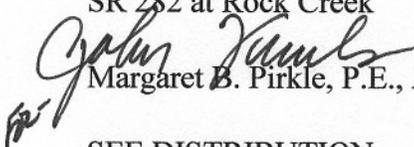


D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 642410, Murray County **OFFICE** Preconstruction
BRST-2860(1)
SR 282 at Rock Creek **DATE** May 19, 2005

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
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Paul Liles
Babs Abubakari
Kent Sager
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 642410, Murray County **OFFICE** Preconstruction
BRST-2860(1)
SR 282 at Rock Creek **DATE** May 10, 2005

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

TO *David E. Studstill, Jr.*
David E. Studstill, Jr., P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on SR 282 over Rock Creek, 5.3 miles south of Chatsworth, Georgia. The existing bridge, constructed in 1935, is load limited with a sufficiency rating of 54. The original design load capacity is H-15. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. State Route 282 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 282 is functionally classified as a rural minor arterial. Traffic is projected to be 5,100 VPD and 8,600 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 120' x 44' concrete bridge over Rock Creek at existing bridge site. The approaches will consist of two, 12' lanes with 10' rural shoulders (2' paved). Traffic will be maintained during construction utilizing an on-site detour.

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

This project will require split funding because the sufficiency rating exceeds 50. "BR" funding will cover the amount equal to the widening and the remainder will consist of "STP" funding.

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)	BR	BR		
	\$1,106,000	\$1,106,000	Q10	LR
	STP	STP		
	\$ 121,000	\$ 121,000	Q24	
Right-of-Way	\$ 240,000	\$ 240,000		
Utilities*	\$ 63,000	\$ 63,000		

David Studstill

Page 2

P. I. No. 642410, Murray

May 10, 2005

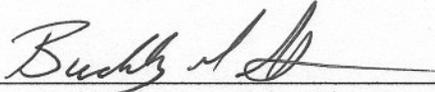
*LGPA sent 7-12-99 requesting Murray County do utilities.

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

MBP:JDQ/cj

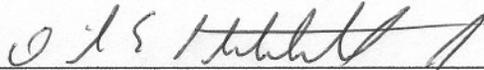
Attachment

CONCUR



Buddy Gratton, P.E., Director of Preconstruction

APPROVE



David E. Studstill, Jr., P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-2860(1) Murray
P.I. No. 642410
S.R. 282 at Rock Creek

OFFICE: Engineering Services

DATE: May 5, 2005

FROM: David Mulling, Project Review Engineer *REW*

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report submitted by the letter from Kent Sage dated April 6, 2005, and have no comments.

The costs for this project are:

	<u>REPLACEMENT</u>	<u>WIDENING</u>
Construction	\$1,061,800	956,800
Inflation	\$53,090	52,624
E&C	\$111,490	95,680
Reimbursable Utilities	\$63,000	63,000
Right of Way	\$240,000	240,000

REW

Sally Quarles 5/10/2005

c: Kent Sager, Attn. David Moore, Cartersville

SCORING RESULTS AS PER MOG 2440-2

Project Number: BRST-2860(1)		County: Murray		PI No.: 642410	
Report Date: April 6, 2005		Concept By: DOT Office: District 6			
<input checked="" type="checkbox"/> Concept Stage		Consultant: N/A			
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 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	
FOCUS AREAS	SCORE	RESULTS			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-2860 (1), *Murray Co.* **OFFICE** Cartersville, Ga.
P.I. No.: 642410
Bridge Replacement SR282 **DATE** May 6, 2005
at Rock Creek

FROM Kent L. Sager, District Engineer – District Six

TO *Meg Pirkle, Assistant Division Director of Preconstruction*

SUBJECT Project Concept Report For Approval

Attached is a copy of the concept report for project BRST-2860(1) Murray County. Copies have been forwarded to the appropriate offices for review and comment.

If additional information is needed, please call David P. Moore at 770-387-3622. As always, your assistance is greatly appreciated.

This concept is being submitted in paper format due to no PDF technology.

By: *David P. Moore*
District Design Engineer

KLS:DPM:stm

Attachments:

cc: *David Mulling, Project Review Engineer*
Harvey Keeper, State Environmental/Location Engineer
Carla Holmes, State Traffic Operations Engineer
Joe Palladi, State Transportation Planning Administrator
Jammie Simpson, Financial Management Administrator
Paul Liles, State Bridge Design Engineer
Main File
File

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: BRST-2860(1)

County: Murray

P. I. Number: 642410

Federal Route Number: none

State Route Number: SR282

Recommendation for approval:

DATE 5-4-05

Curtis D. Comer

Project Manager

DATE 5/4/05

Keith J. ...

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 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 & Design Engineer

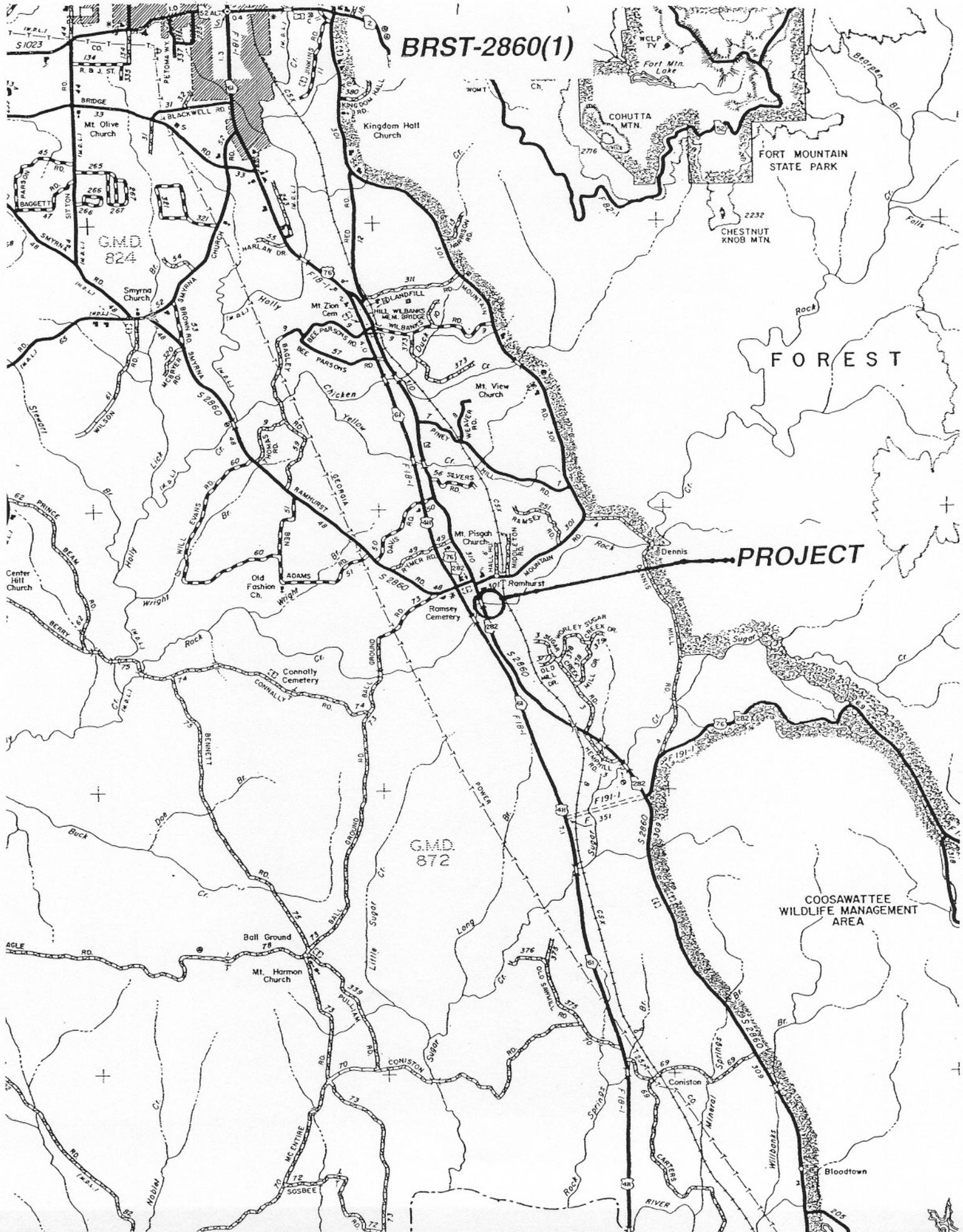
DATE _____

Project Review Engineer

DATE _____

Bridge Design

BRST-2860(1)



PROJECT

FOREST

COOSAWATTEE
WILDLIFE MANAGEMENT
AREA

FORT MOUNTAIN
STATE PARK

GMD
872

GMD
824

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRST-2860(1)		

ATTACHMENT "B" DETOUR LOCATION

M.P. 6.68

US41 + SR61

PROPOSED DETOUR
(570 LIN. FT)

BRST-2860(1)
BRIDGE REPLACEMENT
ON SR282 AT ROCK CREEK

SR282

SR282

M.P. 0.48

FILE NAME:

Project Concept Report page 3
Project Number: BRST-2860(1)
P. I. Number: 642410
County: Murray

Need and Purpose: See attachment "A"

Description of the proposed project: This project is a bridge replacement on SR282 at Rock Creek, 5.3 miles South of Chatsworth. The length of project is 0.22 miles. The bridge is not on a local or state bike route. The new bridge will be approximately 44 Feet Wide by 120 Feet long. A detour will be provided at this location. Starting at M.P. 0.48 on SR282 and travel cross country Westerly approximately 570 Linear Feet to the North Bound Lanes of US411/SR61 at M.P. 6.68. See Attachment "B".

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

PDP Classification: Major _____ Minor
Federal Oversight: Full Oversight (), Exempt(X), State Funded(), or Other ()

Functional Classification: Major Collector

U. S. Route Number(s): none **State Route Number(s):** SR282

Traffic (AADT):
Current Year: (2007) 5700 Design Year: (2027) 8600

Existing design features:

- Typical Section: two 12 foot lanes with 3 foot shoulders.
- Posted speed 55 mph Maximum degree of curvature: 3
- Maximum grade: 3%
- Width of right of way: 80 ft.
- Major structures: 99 x 27.6 ft bridge w/ sufficient rating of 15.0 ^{54.33} - 1000
- Major interchanges or intersections along the project: none
- Existing length of roadway segment is 0.22 miles

Project Concept Report page 4
 Project Number: BSTR-2860(1)
 P. I. Number: 642410
 County: Murray

Proposed Design Features:

- Proposed typical section(s): 2 – 12 ft lanes with 10 ft shoulders.
- Proposed Design Speed Mainline 55 mph
- Proposed Maximum grade Mainline 3 % Maximum grade allowable 7 %.
- Proposed Maximum degree of curve 3. Maximum degree allowable 6.
- Right of way
 - Width 120.
 - Easements: Temporary (X), Permanent (), Utility (), other ().
 - Type of access control: Full (), Partial (), By Permit (X), other ().
 - Number of parcels: 5 Number of displacements:
 - Business: None
 - Residences: None
 - Mobile homes: None
 - Other: None
- Structures:
 - Bridges 120 ft X 44 ft bridge,
- Major intersections and interchanges. None
- Traffic control during construction: On site detour
- 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: Section 404, Water Quality, possible Endangered Species, & Historical involvement. (The bridge is considered historic by SHPO.)

Project Concept Report page 5
Project Number: BRST-2860(1)
P. I. Number: 642410
County: Murray

- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion (X),
- Utility involvements: City of Chatsworth water
Alltel Communications
Georgia Power Co.
Charter Communications

Project responsibilities:

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

Coordination

- Concept meeting date: 11-15-04
- P. A. R. meetings, dates and results: N/A
- FEMA, USCG, and/or TVA:
- Public involvement: Locals invited to Concept Tem Meeting
- Local government comments:
- Other projects in the area: See Attachment "A" under "Other Projects"

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 18 Months.
- Time to complete preliminary construction plans: 9 Months.
- Time to complete right of way plans: 6 Months.
- Time to complete the Section 404 Permit: 6 Months.
- Time to complete final construction plans: 6 Months.
- Time to complete to purchase right of way: 6 Months.
- Bridge plans: 6 Months.

Project Concept Report page 6
Project Number: BRST-2860(1)
P. I. Number: 642410
County: Murray

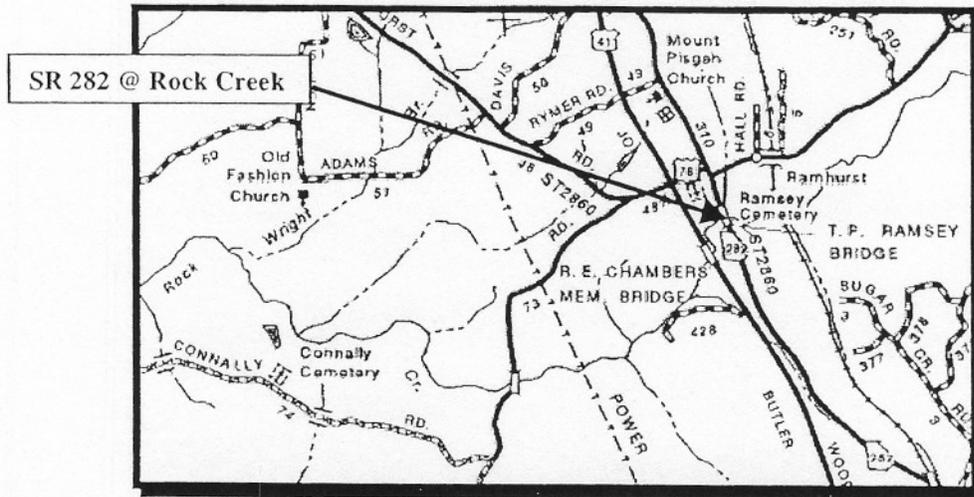
Other alternates considered: No Build

Comments: None

Attachments:

1. Cost Estimates: **A.** Construction including E&C; **B.** Right of Way; **C.** Utilities.
2. Cost Estimate Construction including E&C, Bridge Widening
3. Sketch location map,
4. Sketch location of detour, Attachment "B"
5. Typical section(s),
6. Bridge inventory,
7. Location and Design Notice
7. "A" (Need and Purpose)
8. Attachment "C" Cost Comparison for detour at different locations (two sheets)
9. Traffic Assignments
10. Minutes of Initial Concept and Concept meeting
11. Traffic movements to determine if a temp. traffic light would be required at the detour.

(Attachment "A")
Need and Purpose
Project BR-2860-00(001), Murray County
PI No. 642410
Bridge Replacement



Bridge Information

This project will replace the bridge on SR 282 over Rock Creek. The location is approximately 5.3 miles south of Chatsworth (Murray County) in a manufacturing area. The bridge is not located on a local or state bike route, but it is on a school bus route. This bridge was constructed in 1910 with a design live load of H-15. Because of the construction date the bridge may be eligible for the National Register of Historic Places.

Traffic Data

The section of SR 282 in the area of the bridge had an Average Annual Daily Traffic (AADT) volume of 4,650 in 2000, and in the design year 2027, it is expected to be 8,600. The Level of Service was C in 2000 and is estimated to be a D in 2027.

Other Projects

Currently, there is one programmed project in the area. The project (PI# 621260) will be on new alignment from CR 309 west to SR 61/US 411. This project will allow SR 282 to be relocated common with SR 61/US 411. The project is located approximately two miles south of the SR 282/Rock Creek Bridge. While the relocation project should reduce traffic on the SR282/Rock Creek Bridge once construction and the State Route revisions are completed, it will not interfere with the SR 282/RockCreek bridge replacement. The bridge replacement project has independent utility and does not impact the constructability of programmed projects or future improvements in the area.

Demographics

The project area is part of Census Tract 106, and has a total population between 1588 and 1899. African Americans make up 0.1% of the population in this census tract and Hispanics or Latinos make up 1.5%. About 7.1% in this census tract live below poverty level.

Project Justification

The Departments current policy (TOPPS 2405-1) requires that bridges with H-15 design live loads be replaced. This bridge qualifies for replacement under the current policy.

1076

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: SR 61/US 411 @ SR 282
BR-2860-00(001)
PI 642410

OFFICE: Traffic Operations
Cartersville, Ga.

DATE: December 1, 2004

HAM
FROM: Harry A. Maddox, District Traffic Engineer

TO: David Moore, Design Engineer
Attn: Steve Malinak, District Design Squad Leader

SUBJECT: SR 61/US 411 @ SR 282

Based on the traffic counts that were obtained on November 30, 2004 at the intersection of SR 61/US 411, we do not recommend that a temporary signal be installed for the bridge replacement over Rock Creek.

Should you have any questions pertaining to this matter, or we can be of further assistance, please contact Michael Long @ 770-387-3633.

HAM/MWL/ml

Attachments: traffic count sheets
Signal warrants summary

GEORGIA DEPARTMENT OF TRANSPORTATION
TRAFFIC OPERATIONS
 DISTRICT 6

2 of 6

Study Name : US 411 @ SR 282
 Study Date : 12/01/04
 Page No. : 1

Signal Warrants - Summary

Major Street Approaches

Northbound: SR 61/US 411
 Number of Lanes: 2
 Approach Speed: 55
 Total Approach Volume: 384

Southbound: SR 61/US 411
 Number of Lanes: 2
 Approach Speed: 55
 Total Approach Volume: 464

Minor Street Approaches

Eastbound: Smyrna Rd
 Number of Lanes: 1
 Total Approach Volume: 212

Westbound: SR 282
 Number of Lanes: 1
 Total Approach Volume: 510

Warrant Summary (Rural values apply.)

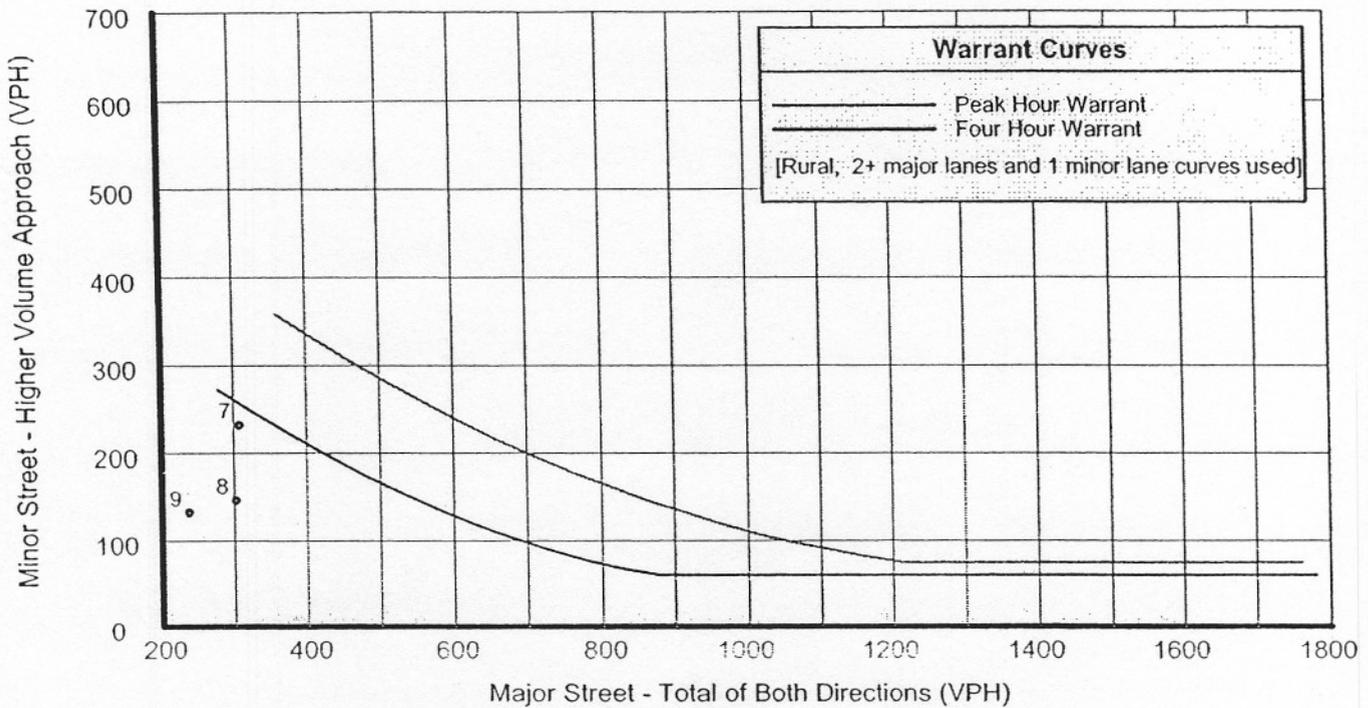
- Warrant 1 - Eight Hour Vehicular Volumes** Not Satisfied
 Warrant 1A - Minimum Vehicular Volume Not Satisfied
 Required volumes reached for 0 hours, 8 are needed
- Warrant 1B - Interruption of Continuous Traffic** Not Satisfied
 Required volumes reached for 0 hours, 8 are needed
- Warrant 1 A&B - Combination of Warrants** Not Satisfied
 Required volumes reached for 0 hours, 8 are needed
- Warrant 2 - Four Hour Volumes** Not Satisfied
 Number of hours (0) volumes exceed minimum < minimum required (4).
- Warrant 3 - Peak Hour** Not Satisfied
 Warrant 3A - Peak Hour Volumes Not Satisfied
 Volumes do not exceed minimums for any hour.
- Warrant 3B - Peak Hour Delay** Not Satisfied
 Total approach volumes and delays on minor street do not exceed minimums for any hour.
- Warrant 4 - Pedestrian Volumes** Not Satisfied
 Required 4 Hr pedestrian volume reached for 0 hour(s) and the single hour volume for 0 hour(s)
- Warrant 5 - School Crossing** Not Satisfied
 Number of gaps > .0 seconds (0) exceeds the number of minutes in the crossing period (0).
- Warrant 6 - Coordinated Signal System** Not Satisfied
 No adjacent coordinated signals are present
- Warrant 7 - Crash Experience** Not Satisfied
 Number of accidents (-1) is less than minimum (5). Volume minimums are not met.
- Warrant 8 - Roadway Network** Not Satisfied
 Major Route conditions not met. No volume requirement met.

GEORGIA DEPARTMENT OF TRANSPORTATION
TRAFFIC OPERATIONS
DISTRICT 6

3 of 6

Study Name : US 411 @ SR 282
 Study Date : 12/01/04
 Page No. : 2

Signal Warrants - Summary



Analysis of 8-Hour Volume Warrants:

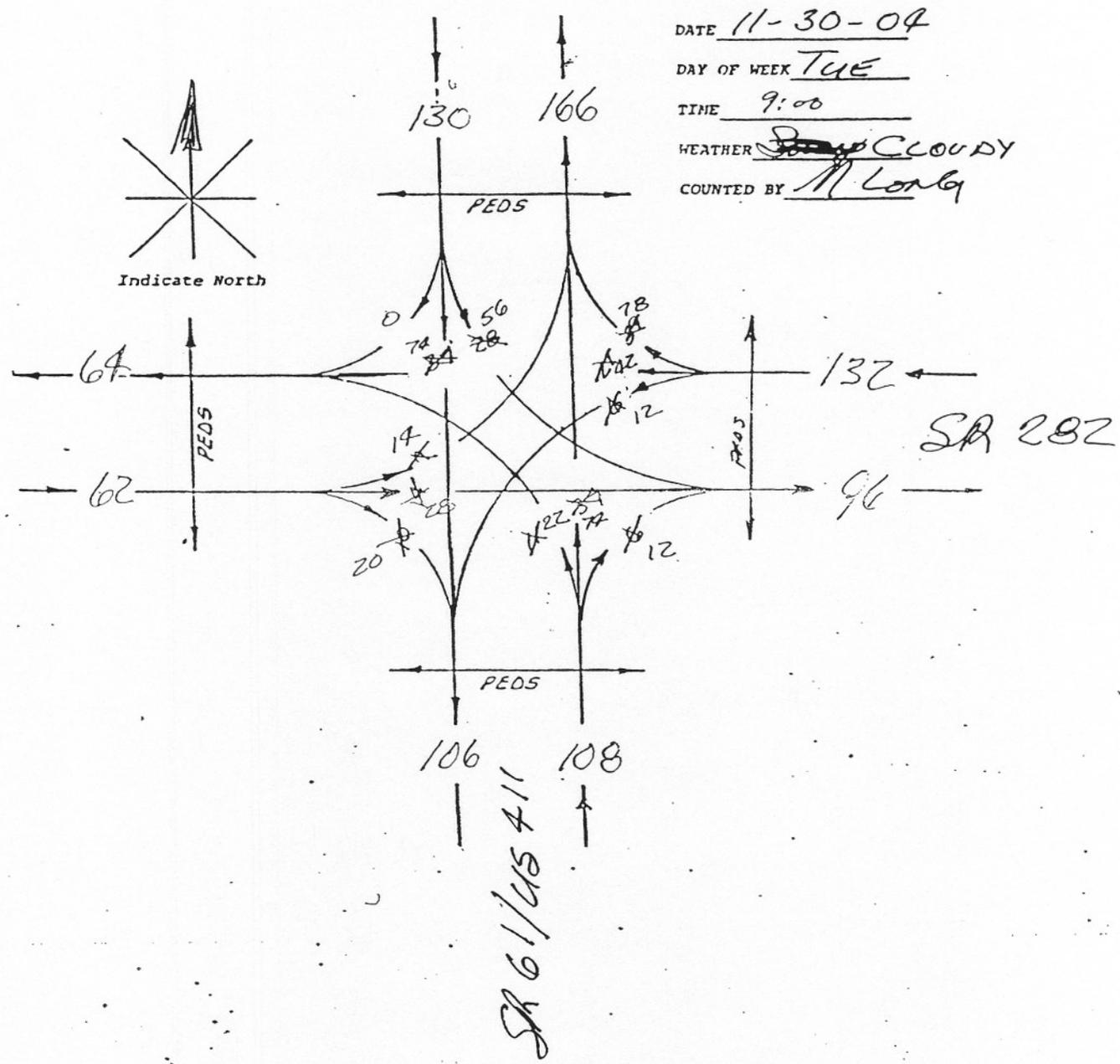
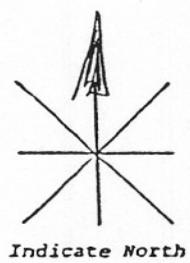
Hour Begin	Major Total	Higher Minor Vol	Dir	War-1A			War-1B			War-1A&B		
				Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
01:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
02:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
03:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
04:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
05:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
06:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
07:00	308	232	WB	420-No	105-Yes	Minor	630-No	52-Yes	Minor	504-No	84-Yes	Minor
08:00	302	146	WB	420-No	105-Yes	Minor	630-No	52-Yes	Minor	504-No	84-Yes	Minor
09:00	238	132	WB	420-No	105-Yes	Minor	630-No	52-Yes	Minor	504-No	84-Yes	Minor
10:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
11:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
12:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
13:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
14:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
15:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
16:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
17:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
18:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
19:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
20:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
21:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
22:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---
23:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	---

DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING AND SAFETY

MANUAL TRAFFIC COUNT

COUNTY MURRAY CITY N/A
LOCATION SR 61/45411 @ SR 282

DATE 11-30-04
DAY OF WEEK TUE
TIME 9:00
WEATHER ~~Sunny~~ CLOUDY
COUNTED BY M. Long



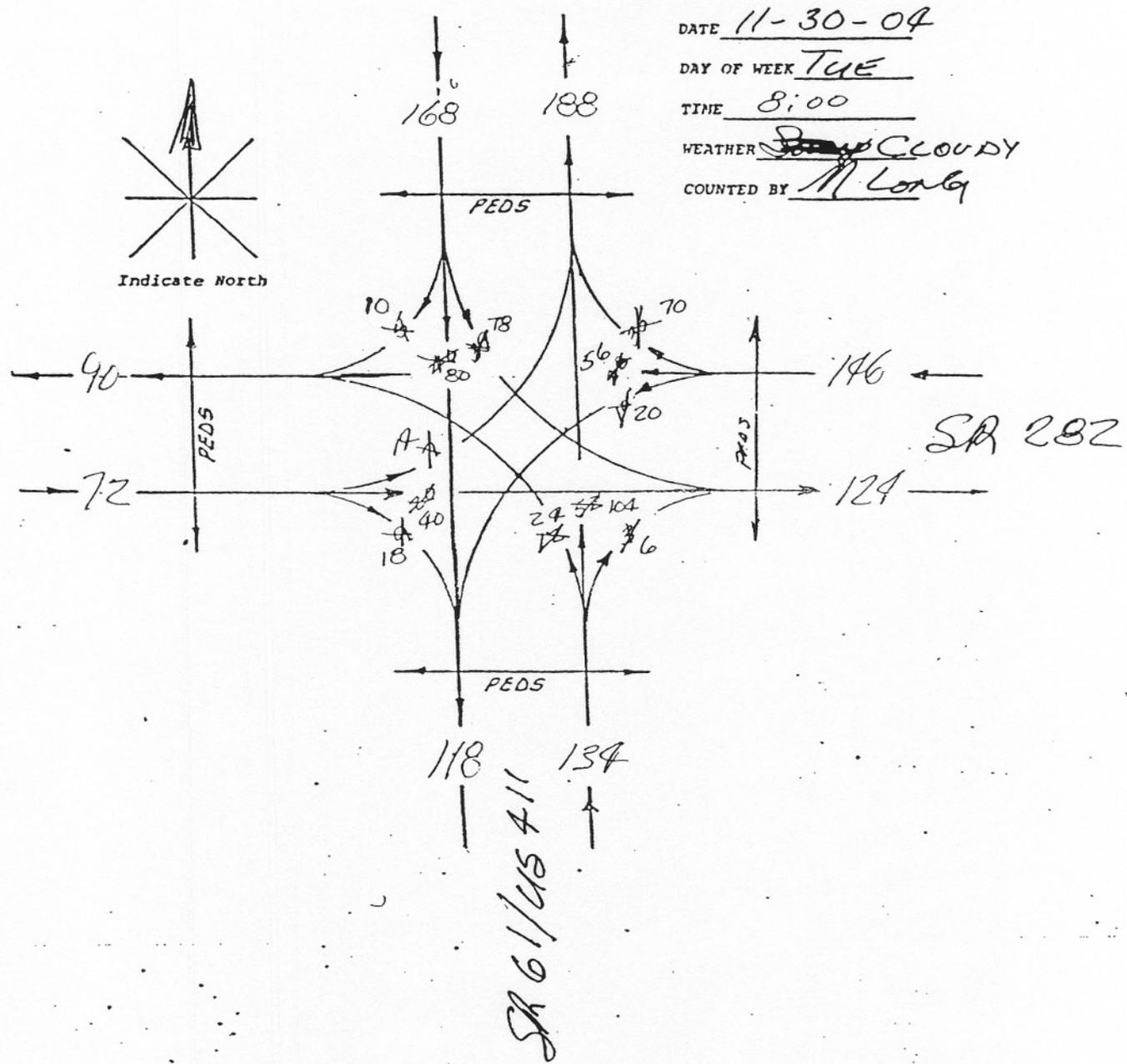
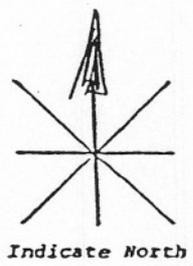
Vehicles per hour on major street (total of both approaches) _____
Vehicles per hour on higher-volume, minor street approach (one direction only) _____

DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING AND SAFETY

MANUAL TRAFFIC COUNT

COUNTY MURRAY CITY N/A
LOCATION SR 61/45411 @ SR 282

DATE 11-30-04
DAY OF WEEK TUE
TIME 8:00
WEATHER Partly Cloudy
COUNTED BY M. Long



Vehicles per hour on major street (total of both approaches)

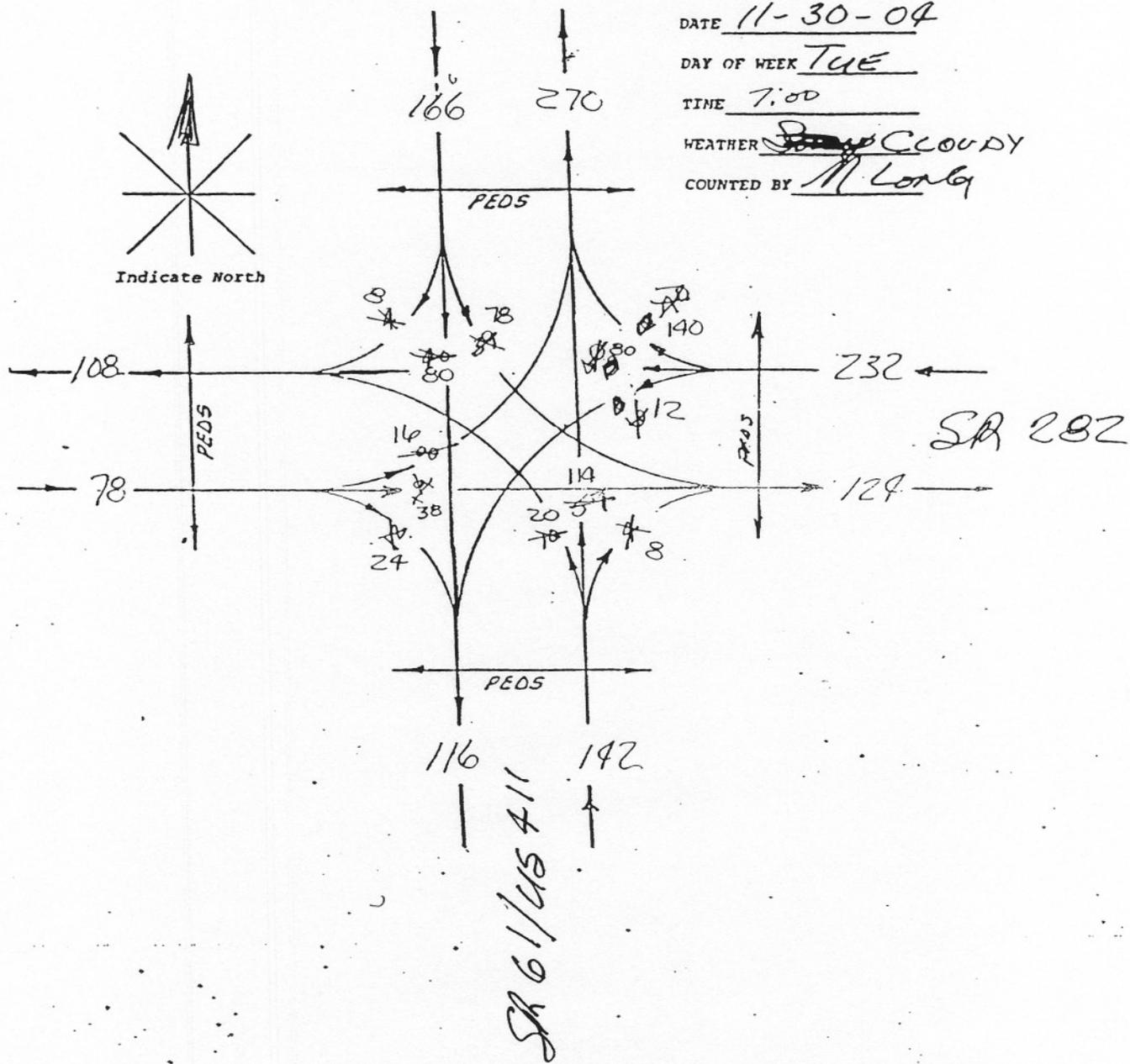
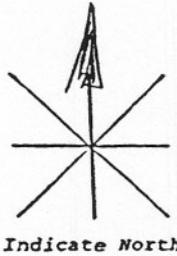
Vehicles per hour on higher-volume, minor street approach (one direction only)

DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING AND SAFETY

ANNUAL TRAFFIC COUNT

COUNTY MURRAY CITY N/A
LOCATION SR 61/45411 @ SR 282

DATE 11-30-04
DAY OF WEEK TUE
TIME 7:00
WEATHER Partly Cloudy
COUNTED BY M. Long



Vehicles per hour on major street (total of both approaches)	Vehicles per hour on higher-volume, minor street approach (one direction only)
_____	_____

RIGHT OF WAY COST BREAKDOWN SHEET

Date: 6/9/04
 Project: BRST-2860(1) Murray
 P.I. No. : 642410
 No. of Parcels: 4
 Project Description: Bridge Replacement on SR 282 at Rock Creek

Land:	(Includes Fee Simple and Easements)		
	Residential:	\$ 137,214	
	Commercial:	\$ 0	\$ 137,214
	Agricultural	\$ 0	
Improvements:	(Includes related site improvements)		
	Single Family Residences	\$ 0	
	Commercial Buildings	\$ 0	\$ 0
Relocation:	Residential	\$ 0	
	Commercial	\$ 0	\$ 0
Damages:	(Includes cost to cure and signs)		\$ 0
	Estimated cost of Right of Way		\$ 137,214
	C/O, Condemnation Increase & Legal Cost (50% of R/W)	\$ 68,607	
	Fee Acquisition Cost	\$ 0	
	Fee Appraisal Cost (4 x \$1,000)	\$ 4,000	
	Condemnation Cost (4 parcels x 10% x \$5,500)	\$ 2,200	
	Incidentals (4 parcels x \$1,500)	\$ 6,000	
	Estimated Cost of Fees		\$ 80,807
	Net Cost		\$ 218,021
	Inflation (10% rural; 25% urban)		
	\$ 10% x \$218,021		\$ 21,802
Total Cost			\$ 240,000 ®

Prepared by: Joan Upton (2 hours)

Reviewed by: Ram D...
 District R/W Team Manager

D	GRADING AND DRAINAGE	
	1 EARTHWORK	\$ 300,000
	2 DRAINAGE	
	a. Cross drain pipes (exc. Box Culverts)	\$ 20,000
	b. Curb and Gutter	
	c. Longitudinal System (incl. Catch Basins)	
	SUBTOTAL	\$ 320,000
E	BASE AND PAVING	
	1 AGGREGATE BASE	\$ 73,000
	2 ASPHALT PAVING	\$ 128,000
	3 CONCRETE PAVING	\$ 25,500
	4 OTHER	
	SUBTOTAL	\$ 226,500
F	LUMP ITEMS	
	1 TRAFFIC CONTROL	\$ 15,000
	2 CLEARING AND GRUBBING	\$ 6,000
	3 LANDSCAPING	
	4 EROSION CONTROL	\$ 81,000
	5 DETOURS (Incl. Temp. Bridges)	\$ 85,300
	SUBTOTAL	\$ 187,300
G	MISCELLANEOUS	
	1 LIGHTING	
	2 SIGNING & STRIPING	\$ 12,000
	3 GUARDRAIL	\$ 29,000
	4 OTHER (ROW Markers)	\$ 2,000
	SUBTOTAL	\$ 43,000
H	SPECIAL FEATURES	SUBTOTAL

ESTIMATE SUMMARY

CONSTRUCTION COST SUMMARY

A	MAJOR STRUCTURES	\$	285,000
B	GRADING AND DRAINAGE	\$	320,000
C	BASE AND PAVING	\$	226,500
D	LUMP ITEMS	\$	187,300
E	MISCELLANEOUS	\$	43,000
F	SPECIAL FEATURES	\$	-
	SUBTOTAL	\$	<u>1,061,800</u>
	E & C (10%)	\$	106,180
	INFLATION (5% PER YEAR)	\$	58,399
	TOTAL CONSTRUCTION COST	\$	<u>1,226,379</u>

ROW & UTILITIES COST SUMMARY

G	RIGHT OF WAY	\$	240,000
H	REIMBURSABLE UTILITIES	\$	63,000
	SUBTOTAL	\$	<u>303,000</u>
	GRAND TOTAL COST	\$	<u>1,529,379</u>

**PRELIMINARY COST ESTIMATE
BRIDGE WIDENING**

DATE: _____
 PROJECT: BRST-2860(1)
 P.I. NO: 642410

PROJECT DESCRIPTION: BRIDGE WIDENING ON SR282 AT ROCK CREEK IN MURRAY COUNTY. 5.3 MILES SOUTH OF CHATSWORTH. THE LENGTH OF PROJECT IS 0.22 MILES

TRAFFIC:	Existing:	<u>5700</u>	Design:	<u>8600</u>
		YR 2007		YR 2027
()	PROGRAMMING PROCESS	X	CONCEPT DEVELOPMENT	() DURING PROJECT DEVELOPMENT
A	RIGHT OF WAY			
	1 PROPERTY (Land and Easements)			\$ 240,000
	2 DISPLACEMENTS			
	3 OTHER COSTS			
			SUBTOTAL	\$ 240,000
B	REIMBURSABLE UTILITIES			
	1 RAILROAD			
	2 TRANSMISSION LINES			\$ 63,000
	3 SERVICES			
			SUBTOTAL	\$ 63,000
C	MAJOR STRUCTURES			
	1 WALLS			
	2 BRIDGE STREAM CROSSINGS (BRIDGE WIDENING)			\$ 180,000
	3 BRIDGE OVER/UNDERPASS			
	4 BOX CULVERTS			
			SUBTOTAL	\$ 180,000

D	GRADING AND DRAINAGE	
	1 EARTHWORK	\$ 300,000
	2 DRAINAGE	
	a. Cross drain pipes (exc. Box Culverts)	\$ 20,000
	b. Curb and Gutter	
	c. Longitudinal System (incl. Catch Basins)	
	SUBTOTAL	\$ 320,000
E	BASE AND PAVING	
	1 AGGREGATE BASE	\$ 73,000
	2 ASPHALT PAVING	\$ 128,000
	3 CONCRETE PAVING	\$ 25,500
	4 OTHER	
	SUBTOTAL	\$ 226,500
F	LUMP ITEMS	
	1 TRAFFIC CONTROL	\$ 15,000
	2 CLEARING AND GRUBBING	\$ 6,000
	3 LANDSCAPING	
	4 EROSION CONTROL	\$ 81,000
	5 DETOURS (Incl. Temp. Bridges)	\$ 85,300
	SUBTOTAL	\$ 187,300
G	MISCELLANEOUS	
	1 LIGHTING	
	2 SIGNING & STRIPING	\$ 12,000
	3 GUARDRAIL	\$ 29,000
	4 OTHER (ROW Markers)	\$ 2,000
	SUBTOTAL	\$ 43,000
H	SPECIAL FEATURES	SUBTOTAL

ESTIMATE SUMMARY

CONSTRUCTION COST SUMMARY

A	MAJOR STRUCTURES	\$	180,000
B	GRADING AND DRAINAGE	\$	320,000
C	BASE AND PAVING	\$	226,500
D	LUMP ITEMS	\$	187,300
E	MISCELLANEOUS	\$	43,000
F	SPECIAL FEATURES	\$	-
	SUBTOTAL	\$	956,800
	E & C (10%)	\$	95,680
	INFLATION (5% PER YEAR)	\$	52,624
	TOTAL CONSTRUCTION COST	\$	1,105,104

ROW & UTILITIES COST SUMMARY

G	RIGHT OF WAY	\$	240,000
H	REIMBURSABLE UTILITIES	\$	63,000
	SUBTOTAL	\$	303,000
	GRAND TOTAL COST	\$	1,408,104

"C"

DETOUR BRIDGE PLACED JUST DOWN STREAM OF EXISTING
Estimate Report for file "642410@ROCK CREEK"

Section DETOUR BRIDGE					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
000-0000	3360.00	SF	30.00	DETOUR BRIDGE, 24 FT X 140 FT	100800.0
000-0000	12859.00	CY	3.00	EARTHWORK	38577.0
171-0030	1600.00	LF	3.11	TEMPORARY SILT FENCE, TYPE C	4976.0
310-1101	1150.00	TN	13.36	GR AGGR BASE CRS, INCL MATL	15364.0
402-3112	345.00	TN	45.62	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	15738.9
402-3121	690.00	TN	35.77	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	24681.30
402-3140	144.00	TN	37.43	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 1 OR 2, INCL	5389.92
550-1361	30.00	LF	54.61	STORM DRAIN PIPE, 36 IN, H 10-15	1638.3
Section Sub Total:					\$207,165.42

Total Estimated Cost: \$207,165.42

CROSS COUNTRY DETOUR BETWEEN SR282 + US411/SR61
Estimate Report for file "642410 Rock Creek"

Section Detour Road					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
000-0000	8037.00	CY	3.00	EARTHWORK	24111.0
171-0030	1000.00	LF	3.11	TEMPORARY SILT FENCE, TYPE C	3110.0
310-1101	1038.40	TN	13.36	GR AGGR BASE CRS, INCL MATL	13873.02
402-3112	311.52	TN	45.62	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	14211.54
402-3121	623.04	TN	35.77	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	22286.14
402-3140	129.80	TN	37.43	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 1 OR 2, INCL	4858.41
550-1301	60.00	LF	45.96	STORM DRAIN PIPE, 30 IN, H 10-15	2757.6
Section Sub Total:					\$85,207.72

Total Estimated Cost: \$85,207.72

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-2860(1), Murray County
P.I. # 642410

OFFICE Environment/Location

DATE April 19, 2002

FROM Harvey D. Keeper., State Environment/Location Engineer

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

SUBJECT Traffic Assignments for S.R. 282 at Rock Creek 5.3 Mi S of Chatsworth in Murray County.

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

2000 AADT = 4650
2007 AADT = 5700
2027 AADT = 8600
K = 7%
D = 60%
T = 8%
24 HR. T = 10%
S.U. = 5%
COMB. = 5%

If you have any questions concerning this information please contact Abby Ebodaghe at (404) 699-4460.

HDK/AFE

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 213-0033-0

Murray

SUFF. RATING

54.33

Location & Geography

Structure I.D.No: 213-0033-0
 00 Bridge Information 07
 5A Feature Int: ROCK CREEK
 5B Critical Bridge: 0
 7A Route Number Carried: SR00282
 7B Facility Carried: US 76
 9 Location: 5.3 MI S OF CHATSWORTH
 2 DOT District: 6
 07 Year Photo: 2004
 91 Inspection Frequency: 24 Date: 02/09/2004
 2A Fract Crit Insp Freq: 00 Date: 02/01/1901
 2B Underwater Insp Freq: 00 Date: 02/01/1901
 2C Other Spc. Insp Freq: 00 Date: 02/01/1901
 4 Place Code: 00000
 5 Inventory Route (O/U): 1
 Type: 2
 Designation: 1
 Number: 00076
 Direction: 0
 16 Latitude: 34-41.7 MMS Prefix: SR
 17 Longitude: 84-44.1 MMS Suffix: 00 MP: 0.35
 98 Border Bridge: 000 %Shared: 00
 99 ID Number: 0000000000000000
 00 STRAHNET: 0
 12 Base Highway Network: 1
 3A LRS Inventory Route: 2131028200
 3B Sub Inventory Route: 0
 01 Parallel Structure: N
 02 Direction of Traffic: 2
 64 Road Inventory Mile Post: 000.35
 08 Inspection Area: 06 Initials: DEM
 Engineer's Initial: SGM

* 104 Highway System: 1
 * 26 Functional Classification: 07
 * 204 Federal Route Type: S No.: 02860
 105 Federal Lands Highway: 0
 * 110 Truck Route: 0
 206 School Bus Route: 1
 217 Benchmark Elevation: 0000.00
 218 Datum: 0
 * 19 Bypass Length: 01
 * 20 Toll: 3
 * 21 Maintenance: 01
 * 22 Owner: 01
 * 31 Design Load: 2
 37 Historical Significance: 3
 205 Congressional District: 10
 27 Year Constructed: 1910
 106 Year Reconstructed: 1935
 33 Bridge Median: 0
 34 Skew: 00
 35 Structure Flared: 0
 38 Navigation Control: 0
 213 Special Steel Design: 0
 267 Type of Paint: 0
 * 42 Type of Service on: 1
 5
 214 Movable Bridge: 0
 203 Type Bridge: A-O-O-O
 259 Pile Encasement: 3
 * 43 Structure Type Main: 1 11
 45 No. Spans Main: 003
 44 Structure Type Appr: 0 00
 46 No. Spans Appr: 0000
 226 Bridge Curve Horz: 0 Vert: 0
 111 Pier Protection: 0
 107 Deck Structure Type: N
 108 Wearing Surface Type: 6
 M N
 F N

Signs & Attachments

225 Expansion Joint Type: 00
 242 Deck Drains: 1
 243 Parapet Location: 0
 Height: 0.00
 Width: 0.00
 238 Curb: 0.50 1
 239 Handrail: 1 1
 * 240 Median Barrier Rail: 0
 241 Bridge Median Height: 0.00
 Width: 0.00
 * 230 Guardrail Loc Dir Rear: 3
 Fwd: 3
 Oppo Dir Rear: 0
 Fwd: 0
 244 Approach Slab: 0
 224 Retaining Wall: 0
 233 Posted Speed Limit: 55
 236 Warning Sign: 0
 234 Delineator: 1
 235 Hazard Boards: 1
 237 Utilities Gas: 00
 W 00
 Ele 00
 Telephone: 00
 Se 00
 247 Lighting Street: 0
 Navigtion: 0
 Aerial: 0
 * 248 County Continuity No.: 00

Location I.D. No.: 213-00282D-000.35E

Structure ID: 213-0033-0

Murray

SUFF. RATING

54.33

Programming Data

201 Project No.: SAP 997-ABDE
 202 Plans Available: 4
 249 Prop. Proj. No. 0000000000000000
 250 Approval Status: 0000
 251 P.I. No.: 00000000
 252 Contract Date: 02/01/1901
 260 Seismic No.: 00007
 75 Type Work: 34 1
 94 Bridge Imp. Cost: \$ 119
 95 Roadway Imp. Cost: \$ 43
 96 Total Imp Cost: \$ 211
 76 Imp. Length: 000310
 97 Imp. Year: 1990
 114 Future ADT: 006300 Year: 2022

Measurements

* 29 ADT: 004200 Year: 2002
 109 % Trucks: 10
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0033
 * 49 Structure Length: 99
 51 Br. Rwdy. Width: 24.00
 52 Deck Width: 27.60
 * 47 Tot. Horz. Cl: 24.00
 50 Curb/Sdewlk Width 0.70/0.70
 32 Approach Rdwy Width: 024
 * 229 Shoulder Width:
 Rear Lt: 3.00 Type: 8 Rt: 3.00
 Fwd Lt: 3.00 Type: 8 Rt: 3.00
 Pavement Width:
 Rear: 24.00 Type: 2
 Fwd: 24.00 Type: 2
 Intersection Rear: 1 Fwd: 0
 36 Safety Features Br. Rail:
 Transition: 2
 App. G. Rail: 1
 App. Rail End: 1
 53 Minimum Cl. Over: 99 ' 99 "
 Under: N 00 ' 00 "
 * 228 Min. Vertical Cl
 Act. Odm Dir: 99 ' 99 "
 Oppo. Dir: 99 ' 99 "
 Posted Odm. Dir: 00 ' 00 "
 Oppo. Dir: 00 ' 00 "
 55 Lateral Undercl. Rt: N 99.90
 56 Lateral Undercl. Lt: 0.00
 * 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: 0.00
 Deck Thick Approach: 0.00
 246 Overlay Thickness: 4.50
 212 Year Last Painted: Sup: 0000 Sub: 0000

Ratings

65 Inventory Rating Method: 2
 63 Inventory Rating Method: 2
 66 Inventory Type: 2 Rating: 23
 64 Operating Type: 2 Rating: 43
 231 Calculated Loads
 H-Modified: 20 0
 HS-Modified: 25 0
 Type 3: 28 0
 Type 3s2: 40 0
 Timber: 36 0
 Piggyback: 40 0
 261 H Inventory Rating: 15
 262 H Operating Rating: 28
 67 Structural Evaluation: 5
 58 Deck Condition: 5
 59 Superstructure Condition: 5
 * 227 Collision Damage: 0
 60A Substructure Condition: 5
 60B Scour Condition: 5
 60C Underwater Condition: N
 71 Waterway Adequacy: 9
 61 Channel Protection Cond: 5
 68 Deck Geometry: 2
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 8
 62 Culvert: N
 Posting Data
 70 Bridge Posting Required: 5
 41 Struct Open, Posted, Cl: A
 * 103 Temporary Structure: 0
 232 Posted Load -Modified: 00
 HS-Modified: 00
 Type 3: 00
 Type3s2: 00
 Timber: 00
 Piggyback: 00
 253 Notification Date 02/01/1901
 253 Fed Notify Date: 02/01/1901 0

Hydraulic Data

215 Waterway Data
 Highwater Elev.: 0000.0 Year: 1900
 Avg. Streambed Elev.: 0000.0 Freq.: 00
 Drainage Area: 630
 Area Of Opening: 000000
 113 Scour Critical: U
 216 Water Depth: 03.6 Br. Height: 12.9
 222 Slope Protection: 0
 221 Spur Dikes Rear: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No. Barrels: 0
 Width: 0.00 Height: 0.00
 Length: 0 Apron: 0
 265 U/W Insp. Area: 0 Diver: ZZZ

Location I.D. No.: 213-00282D-000.35E

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: BRST-2860(1)

County: Murray

P. I. Number: 642410

Federal Route Number: none

State Route Number: SR282

Recommendation for approval:

DATE _____

Project Manager

DATE _____

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 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 & Design Engineer

DATE 5/5/05

David J. Mulligan, P.E.
Project Review Engineer

DATE _____

Bridge Design

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: BRST-2860(1)

County: Murray

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Recommendation for approval:

DATE _____

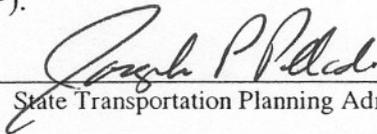
Project Manager

DATE _____

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 the State Transportation Improvement Program (STIP).

DATE 5/2/05



State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

DATE _____

Bridge Design

Page 1

1. Recommend detour have come @ intersection w/ SR 282 South and intersect US 411 @ 90°.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: BRST-2860(1)

County: Murray

P. I. Number: 642410

Federal Route Number: none

State Route Number: SR282

Recommendation for approval:

DATE 5-4-05

Curtis D. Comer
Project Manager

DATE 5/4/05

Keith J. ...
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 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 & Design Engineer

DATE _____

Project Review Engineer

DATE 5/14/05

Paul V. ...
Bridge Design

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: BRST-2860(1)

County: Murray

P. I. Number: 642410

Federal Route Number: none

State Route Number: SR282

Recommendation for approval:

DATE 5-4-05

Curtis D. Comer

Project Manager

DATE 5/4/05

Ken Lee

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 the State Transportation Improvement Program (STIP).

DATE 5/11/05

Joseph P. Allen

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

DATE _____

Bridge Design

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: BRST-2860(1)

County: Murray

P. I. Number: 642410

Federal Route Number: none

State Route Number: SR282

Recommendation for approval:

DATE 5-4-05

Curtis D. Comer

Project Manager

DATE 5/4/05

Mark J. ...

District Engineer

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DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE 5-12-05

Mark J. ...

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

DATE _____

Bridge Design

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: BRST-2860(1)

County: Murray

P. I. Number: 642410

Federal Route Number: none

State Route Number: SR282

Recommendation for approval:

DATE 5-4-05

Curtis D. Comer

Project Manager

DATE 5/4/05

Pat Lee

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 the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE 5.13.05

Alvin D. Taylor
State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

DATE _____

Bridge Design

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: BRST-2860(1)

County: Murray

P. I. Number: 642410

Federal Route Number: none

State Route Number: SR282

Recommendation for approval:

DATE _____
Project Manager

DATE _____
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 the State Transportation Improvement Program (STIP).

DATE _____
State Transportation Planning Administrator

DATE _____
State Transportation Programming Engineer

DATE _____
State Environmental Location Engineer

DATE 5-2-05
Thud Bell
State Traffic Safety & Design Engineer

DATE _____
Project Review Engineer

DATE _____
Bridge Design

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District 6

PROJECT CONCEPT REPORT

Project Number: BRST-2860(1)

County: Murray

P. I. Number: 642410

Federal Route Number: none

State Route Number: SR282

Recommendation for approval:

DATE 5-4-05

Curtis D. Comer

Project Manager

DATE 5/4/05

Keith Ferguson

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 the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE 5-9-05

Glenn Dungan
State Transportation Programming Engineer

Financial Management
Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

DATE _____

Bridge Design