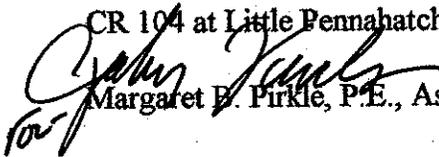


D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE** BR-0002-00(228) Dooly County **OFFICE** Preconstruction  
P. I. No. 0002228  
CR 104 at Little Pennahatchee Creek **DATE** May 20, 2004

**FROM**  Margaret E. 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

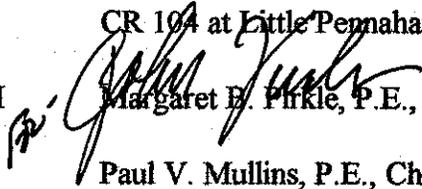
**DISTRIBUTION:**

David Mulling  
Harvey Keeper  
Jerry Hobbs  
Jamie Simpson  
Michael Henry  
Phillip Allen  
Joe Palladi (file copy)  
Paul Liles  
Thomas Howell  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BR-0002-00(228) Dooly County **OFFICE** Preconstruction  
P.I. No. 0002228  
CR 104 at Little Pennahatchee Creek **DATE** May 4, 2004

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

**TO** Paul V. Mullins, P.E., Chief Engineer

**SUBJECT PROJECT CONCEPT REPORT**

This project is the replacement of a structurally deficient bridge on CR 104 over Pennahatchee Creek, 3.0 miles northwest of Vienna, Georgia. The existing bridge, constructed in 1965, is load limited with a sufficiency rating of 26. County Road 104 at this location is a rural two lane roadway with 10' travel lanes with rural shoulders. This section of CR 104 is functionally classified as a rural local road. Traffic is projected to be 550 VPD and 800 VPD in the years 2007 and 2027 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new 100' x 30' concrete bridge over Pennahatchee Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 6' rural shoulders (2' paved). Traffic will be maintained during construction utilizing an off-site detour. Dooly County will be responsible for the signing and maintenance of detour routes.

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

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$615,000	\$300,000	Q11	2005
Right-of-Way & Utilities*	Local	Local		

\*Dooly County signed LGPA on 9-2-03 for right-of-way, utilities, and detours.

Paul V. Mullins

Page 2

BR-0002-00(228) Dooly

May 4, 2004

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



Paul V. Mullins, P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

**FILE:** BR-0002-00(228) Dooly  
P.I. No.: 0002228  
CR 104 @ Little Pennahatchee Creek

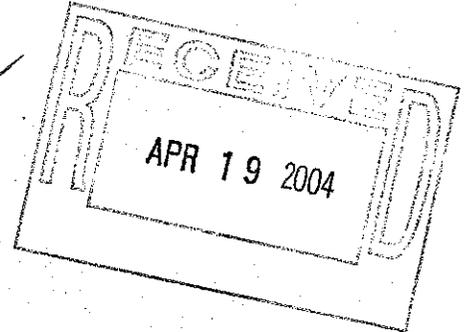
**OFFICE:** Engineering Services

**DATE:** April 15, 2004

**FROM:** David Mulling, Project Review Engineer *REW*

**TO:** Meg Pirkle, Assistant Director of Preconstruction

**SUBJECT:** CONCEPT REPORT



We have reviewed the Concept Report submitted April 15, 2004 by the letter from Thomas Howell, dated April 6, 2004, and have the following comment.

- Include a square foot quantity and a unit cost for the new bridge in the Cost Estimate.

The costs for this project are:

Construction	\$506,494
Inflation	\$51,916
E&C	\$55,841
Reimbursable Utilities	\$12,200 (LGPA signed by Dooly Co. on 5/3/01)
Right of Way	\$20,000 (LGPA signed by Dooly Co. on 5/3/01)

REW

c: Thomas Howell, Attn.: Bill Rountree

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> BR-002-00(228)		<b>County:</b> Dooly		<b>PI No.:</b> 0002228	
<b>Report Date:</b> April 6, 2004		<b>Concept By:</b> DOT Office: District 3			
<input checked="" type="checkbox"/> <b>Concept Stage</b>		<b>Consultant:</b> Gresham Smith & Partners			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
<b>FOCUS AREAS</b>	<b>SCORE</b>	<b>RESULTS</b>			
<b>Presentation</b>	90	Include a square foot quantity and unit costs for the new bridge.			
<b>Judgement</b>	100				
<b>Environmental</b>	100				
<b>Right of Way</b>	100				
<b>Utility</b>	100				
<b>Constructability</b>	100				
<b>Schedule</b>	100				

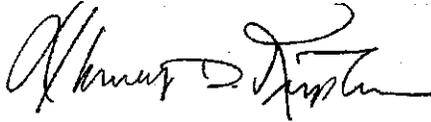
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

---

**INTERDEPARTMENT CORRESPONDENCE**

**FILE: P.I. No. 0002228**

**OFFICE: Environment/Location**



**DATE: April 21, 2004**

**FROM: Harvey D. Keepler, State Environmental/Location Engineer**

**TO: Margaret B. Pirkle, P.E., Assistant Director of Preconstruction**

**SUBJECT: PROJECT CONCEPT REPORT  
BR-0002-00(228) Dooly County  
Bridge Replacement**

The above subject concept report has been reviewed. If project requires off-site detour, a detour public meeting will be required prior to let.

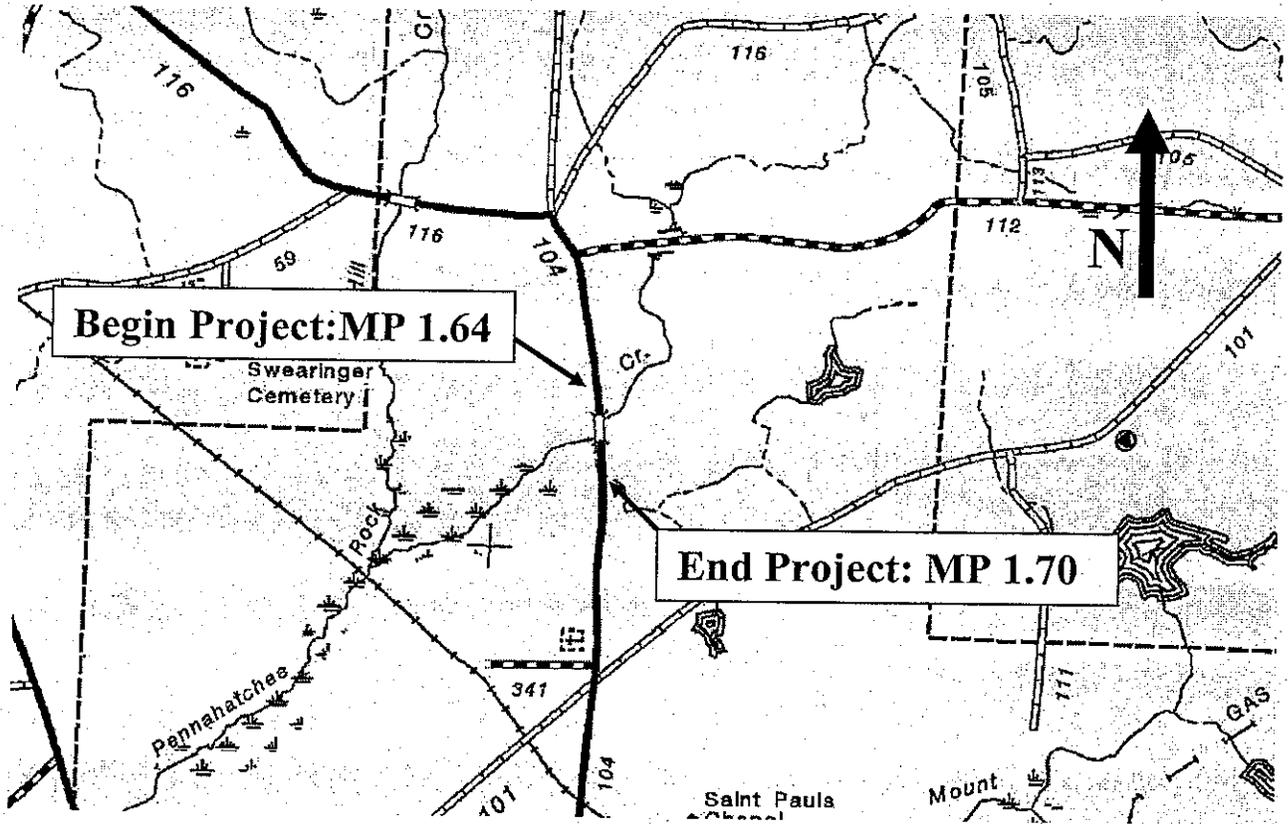
If you have any questions, please contact me at (404) 699-4401.

HDK/lc

Attachment

cc: David Mulling  
Thomas B. Howell

Project Concept Report page 2  
Project Number: BR-0002-00(228)  
P. I. Number: 0002228  
County: Dooly



Project Concept Report page 3  
Project Number: BR-0002-00(228)  
P. I. Number: 0002228  
County: Dooly

**Need and Purpose:** The existing bridge (100 feet long and 25 feet wide) on CR-104 over the Little Pennahatchee creek has a sufficiency rating of 27.0 and has a structural condition appraisal rating code of 2. CR-104 has a functional classification of Rural Local Road and is a school bus route. TOPPS 2405-1, which governs bridge widening and replacement, states that any bridge with a sufficiency rating below 50 meets the requirement to allow a bridge to be replaced. In addition, if the sufficiency rating is below 50 and the structural condition appraisal rating code is 2 or less the bridge shall be replaced per TOPPS 2405-1. The proposed bridge will have a width of 33.25' and a length of 100' with the toe of abutment to toe of abutment distance of 72'. The proposed bridge will be constructed on the same roadway centerline as the existing structure.

**Description of the proposed project:** The project is located on CR-104 in Dooly County at Little Pennahatchee creek. The project is approximately 4 miles northwest of Vienna, GA and approximately 2.5 miles southeast of Lilly, GA. The project consists of the replacement of the existing bridge(BRS50140L) with a Replacement Bridge. The existing bridge is 100 feet long and 25 feet wide. The existing bridge has a sufficiency rating of 27.0 dated October 2001. The proposed project would be from mile post 1.62 to 1.72 on CR-104 for a project length of 560 feet.

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

PDP Classification: Major ( ) Minor (X)

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

Functional Classification: Rural Local Road

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

State Route Number(s): N/A

Traffic (AADT):

Current Year: (2007)   550  

Design Year: (2027)   800  

D = 60

K = 9

T = 1%

24 hour T = 3%

SU = 2%

Comb = 1%

**Existing design features:**

- Typical Section: 2-10 ft lanes with 2ft shoulders
- Posted speed not posted Minimum Radius: 960'
- Maximum grade: Not Available
- Width of right of way: 80 ft.
- Major structures: Bridge 100 ft x 25 ft with 20 ft approach slabs (ID# 093-5014-0)
- Major interchanges or intersections along the project: None
- Existing Bridge begins at MP 1.66 and ends at MP 1.68

**Proposed Design Features:**

- Proposed typical section(s): 2-12 ft lanes with 6'-0" shoulders and 9'-6" shoulders at guardrail locations. Minimum Radius: 960'
- Proposed gravity wall in southeast quadrant
- Proposed Design Speed Mainline: 55 mph
- Proposed Maximum grade Mainline: Not Available  
Maximum grade allowable: 6 %
- Right of way
  - Width: 120 feet total (estimated).
  - Easements: Temporary ( ), Permanent ( X ), Utility ( ), Other ( ).
  - Type of access control: Full ( ), Partial ( ), By Permit ( X ), Other ( ).
  - Number of parcels: 2 Number of displacements: 0
    - Business: \_\_\_\_\_
    - Residences: \_\_\_\_\_
    - Mobile homes: \_\_\_\_\_
    - Other: \_\_\_\_\_
- Structures:
  - Single span replacement bridge (30' del 5/12/04 33.25' width X 100' length)
- Traffic control during construction: Detour traffic: (See Attached LGPA)
- 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-0002-00(228)  
P. I. Number: 0002228  
County: Dooly

- Design Variances; None
- Environmental concerns: Wetlands-404 permit
- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes ( X ), No ( ),
  - Categorical exclusion ( X ),
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ( ), or
  - Environmental Impact Statement (EIS) ( ).
- Utility involvements: Telephone conduit in a single bore approximately 39' from the centerline of the existing road, on the upstream side of the bridge.

**Project responsibilities:**

- Design, GDOT.
- Right of Way Acquisition, Dooly County.
- Relocation of Reimbursable Utilities, Dooly County.
- Letting to contract, GDOT.
- Supervision of construction, GDOT.
- Providing material pits, Contractor
- Providing detours, Dooly County.

**Coordination**

- Initial Concept Meeting, August 13, 2002 and brief summary. *(See attached minutes)*
- Concept meeting, November 17, 2003 and brief summary. *(See attached minutes)*
- Local government comments.
- Other projects in the area (none).
- Other coordination to date (none).

**Scheduling – Responsible Parties' Estimate**

- Time to complete the environmental process: 12 Months.
- Time to complete preliminary construction plans: 4 Months.
- Time to complete right of way plans: 1 Months.
- Time to complete the Section 404 Permit: 1 Months.
- Time to complete final construction plans: 3 Months.
- Time to complete to purchase right of way: 6 Months.

Project Concept Report page 6  
Project Number: BR-0002-00(228)  
P. I. Number: 0002228  
County: Dooly

**Other alternates considered:**

- Alternate 1 Replace with Bridge;
- Alternate 2 Replace with Conspan Culvert;
- Alternate 3 No build;
- Alternate 1 was selected due to extreme scour conditions at the project site.

**Comments:**

**Attachments:**

1. Cost Estimates:
  - a. Alternate 1 ( Const., R/W, & Utilities)
2. Typical sections,
  - a. Alternate 1
  - b. Alternate 1 (Typ. Road Approach Section)
3. Bridge Inventory
4. Location and Design Notice
5. Location Sketch
  - a. Alternate 1
6. Concept Report Rating Form
7. Traffic
8. Local Government Project Agreement (LGPA)
9. Right of Way Cost Estimate
10. Initial Concept Meeting (August 13, 2002)
11. Concept Meeting (November 17, 2003)

## Concept Bridge Cost Estimate

Project No.:	BR-0002-00(228)
PI No.:	0002228
GS&P Project No.:	21826.31
Date:	3/22/04
Description:	CR 104 Bridge Replacement Project
County:	Dooly
Length of Roadway:	0.06 miles

### Project Cost

#### A. Right of Way

1. Property (Land & Easement)	\$12,200.00		\$12,200
2. Displacements: Res:0, Bus:0, M.H.:0	\$0.00		\$0
3. Other Costs ( Admin./Cost, Inflation)	\$0.00		\$0

**Subtotal: A**      **LGPA**

#### B. Reimbursable Utilities

1. Railroad	\$0.00		\$0
2. Transmission Lines	\$20,000.00		\$20,000
3. Services	\$0.00		\$0

**Subtotal: B**      **LGPA**

#### C. Construction

##### 1. Major Structures

1 ConSpan	\$0.00		\$0
2 Bridges	\$220,100.00		\$220,100
3 Detour Bridges	\$0.00		\$0
4 Box Culverts	\$0.00		\$0
5 Remove Existing Bridge	\$20,000.00		\$20,000

**Subtotal: C-1**      **\$240,100**

##### 2. Grading & Earthwork

1 Borrow	8,500.00	CY	\$5.00	\$42,500
2 Found Backfill Mtl, tp 2	0.00	CY	\$37.97	\$0

**Subtotal: C-2**      **\$42,500**

##### 3. Drainage

**Subtotal: C-3**      **\$0**

**4. Base & Paving**

<b>1 Asphalt Paving</b>			
0 Ton 9.5 mm Superpave Overlay	\$45.00		\$0
130 Ton 9.5 mm Superpave	\$45.00		\$5,850
400 Ton 19mm Superpave	\$40.00		\$16,000
600 Ton 25mm Superpave	\$40.00		\$24,000
0 Ton Leveling @	\$38.51		\$0
300 gal Bitum. Tack @	\$1.00		\$300
<b>2 Graded Aggregate Base</b>			
0 Ton 10" GAB	\$ 18.26		\$0
1,100 Ton 8" GAB	\$ 12.00		\$13,200
0 Ton 6" GAB	\$ 7.08		\$0

**Subtotal: C-4 \$59,350**

**5. Concrete Work**

<b>1 Class A Concrete</b>			
0 CY @	\$360.89		\$0
<b>2 Valley Gutter</b>			
0 SY 6" @	\$26.35		\$0
<b>3 Reinforced Concrete Approach Slab</b>			
220 SY @	\$200.00		\$44,000
<b>4 Class B Concrete</b>			
110 CY @	\$320.00		\$35,200

**Subtotal: C-5 \$79,200**

**6. Signing & Striping**

1 Arrow Type 2	0	EA	\$61.14	\$0
2 Arrow Type 3	0	EA	\$76.41	\$0
3 Word Type 1	0	EA	\$81.42	\$0
4 Solid 5" White	0.27	LM	\$260.00	\$70
5 Solid 5" Yellow	0.27	LM	\$375.00	\$101
6 Highway Signs	4	EA	\$150.00	\$600
7 Skip 5" White	0	LF	\$1.60	\$0
8 Skip 5" Yellow	0	LF	\$1.60	\$0
9 Thermo. Solid Traff. Stripe, 8" WHITE	0	LF	\$1.60	\$0
10. Thermo. Solid Traff. Stripe, 24" WHITE	0	LF	\$4.46	\$0
11 Thermo. Traff. Stripping(Hatching)	0	SY	\$3.50	\$0
12 RPM Type 1, Yellow	0	EA	\$5.76	\$0
13 RPM Type 3, White	0	EA	\$4.44	\$0

**Subtotal: C-6 \$771**

**7. Lighting**

1 Overhead Lights	\$0.00			\$0
-------------------	--------	--	--	-----

**Subtotal: C-7 \$0**

<b>8. Guardrail</b>			
400 LF Type W @		\$11.00	\$4,400
84 LF Type T @		\$37.00	\$3,108
0 ea Type 1 anchors @		\$350.00	\$0
4 ea Type 12 anchors @		\$1,500.00	\$6,000
			<b>Subtotal: C-8</b>
			<b>\$13,508</b>
<b>9. Traffic Control</b>			
1 LS @		\$30,000.00	\$30,000
			<b>Subtotal: C-9</b>
			<b>LGPA</b>
<b>10. Clearing &amp; Grubbing</b>			
1.3 AC @		\$6,000	\$7,800
			<b>Subtotal: C-10</b>
			<b>\$7,800</b>
<b>11. Permanent Erosion Control</b>			
0.5 ac Grassing @		\$4,000.00	\$2,000
			<b>Subtotal: C-11</b>
			<b>\$2,000</b>
<b>12. Temporary Erosion Control</b>			
1 Temporary Grassing	0.5 ac @	\$450.00	\$225
2 Temporary Mulch	2 ton @	\$260.00	\$520
3 Temporary Silt Fence	2400 LF @	\$1.70	\$4,080
4 Main. Of Silt Fence	1200 LF @	\$1.00	\$1,200
5 Erosion Control Mats	1500 SY @	\$1.20	\$1,800
6 Temp. Ditch Checks	24 ea @	\$200.00	\$4,800
7 Silt Control gates-Construct & Remove	0 ea @	\$1,004.60	\$0
8 Silt Control gates-Maint.	0 ea @	\$233.29	\$0
9 Stn Dumped Rip Rap 24 in	600 SY @	\$50.00	\$30,000
10 Construct Sediment Basin	2 ea @	\$8,200.00	\$16,400
11 Maintain Sediment Basin	2 ea @	\$1,120.00	\$2,240
			<b>Subtotal: C-12</b>
			<b>\$61,265</b>

## Concept Bridge Cost Estimate Summary

Alternate 1

### A. Right of Way

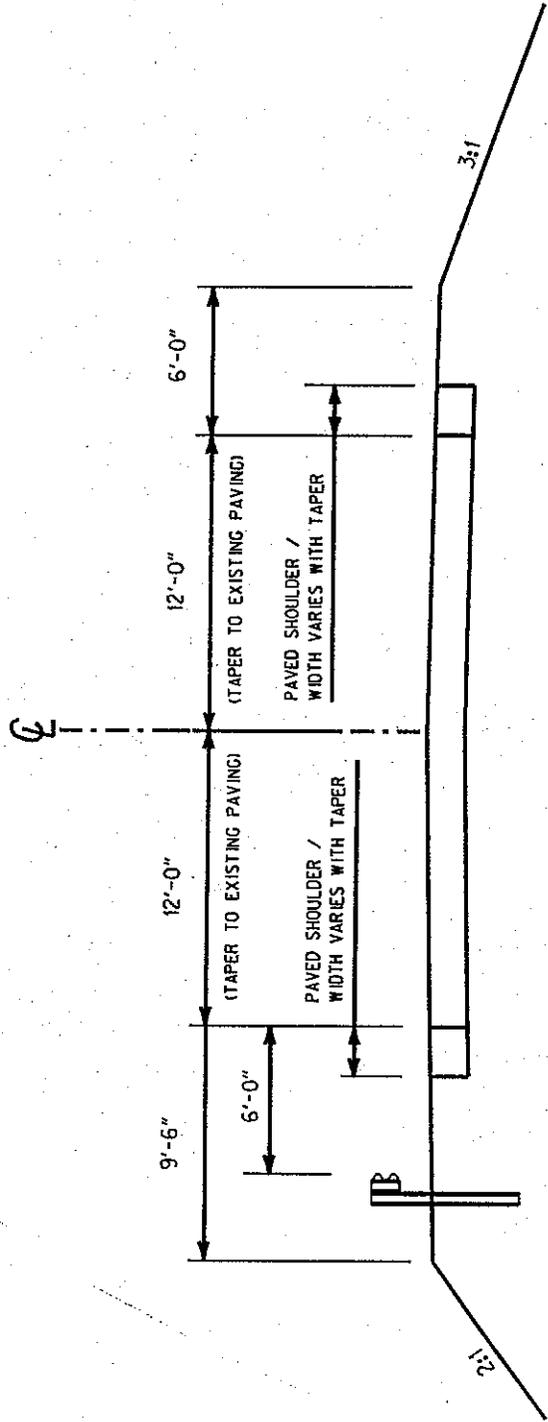
LGPA

### B. Reimbursable Utilities

LGPA

### C. Construction

1. Major Structures	\$240,100
2. Grading & Earthwork	\$42,500
3. Drainage	\$0
4. Base & Paving	\$59,350
5. Concrete Work	\$79,200
6. Signing & Striping	\$771
7. Lighting	\$0
8. Guardrail	\$13,508
9. Traffic Control	LGPA
10. Clearing & Grubbing	\$7,800
11. Permanent Erosion Control	\$2,000
12. Temporary Erosion Control	\$61,265
<b>SUBTOTAL CONSTRUCTION COST</b>	<b>\$506,494</b>
E. & C. (10%)	\$50,649
INFLATION (5% PER 2 YEARS)	\$54,575
<b>TOTAL CONSTRUCTION COST</b>	<b>\$611,719</b>
<b>GRAND TOTAL PROJECT COST</b>	<b>\$611,719</b>



TYPICAL ROADWAY APPROACH SECTION

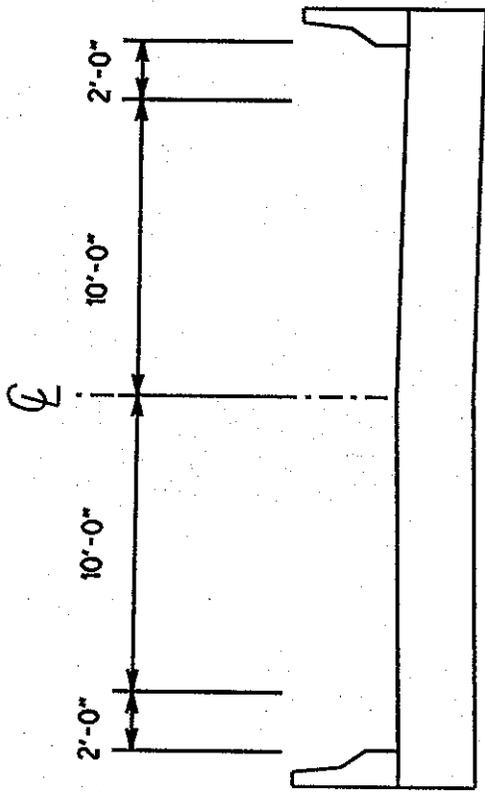
NOT TO SCALE

URS WORK ORDER #31

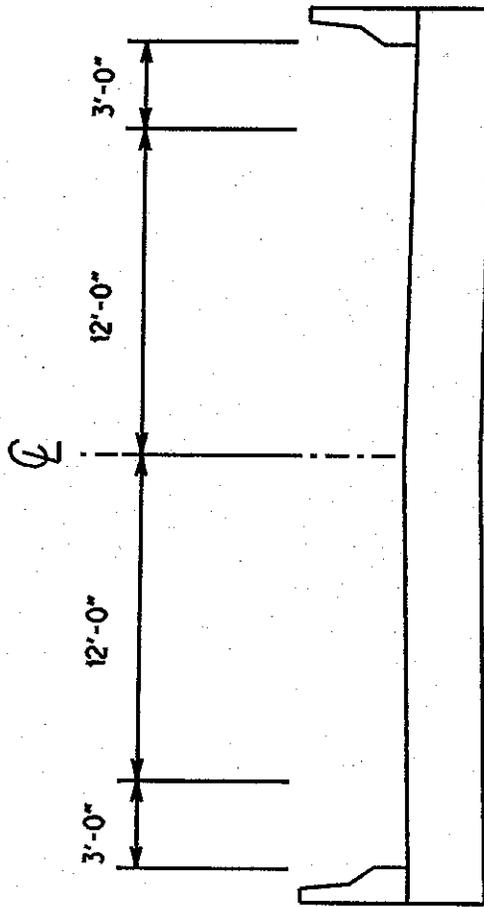
CR 104/PLEASANT VALLEY ROAD  
 LITTLE PENNAHATCHEE CREEK  
 DOOLY COUNTY  
 PROJECT#BR-0002-00(228)  
 PI#0002228

G R E S H A M  
 S M I T H A N D  
 P A R T N E R S





EXISTING BRIDGE SECTION



PROPOSED BRIDGE SECTION

NOT TO SCALE



G R E S H A M  
S M I T H A N D  
P A R T N E R S

URS WORK ORDER #31

CR 104/PLEASANT VALLEY ROAD  
LITTLE PENNAHATCHEE CREEK  
DOOLY COUNTY  
PROJECT#BR-0002-00(22B)  
PI#0002228

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 093-5014-0  
 Location & Geography

Dooley

SUFF. RATING

26.98

* Structure I.D.No:	093-5014-0	* 104 Highway System:	0	* 238 Curb:	1.00
* 200 Bridge Information	06	* 26 Functional Classification:	09	* 239 Handrail:	2 2
* 6A Feature Int:	LITTLE PENNAHATCHEE CRK	* 204 Federal Route Type:	No.: 00000	* 240 Median Barrier Rail:	0
* 6B Critical Bridge:	0	* 105 Federal Lands Highway:	0	* 241 Bridge Median Height:	0.00
* 7A Route Number Carried:	CR00104	* 110 Truck Route:	0	Width:	0.00
* 7B Facility Carried:	PLEASANT VALLEY RD	* 206 School Bus Route:	0	Height:	1.00
* 9 Location:	3 MI NW OF VIENNA	* 217 Benchmark Elevation:	0000.00		
* 2 DOT District:	3	* 218 Datum:	0		
* 207 Year Photo:	2003	* 19 Bypass Length:	06		
* 91 Inspection Frequency:	24 Date: 08/13/2003	* 20 Toll:	3		
* 92A Fract Crit Insp Freq:	00 Date: 02/01/1901	* 21 Maintenance:	02		
* 92B Underwater Insp Freq:	00 Date: 02/01/1901	* 22 Owner:	02		
* 92C Other Spc. Insp Freq:	00 Date: 02/01/1901	* 31 Design Load:	0		
* 4 Place Code:	00000	* 37 Historical Significance:	5		
* 5 Inventory Route (O/U):	1	* 205 Congressional District:	08		
Type:	4	* 27 Year Constructed:	1965		
Designation:	1	* 106 Year Reconstructed:	0000		
Number:	00104	* 33 Bridge Median:	0		
Direction:	0	* 34 Skew:	30		
* 16 Latitude:	32-08.2	* 35 Structure Flared:	0		
* 17 Longitude:	83-50.3	* 38 Navigation Control:	0		
* 98 Border Bridge:	000	* 213 Special Steel Design:	0		
* 99 ID Number:	0000000000000000	* 267 Type of Paint:	1		
* 100 STRAHNET:	0	* 42 Type of Service on:	1		
* 12 Base Highway Network:	1		5		
* 13A LRS Inventory Route:	932010400	* 214 Movable Bridge:	0		
* 13B Sub Inventory Route:	0	* 203 Type Bridge:	C-K-M-O		
* 101 Parallel Structure:	N	* 259 Pile Encasement:	3		
* 102 Direction of Traffic:	2	* 43 Structure Type Main:	3 02		
* 264 Road Inventory Mile Post:	001.67	* 45 No. Spans Main:	005		
* 208 Inspection Area:	08	* 44 Structure Type Appr:	0 00		
Engineer's Initial:	berm	* 46 No. Spans Appr:	0000		
		* 226 Bridge Curve Horz:	0		
		* 111 Pier Protection:	0		
		* 107 Deck Structure Type:	1		
		* 108 Wearing Surface Type:	M 0		
			F 0		
* Location I.D. No.:	093-00104X-001.67N				

## Signs & Attachments

225	Expansion Joint Type:	02
242	Deck Drains:	1
243	Parapet Location:	0
	Height:	0.00
	Width:	0.00
238	Curb:	1.00
239	Handrail:	2 2
* 240	Median Barrier Rail:	0
241	Bridge Median Height:	0.00
	Width:	0.00
* 230	Guardrail Loc Dir Rear:	6
	Fwr:	6
	Oppo Dir Rear:	0
	Fwr:	0
244	Approach Slab:	3
224	Retaining Wall:	0
233	Posted Speed Limit:	55
236	Warning Sign:	0
234	Delineator:	0
235	Hazard Boards:	0
237	Utilities Gas:	00
	W	00
	Ele	00
	Telephone:	31
	Sk	00
247	Lighting Street:	0
	Navigaion:	0
	Aerial:	0
* 248	County Continuity No.:	00





## SCORING RESULTS AS PER TOPPS 2440-2

<b>Project Number:</b>		<b>County:</b>		<b>PI No.:</b>	
<b>Report Date:</b>		<b>Concept By:</b>			
<input type="checkbox"/> CONCEPT		DOT Office:			
		Consultant:			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input type="checkbox"/> Minor	<input type="checkbox"/> Urban <input type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input 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	
<b>FOCUS AREAS</b>	<b>SCORE</b>	<b>RESULTS</b>			
<b>Presentation</b>					
<b>Judgment</b>					
<b>Environmental</b>					
<b>Right of Way</b>					
<b>Utility</b>					
<b>Constructability</b>					
<b>Schedule</b>					

# NOTICE OF LOCATION AND DESIGN APPROVAL

## PROJECT BR-0002-00(228) DOOLY COUNTY P.I. NUMBER 0002228

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 27, 2003~~ <sup>IDEP</sup> **MAY 20, 2004**

The project consists of the replacement of the existing bridge and new roadway approaches to CR 104 over Little Pennahatchee Creek in Dooly County. The total length of project is 0.06 miles, beginning at mile log 1.64 and ending at mile log 1.70 in Dooly County. The project is within Land Lots 148 and 149, 7<sup>th</sup> District, Dooly County, Georgia.

The construction will consist of the removal of the existing bridge and the construction of a new bridge. The existing bridge is 100' long and 25' wide with a current sufficiency rating of 27, and is in need of replacement. The proposed bridge is approximately 100' long and is 30' wide. The proposed roadway width is 24' with rural shoulders of 9'-6", none of which will be paved.

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

Clinton Ford  
Clinton.Ford@dot.state.ga.us  
200 Julianne Street  
Perry, Georgia 31069  
(478) 988-7151

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

William J. Rountree, P.E., District Design Engineer  
Department Of Transportation  
bill.rountree@dot.state.ga.us  
715 Andrews Drive  
Thomaston, Georgia 30286-4524  
(706) 646-6604

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.

# Department of Transportation State of Georgia

---

## INTERDEPARTMENT CORRESPONDENCE

**FILE** BR-0002-00(228) Dooly  
P.I. 0002228

**OFFICE** Environment/ Location

**DATE** October 3, 2001

**FROM** Harvey D. Keepler, State Environmental/ Location Engineer

**TO** Glenn Durrence, P.E., District Engineer, Thomaston  
**Attn: Bill Rountree**

**SUBJECT** CR 104/Pleasant Valley Rd. @ Little Pennahatchee Creek

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

Existing 2001 ADT = 450  
2007 ADT = 550  
2027 ADT = 800  
K = 9%  
D = 60%  
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

RECEIVED

MAY 09 2001



OFFICE OF PROGRAMMING

Department of Transportation

J. TOM COLEMAN, JR.  
COMMISSIONER  
(404) 656-5206

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

State of Georgia  
#2 Capitol Square, S.W.  
Atlanta, Georgia 30334-1002

ADMIN	<i>[Signature]</i>
DEV	
MGT	
SCHED	
HAROLD E. LINNENKOHLE DEPUTY COMMISSIONER (404) 656-5212	
BILLY F. SHARP TREASURER (404) 656-5224	<i>[Signature]</i>

April 9, 2001

LOCAL GOVERNMENT PROJECT AGREEMENT

In consideration of the proposed improvements, DOOLY County agrees to provide or perform the following at no cost to the Georgia D.O.T. for project BR-0002-00(228) Dooly Co., PI # 0002228:  
BRIDGES  
CR 104/PLEASANT VALLEY RD @ LITTLE PENNAHATCHEE CRK

- 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
- Relocate or adjust all privately owned utilities to clear construction of this project, including adjustments at railroad crossings if required.
- Furnish detours, local borrow and 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 3 day of May, 2001

APPROVED *[Signature]* County Clerk

City/County Official

TO		
1	D.E.	<i>[Signature]</i>
	Center	
	Adm.	
	St. Aid	
	Maint.	
3	Pracn	<i>[Signature]</i>
	Loc.	
	T & S	
2	Util.	<i>[Signature]</i>
	EEO	
	Safety	
	Mats.	
	Design	
	Cons.	
	R/W	
Return to:		

**RIGHT OF WAY COST ESTIMATE**

DATE: December 22, 2003

P.I.#: 0002228

PROJECT: BR-0002-00(228) Dooly County

PARCELS: 2

PROJECT DESCRIPTION: CR 104/PLEASANT VALLEY RD. @ LITTLE PENNAHATCHEE CREEK

LAND: (Includes Fee Simple and Easement and is listed by category)

**Total** \$ 2,000

IMPROVEMENTS: (Includes Related Site Improvement)

**Total** \$ 0.00

RELOCATION:

**Total** \$ 0.00

DAMAGES: (Includes Cost to Cure and Trade Fixtures)

**Total** \$ 0.00

**Estimated Cost of Right of Way**

**\$ 2,000.00**

C/O, Condemnation Increase & Legal Cost (50% of R/W)	\$ 1,000.00
Fee Acquisition Cost	\$ 2,000.00
Fee Appraisal Cost	\$ 2,000.00
Condemnation Cost (# Par x 10% x \$5,500)	\$ 1,100.00
Incidentals (# Par x \$1,500)	\$ 3,000.00

**Net Cost**

**\$ 11,100.00**

Inflation (10% rural, 25% rural) \$ 1,110.00

**TOTAL COST**

**\$ 12,210.00**

**TOTAL COST (ROUNDED)**

**\$ 12,200.00**

Credits:

# Hours

Cc:

Attachment(s): Project Location Map



G R E S H A M  
S M I T H   A N D  
P A R T N E R S

August 14, 2002

**MEETING NOTES**

**MEETING TO DISCUSS THE FOLLOWING WORK ORDER PROJECTS**  
**GDOT STP 0002-00(228) – DOOLY COUNTY**  
**GDOT STP 0000-00(685) – MONROE COUNTY**  
**GDOT STP 0001-00(812) – MUSCOGEE AND HARRIS COUNTIES**  
**GDOT STP 0000-00(298) – HENRY COUNTY**  
**GDOT STP 0000-00(399) – FAYETTE COUNTY**

MEETING DATE: August 13, 2002

PARTICIPANTS: Bill Rountree – GDOT  
Chuck Coogler – GDOT - Partial  
Jack Reed – GDOT – Partial  
Geraldine – GDOT - Partial  
Tom Zeigler – GS&P  
Reid Irwin – GS&P

DISCUSSION: DEFINE SCOPE OF NEW PROJECTS, DISCUSS STATUS OF  
ON-GOING PROJECTS

Project STP 0002-00(228) – Dooly County

- Wo # 31*
- GS&P will prepare a Concept Report for the proposed bridge replacement project.
  - An example report prepared for the Chattahoochee project was provided to GS&P by GDOT.
  - The road will be closed and traffic will be re-directed during construction of the project.
  - GDOT provided a location sketch to GS&P.
  - GDOT provided traffic information to GS&P
  - GS&P provide a field review, perform field measurements, and prepare an existing conditions sketch to use as basis for development of proposed concept.
  - GS&P should estimate RW. Info. probably not available through GDOT.
  - GS&P may request old plans from Pearl Moore in the Atlanta Office or research the files ourselves. Plans may not be available.
  - Proposed concept should replace the bridge in the same location unless horizontal geometrics are bad.
  - Vertical alignment should be estimated based on site review and engineering judgment.

Design Services For The Built Environment

2325 Lakeview Parkway, Suite 400 / Alpharetta, Georgia 30004-1976 / Phone 770.754.0755 / www.gspnet.com



**MEETING NOTES**  
**MEETING TO DISCUSS WORK ORDER PROJECTS**

August 14, 2002

Page 2

- Preliminary hydrology should be reviewed to determine if a bridge is required or if a culvert may be used in lieu of the bridge.
- Concept report should provide the anticipated approximate size of the bridge or culvert, and identify type of bridge structure.
- Layout using field sketch, use high altitude photo, or other appropriate available info.
- GDOT will provide latest concept report format.
- Include a concept team meeting in estimated fee. Allow 3 weeks notice for local officials to respond to concept.

Project STP 0000-00(685) – Monroe County

NO #32

- GS&P will prepare hydraulic studies and preliminary bridge layouts for the proposed bridge replacement project.
- GDOT has prepared preliminary plans for projects STP 0000-00(686) bridge replacement project and STP 0000-00(685) bridge replacement project. These projects have been combined and will be referred to as project 0000-00(685). Thus creating one project with two proposed bridge replacements.
- Hydraulic analysis should be used to determine if bridges can be replaced with culverts. At this time, GDOT expects that one crossing will be a culvert and one will remain a bridge.
- Geraldine will prepare roadway plans for GDOT
- All hydraulic studies will need to be coordinated with Sam Teel and John Tiernon in GDOT bridge group.
- Include GDOT PI# on all project correspondence.
- GDOT will provide all survey / database to GS&P this week. The profile will probably change.
- GS&P will provide a plan and elevation for the preliminary bridge layout, and drainage profiles for any proposed culverts.
- GS&P should include time in their fee estimate to attend PFPR, provide site inspection, and provide revisions based on PFPR and inspection. GS&P will need to provide request to GDOT to provide staking of preliminary layouts
- Schedule – RUSH. R/W in this year budget, contract anticipated in July 2003, county has let contract to pave road up to bridges. Road is not currently paved.
- GS&P should talk with John Tiernon about doing final design also.

Project STP 0001-00(812) – Muscogee and Harris Counties

- GS&P provided the final concept report and plans to GDOT. GS&P will await further direction in the event that additional changes are needed.
- GS&P will provide electronic files to GDOT



**MEETING NOTES**

**MEETING TO DISCUSS WORK ORDER PROJECTS**

August 14, 2002

Page 3

Projects GDOT STP 0000-00(298) – Henry County & GDOT STP 0000-00(399) – Fayette County

- GDOT provided concept alternatives for review and discussion. The district office will review the plans and forward the plans to the intersection section group for review and comment.
- GDOT will provide property information for project STP0000-00(399) to GS&P next week.
- GDOT will provide TE studies for both projects when available.

This represents our understanding of the items discussed at this meeting. If you have any questions or comments concerning any of the information contained herein, please contact me.

Prepared by: A. Reid Irwin

TPZ

Copy      Participants  
            Kevin Hosey - URS



G R E S H A M  
S M I T H   A N D  
P A R T N E R S

November 26, 2003

**MEETING NOTES**

**URS WORK ORDER #31  
CR-104 OVER PENNAHATCHEE CREEK, DOOLY COUNTY  
GS&P Project No. 21826.31**

MEETING DATE: November 17, 2003 / 10:00 am

PARTICIPANTS: Concept Team (see attached sign-in sheet)

DISCUSSION: DISCUSSION TO REVIEW CONCEPT REPORT

1. Bill Rountree began the meeting with introductions around the room (refer to sign-in sheet).
2. Tom Ziegler described GS&P's role on the project and then turned the meeting over to Joe Rozza to discuss the project in detail. Tom stated that this is preliminary design based from gathered data detailed enough to produce a concept report.
3. Joe Rozza began with a brief description of the project for existing and proposed conditions. The description included reference to specific design restraints presented in the GDOT Bridge Hydraulics Design Policy (chapter 6) and the process used to calculate the hydraulic conditions at the bridge for the design year and 100yr storm events. The basin and floodplain conditions were referenced from pictures taken by GS&P at the project site and the approximate 13.3 sq. mi. drainage basin.
4. Joe Rozza described the backwater analysis and cost analysis concluding that GS&P's recommendation is for a CONSPAN bottomless culvert option which is approximately 35% less in price than a bridge replacement. Joe Rozza then explained that the engineering analyses that were performed were focused on making the decision to use either a replacement bridge or a culvert. Due to the extent of floodplain constriction at the crossing, the structure size could change to address scour mitigation and other concerns not directly evaluated during the preparation of this Concept Report.

Design Services For The Built Environment

2325 Lakeview Parkway, Suite 400 / Alpharetta, Georgia 30004-7940 / Phone 770.754.0755 / [www.gspnet.com](http://www.gspnet.com)



## MEETING NOTES

### CR-104 OVER PENNAHATCHEE CREEK, DOOLY COUNTY

GS&P Project No. 21826.31

November 18, 2003

Page 2

5. Tom Ziegler then clarified that GS&P was not tasked with roadway improvements, just a bridge or culvert replacement option, and GS&P has made estimates for roadway improvements for cost analysis.
6. A comment was then made concerning the bottomless culvert option recommended by GS&P. David Patterson referred to the memorandum dated August 18, 2003 from the office of Environment/Location requesting the consideration for a bottomless culvert for GDOT project BR-0000-00(685) which has similar characteristics to this project and also located in District #3. Debra Benton from the environmental office stated that this should also be a consideration for this project.
7. Bill Rountree led the concept team through a page-per-page review of the Concept Report.
8. No comments for the Cover Sheet and Page #1 and Location Sketch.
9. Discussion Item: in the **Need and Purpose** statement, the word Road is to be added to the term "Rural Local" in the second sentence.
10. Discussion Item: the last two sentences are to be struck from the **Description of the proposed project** section.
11. Discussion Item: the word Road is to be added to the line titled **Functional Classification**, making the response "Rural Local Road".
12. Discussion Item: under **Existing design features**:, "Maximum degree of curvature" shall be changed to "Minimum Radius". The posted speed reference of 55 mph shall be changed to "not posted" due to the lack of signage at the project location. **The Width of right of way**: dimension of 80' was then questioned and Tommy Watson Jr. from Dooly County Roadway Department stated that he would verify this dimension with tax maps for the county and coordinate with Audrey Gooch with the GDOT Local Government Coordination office.
13. Discussion Item: Bill Rountree made the comment that the 2' paved shoulder section on the exhibit for the typical roadway should be removed. Shoulder width should be 6'-0" with an additional 3 ½' shoulder width added for guardrail requirements where a 2:1 slope is to occur. Bill Rountree asked for verification of the dimension of 9 ½' for shoulder width in the Green Book.



MEETING NOTES

**CR-104 OVER PENNAHATCHEE CREEK, DOOLY COUNTY**

GS&P Project No. 21826.31

November 18, 2003

Page 3

14. Discussion Item: under **Proposed Design Features:**, the 10' shoulder is to be changed to 6'. In the same section, under the sub-heading Right of way, the word "Total" is to be added to the 130 feet estimated right of way width. The statement to read "130 feet Total (estimated)". Within the same sub-heading, Number of parcels is to be amended. Audrey Gooch is to coordinate with Tommy Watson Jr. to provide GS&P with this information to amend the Concept Report. Also under the Right of way sub-heading, the Utility box is to be checked on the Easements line.
15. Discussion Item: under **Proposed Design Features:**, the sub-heading Traffic control during construction:, Tommy Watson Jr. is to verify that the detour plan for the construction phase of the project is acceptable for Dooly County.
16. No comment for a change to the **Environmental concerns:** statement was made by Debra Benton of the GDOT Environmental Office.
17. Discussion Item: under Utility involvements:, telephone conduit in a single bore approximately 30' from the centerline of the existing road is to be added. This statement was made by Bill Gregory of Citizens Telephone and verification of line would be made upon receipt of final plans for bridge replacement construction.
18. Discussion Item: under **Project Responsibilities:**, Dooly County is to replace, Local Government, on the Right of Way Acquisition line. The word Reimbursable is to be added to the statement Relocation of Utilities, Dooly County line to now read "Relocation of Reimbursable Utilities, Dooly County." Audrey Gooch to provide a copy of the LGPA for right of way certification which is to become a part of the Concept Report.
19. Discussion Item: under **Coordination**, include date of the initial project meeting and include the meeting minutes with the Concept Report. The meeting minutes herein shall also be attached and the date of the meeting added to the Concept Report. The minutes herein shall also be distributed to those departments and individuals included on the sign-in sheet (see attached).
20. Discussion Item: under **Scheduling-Responsible Party's Estimate**, the estimate for 6 months for right of way purchase is to be verified by Tommy Watson Jr. of Dooly County. No comments made by other departments for the schedule.
21. No comments for **Other alternates considered:**



MEETING NOTES  
CR-104 OVER PENNAHATCHEE CREEK, DOOLY COUNTY  
GS&P Project No. 21826.31  
November 18, 2003  
Page 4

22. Discussion Item: in the **Preliminary ConSpan Cost Estimate (Alternate 2)**, under Right of Way, Audrey Gooch is to coordinate with Dooly County for estimating the right of way purchase and provide the information to GS&P for inclusion in the Concept Report. Under Reimbursable Utilities, the left column in the Transmission Lines line is to read \$20,000.00 and the right column is to remain \$0.
23. Discussion Item: in the **Preliminary ConSpan Cost Estimate (Alternate 2)**, under Signing & Striping, the request was made to verify striping costs in the two alternates. Both alternates show the same distance for striping but do not appear to be the same distance from the plans.
24. Discussion Item: Bill Rountree posed the question for the GDOT Construction Office (not present at meeting) why a conventional culvert option was not considered. Debra Benton of the Environmental Office stated that the bottomless culvert option should be considered with all new culvert design and that a letter from her office would be forthcoming from the Environmental Office verifying the request for the bottomless culvert design.
25. Discussion Item: concerning the Notice of Location and Design Approval, the lettering in the document is to be all block letters. Charles Coogler stated that he had made the changes and would provide GS&P with a copy to include in the Concept Report.
26. Discussion Item: concerning the exhibits showing the plan view of the two alternates, the shoulder tapers from the bridge or new roadway width shall be corrected to show the taper ending at the edge of the existing pavement. Current exhibits show the taper ending prior to existing pavement tie-in.
27. Discussion Item: an additional exhibit is to be added showing the typical roadway section for the roadway approach sections.
28. Discussion Item: the roadway section over the culvert does not have to have a 6' paved shoulder, this should be removed from the Alternate 2 exhibit.
29. Bill Rountree then solicited comments from each office in attendance:
  - o Planning – not present
  - o Office of Financial Management – not present
  - o Environmental – to provide letter for bottomless culvert consideration



MEETING NOTES

**CR-104 OVER PENNAHATCHEE CREEK, DOOLY COUNTY**

GS&P Project No. 21826.31

November 18, 2003

Page 5

- o Utilities – anticipates some cost as noted previously in meeting
- o Right of Way – Audrey Gooch to provide LGPA and cost estimates to GS&P
- o Traffic Operations – no comment
- o Construction – not present
- o Maintenance – not present
- o Location – not present
- o City and/or county – will provide right of way information
- o Others – no comments

This represents our understanding of the items discussed at this meeting. If you have any questions or comments concerning any of the information contained herein, please contact me.

Prepared by: David Patterson  
Hydraulic Specialist, Gresham, Smith and Partners

Copy      Participants (see attached sign-in sheet)

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

Office of District 3 Design

Project Number: BR-0002-00(228)

County: Dooly

P. I. Number: 0002228

Federal Route Number: N/A

State Route Number: N/A

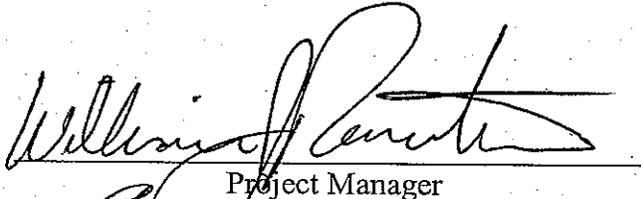
County Route Number: 104

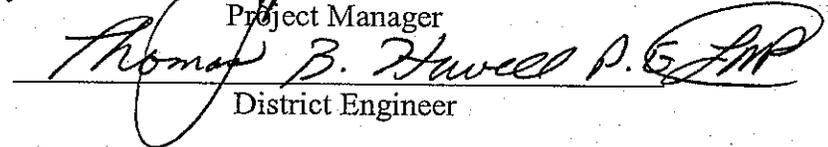
See Attached Location Sketch

Recommendation for approval:

DATE 3/22/04

DATE 4-6-04

  
Project Manager

  
District 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

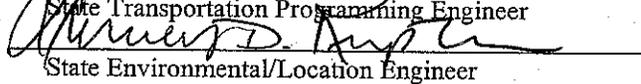
DATE \_\_\_\_\_

\_\_\_\_\_  
Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Programming Engineer

DATE 4.21.2004

  
State Environmental/Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Operations Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

Office of District 3 Design

Project Number: BR-0002-00(228)  
County: Dooly  
P. I. Number: 0002228

Federal Route Number: N/A  
State Route Number: N/A  
County Route Number: 104



See Attached Location Sketch

Recommendation for approval:

DATE 3/22/04

DATE 4-6-04

*William J. Curran*  
Project Manager

*Thomas B. Howell P. E. A.P.*  
District 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 \_\_\_\_\_

Financial Management Administrator

DATE \_\_\_\_\_

State Transportation Programming Engineer

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Operations Engineer

DATE 4/15/04

*David J. Medley Sr.*  
Project Review Engineer

DATE \_\_\_\_\_

State Bridge Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

Office of District 3 Design

RECEIVED  
APR 15 2004  
OFFICE OF PLANNING

Project Number: BR-0002-00(228)

County: Dooly

P. I. Number: 0002228

Federal Route Number: N/A

State Route Number: N/A

County Route Number: 104

See Attached Location Sketch

Recommendation for approval:

DATE 3/22/04

DATE 4-6-04

*William J. ...*  
Project Manager

*Thomas B. Howell P.E. SRP*  
District 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 4/23/04

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

*Joseph ...*  
State Transportation Planning Administrator

Financial Management Administrator

State Transportation Programming Engineer

State Environmental/Location Engineer

State Traffic Operations Engineer

Project Review Engineer

State Bridge Design Engineer

ROUTING

*Thomas*  
 *John*  
 *Lisa*

*Joe*  
 *Chamela*  
 *Med*

*Handwritten initials*

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of District 3 Design*

Project Number: BR-0002-00(228)

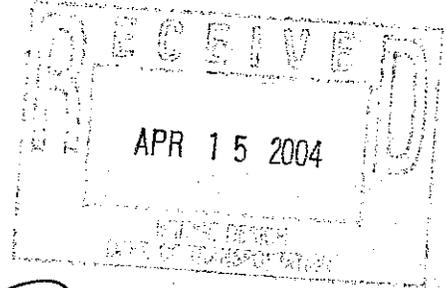
County: Dooly

P. I. Number: 0002228

Federal Route Number: N/A

State Route Number: N/A

County Route Number: 104



**See Attached Location Sketch**

Recommendation for approval:

DATE 3/22/04

DATE 4-6-04

*William J. Penick*  
\_\_\_\_\_  
Project Manager

*Thomas B. Hawes P.E. SR*  
\_\_\_\_\_  
District 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 \_\_\_\_\_

\_\_\_\_\_  
Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Programming Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Operations Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

DATE 5/13/04

*Paul V. Hiller Jr.*  
\_\_\_\_\_  
State Bridge Design Engineer