

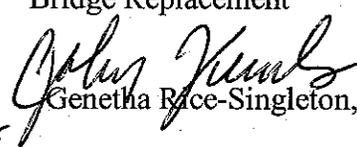
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 121385-, Union County
BRF00-0002-07(019)
SR 11/US 19 & 129/Murphy Highway over Ivy Log Creek-
Bridge Replacement

OFFICE: Program Control

DATE: September 11, 2009

FROM  Genetha Race-Singleton, Assistant Director of Preconstruction

TO  SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Ron Wishon
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Russell McMurry
Paul Liles
Robert Mahoney
Bobby Hilliard
Steve Adewale
BOARD MEMBER

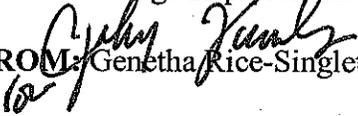
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 121385-, Union County
BRF00-0002-07(019)
SR 11/US 19 & 129/Murphy Highway over Ivy Log Creek-
Bridge Replacement

OFFICE: Program Control

DATE: August 27, 2009

FROM:  Genetha Rice-Singleton, Program Control Administrator

TO: Gerald M. Ross, P.E., Chief Engineer

SUBJECT: PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on SR 11/US 19 & 129/Murphy Highway over Ivy Log Creek, 6 miles north of Blairsville, Georgia. The existing bridge, constructed in 1940, is a 138' x 27.8' concrete structure with a sufficiency rating of 7. State Route 11 at this location is a rural two lane roadway with 12' lanes, variable width grass shoulders and a posted speed of 55 MPH. State Route 11 is classified as a rural principal arterial. The base year traffic (2012) along this section of SR 11 is 9,600 VPD. The design year (2032) volumes are projected to be 13,600 VPD. The proposed speed design is 55 MPH.

The project proposes to relocate SR 11/US 19 & 129/Murphy Highway west of its present location extending a total of 0.72 miles. In addition, the construction will replace the existing bridge over Ivy Log Creek with new 175' x 40' concrete bridge, located just west of the existing structure. The relocated SR 11/US 19 & 129 will consist of two, 12' lanes with 10' rural shoulders (6.5' paved) on a variable 84' to 110' of additional right-of-way. Traffic will be maintained along the existing roadway during construction.

Environmental concerns include requiring a COE 404 permit; a Categorical Exclusion will be prepared; a public hearing 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)	\$ 2,059,000	\$ 1,071,000	L1C0	LR
Right-of-way	\$800,000	-----	L1C0	LR
Utilities	\$195,000	-----	L1C0	LR

P.I. No. 121385-, Union County
Page 2
August 27, 2009

* Notification Letter sent to Union County 7-26-2006

I recommend this project concept be approved.

GRS: JDQ
Attachment

CONCUR

M. H. Rice - S. J. L. Smith
for Smith

Director of Preconstruction

APPROVED

Gerald M. Ross

Gerald M. Ross, P.E., Chief Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: BRF00-0002-07(019), Union County
P.I. No. 121385
Bridge Replacement of SR 11/US at
Ivy Log Creek

OFFICE: Program Delivery

DATE: July 14, 2009

FROM: Bobby Hilliard, P.E., State Program Delivery Engineer

Bobby Hilliard

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT: Project Concept Report

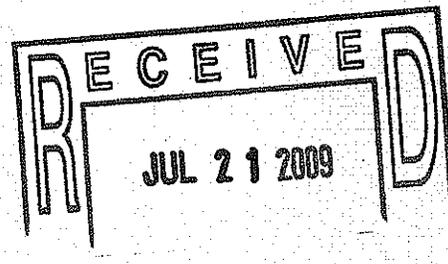
Attached is the original copy of the concept report for your further handling for approval in accordance with the Plan Development process (PDP).

If you any questions concerning this matter, please contact Steve Adewale at (404) 463-0291.

S.H.
BKH:SH:ASA

cc: Ron Wishon, Project Review Engineer
Glen Bowman, P.E., State Environmental/Location Engineer
Keith Golden, P.E., State Traffic Safety & Design Engineer
Angela Alexander, State Transportation Planning Administrator
Angela Whitworth, State Transportation Financial Management Administrator
Russell McMurry, P.E., District One Engineer
Paul Liles, P.E., State Bridge and Structural Engineer

PRIORITY
58 OF 207



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Program Delivery

PROJECT CONCEPT REPORT

Project Number: BRF00-0002-07(019)

County: Union

P. I. Number: 121385

Federal Route Number: 19 & 129

State Route Number: 11



Description: Bridge Replacement of SR 11/US 19 & 129/Murphy Highway at Ivy Log Creek.

Recommendation for approval:

DATE 7/14/2009

DATE 7/14/2009

Steve Orndorff

Project Manager

Bobby Hilliard

Office Head/District Engineer

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

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

DATE 8/6/09

State Transportation Planning Administrator

State Transportation Financial Management Administrator

State Environment/Location Engineer

State Traffic Safety and Design Engineer

District I Engineer

Project Review Engineer

Caul V. Hill Jr
State Bridge Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Program Delivery

PROJECT CONCEPT REPORT

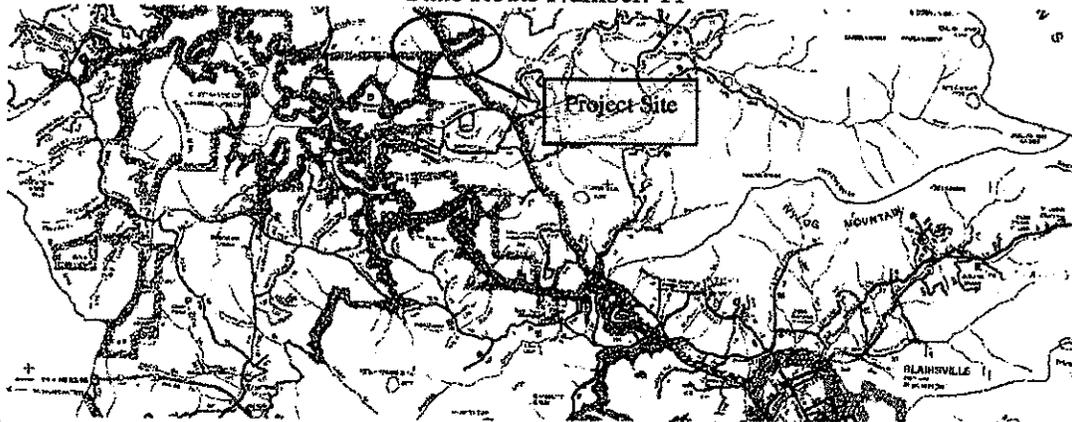
Project Number: BRF00-0002-07(019)

County: Union

P. I. Number: 121385

Federal Route Number: 19 & 129

State Route Number: 11



Description: Bridge Replacement of SR 11/US 19 & 129/Murphy Highway at Ivy Log Creek.

Recommendation for approval:

DATE 7/14/2009

DATE 7/14/2009

Steve Orlando

Project Manager

Bobby Hilliard

Office Head/District Engineer

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

DATE _____

DATE _____

DATE _____

DATE 7-20-09

DATE _____

DATE _____

DATE _____

State Transportation Planning Administrator

State Transportation Financial Management Administrator

State Environment/Location Engineer

State Traffic Safety and Design Engineer

District 1 Engineer

Project Review Engineer

State Bridge Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Program Delivery

PROJECT CONCEPT REPORT

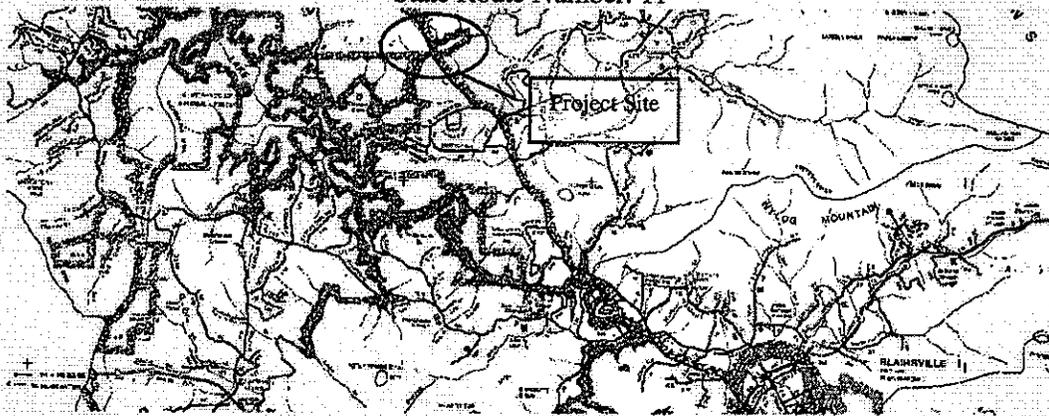
Project Number: BRF00-0002-07(019)

County: Union

P. I. Number: 121385

Federal Route Number: 19 & 129

State Route Number: 11



Description: Bridge Replacement of SR 11/US 19 & 129/Murphy Highway at Ivy Log Creek.

Recommendation for approval:

DATE 7/14/2009

DATE 7/14/2009

Steve Odom

Project Manager

Bobby Hilliard

Office Head/District Engineer

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

DATE 7/17/09

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

Angela S. Alexander

State Transportation Planning Administrator

State Transportation Financial Management Administrator

State Environment/Location Engineer

State Traffic Safety and Design Engineer

District 1 Engineer

Project Review Engineer

State Bridge Design Engineer

NOTICE OF LOCATION AND DESIGN APPROVAL

BRF00-0002-07(019), UNION COUNTY

Bridge Replacement of SR 11/US 19 & 129/Murphy Highway at Ivy Log Creek

P. I. NUMBER 121385

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 this project.

Date of Location and Design Approval: *September 11, 2009*

Project BRF00-0002-07(019) is the bridge replacement in Union County on SR 11/ US 19/ US 129 over the Ivy Log Creek. The purpose of this project is to replace a structurally deficient and functionally obsolete bridge on SR 11/ US 19/US 129 over the Ivy Log Creek. The bridge project is located at mile post 19.80 on SR 11. Proposed typical section consists of two twelve-foot wide travel lanes with ten-foot wide rural shoulders with six-foot paved.

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:

Charles C. Davis, Area Engineer
E-mail: cdavis@dot.ga.gov
Georgia Department Of Transportation
P.O. Box 489
Cleveland, Georgia 30528
(706) 384-4848

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:

Adesoji (Steve) Adewale, CPEng, P.E.
Office of Program Delivery
E-mail: sadewale@dot.ga.gov
Georgia Department of Transportation
One Georgia Center
630 West Peachtree Street, 25th Floor
Atlanta, Georgia 30334-1002
(404) 631-1578

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

Office of Program Delivery

PROJECT CONCEPT REPORT

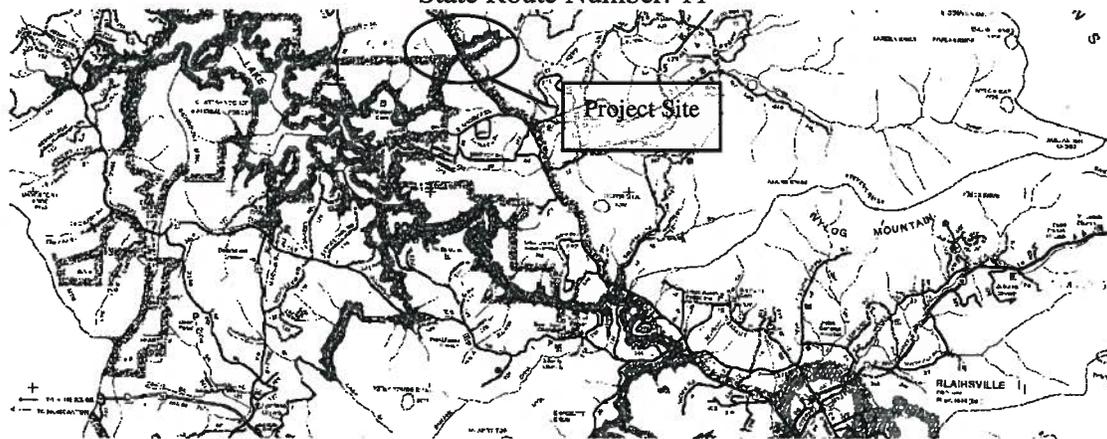
Project Number: BRF00-0002-07(019)

County: Union

P. I. Number: 121385

Federal Route Number: 19 & 129

State Route Number: 11



Description: Bridge Replacement of SR 11/US 19 & 129/Murphy Highway at Ivy Log Creek.

Recommendation for approval:

DATE 7/14/2009

DATE 7/14/2009

Steve Odomela

Project Manager

Bobby Hilliard

Office Head/District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Environment/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

District 1 Engineer

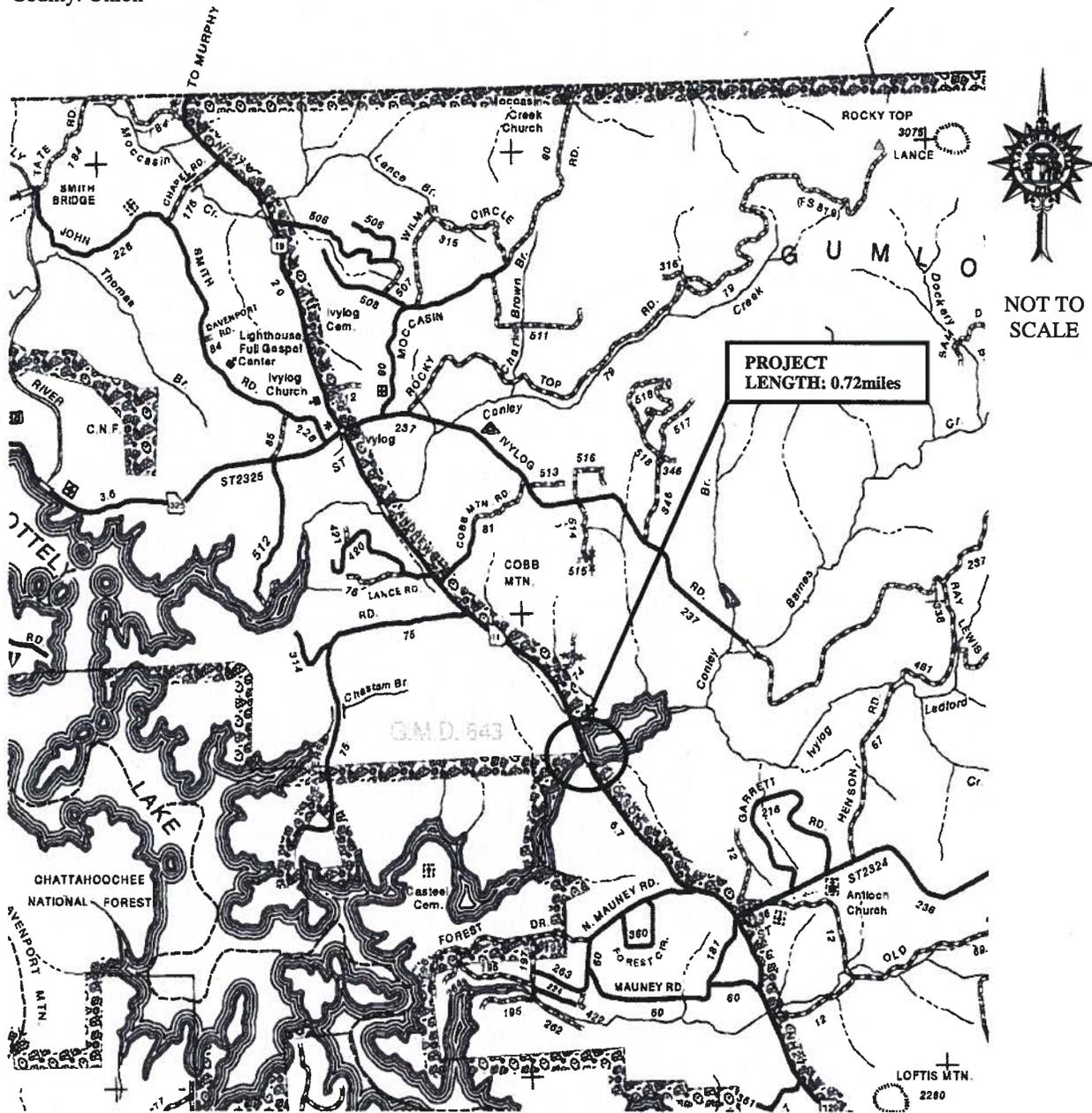
DATE _____

Project Review Engineer

DATE _____

State Bridge Design Engineer

Project Concept Report page 2
Project Number: BRF00-0002-07(019)
P. I. Number: 121385
County: Union



Location Map
Project: BRF00-0002-07(019)
PI No.: 121385

Description: Bridge Replacement of SR 11/US 19 & 129/Murphy Highway at Ivy Log Creek.

Project Concept Report page 3
Project Number: BRF00-0002-07(019)
P. I. Number: 121385
County: Union

Need and Purpose: The proposed bridge replacement project on State Route (SR) 11/US 19/US 129 over the Ivy Log Creek would replace a structurally deficient and functionally obsolete bridge. The bridge sufficiency rating on bridge structure identification number 291-0012-0 is 7.00. Bridges on the current Highway Bridge Replacement and Rehabilitation Program (HBRRP) selection list are allowed to be replaced if they have a Sufficiency Rating below 50. (See attached)

Description of the proposed project: Project BRF00-0002-07(019) is the bridge replacement in Union County on SR 11/ US 19/ US 129 over the Ivy Log Creek. The total project length is 3776-ft (0.72 miles). The proposed new bridge is to be built on new alignment to the left (west) side of the existing bridge. The bridge project is located at mile post 19.80 on SR 11. The project is located approximately 6 miles north of Blairsville. Replacement of the existing bridge is justified due to its current deficiency rating of 7.00. The need exists to replace this bridge and bring it up to current design standards to maintain the quality of operation and safety on this bridge.

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: Rural Principal Arterial

U. S. Route Number(s): 19 & 129 **State Route Number(s):** 11

Traffic (AADT):

Current Year: (2012) 9,600 Design Year: (2032) 13,600

Existing design features:

- Typical Section: Varies from two to three 12 ft wide travel lanes, variable width rural shoulders.
- Posted speed 55 mph Minimum radius for curve: 1060-ft.
- Maximum super-elevation rate for curve: 6 %
- Maximum grade: 6 %
- Width of right-of-way: 100-ft.
- Major structures: 138-ft long x 27.8-ft wide bridge over Ivy Log Creek, with a sufficiency rating of 7.00
- Major interchanges or intersections along the project: None

Project Concept Report page 4
 Project Number: BRF00-0002-07(019)
 P. I. Number: 121385
 County: Union

- The total project length is approximately 3776-ft (0.72 miles) and goes from mile post 19.7 to mile post 20.42 in Union County

Proposed Design Features:

- Proposed typical section(s):
 - Two twelve-foot wide travel lanes with ten-foot wide rural shoulders with six-foot paved. The beginning of the project tapers from two twelve-foot wide travel lanes and a two way left turn lane.
- Proposed Design Speed Mainline 55 mph
- Proposed Maximum grade Mainline 5 % Maximum grade allowable 5 %
- Proposed Maximum grade Side Street 6 % Maximum grade allowable 6 %
- Proposed Maximum grade driveway 12 %
- Proposed Maximum degree of curve 5.4 Maximum degree allowable 5.4
- Right-of-Way
 - Width 80 - 104-ft
 - Easements: Temporary (X), Permanent (X), Utility (), Other ()
 - Type of access control: Full (), Partial (), By Permit (X), Other ()
 - Number of parcels: 11+/- Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges: Bridge over Ivy Log Creek
 - One Box Culvert Extension
- Major intersections and interchanges: None
- Traffic control during construction: Stage construction, maintaining two twelve-foot wide travel lanes at all times.
- 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: BRF00-0002-07(019)
P. I. Number: 121385
County: Union

- Design Variances: None anticipated
- Environmental concerns: Based on field surveys, 9 streams, 2 wetlands, and 0 open waters are located on or adjacent to the proposed alignment. The proposed project is expected to impact no more than 86 linear feet of perennial, intermittent, and ephemeral stream channel, 0.059 acre of wetlands (temporary clearing impact), and 0.0 acre of open waters. Impacts to these waters of the United States would be authorized under a Section 404 Nationwide Permit, either Nationwide Permit 14 or 23. No mitigation is anticipated for unavoidable impacts to Waters of the U.S. State of Georgia Water Quality Certification will also be required for the proposed project. Trout streams are present along this proposed project. Trout streams have a protected 50-foot buffer that has to be coordinated with OEL and EPD for potential impacts. A Tennessee Valley Authority (TVA) shoreline construction permit may be required for bridges, culverts, or work within the floodplain of any streams regulated by TVA.

No state or federal listed protected species were observed along the proposed project. Habitat was observed for the small whorled pogonia, federally and state listed as “threatened”.

- 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: Blueridge Mountain EMC, Windstream, Notla Water Authority

VE Study Required Yes() No(x)

Project responsibilities:

- Design – Office of Program Delivery, HNTB Corporation
- Right-of-Way Acquisition – GDOT
- Relocation of Utilities – GDOT District 1 Utility Offices & Local Utilities
- Letting to contract – Office of Construction Bidding Administration
- Supervision of construction – GDOT District 1, Area 4
- Providing material pits – Contractor
- Providing detours – GDOT District 1, Area 4

Coordination

- Concept meeting date and brief summary. Attached minutes pending.
- Local government comments: none to date

Project Concept Report page 6
Project Number: BRF00-0002-07(019)
P. I. Number: 121385
County: Union

- Other projects in the area –
 - STP00-0002-07(020), Union County, PI No. 122200 – Widening & Reconstruction of SR 11/US 19 & 129 from CR 304 to CR 236;
 - STP00-0002-07(022), Union County, PI No. 122410 – Widening & Reconstruction of SR 11/US 19 & 129 from CR 47 to CR 304;
 - NHS00-0001-00(581), Union County, PI No. 0001581 – Turning Lanes from Fannin County Line to Blairsville;
 - APD00-0056-02(029), Union & Towns Counties, PI No. 122900 – Widening & Reconstruction of SR 515 & 2/US 76 from East Blairsville to CR 33;
 - CSSTP-0001-00(918), Union County, PI No. 0001918 – Intersection Improvement CR 1/Pat Colwell Road & CR 2/Pat Haralson Drive with SR 11/US 19 & 129
 - MSL00-0004-00(646), Union County, PI No. 0004646- Widening & Reconstruction of SR 11/US 19 & 129/Murphy Highway from CR 236/Gum Log Road to just north of the North Carolina state line.
- Railroads: none
- Other coordination to date: none

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 9 Months.
- Time to complete preliminary construction plans: 6 Months.
- Time to complete right-of-way plans: 2 Months.
- Time to complete the Section 404 Permit: 2 Months.
- Time to complete final construction plans: 9 Months.
- Time to complete to purchase right-of-way: 12 Months.
- Time to complete coordination with TVA: 3 Months
- List other major items that will affect the project schedule: None

Other alternates considered:

- No build
- Construct bridge on right (east) side of the existing bridge heading northeast.
- Build in place

Comments for alternates:

- The No-Build Alternative is not a viable option because the existing bridge is structurally deficient and in need of replacement.
- Constructing the SR11/US 19/US 129 Bridge over Ivy Log Creek to the east side would cause approximately 1350 linear feet of longitudinal stream impact. This would also impact two additional wetlands located in that area.
- Constructing the SR11/US 19/US 129 Bridge over Ivy Log Creek in the existing location would call for SR 11 to be closed along this section. A detour plan along another state route would be 18 miles along SR 325 and SR 515. State Route 11 is a school bus route.

In order to avoid the undesirable additional environmental impacts, to prevent delays in travel and emergency response, and to take advantage of the existing alignment, the new alignment shall travel northward, remaining west of the existing alignment. This maintains the existing Ivy Log Creek Bridge to serve as a detour while the new bridge is being constructed therefore minimizing the most impacts.

Attachments:

1. Need and Purpose Statement
2. Cost Estimates:
 - a. Construction including E&I, contingency, fuel adjustment cost and utilities, R/W cost
3. Sketch Location Map
4. Typical sections
5. Traffic Diagrams
6. Bridge inventory and inspection report
7. Minutes of Concept meetings
8. Layout Plan
9. Location and Design Notice

Project Concept Report page 8
 Project Number: BRF00-0002-07(019)
 P. I. Number: 121385
 County: Union

SCORING RESULTS AS PER TOPPS 2440-2

Project Number:		County:		PI No.:	
Report Date:		Concept By:			
<input type="checkbox"/> CONCEPT		DOT Office:			
		Consultant:			
Project Type: 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	
FOCUS AREAS	SCORE	RESULTS			
Presentation					
Judgement					
Environmental					
Right-of-Way					
Utility					
Constructability					
Schedule					

**NEED AND PURPOSE
BRIDGE REPLACEMENT
SR 11 AT IVY LOG CREEK
BRF00-0002-07(019), P.I. NO. 121385, UNION COUNTY**

Project Description

The need and purpose of this proposed project is to improve the bridge infrastructure at State Route (SR) 11/US 19/US 129 (hereinafter referred to as SR 11) at Ivy Log Creek in Union County, Georgia (Figure 1, Project Location Map). The existing roadway consists of two 12-foot travel lanes with variable width rural shoulders. The proposed project would serve to replace the existing bridge (Structure ID 291-0012-0) which has substandard load capacity and deck geometry.

Bridge Characteristics

The existing SR 11 Bridge over Ivy Log Creek is 138 feet in length and 27.8 feet in width. The SR 11 Bridge over Ivy Log Creek was constructed in 1940 and has a sufficiency rating of 7.00.

A general measure of the condition of each bridge is the sufficiency rating. Sufficiency rating is a scale use by the Georgia Department of Transportation (GDOT) to determine the structural and geometric condition of the bridge. This rating is determined by a federal definition adopted from the Association of American State Highway and Transportation Officials (AASHTO) standards and is based on the structural adequacy and safety, serviceability, functional obsolescence, and necessity for public use. Ranging on a point system form 1 to 100, any bridge with ratings of 50 points or lower are bridge project candidates to utilize federal bridge replacement funds.

Route Characteristics

SR 11 is a two-lane roadway which provides access between Blairsville, GA and Murphy, North Carolina, via US 129 in North Carolina. The functional classification of SR 11 is a rural principle arterial and the posted speed limit is 55 mph. The latitude of the existing bridge is 34°56'2" and the longitude is 84°02'1". The bridge project over Ivy Log Creek is located at mile post 19.80 on SR 11. The project is located approximately 6 miles north of Blairsville.

Crash Data

A three-year history of crashes along the proposed SR 11/US 19 project corridor is shown in Table 1, Crash History of SR 11/US 19 from Gumlog Road to the Georgia/North Carolina State Line. This table provides the number of crashes, the number of injuries, and the number of fatalities (with respective crash, injury, and fatality rates) per year between 2005 and 2007. In comparison, the statewide crash and injury rates for rural principal arterial roads for 2005-2007 are given in Table 2, Statewide Crash History Rate, Rural Principal Arterial. All crash, injury, and fatality rates are per 100 million vehicle miles.

**Table 1:
Crash History of SR 11/US 19 from Gumlog Road to the Georgia/North Carolina State Line**

Project	Year	Total Crashes/ Crash Rate*	Total Injuries/ Injury Rate*	Total Fatalities/ Fatality Rate*
BRF00-0002-07(019)	2005	7/50	1/7	0/0.00
	2006	5/37	5/37**	0/0.00
	2007	13/90	5/35	0/0.00

* All crash, injury, and fatality rates are per 100 million vehicle miles.

** Exceeds statewide average for Rural Principal Arterial that year.

**Table 2:
Statewide Crash History Rate, Rural Principal Arterial**

Year	Crash Rate	Injury Rate	Fatality Rate
2005	80	28	1.27
2006	73	25	1.07
2007	114	37	1.77

Along the proposed project corridor, the injury rate for 2006 exceeds the statewide average for rural principal arterials. Of the 25 total crashes recorded between 2005 and 2007 from Gumlong Road to the Georgia/North Carolina state line, 10 were categorized as 'not a collision' representing 40% of the crashes. These 'not a collision' crashes involved the driver encountering an animal, utility pole, embankment, ditch, or tree. Of the crashes involving vehicles, the most common crash type along the

proposed project corridor was the rear end crash, representing 28% of the crashes. The second most common crash type was the angle crash, representing 24% of the crashes. The third most common crash type was the sideswipe, representing 8% of the crashes.

The crash data from 2005 to 2007 reveal that the most common vehicles maneuvers at the time of the crash is going straight, which is 52% of crashes. The second most vehicle maneuvers was turning left, representing 24% of crashes. The third most common vehicle maneuver at the time of crash is 'negotiating' and these crashes types are most commonly associated with 'not a collision' events as described previously.

Traffic Data

SR 11 has an average traffic volume of approximately 8,100 vehicles per day (VPD). The existing level of service (LOS) is C. The proposed improvements will have a LOS D for the design year.

Table 3
SR 11 Over Ivy Log Creek
Traffic Volumes (VPD)

	Existing (2007)	Build-Year (2012) No-Build	Design-Year (2032) No-Build
SR 11 (vpd)	8,100	9,600	13,600
24 Hr Truck %	9%	9%	9%
Trucks (vpd)	730	870	1,200
LOS	C	C	D

Source: 2007 GDOT Traffic Count data.

Project Linkages

The following are projects in the Six-year construction work program in the vicinity of this bridge replacement project:

- STP-002-7(20), Union County, PI No. 122200 – Widening & Reconstruction of SR 11/US 19 & 129 from CR 304 to CR 236;
- STP-002-7(22), Union County, PI No. 122410 – Widening & Reconstruction of SR 11/US 19 & 129 from CR 47 to CR 304;
- NHS-0001-00(581), Union County, PI No. 0001581 – Turning Lanes from Fannin

County Line to Blairsville;

- APD-056-2(29), Union & Towns Counties, PI No. 122900 – Widening & Reconstruction of SR 515 & 2/US 76 from East Blairsville to CR 33; and
- CSSTP-0001-00(918), Union County, PI No. 0001918 – Intersection Improvement CR 1/Pat Colwell Road & CR 2/Pat Haralson Drive with SR 11/US 19 & 129
- MSL-0004-00(646), Union County, PI No. 0004646- Widening & Reconstruction of SR 11/US 19 & 129/Murphy Highway from CR 236/Gum Log Road to just north of the North Carolina state line.

Social/Economic Characteristics

A preliminary environmental justice analysis was completed for the proposed project and revealed no potential impacts to environmental justice communities.

Need & Purpose

Replacement of the existing bridge is justified due to its current deficient sufficiency rating. The need exists to replace this bridge and bring it up to current design standards and in doing so the operation and safety of this roadway will improve.

Estimate Report for file "121385 Preferred"

Section Roadway					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
201-1500	1	LS	75000.00	CLEARING & GRUBBING - BRFO0-0002-07 (019)	75000.00
210-0100	1	LS	220000.00	GRADING COMPLETE - BRFO0-0002-07(019)	220000.00
310-1101	4500	TN	18.67	GR AGGR BASE CRS, INCL MATL	84015.00
400-3101	1150	TN	105.68	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL, GILSONITE MODIFIER & H LIME	121532.00
402-3121	850	TN	63.14	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	53669.00
402-3190	1000	TN	62.66	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	62660.00
413-1000	1450	GL	1.87	BITUM TACK COAT	2711.50
Section Sub Total:					\$619,587.50

Section Traffic Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	70000.00	TRAFFIC CONTROL - BRFO0-0002-07(019)	70000.00
641-1100	100	LF	43.12	GUARDRAIL, TP T	4312.00
641-1200	1650	LF	15.31	GUARDRAIL, TP W	25261.50
641-5001	2	EA	620.25	GUARDRAIL ANCHORAGE, TP 1	1240.50
641-5012	2	EA	1821.59	GUARDRAIL ANCHORAGE, TP 12	3643.18
Section Sub Total:					\$104,457.18

Section Signing and Marking					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
652-2501	1	LM	332.34	SOLID TRAFFIC STRIPE, 5 IN, WHITE	332.34
652-2502	1	LM	323.62	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	323.62
Section Sub Total:					\$655.96

Section Erosion Control - Permanent					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
700-6910	8	AC	792.72	PERMANENT GRASSING	6341.76
700-7000	82	TN	66.74	AGRICULTURAL LIME	5472.68
700-7010	20	GL	22.03	LIQUID LIME	440.60
700-8000	7	TN	405.48	FERTILIZER MIXED GRADE	2838.36
700-8100	410	LB	2.36	FERTILIZER NITROGEN CONTENT	967.60
716-2000	7500	SY	0.96	EROSION CONTROL MATS, SLOPES	7200.00
Section Sub Total:					\$23,261.00

Section Erosion Control - Temporary					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	4	AC	491.10	TEMPORARY GRASSING	1964.40
163-0240	150	TN	186.53	MULCH	27979.50
163-0300	2	EA	1535.59	CONSTRUCTION EXIT	3071.18
165-0030	5000	LF	1.04	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	5200.00
165-0101	2	EA	512.38	MAINTENANCE OF CONSTRUCTION EXIT	1024.76
167-1000	2	EA	818.42	WATER QUALITY MONITORING AND SAMPLING	1636.84
167-1500	12	MO	926.60	WATER QUALITY INSPECTIONS	11119.20
171-0030	10000	LF	3.94	TEMPORARY SILT FENCE, TYPE C	39400.00
Section Sub Total:					\$91,395.88

Section Bridge					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
211-0300	119	CY	29.59	BRIDGE EXCAVATION, STREAM CROSSING	3521.21
500-0100	802	SY	4.67	GROOVED CONCRETE	3745.34
500-1006	315	CY	762.56	SUPERSTR CONCRETE, CL AA, BR NO- 1	240206.40

500-2100	380	LF	42.80	CONCRETE BARRIER	16264.00
500-3002	261	CY	488.44	CLASS AA CONCRETE	127482.84
507-9030	660	LF	162.30	PSC BEAMS, AASHTO, BULB TEE, 54 IN, BR NO - 1	107118.00
511-1000	32685	LB	1.03	BAR REINF STEEL	33665.55
511-3000	69215	LS	1.03	SUPERSTR REINF STEEL, BR NO - 1	71291.45
520-1104	400	LF	67.04	PILING IN PLACE, STEEL H, HP 10 x 42	26816.00
520-1147	1600	LF	86.16	PILING IN PLACE, STEEL H, HP 14 X 73	137856.00
540-1101	1	LS	116000.00	REMOVAL OF EXISTING BR, STA NO - XX+XX	116000.00
603-2024	900	SY	48.24	STN DUMPED RIP RAP, TP 1, 24 IN	43416.00
603-7000	900	SY	4.42	PLASTIC FILTER FABRIC	3978.00
Section Sub Total:					\$931,360.79

Section Drainage					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
500-3101	30	CY	287.52	CLASS A CONCRETE	8625.60
511-1000	2000	LB	0.90	BAR REINF STEEL	1800.00
Section Sub Total:					\$10,425.60

Total Estimated Cost: \$1,781,143.91

Project Number BHF00-0002-07(019)
 PI 121385
 County: Union

Construction Cost (Base)	\$1,781,143.91
Construction Engineering and Inspection (10%)	\$178,114.39
Construction Contingency (4% from CST Cont. sheet)	\$71,245.76
Total Fuel Adjustment (From worksheet)	\$116,884.95
TOTAL CONSTRUCTION COST	\$2,147,389.01

Utility Costs (Reimbursable)	\$150,000.00
Utility Contingency (30% Reimbursable)	\$45,000.00
TOTAL UTILITY COST	\$195,000.00

TOTAL ROW COST	\$800,000.00
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GRAND TOTAL PROJECT COST	\$3,142,389.01
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Adjustment Summary From work sheet	
Diesel Price Adjustment	\$40,670.59
Unleaded Price Adjustment	\$9,661.28
400 / 402 AC Price Adjustment	\$63,900.00
AC Price Adjustment BT	\$2,653.08
Total Fuel Adjustment	\$116,884.95

CONCEPT REPORT RIGHT OF WAY

COST ESTIMATE

Date:	July 9, 2008		
Project:	BRF00-0002-07(019)	P.I. Number:	121385
Existing/Required R/W:	SR 11/US 129 from CR 236 to Ivy Log Road	Parcels:	11
Project Termini:	Varies/Varies	Approximately 2500' stretch with bridge across Ivy Log Creek	
Project Description:	This project is new construction of a bridge and right of way of SR 11/US 129 over the Ivy Log Creek.		

Land:

(Residential-Small Acreage/Lots): 2.305 AC x \$40,000/AC =	\$92,200
(Residential Acreage Tracts): 0.739 AC x \$21,500/AC =	\$15,889
(Commercial Sites): 0.018 AC x \$175,000 =	<u>\$ 3,150</u>

TOTAL:	\$111,239
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Improvements:

Buildings:	\$	0	
Minor site improvements (not significant):	<u>\$</u>	<u>0</u>	
TOTAL:			\$0

Relocation:

Commercial- 0 Displacees	\$	0	
Residential- 0 Displacees	<u>\$</u>	<u>0</u>	
TOTAL:			\$0

Damages:

Proximity- 4 Parcels	\$ 175,000
Consequential- 0 Parcels	\$ 0
Cost to Cure – 0 Parcels	<u>\$ 0</u>

TOTAL:

\$175,000

Net Cost:

Plus Scheduling Contingency (55%):

Plus Admin./Court Cost (60% of 2 lines above):

\$ 286,239

\$ 157,430

\$ 266,202

\$ 709,871

TOTAL COST:

\$800,000 (R)

Notes: This cost estimate uses a 55% adjustment for scheduling contingencies between date of estimate and project implementation. There are additional adjustments for unforeseen management and condemnation costs.

The relocation costs were estimated with assistance from local real estate brokers and these figures are to include estimated relocation benefits and moving costs.

The appraiser has retained a work file with notes outlining unusual zoning or assessment issues, unusual geographical features, valuation issues, damage considerations, etc.

Prepared by: J. J. Scirban, Moreland Altobelli Associates

Approved by: John B. Alexander GDOT R/W

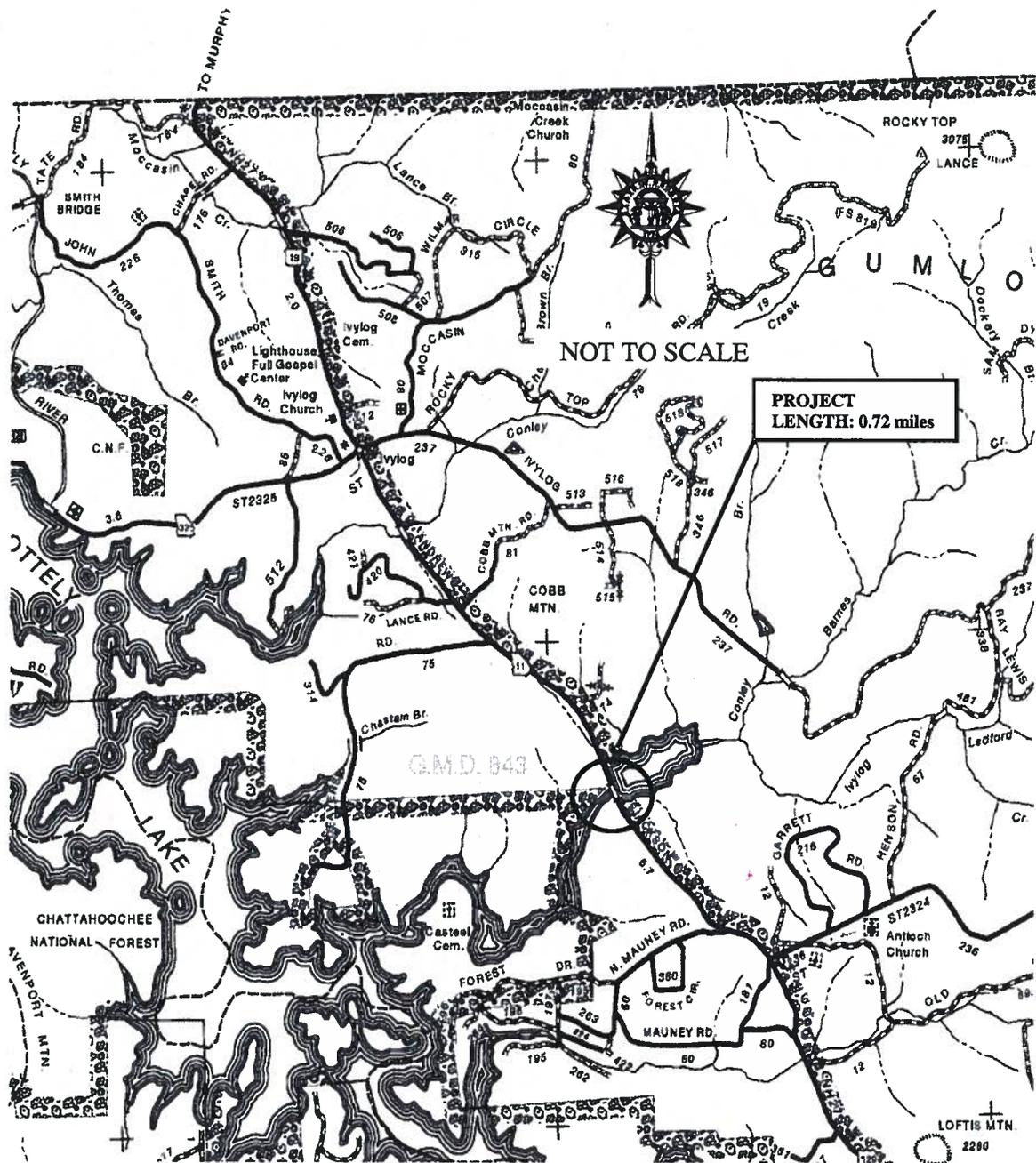
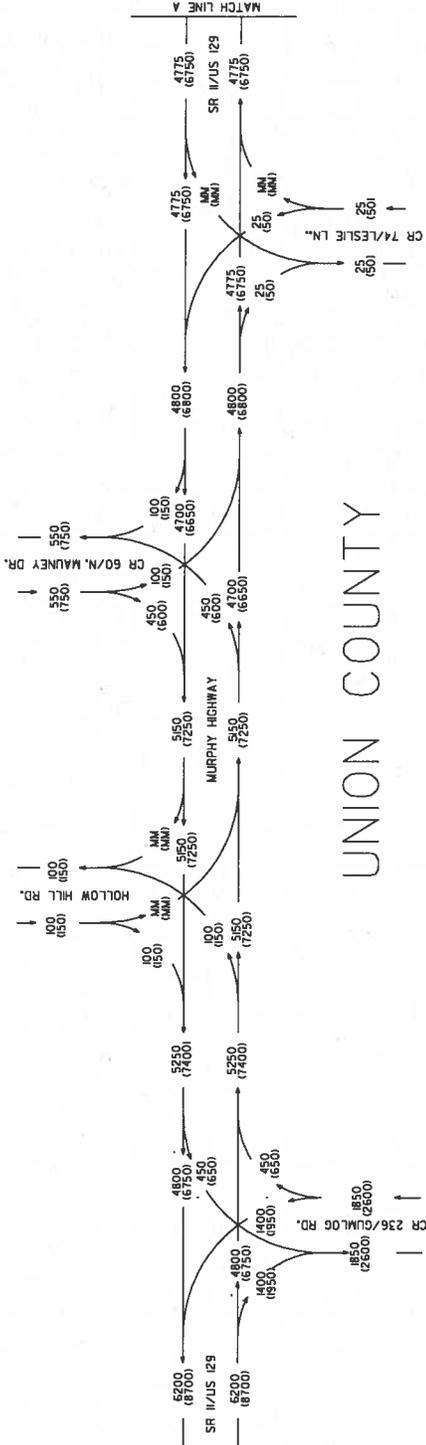


FIGURE 1: Location Map

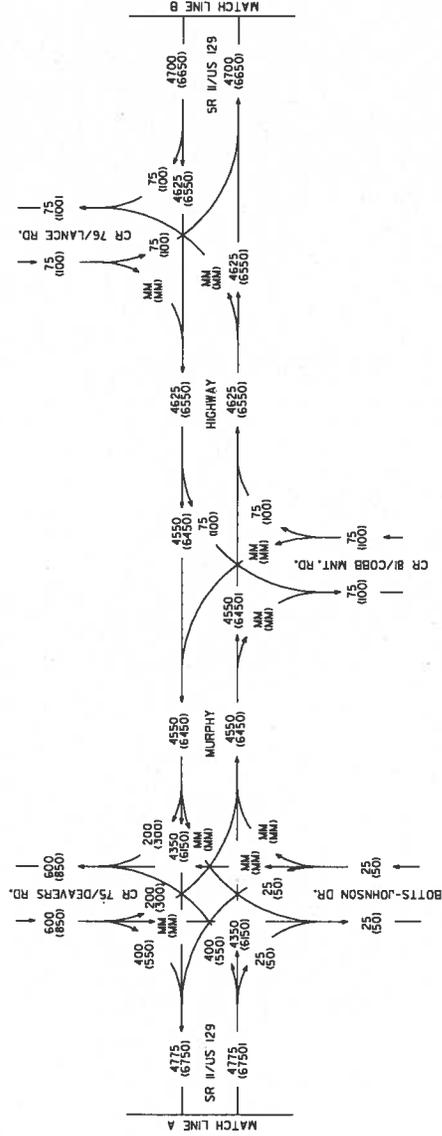
Project: BRF00-0002-07(019)

PI No.: 121385

Description: Bridge Replacement of SR 11/US 19 & 129/Murphy Highway at Ivy Log Creek.



UNION COUNTY



BRF00-0002-07(019)
P.I. NO. 121385
UNION COUNTY
SR II/US 129 FM
AT IVY LOG CREEK
2012 ADT = 000
2032 ADT = 000
24 HR. T = 9%
S.U. = 7%
COMB. = 2%

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 291-0012-0

Union

SUFF. RATING

7.00

Location & Geography

* Structure I.D.No: 291-0012-0

* 200 Bridge Information 06

* 6A Feature Int: IVY LOG CREEK

* 6B Critical Bridge: 0

* 7A Route Number Carried: SR00011

* 7B Facility Carried: US 19- US 129

* 9 Location: 6 MI N OF BLAIRSVILLE

2 DOT District: 1

207 Year Photo: 2005

* 91 Inspection Frequency: 24 Date: 12/14/2005

92A Fract Crit Insp Freq: 00 Date: 02/01/1901

92B Underwater Insp Freq: 00 Date: 02/01/1901

92C Other Spc. Insp Freq: 00 Date: 02/01/1901

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1

Type: 2

Designation: 1

Number: 00019

Direction: 0

* 16 Latitude: 34-56.2 MMS Prefix: SR

* 17 Longitude: 084-02.1 MMS Suffix: 00 MP: 19.80

98 Border Bridge: 000 %Shared: 00

99 ID Number: 0000000000000000

* 100 STRAHNET: 0

12 Base Highway Network: 1

13A LRS Inventory Route: 2911001100

13B Sub Inventory Route: 0

* 101 Parallel Structure: N

* 102 Direction of Traffic: 2

* 264 Road Inventory Mile Post: 019.99

* 208 Inspection Area: 01 Initials: JBC

Engineer's Initial: sgm

* Location I.D. No.: 291-00011D-019.80N

Signs & Attachments

* 104 Highway System:	1		
* 26 Functional Classification:	02		
* 204 Federal Route Type:	F	No.: 00027	
* 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:	12		
* 20 Toll:	3		
* 21 Maintenance:	01		
* 22 Owner:	01		
* 31 Design Load:	2		
* 37 Historical Significance:	5		
* 205 Congressional District:	09		
* 27 Year Constructed:	1940		
* 106 Year Reconstructed:	0000		
* 33 Bridge Median:	0		
* 34 Skew:	00		
* 35 Structure Flared:	0		
* 38 Navigation Control:	0		
* 213 Special Steel Design:	0		
* 267 Type of Paint:	1		
* 42 Type of Service on:	1		
* 214 Movable Bridge:	0		
* 203 Type Bridge:	A-O-O-O		
* 259 Pile Encasement:	3		
* 43 Structure Type Main:	1 04		
* 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:	1		
* 108 * Wearing Surface Type:	6		
	Mt 0		
	F 8		

225 Expansion Joint Type:	01
242 Deck Drains:	1
243 Parapet Location:	3
Height:	1.60
Width:	0.80
238 Curb:	0.60 1
239 Handrail:	2 2
* 240 Median Barrier Rail:	0
241 Bridge Median Height:	0.00
Width:	0.00
* 230 Guardrail Loc Dir Rear:	3
Fwrd:	3
Oppo Dir Rear:	0
Fwrd:	0
244 Approach Slab:	0
224 Retaining Wall:	0
233 Posted Speed Limit:	55
236 Warning Sign:	1
234 Delineator:	1
235 Hazard Boards:	1
237 Utilities Gas:	00
W	32
Ele	00
Telephone:	31
S	00
247 Lighting Street:	0
Navigation:	0
Aerial:	0
* 248 County Continuity No.:	19

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 291-0012-0

Union

SUFF. RATING

7.00

Programming Data

201 Project No.: TVA
 202 Plans Available: 0
 249 Prop. Proj. No. BRF-002-7 (19)
 250 Approval Status: 0000
 251 P.I. No.: 121385-
 252 Contract Date: 02/01/2011
 260 Seismic No.: 00028
 75 Type Work: 31 1
 94 Bridge Imp. Cost: \$ 308
 95 Roadway Imp. Cost: \$ 74
 96 Total Imp Cost: \$ 446
 76 Imp. Length: 000349
 97 Imp. Year: 1990
 114 Future ADT: 010650 Year: 2026

Measurements

* 29 ADT: 007100 Year: 2006
 109 % Trucks: 0
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0046
 * 49 Structure Length: 138
 51 Br. Rwdy. Width: 23.80
 52 Deck Width: 27.80
 * 47 Tot. Horz. Cl: 23.80
 50 Curb/Sdewlk Width: 1.00/1.00
 32 Approach Rdwy Width: 029
 * 229 Shoulder Width:
 Rear Lt: 2.80 Type: 2 Rt: 2.00
 Fwd Lt: 2.70 Type: 2 Rt: 2.20

Ratings

65 Inventory Rating Method: 2
 63 Inventory Rating Method: 2
 66 Inventory Type: 2 Rating: 00
 64 Operating Type: 2 Rating: 00
 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: 29
 67 Structural Evaluation: 2
 58 Deck Condition: 7
 59 Superstructure Condition: 2
 * 227 Collision Damage: 0
 60A Substructure Condition: 6
 60B Scour Condition: 8
 60C Underwater Condition: N
 71 Waterway Adequacy: 9
 61 Channel Protection Cond: 8
 68 Deck Geometry: 2
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 7
 62 Culvert: N

Hydraulic Data

215 Waterway Data
 Highwater Elev.: 0000.0 Year: 1900
 Avg. Streambed Elev.: 0000.0 Freq.: 00
 Drainage Area: 00000
 Area Of Opening: 000000
 113 Scour Critical: U
 216 Water Depth: 0.8 Br. Height: 24.7
 222 Slope Protection: 1
 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

Pavement Width:
 Rear: 35.50 Type: 2
 Fwd: 23.80 Type: 2
 Intersection Rear: 1 Fwd: 0
 36 Safety Features Br. Rail:
 Transition: 1
 App. G. Rail: 1
 App. Rail End: 1
 53 Minimum Cl. Over:
 Under: N
 * 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 0.00
 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:
 Deck Thick Approach: 7.00
 246 Overlay Thickness: 0.00
 212 Year Last Painted: Sup: 0000 Sub: 0000

Posting Data

70 Bridge Posting Required: 5
 41 Struct Open, Posted, Cl: D
 * 103 Temporary Structure: T
 232 Posted Loads H-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

* Location I.D. No.: 291-00011D-019.80N

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

District: 1
Bridge Inspector: George Cribb
Location ID: 291-00011D-019.80N
Structure ID: 291-0012-0

Inspection Date: 12/14/2005
Over: IVY LOG CREEK
County: Union
Road Name: US 19- US 129

Inspection Area: 01
Bridge Status: 06

EVALUATION & DEFICIENCIES

SubStructure:

Year Painted: 0000

2 concrete abutments and 2 concrete intermediate bents with 36"(D) x 36"(W) concrete caps and 2 columns with web walls. Bents 2 and 3 have steel saddles to increase bearing area for spalled beam ends. See side shot).
H-15 (design)

The abutments have hairline vertical cracking.
The intermediate bents have minor honey comb and moderate to heavy abrasion in water zone.
Column 1 bent 2 has deep spall from scaling and pop outs.

Seal spall column 1 bent 2.

SuperStructure:

Year Painted: 0000

3 simple spans with 4 - 36 (D)" x 14-1/4" (W) concrete "T" beams each on 7.0' spacing.
The caps at bents 2 and 3 have steel saddles to support the beam ends which had beam end spalling and lack of bearing.
This is a temporary bridge as a result.
H-15 (design)

Beams 1,4 at abutment 1 have beam end cracking and spalling and hairline shear cracks, longitudinal at beam 4.
Beam 4 at bents 2 and 3 have minor cracks in the repaired areas.
The saddles at the intermediate bents are functioning, but have lead paint failure and should be cleaned and painted.
The bearings at the abutments are expanded out and are 1/4" from the back wall-2004--abutment 1 is 5/16, 5/16, 3/8, 5/16" and abutment 4 is 7/16, 5/16, 3/8, 1/2" same in 2005 monitor.
They will expand out in summer and should be monitored.

Clean and paint steel saddles.
Repair beams 1,4 beam end cracking/spalling.

Deck:

7" concrete deck with 2" asphalt overlay. There are armored joints at the abutments which are paved over.
H-15 (design).

There is moderate scaling with areas of heavier scaling with aggregate exposed on deck and curbs.
Bent 3 joint has a spall.
There is minor hairline cracking with efflorescence underneath.
Asphalt overlay is in fair condition with moderate cracking.
Seal asphalt deck and roadway joints.
2005-Starting to hear some noise at the armor joints under heavy truck traffic.

Seal bent 3 joint spall.
Seal asphalt deck and roadway joints.

General:

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

District: 1
Bridge Inspector: George Cribb
Location ID: 291-00011D-019.80N
Structure ID: 291-0012-0

Inspection Date: 12/14/2005
Over: IVY LOG CREEK
County: Union
Road Name: US 19- US 129

Inspection Area: 01
Bridge Status: 06

EVALUATION & DEFICIENCIES

Built in 1940 project # TVA.

This bridge is on the snooper contract with project # PEBRO-NBIS0003(1) 7/22/2003.

Structure has been temporarily repaired for concrete beam end spalling by steel saddles on the bents.

This structure is in fair to critical condition and without the temporary repairs would not carry live load.

Note: Guardrail has been upgraded to current standard since 1998.

There is handrail and curb scaling and spalling.

Seal bent 3 joint spall.

Seal asphalt deck and roadway joints.

Clean and paint steel saddles.

Repair beam 1,4 beam end cracking/spalling.

Seal spall column 1 bent 2.

Condition Rating

Temp Shored: **Yes**

Component	Material	Rating
Substructure	Concrete	6
Superstructure	Concrete	2
Deck	Concrete	7

Truck Type	Gross/H-Mod	HMod	Tand	3-S-2	Log	Piggy
Calculated Posting	20	25	28	40	36	40
Posting Required	No	No	No	No	No	No
Existing Posting	00	00	00	00	00	00

School Bus Route.

Structure Does Not Require Posting

MEETING MINUTES



CONCEPT TEAM MEETING MINUTES

Bridge Replacement of SR 11/US 19 at Ivy Log Creek, UNION COUNTY, GA

GDOT Project Nos. BRF00-0002-07(019), PI No. 121385

HNTB No. 43341

Date: June 25, 2009

Location/Time: District 1 Conference Room in Gainesville, GA/ 10:00 a.m. – 11:00 a.m.

Attendees:

Name	Company/Address	Phone	E-Mail
David K. Lyons	GDOT	404-354-9347	dlyons@dot.ga.gov
Larry A. Garrett	Union County	706-439-6000	ucmanager@uniongov.com
James F. Harry	GDOT-CLE	404-326-6235	jharry@dot.ga.gov
Stanley Hill	GDOT-OPD	404-631-1560	sthill@dot.ga.gov
Amber Phillips	GDOT-OEL	404-699-4408	aphillips@dot.ga.gov
Steve Adewale	GDOT-OPD	404-631-1578	sadewale@dot.ga.gov
Nathaniel O'Kelley	GDOT-Utilities	770-532-5510	nokellev@dot.ga.gov
Robert W. Mahoney	GDOT-D1	770-532-5520	rmahoney@dot.ga.gov
Billy Cantrell	GDOT-D1-PPE	770-532-5530	bcantrell@dot.ga.gov
Brent Cook	GDOT-D1-DTE	770-532-5563	bcook@dot.ga.gov
Kevin D. York	GDOT-D1-R/W	770-718-5050	kevnyork@dot.ga.gov
Tim Hatton	HNTB	404-946-5755	thatton@hntb.com
Dom Saulino	HNTB	404-946-5745	dsaulino@hntb.com
Brian Sapp	HNTB	404-946-5737	bsapp@hntb.com

Purpose: Concept Team Meeting to present and discuss the proposed concept for the bridge replacement on SR 11/US 19/US 129/Murphy at Ivy Log Creek.

The following were items discussed at the meeting:

- The attendees met in order to discuss the SR 11/US 19 bridge replacement project over Ivy Log Creek. Steve Adewale began this meeting by introducing the project, including discussion of the concept approval date (July 2009), the let date (LR) and the right-of-way approval date (August 2010). Steve then allowed a round of attendee introductions. Steve then introduced Dom Saulino to describe the project.
- Dom gave a thorough description of the project using the concept layout and report. Dom covered each section in the concept report and meeting agenda that was provided to attendees.
- The first concern brought forth was trout stream buffer disturbance. Amber stated that no trout stream buffer would be given a buffer variance, nor allowed mitigation. She stated that there could not be trout stream buffer disturbance. Dom stated that he was told differently in the meetings held previously for the initial concept team meeting for project MSL-0004-00(646), PI No. 0004646. Dom recalls that some encroachment was allowed depending on the situation, like a perpendicular crossings for example. For the Ivy Log Creek Bridge project, Dom explained that there is one location outside of the bridge that would encroach a stream buffer. This location is where the design is tying back the proposed road into the existing road at the north end of this

project. Dom said this was the best location possible to give a perpendicular stream crossing and with minimum buffer impacts. It was agreed upon that Amber would verify if any trout stream buffer impacts would be allowed and would coordinate a solution with HNTB, (see following action items). Steve suggested that after the coordination with EPD, a meeting should be held between the ecologist, NEPA specialist and the project manager to obtain a solution. Stanley requested that discussion should be added to the concept report under alternates considered to discuss looking at the option of building the proposed bridge in place of the existing to help with coordination material to EPD.

- Robert Mahoney asked why the proposed alignment for the bridge replacement for Ivy Log Creek did not match the northbound alignment proposed for MSL-0004-00(646) to accommodate the future design of MSL-0004-00(646)? It was stated that the traffic did not warrant the four lane future widening project and funding may not be available. The future project alignment would add an additional one-half mile to the length of the bridge replacement and would affect many other trout stream buffers and include several property displacements. Robert agreed that the design was the most appropriate given the situation.
- Dom Saulino then asked Tim Hatton to discuss the environmental impacts. Outside of the previously mentioned trout stream buffer concern, Tim summarized impacts to streams, wetlands, permitting and documentation. Tim stated that 86 linear feet of stream channels and 0.059 acres of wetlands were impacted, which is under the Nationwide permit threshold. As far as TVA permitting, it would not be needed if the project kept and/or increased water flow capacity. The proposed bridge will be at the same grade or higher and lengthened. This will keep any fill dirt from decreasing capacity of water flow.
- Robert asked what happens to the existing bridge once the new bridge is in place. It was agreed upon that the bridge would be removed for environmental and safety purposes. Stanley Hill stated that this should be in the hydrology report as well. Dom then resumed the presentation.
- Nathaniel stated that no utility issues were found. Nathaniel noted from the preliminary reimbursable utility cost estimate that Notla Water Authority has utilities involvement and that the reimbursable amount could increase by an additional \$228,000 if Notla Water Authority were to apply for utility assistance for the relocation of their facilities and their request was approved. This would bring the total to \$449,000. From this meeting, it was agreed to still use the \$221,000 total for now.
- During Dom's discussion of scheduling regarding responsible parties' estimated time to complete, Kevin figured it would take twelve months instead of nine to purchase right-of-way considering the time to coordinate with TVA. Stanley requested that an additional line be added to the concept report under the scheduling section, although out of regular format, to show three months extra time to coordinate with TVA for right of entry.
- The meeting adjourned with a request to representatives of GDOT and Union County to comment. No other comments outside of the previously mentioned were added, other than an agreement to move forward with this project.

Action Items:

- Tim will coordinate with Amber to develop coordination materials for EPD in order to resolve the trout stream buffer variance issue.
- HNTB will add language to the hydraulic study that explains what happens to the existing Ivy Log Bridge. As mentioned, the bridge will be removed if it is agreed upon by GDOT.
- HNTB will add requested information to the concept report for additional alternated considered and comments to scheduling.

This is our understanding of items discussed and decisions reached. Please contact us if there are changes or additions.

Submitted by,

HNTB CORPORATION

Brian Sapp, P.E.
Project Manager

cc: File, Attendees

**DEPARTMENT OF TRANSPORTATION STATE OF
GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: BRF00-0002-07(019), Union County **OFFICE:** Office of Program Delivery
Replacement of SR 11/US 19 at Ivy
Log Creek
P.I. Number 121385 **DATE:** July 14, 2009

FROM: Steve Adewale, CPEng, P.E., Project Manager

TO: Genetha Rice Singleton, Assistant Director of Preconstruction

SUBJECT: Request for Location and Design Approval

Description of Project Proposal: Project BRF00-0002-07(019) is the bridge replacement in Union County on SR 11/ US 19/ US 129 over the Ivy Log Creek. The purpose of this project is to replace a structurally deficient and functionally obsolete bridge on SR 11/ US 19/US 129 over the Ivy Log Creek. The bridge project is located at mile post 19.80 on SR 11. Proposed typical section consists of two twelve-foot wide travel lanes with ten-foot wide rural shoulders with six-foot paved.

Concept Approval Date:

Concept Update: None at this time.

Environmental Assessment and Reassessment Approval Date: N/A

Public Involvement: No public involvement was required because of Categorical Exclusion (CE) designation.

Consistency with Approved Planning: The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: It is recommended that the location and design for the project be approved and that the attached Notice of Location and Design be approved for advertising.

RECOMMEND: _____
Director of Preconstruction

APPROVE: _____
Chief Engineer Date of Approval

- Attachments:**
- Sketch Map
 - Cost Estimate
 - Notice of Location and Design Approval