: BR-0003-00(082)
 P. I. Number: 0003082
 County: Bartow

- Major interchanges or intersections along the project: None.
- Existing length of roadway segment: 1244.33' (0.24mi).

Proposed Design Features:

IN EACH DIRECTION

- Proposed typical section(s): One 12' travel lane with a 4' grassed shoulder in each direction.
- Proposed Design Speed Mainline: 35 mph
- Proposed Maximum grade Mainline: 5.0 % Maximum grade allowable: 10.0 %.
- Proposed Maximum grade Side Street NA Maximum grade allowable: NA
- Proposed Maximum grade driveway 14.0 %
- Proposed Maximum degree of curve: 12° 43'. Maximum degree allowable: 16° 00'.
- Right of way
 - Width: Varies 135' to 200' total.
 - Easements: Temporary (X), Permanent (X), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 4 Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges: The proposed bridge will have a 28' gutter to gutter width, consisting of two 12'-0" travel lanes, and two 2'-0" outside shoulders. The bridge is expected to be approximately 120' long.
 - Retaining walls: (None)
- Major intersections and interchanges: (None)
- Traffic control during construction: Traffic will be detoured off-site while the proposed bridge is under construction.
- 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)

Project Concept Report page 5.
Project Number: BR-0003-00(82)
P. I. Number: 0003082
County: Bartow

- Design Variances: (None anticipated)
- Environmental concerns: (Nationwide 404 with PCN anticipated, nationwide 23 anticipated, section 106 documentation, programmatic section 4(f) evaluation i.e. bridge is historic and stream buffer variance.)
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No ()
 - Categorical exclusion: (Anticipated)
- Utility Involvements:
 - Telephone: Bell South
 - Water: Bartow County

Project responsibilities:

- Design, Wilbur Smith Associates
- Right of Way Acquisition, Bartow County
- Relocation of Utilities, Bartow County is responsible for reimbursable utilities. LGPA signed 10/22/2002.
- Letting to contract, GDOT Office of Contract Administration
- Supervision of construction, GDOT District 6
- Providing material pits, Contractor
- Providing detours, Bartow County

Coordination

- Concept meeting date and brief summary. Attach minutes.
- P. A. R. meetings, dates and results: (None anticipated).
- FEMA: (FEMA involvement anticipated).
- Public involvement: (No public involvement).
- 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: 3 Months.
- Time to complete right of way plans: 3 Months.
- Time to complete the Section 404 Permit: 3 Months.
- Time to complete final construction plans: 6 Months.
- Time to complete to purchase right of way: 6 Months.
- List other major items that will affect the project schedule: None - 0 Months.

Project Concept Report page 6.
Project Number: BR-0003-00(082)
P. I. Number: 0003082
County: Bartow

Alternates considered: (1) Build proposed bridge on same location of the existing bridge with temporary off site detour; (2) Build proposed bridge parallel and offset from existing bridge; (3) No Build; (4) Build temporary detour bridge adjacent to existing bridge. Remove existing bridge and build proposed bridge while traffic is diverted to temporary detour bridge; (5) Build culvert replacement.

Comments: Alternate (2) was eliminated due to environmentally unfavorable encroachment of parallel stream on south side, rock formation on north side, increased project impacts, and an acceptable off-site detour; Alternate (3) was eliminated due to long term maintenance cost of structurally deficient bridge; Alternate (4) was eliminated due to additional cost of building 2 bridges as opposed to building one as well as the fact that there is a limited road width due to an existing parallel stream on the south side and an existing rock formation on the north side and an acceptable off-site detour; Alternate (1) is selected for this concept in an effort to minimize utility and R/W impacts, enhance public safety, more cost effective, and an acceptable off-site detour.

Attachments:

1. Cost Estimates:
 - a. Construction including E&C,
 - b. Right of Way, and
 - c. Utilities.
 - d. Detour Bridge
2. Need and Purpose Statement
3. Traffic Counts Letter
4. Typical Sections
5. Bridge Inventory
6. Flexible Pavement Design Analysis
7. Notice of Location and Design Approval
8. Concept Team Meeting Minutes and Attendance Sheet.

PROJECT COSTS

DATE: September 5, 2002

PREPARED BY: SJR of Wilbur Smith Associates

PROJECT NO.: BR-0003-00(082)

P.I. NO.: 0003082

LENGTH: 1244.33 feet (0.24 miles)

PROJECT DESCRIPTION: CR 982 / Perry Road over Little Pine Log Creek bridge replacement

PROPOSED CONCEPT: Build proposed 120 ft. x 28 ft. bridge on same location of the existing bridge with a temporary off site detour. Roadway approaches will consist of two 12 ft. travel lanes with 4 ft. grassed shoulders

EXISTING ROADWAY: County Route 982

TRAFFIC: Existing: 150 ADT (2007)

Design: 300 ADT (2027)

() PROGRAMMING PROCESS (x) CONCEPT DEVEL. () DURING PROJ DEVEL.

PROJECT COSTS

A. Right Of Way	5.10	ACRES	Lump Sum By Locals	ACRES		
				Subtotal		\$0.00
B. Utilities			Lump Sum By Locals			\$0.00
				Subtotal		\$0.00
C. Clearing and Grubbing	5.10	ACRES	@ \$5,000.00	ACRES		\$25,500.00
				Subtotal		\$25,500.00
D. Earthwork						
Grading Complete						
Excavation	28912.49	CU YD	\$3.00			\$86,737.47
Embankment	2789.70	CU YD	\$3.00			\$8,369.10
				Subtotal		\$95,106.57
E. Base and Paving						
G.A.B. 6"	1306.00	TONS	@ \$6.26	TONS		\$8,175.56
1 1/4" Superpave	261.00	TONS	@ \$38.22	TONS		\$9,975.42
2" Superpave	425.00	TONS	@ \$46.32	TONS		\$19,686.00
Leveling	10.00	TONS	@ \$42.00	TONS		\$420.00
Tack Coat	135.00	GAL	@ \$1.08	GAL		\$145.80
				Subtotal		\$38,402.78

F. Drainage

Cross-Drain System

24" Storm Drain Pipe	52.00	LF	@	\$36.00	FT	\$1,872.00
18" Storm Drain Pipe	80.00	LF	@	\$32.79	FT	\$2,623.20
12" Storm Drain Pipe	20.00	LF	@	\$22.83	FT	\$456.60

Drainage Structures

Catch Basins GP I

Catch Basins GP II

Subtotal \$4,951.80

G. Concrete Work

Curb & Gutter TP 2

Valley Gutter, 8 in

Class B Pvmnt Widen

Conc Sidewalk, 4 in

Subtotal \$0.00

H. Traffic Control

1

LS

@

\$10,000.00

LS

\$10,000.00

Subtotal \$10,000.00

I. Erosion Control

0.24

MI

@

\$320,000.00

MI

\$76,800.00

Subtotal \$76,800.00

J. Signs, Striping, Signals & Lighting

Signing & Marking

0.24

MI

@

\$32,000.00

MI

\$7,680.00

Traffic Signals

0.00

MI

@

\$50,000.00

MI

\$0.00

Subtotal \$7,680.00

K. Grassing/Landscaping

3.07

ACRES

@

\$1,044.71

ACRES

\$3,206.54

Subtotal \$3,206.54

L. Miscellaneous

Field Engineers Office

0.00

EA

@

\$40,070.00

EA

\$0.00

Fencing

1500.00

LF

@

\$17.90

LF

\$26,850.00

Right of Way Markers

22.00

EA

@

\$80.30

EA

\$1,766.60

Subtotal \$28,616.60

M. Major Structures

Bridge Removal 12' x 94'

1128.00

SF

@

\$10.00

SF

\$11,280.00

Bridge New 31.25' x 120'

3750.00

SF

@

\$55.00

SF

\$206,250.00

Subtotal \$217,530.00

ESTIMATE SUMMARY

1. Right of Way	\$0.00
2. Reimbursable Utilities	\$0.00

Construction Cost Summary

3. Clearing and Grubbing	\$25,500.00
4. Earthwork	\$95,106.57
5. Base & Paving	\$38,402.78
6. Drainage	\$4,951.80
7. Concrete Work	\$0.00
8. Traffic Control	\$10,000.00
9. Erosion Control	\$76,800.00
10. Sign, Striping, Signals & Lighting	\$7,680.00
11. Grassing/Landscaping	\$3,206.54
12. Miscellaneous	\$28,616.60
13. Bridges	\$217,530.00
C. Total Construction Estimate	\$507,794.29
D. 3 year of Inflation @ 5.00%	\$80,041.07
E. 10% E & C	\$58,783.54
F. Total Construction Estimate	\$646,618.90
Grand Total Project Cost	\$646,618.90

NEED AND PURPOSE
PROJECT BR-0003 00(082), BARTOW COUNTY
PI No. 0003082

BRIDGE REPLACEMENT

Bridge project BR-0003-00(082) will replace the structurally deficient bridge located on County Road (CR) 982 / Perry Road over the Little Pine Log Creek, 8 miles northwest of the city of White.

The existing bridge was constructed in 1924. The existing bridge's sufficiency rating is 8.4. The sufficiency rating, a number from 0 to 100, is a method of evaluating data by calculating four separate factors to obtain a numeric value that is indicative of bridge sufficiency to remain in service. The resultant rating would range between zero, which represents an entirely insufficient or deficient bridge; and 100, which represents an entirely sufficient bridge. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. This project will replace the existing bridge with a structurally adequate bridge.

This section of CR 982 is classified as a Rural Local Arterial, is a designated school bus route and is not on a bike route. The posted speed for this section of CR 982 is 35 mph. The Average Daily Traffic (ADT) along this section of roadway was 100 vehicles in 2001. The projected (2027) ADT for this section of roadway is 300 with 1 percent trucks.

Replacing the existing bridge will bring it up to current design standards and in doing so will improve the operation and safety of this roadway.

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0003-00(082) Bartow
P.I. 0003082

OFFICE Environment/ Location

DATE January 23, 2002

FROM Harvey D. Keeper, State Environmental/ Location Engineer

TO James B. Buchan, P.E., State Consultant Design Engineer

Attn: Ted Cashin

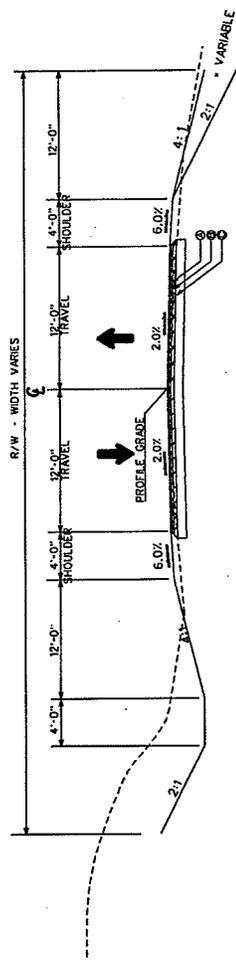
SUBJECT CR 982/Perry Rd. @ Little Pine Log Creek

We are furnishing estimated traffic assignments for the above project as follows:

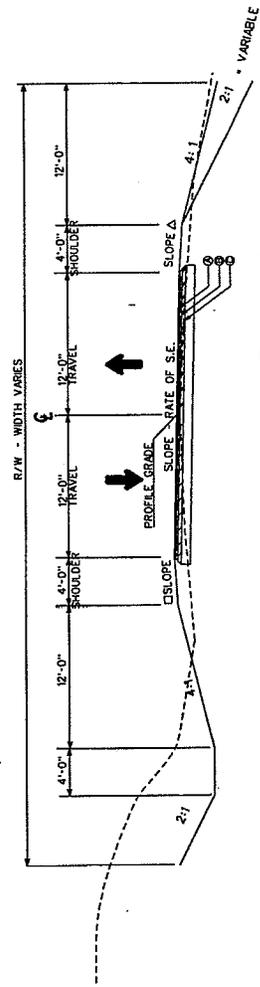
Existing 2001 ADT = 100
2007 ADT = 150
2027 ADT = 300
K = 8%
D = 70%
T = 1%
24 HR T = 3%
SU = 2%
COMB = 1%

If you have any questions concerning this information please contact
Teresa Williamson at (404)699-4458

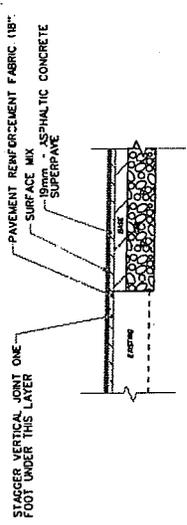
HDK:TJW



TYPICAL SECTION *3
 TANGENT SECTION



TYPICAL SECTION *4
 SUPERELEVATION SECTION



PAVEMENT REINFORCEMENT
 FABRIC DETAIL

SLOPE CONTROLS		
SLOPE	FALL	CUT
4:1	0-10'	
2:1	OVER 10'	ALL

NOTE: ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE REPLACED IN KIND, I.E. ASPHALT DRIVEWAYS SHALL BE REPLACED WITH ASPHALT DRIVEWAYS AND GRAVEL DRIVEWAYS SHALL BE REPLACED WITH GRAVEL DRIVEWAYS. THE DEPTH OF THE MATERIALS WILL BE AS FOLLOWS:

- ASPHALT DRIVEWAYS:
 - RESIDENTIAL: 12 MM SUPERPAVE, 165 LB/174
 - COMMERCIAL: 6" GRADED AGGREGATE BASE, 12 MM SUPERPAVE, 220 LB/174
 - CONCRETE DRIVEWAYS:
 - RESIDENTIAL: 6" OF CONCRETE, 6" OF GRADED AGGREGATE BASE
 - COMMERCIAL: 8" OF CONCRETE, 4" OF GRADED AGGREGATE BASE
 - GRAVEL OR EARTH DRIVEWAYS:
 - ALL TYPES: 4" OF GRADED AGGREGATE BASE
- ALL GRAVEL/DIRT DRIVEWAYS ARE TO BE PAVED TO EITHER THEIR RESPECTIVE TIE-IN POINT OR THE RIGHT OF WAY LINE WHICHEVER IS LEAST WITH A MINIMUM PAVING DISTANCE OF 5' FROM THE BACK OF CURB.

REQUIRED PAVEMENT:

- ⓐ RECYCLED ASPH CONC. (1 1/2") 9.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (135 LBS/SY) - SUPERPAVE LEVEL A
- ⓑ RECYCLED ASPH CONC. (2") 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LBS/SY) - SUPERPAVE LEVEL A
- ⓒ GR AGGREGATE BASE CRS, 6 INCH, INCL MATL

USE SUPERPAVE MIX DESIGN LEVEL A

<p>ENGINEERS PLANNERS ECONOMISTS</p> <p>Wilbur Smith Associates 2920 BRADSHAW ROAD, SUITE 300 CHARLESTON, GEORGIA 29414 (770) 936-8650</p>	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION TYPICAL SECTION	
	PROJECT - BR-0003-0010821 COUNTY - BARTOW DATE 07/31/02 SH 2 OF 2	
<p>NOT TO SCALE</p>	DATE _____ REVISIONS _____	DATE _____ REVISIONS _____
	USE SUPERPAVE MIX DESIGN LEVEL A	

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure . . . 015-5070-0

Bartol County

SUFF.

TING: 8.4

Location & Geography

* Structure I.D. No.: 015-5070-0
 * 200 Bridge Information: 06
 * 6A Feature Int.: LITTLE PINE LOG CREEK
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: CR00982
 * 7B Facility Carried: PERRY ROAD
 * 9 Location: 8 MINW OF WHITE
 * 2 DOT District: 6
 * 207 Year Photo: 1998
 * 9I Inspection Frequency: 24 Date: 06/14/2000
 * 92A Fract Crit Insp Freq: 0 00 Date: 0000
 * 92B Underwater Insp Freq: 0 00 Date: 0000
 * 92C Other Spc. Insp Freq: 0 00 Date: 0000
 * 4 Place Code: 00000
 * 5 Inventory Route (O/U): 1
 * Type: 4
 * Designator: 1
 * Number: 00982
 * Direction: 0
 * 16 Latitude: 34-23.8
 * 17 Longitude: 84 -47.0
 * 98 Border Bridge: 000 %Shared: 00
 * 99 ID Number: 0000000000000000
 * 100 Defense Highway: 0
 * 101 Parallel Structure: N
 * 102 Direction of Traffic: 3
 * 264 Road Inventory Mile Post: 000.47
 * 208 Inspection Area: 06 Initials: DEM
 * Location I.D. No: 015-00982X-000.47W
 * XReferen I.D. No: 000-0000000-000.000

Signs & Attachments

* 104 Highway System: 0
 * 26 Functional Classification: 09
 * 204 Federal Route Type: 0 No: 00000
 * 110 Truck Route: 0
 * 206 School Bus Route: 0
 * 217 Benchmark Elevation: 0.00
 * 218 Datum: 0
 * 19 Bypass Length: 6
 * 20 Toll: 3
 * 21 Maintenance: 02
 * 22 Owner: 02
 * 31 Design Load: 0
 * 37 Historical Significance: 3
 * 205 Congressional District: 07
 * 27 Year Constructed: 1924
 * 106 Year Reconstructed: 0000
 * 33 Bridge Median: 0
 * 34 Skew: 00
 * 35 Structure Flared: 0
 * 38 Navigation Control: 0
 * 213 Special Steel Design: 9
 * 267 Type of Paint: 6
 * 42 Type Service On: 1 Under: 5
 * 214 Movable Bridge: 00
 * 203 Type Bridge: A-O-M-I
 * 259 Pile Encasement: 3
 * 43 Structure Type Main: 3 10
 * 45 No. Spans Main: 001
 * 44 Structure Type Appr: 3 3
 * 46 No. Spans Appr: 0001
 * 226 Bridge Curve Horz: 0 Vert: 0
 * 111 Pier Protection: 0
 * 107 Deck Structure Type: 8
 * 108 Wearing Surface Type: 7 Membrane: 0 Protection: 0
 * 223 Expansion Joint Type: 00
 * 242 Deck Drains: 0
 * 243 Parapet Location: 0 Height: 0 Width: 0
 * 238 Curb: 0.0 0
 * 239 Handrail: 2.2
 * 240 Median Barrier Rail: 0
 * 241 Bridge Median Height: 0 Width: 0
 * 230 Guardrail Loc Dir Rear: 0 Fwrd: 0
 * Oppo Dir Rear: 0 Fwrd: 0
 * 244 Approach Slab: 0
 * 224 Retaining Wall: 1
 * 233 Posted Speed Limit: 00
 * 236 Warning Sign: 0
 * 234 Declinator: 0
 * 235 Hazard Boards: 0
 * 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

BRIDGE INVENTORY DATA LISTING GEOGRAPHIC DEPARTMENT OF TRANSPORTATION

Structure . 015-5070-0

Bart County

SUFF. RING: 8.4

Programming Data

201 Project No: COUNTY DESIGN
 202 Plans Available: 0
 249 Prop. Proj No: 00000000000000000000000000000000
 250 Approval Status: 0000
 251 P.I. No: 0000000
 252 Contract Date: 0000
 260 Seismic No: 00012
 75 Type Work: 311
 94 Bridge Imp. Cost: \$ 203
 95 Roadway Imp. Cost: \$ 435
 96 Total Imp. Cost: \$ 709
 76 Imp. Length: 005421
 97 Imp. Year: 1990
 114 Future ADT: 000720 Year: 2019

Measurements

* 29 ADT: 000480 Year: 1999
 * 109 % Trucks: 1
 * 28 Lanes On: 01 Under: 00
 * 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0062
 * 49 Structure Length: 94
 * 51 Br. Rdwy. Width: 11.1
 * 52 Deck Width: 12.0
 * 47 Tot. Horz. Cl: 11.1
 * 50 Curb/Sdewlk Width: 0.0/0.0
 * 32 Approach Rdwy Width: 017
 * 229 Shldr Width:

Rear Lt: 0.0 Type: 7 Rt: 0.0
 Fwrd Lt: 0.0 Type: 7 Rt: 0.0
 Pvmnt Width:
 Rear: 17.0 Type: 7
 Fwrd: 17.0 Type: 7
 Intersection Rear: 0 Fwrd: 0
 36 Safety Features Br. Rail: 3
 Transition: 0
 App. G. Rail: 0
 App. Rail End: 0
 53 Minimum Cl. Over: 99' 99"
 Under: N 00' 00"

* 228 Min. Vert. Cl
 Act. Odm. Dir: 99' 99"
 Oppo. Dir: 99' 99"
 Posted Odm. Dir: 00' 00"
 Oppo. Dir: 00' 00"
 55 Lateral Undercl. Rt: N 99.9
 56 Lateral Undercl. Lt: 0.0
 * 10 Max Min Vert Cl: 99' 99" Dir: 0
 39 Nav Vert Cl: 000 Horz: 0000
 116 Nav Vert Cl Closed: 000
 245 Deck Thickness Main: 0.0
 Deck Thick Approach: 0.0
 246 Overlay Thickness: 0.0
 211 Tons Structural Steel: 0.0
 212 Year Last Painted: Sup: 1924 Sub: 0000

Ratings

66 Inventory Type: 2 Rating: 05
 64 Operating Type: 2 Rating: 07
 231 Calculated Loads
 H-Modified: 03 1
 HS-Modified: 00 0
 Type 3: 00 0
 Type 3s2: 00 0
 Timber: 00 0
 Piggyback: 00 0
 261 H Inventory Rating: 03
 262 H Operating Rating: 04
 67 Structural Evaluation: 2
 58 Deck Condition: 5
 59 Superstructure Condition: 4
 * 227 Collision Damage: 0
 60A Substructure Condition: 4
 60B Scour Condition: 8
 60C Underwater Condition: N
 71 Waterway Adequacy: 2
 61 Channel Protection Cond: 5
 68 Deck Geometry: 3
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 3
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 0
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: 0
 232 Posted Loads H-Modified: 03
 HS-Modified: 00
 Type 3: 00
 Type 3S2: 00
 Timber: 00
 Piggyback: 00
 253 Notification Date: 12/04/1996
 253 Fed Notify Date: 03/04/1997 0

Hydraulic Data

215 Waterway Data
 Highwater Elev: 0000.0 Year: 0000
 Flood Elev: 0000.0 Freq: 00
 Avg. Streambed Elev: 0000.0
 Drainage Area: 00000
 Area of Opening: 000000
 113 Scour Critical: 6
 216 Water Depth: 01.8 Br Height: 09.0
 222 Slope Protection: 0
 221 Spur Dikes Rear: 0 Fwrd: 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: 0 Diver: ZZZ
 * Location I.D. No: 015-00982X-000.47W
 * XReferen I.D. No: 000-0000000-000.000

FLEXIBLE PAVEMENT DESIGN ANALYSIS

Project: BR-0003-00(082)

County: BARTOW

P.I. no.: 0003082

Description: BRIDGE REPLACEMENT - CR 982/Perry Road at Little Pine Log Creek

Traffic Data (NOTE: AADTs are one-way)

24-hour Truck Percentage: 3.00%

AADT initial year of design period: 75 vpd (2007)

AADT final year of design period: 150 vpd (2027)

Mean AADT (one-way): 112 vpd

Design Loading

Mean AADT		LDF		Trucks		18-K ESAL		Total Daily Loads
112	*	1.00	*	0.030	*	0.40	=	2

Total predicted design period loading = $2 * 20 * 365 = 14,600$

Design Data

Terminal Serviceability Index: 2.50

Soil Support: 2.50

Regional Factor: 2.00

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness Inches	Thickness (mm)	Structural Coefficient	Structural Value
9.5 mm Superpave	1.25	(32)	0.44	0.55
19 mm Superpave	2.00	(51)	0.44	0.88
Graded Aggregate Base	6.00	(152)	0.16	0.96

Required SN = 2.37

Proposed SN = 2.39

>>> Proposed pavement is 0.7% Overdesign <<<

Remarks: Concept Design for Bridge Replacement

Prepared by Simeon J. Robinson, Designer July 29, 2002
Date

Recommended _____
State Urban Design Engineer Date

Approved _____
Chief Engineer Date

NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. BR-0003-00(082)

P.I. No. 0003082

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.

The date of location approval is *OCTOBER 15, 2002*

This project consists of improvements to CR 982 / Perry Road over Little Pine Log Creek in Land District number (G.M.D.936), Land Lots 184, 201 and 216 of Bartow County, Georgia.

This project consists of the replacement of the structurally deficient bridge on CR 982 / Perry Road over Little Pine Log Creek. The proposed bridge will be constructed in the place of the existing bridge.

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:

Mr. Mike Thomason –Cartersville Area Engineer
Mike.Thomason@dot.state.ga.us
874 Peeples Valley Road, N.W.
Cartersville, Georgia 30120
706-387-3680

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
No. 2 Capitol Square
Atlanta, Georgia 30334
404-463-6135

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.

Concept Team Meeting Minutes
Project No. BR-0003-00(082)
CR 982 / Perry Road at Little Pine Log Creek 8 miles NW of White
P.I. No. 0003082

Meeting Date: 29 August 2002

Meeting Time: 10:00 a.m.

Meeting Place: Cartersville District 6 Office

Persons in Attendance:

Carol Bowler	Wilbur Smith Associates	(770) 936-8650
Simeon Robinson	Wilbur Smith Associates	(770) 936-8650
Kim Tyson	Wilbur Smith Associates	(770) 936-8650
Daniel Dean	Wilbur Smith Associates	(770) 936-8650
Ted Cashin	GDOT - OCD	(404) 463-6135
David Moore	GDOT - District 6	(770) 387-3623
Dewayne Comer	GDOT - District 6 Pre-construction Eng.	(770) 397-3619
Lisa Wesley	GDOT - District 6	(770) 387-3680
Glenn Warlick	GDOT - District 6 construction	(770) 387-3680
Steve Sanders	GDOT - District 6 T.O.	(706) 387-3637
Stanley Horton	GDOT - District 6 Utilities	(770) 387-3616
Randy Gray	Bartow County Road Dept.	(770) 387-5140
Dwight Fox	Bartow County Road Dept.	(770) 387-5140

Purpose:

The purpose of BR-0003-00(082) is to replace the structurally deficient bridge over Little Pine Log Creek with a structurally adequate bridge to improve the operation and safety of this section of CR 982.

Carol Bowler opened the meeting by asking everyone in attendance to introduce themselves. Carol Bowler then described the project and the reason for the selected alternate. Carol Bowler then went through the concept report in detail and fielded questions and comments while Simeon Robinson recorded minutes.

The following comments were made:

Maintenance of Traffic:

Carol Bowler stated that there would be an off site detour while construction takes place on CR 982 / Perry Road. Dewayne Comer confirmed that Bartow County would be responsible for any offsite detour. Simeon Robinson indicated that the closest offsite detour route on the detour map was approximately 7.1 miles. Dwight Fox was in agreement to the detour route indicated on the detour map as being the most practical route.

Design: Carol Bowler stated that the proposed 35 mph speed design would be met with 5 percent maximum grade and 12 degree 43 minutes maximum horizontal curvature. Dewayne Comer raised the issue about right-of-way and construction limits with respect to the parallel stream on the east side of the road and the rock formation on the west side of the road. Dewayne Comer also asked about the front slope for the rock section and the parallel stream section. Carol Bowler indicated that the slope for the stream section would be a 2:1 with guardrail. Simeon Robinson also stated that based on the orientation of the layering of the rock the slope on the rock section of the concept design is 1:1 to minimize rock blasting cost. Dewayne Comer added that the front slope for the stream section could be 1.5:1 since there would be guardrail. David Moore questioned the width of the shoulder to be 4 feet grassed shoulder for a county road, not 6 feet shoulder of which 2 feet is paved and 4 feet grassed. David Moore also questioned the width of the bridge to be 28 feet gutter to gutter for an off-system road and not 32 feet gutter to gutter. David Moore stated that type 9017R be used for the approached slab. David also asked that clear zone be checked. Dewayne Comer remarked that the typical sections should be modified to reflect any changes made.

Environmental: Ted C. asked about possible historical properties and Carol Bowler indicated that our environmental subcontractor Edwards-Pitman identified none based on a visual determination. Carol Bowler, however, indicated that a site visit revealed the presence of a parallel stream located on the south side of the road. Dewayne Comer stated that the construction limits are too close to the parallel stream and it will raise environmental and right-of-way issues. Dewayne Comer's recommendation was to be away from the bank of creek to install silt fence.

Utilities: Stanley Horton stated that a project notification letter was sent to all probable Bartow County utilities. None of the utility representatives were present. Dwight Fox indicated there is a possible Bell South cable in the proximity of the existing bridge and a water line also owned by Bartow County.

Right of Way: The current alternate indicates no displacement. Dewayne Comer indicated that Bartow County would be responsible for Right of Way.

Cost: The items for right of way, earthwork, bridge structures, traffic control, and erosion control should be recalculated.

The floor was opened to further questions or comments. However, there were no further comments.

The meeting was adjourned at approximately 11:00 a.m.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design
Project Concept Report**

Project Number: BR-0003-00(082)

County: Bartow

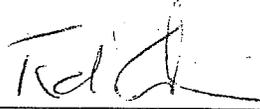
P. I. Number: 0003082

Federal Route Number: N/A

State Route Number: N/A

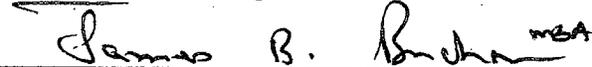
Recommendation for approval:

DATE 9-9-02



Project Manager

DATE 9-12-02



State Consultant Design Engineer

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

DATE 9/16/02



State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

Project Concept Report

Project Number: BR-0003-00(082)

County: Bartow

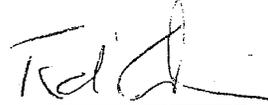
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Federal Route Number: N/A

State Route Number: N/A

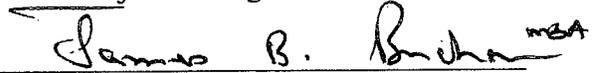
Recommendation for approval:

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Project Manager

DATE 9-12-02



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State Transportation Planning Administrator

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Office of Financial Management Administrator

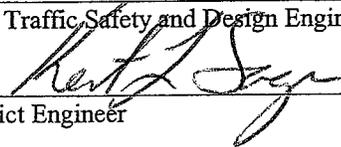
DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 9/17/02



District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

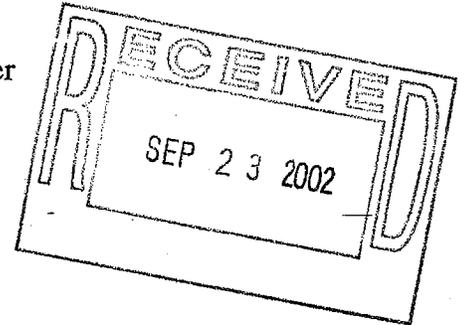
File: BR-0003-00(082), Bartow County
P.I. No. 0003082

Office: Traffic Safety & Design
Atlanta, Georgia
Date: September 18, 2002

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

To: Meg Pirkle, Assistant Director of Preconstruction

Subject: Project Concept Report Review



We have reviewed the above referenced concept report for the proposed bridge replacement on Perry Road over Little Pine Log Creek in Bartow 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/sz

Attachment (signature page)

Cc: Harvey Keeper, State Environment/Location Engineer
James B. Buchan, State Consultant Design Engineer
Attention: Ted Cashin
Kent L. Sager, District Engineer
Attention: William M. Darby, District Design Engineer
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

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design
Project Concept Report**

Project Number: BR-0003-00(082)

County: Bartow

P. I. Number: 0003082

Federal Route Number: N/A

State Route Number: N/A

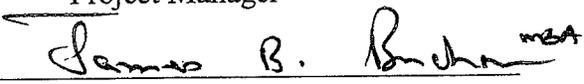
Recommendation for approval:

DATE 9-9-02



Project Manager

DATE 9-12-02



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DATE _____

State Transportation Planning Administrator

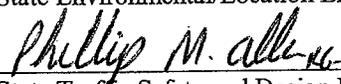
DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE 9/18/02



State Traffic Safety and Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

Project Concept Report

Project Number: BR-0003-00(082)

County: Bartow

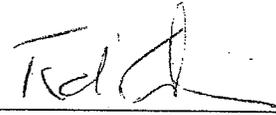
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State Route Number: N/A —

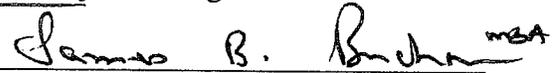
Recommendation for approval:

DATE 9-9-02



Project Manager

DATE 9-12-02



State Consultant Design Engineer

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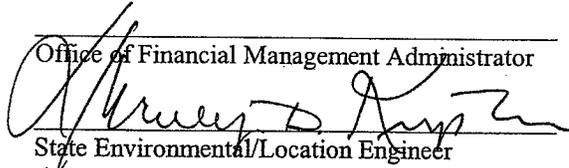
DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE 9/18/02



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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

Project Concept Report

Project Number: BR-0003-00(082)

County: Bartow

P. I. Number: 0003082

Federal Route Number: N/A

— State Route Number: N/A

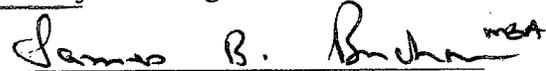
Recommendation for approval:

DATE 9-9-02

DATE 9-12-02



Project Manager



State Consultant Design Engineer

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DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

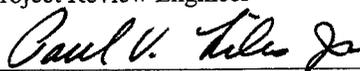
DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE 9/21/02



State Bridge and Structural Design Engineer