

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 333140-, Lamar County **OFFICE** Preconstruction
BRST-0005-1(32)
SR 18 over Potato Creek Bridge Replacement **DATE** March 5, 2007

FROM *Cybil Kumb*
Genetha Rice-Singleton, Assistant Director of Preconstruction

TO *ra* SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

GRS/cj

Attachment

DISTRIBUTION:

Brian Summers
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Angela Alexander (file copy)
Paul Liles
Babs Abubakari
Thomas Howell
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No. 333140-, Lamar County **OFFICE:** Preconstruction
 BRST-005-1(32)
 SR 18 over Potato Creek Bridge Replacement **DATE:** February 20, 2007

FROM: *Genetha Rice-Singleton*
 Genetha Rice-Singleton, 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 18 over Potato Creek, 4.0 miles west of Barnesville, Georgia. The existing bridge, constructed in 1939, is load limited with a sufficiency rating of 10. State Route 18 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 18 is functionally classified as a rural minor arterial. Traffic is projected to be 2,500 VPD and 3,600 VPD in the years 2010 and 2030 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new 400' x 44' concrete bridge over Potato Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 10' rural shoulders (2' paved). Traffic will be detoured via an on-site drainage structure and temporary detour road constructed parallel and north of the existing bridge.

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

The estimated costs for this project are:

	PROPOSED	APPROVED	FUNDING	PROG DATE
Construction (includes E&C and inflation)	\$3,422,000	\$2,628,000	LICO	2010
Right-of-Way	\$ 20,000	\$ 58,000	LICO	2008
Utilities*	\$ 50,000			

*Lamar County refused utilities; rescission letter sent to Lamar County 6-3-05.

David Studstill
Page 2

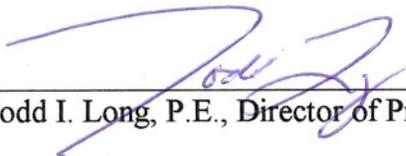
P. I. No. 333140-, Lamar
February 20, 2007

I recommend this project concept be approved.

GRS:JDQ/cj

Attachment

CONCUR



Todd I. Long, P.E., Director of Preconstruction

APPROVE



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

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-005-1(32) Lamar
P.I. No. 333140
S.R. 18 over the Potato Creek

OFFICE: Engineering Services

DATE: February 19, 2007

FROM: Brian K. Summers, P.E., Project Review Engineer

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report submitted January 4, 2007 and have the following comment.

- The bridge costs have been revised including temporary detour bridge construction.

The costs for this project are:

Construction	\$3,110,800
E & C	\$311,080
Reimbursable Utilities	\$50,000
Right of Way	\$20,000

REW

c: Babs Abubakari, Attn.: Yun Tang

SCORING RESULTS AS PER TOPPS 2440-2

Project Number: BRST-005-1(32)		County: Lamar		PI No.: 333140	
Report Date: January 4, 2007		Concept By: DOT Office: Consultant Design			
<input checked="" type="checkbox"/> Concept Stage		Consultant: Lowe Engineers			
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				

NOTICE OF LOCATION AND DESIGN APPROVAL

Project Name	Project Number	P.I. Number	County
SR 18 over Potato Creek 4 miles West of Barnesville	BRST-005-1-(32)	333140	Lamar

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.

The date of location and design approval is MARCH 5, 2007

Descriptions of the Proposed Project:

This project is located in Lamar County in the 8th U.S. Congressional District, in Land Lot 58 & 39 of the 7th and 8th Land District of Lamar County.

Descriptions of the Proposed Construction:

This project is located on SR18 over Potato Creek in Lamar County. The sufficiency rating of the existing bridge is 10.75 out of 100. The total length of the project is approximately 1700 feet (0.32 miles). The purpose of the project is to replace the insufficient bridge while maintaining the existing horizontal alignment. An on-site detour will be utilized and will shift traffic 50 feet to the North of the existing bridge. The project will adequately handle future traffic needs within the existing typical section of two lanes. SR 18 is programmed as a two-lane roadway in the 2006-11 State Transportation Improvement Program (STIP) with a Right-of-Way Acquisition date of 2008, a Construction date of 2009, and a completion date of 2010.

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:

Tim Reeves, Area Engineer
tim.reeves@dot.state.ga.us
101 Transportation Blvd.
Thomaston, GA 30286
Telephone: (706) 646-6630

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:

Thomas Howell, P.E., District 3
thomas.howell@dot.state.ga.us
715 Andrews Drive
Thomaston, GA 30286-4524
Telephone (706) 646-6500

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 Consultant Design and Program Delivery

PROJECT CONCEPT REPORT

Project Number: BRST-005-1-(32)

County: Lamar
P. I. Number: 333140

Federal Route Number: N/A
State Route Number: SR18

Description: SR18 over Potato Creek 4 miles west of Barnesville

Recommendation for approval:

DATE Jan 4, 2007

Yun Tang
Project Manager

DATE Jan 4, 2007

M. Babs Abubakari
State Consultant Design and Program Delivery 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 Operations Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE 1/4/07

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

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 333140

OFFICE: Environment/Location

DATE: January 17, 2007

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

TO: Genetha Rice-singleton, Assistant Director of Preconstruction

**SUBJECT: PROJECT CONCEPT REPORT
BRST-005-1(32) / Lamar County**

The above subject concept report has been reviewed. This Office has no comment at this time.

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

HDK:lc

Attachment

cc: Brian Summers
Keith Golden
Babs Abubakari
Angela Alexander
Jamie Simpson

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Consultant Design and Program Delivery

PROJECT CONCEPT REPORT

Project Number: BRST-005-1-(32)

County: Lamar
P. I. Number: 333140

Federal Route Number: N/A
State Route Number: SR18

Description: SR18 over Potato Creek 4 miles west of Barnesville

Recommendation for approval:

DATE Jan 4, 2007

Yun Tang
Project Manager

DATE Jan 4, 2007

M. Babs Abubakari
State Consultant Design and Program Delivery 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 1.16.07

Shirley D. Taylor
State Environment/Location Engineer

DATE _____

State Traffic Operations Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design and Program Delivery

PROJECT CONCEPT REPORT

Project Number: BRST-005-1-(32)

County: Lamar

P. I. Number: 333140

Federal Route Number: N/A

State Route Number: SR18

Description: SR18 over Potato Creek 4 miles west of Barnesville

Recommendation for approval:

DATE Jan 4, 2007

Yun Tang
Project Manager

DATE Jan 4, 2007

M. Babs Abubakari
State Consultant Design and Program Delivery 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 1-9-07

James T. Simpson
State Transportation Financial Management Administrator

DATE _____

State Environment/Location Engineer

DATE _____

State Traffic Operations Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer





Department of Transportation

HAROLD E. LINNENKOHL
COMMISSIONER
(404) 656-5206

DAVID E. STUDSTILL, JR., P.E.
CHIEF ENGINEER
(404) 656-5277

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

BUDDY GRATTON, P.E.
DEPUTY COMMISSIONER
(404) 656-5212

EARL L. MAHFUZ
TREASURER
(404) 656-5224

FILE BRST-005-1(32) Lamar OFFICE Thomaston
P.I. No. 333140
SR 18 over Potato Creek
Bridge Replacement

DATE January 17, 2007

FROM David Millen

TO Johnny Quarles
W/Attachments

SUBJECT **Signed Concept Cover Sheet
W/Comments**

We have reviewed the concept report on the above project and concur with the recommendation for approval.

DBM: cg
Attachment 1
cc: Thomas Howell
David Millen
Tom Queen
Mike England
Kerry Gore

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design and Program Delivery

PROJECT CONCEPT REPORT

Project Number: BRST-005-1-(32)

County: Lamar

P. I. Number: 333140

Federal Route Number: N/A

State Route Number: SR18

Description: SR18 over Potato Creek 4 miles west of Barnesville

Recommendation for approval:

DATE Jan 4, 2007

Yun Tang
Project Manager

DATE Jan 4, 2007

M. Babs Abubakari
State Consultant Design and Program Delivery 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 Operations Engineer

DATE 1-9-07

[Signature]
District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

Office of Consultant Design and Program Delivery

PROJECT CONCEPT REPORT

Project Number: BRST-005-1-(32)

County: Lamar

P. I. Number: 333140

Federal Route Number: N/A

State Route Number: SR18

Description: SR18 over Potato Creek 4 miles west of Barnesville

Recommendation for approval:

DATE Jan 4, 2007

Yun Tang

Project Manager

DATE Jan 4, 2007

M. Babs Abubakari

State Consultant Design and Program Delivery 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 Operations Engineer

DATE _____

District Engineer

DATE 2/19/07

Bruce L. Sumner
Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design and Program Delivery

PROJECT CONCEPT REPORT

Project Number: BRST-005-1-(32)

County: Lamar
P. I. Number: 333140

Federal Route Number: N/A
State Route Number: SR18

Description: SR18 over Potato Creek 4 miles west of Barnesville

Recommendation for approval:

DATE Jan 4, 2007

Yun Tang
Project Manager

DATE Jan 4, 2007

M. Babs Abubakari
State Consultant Design and Program Delivery 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 Operations Engineer

DATE _____

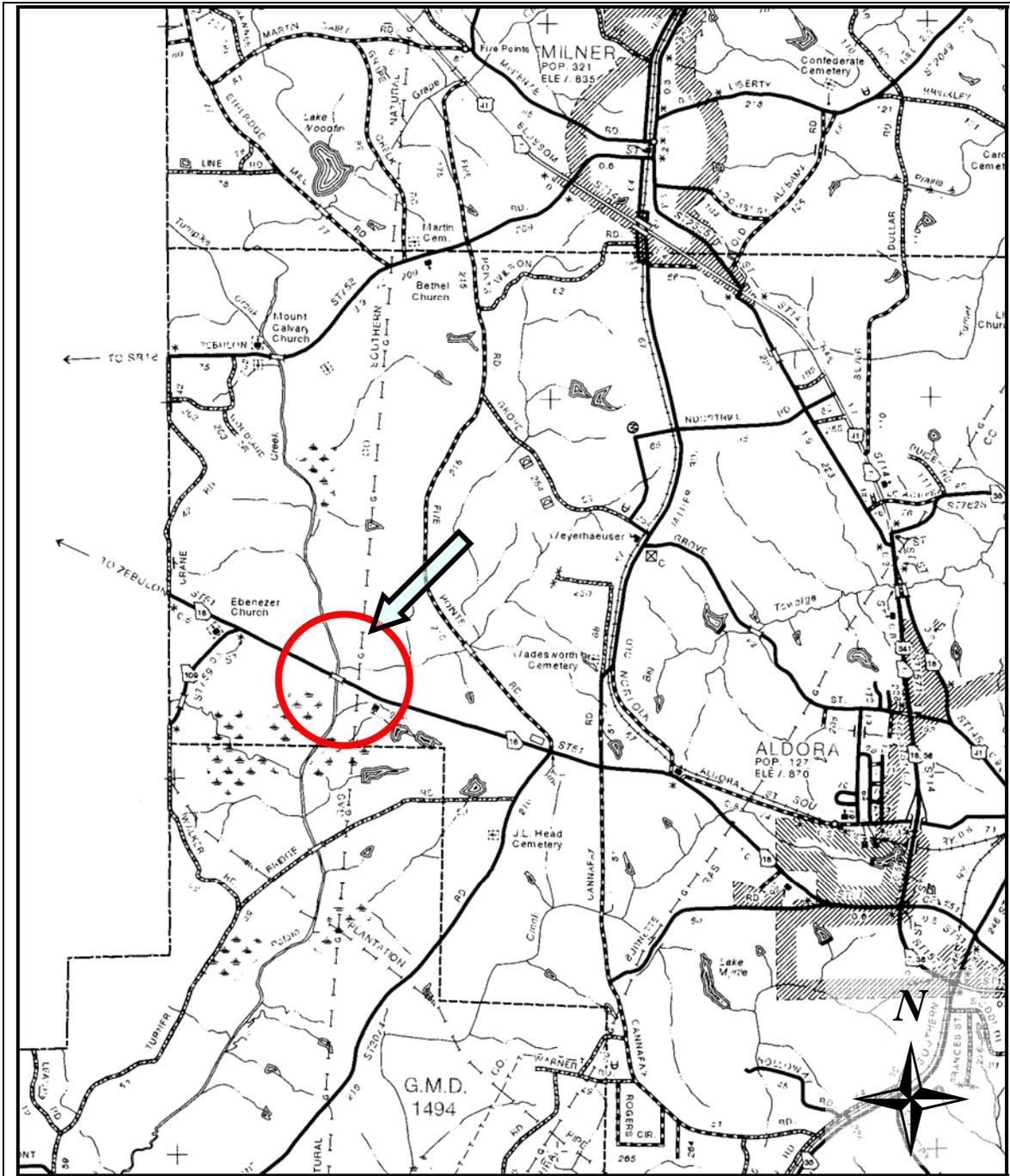
District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer



Location Map

Project: BRST-005-1-(32) Lamar County PI No.: 333140
Description: SR18 over Potato Creek 4 miles West of Barnesville

June 1, 2006

Project Concept Report page 3

Project Number: BRST-005-1-(32)

P.I. Number: 333140

County: Lamar County

Department Of Transportation
State of Georgia

Need and Purpose

Bridge project BRST-005-1(32) will replace the structurally deficient bridge located on SR 18 over Potato Creek. This bridge's sufficiency rating is 10.75. The sufficiency rating, a number from 0 to 100, is a method of evaluating data by calculating four separate factors to obtain a numeric value that is indicative of a bridge's sufficiency to remain in service. The resulting rating would range between zero (0), which represents an entirely insufficient or deficient bridge; and 100, which represents an entirely sufficient bridge. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. Recommended due to an existing structurally deficient and functionally obsolete bridge this project will replace the existing bridge with a structurally adequate bridge.

The bridge has an existing deck width of 23.80 ft, including two 10.5 ft. lanes and two 1.4 ft. shoulders. The existing deck width provides insufficient lane and shoulder width. The substructure has minor horizontal and vertical cracking. The existing deck has minor shrinkage and transverse cracking. The superstructure is in poor condition with extensive section loss of the steel superstructure in the bearing areas. The structure is currently load posted below legal weight limits.

This section of SR 18 is classified as a rural minor arterial. There are no bicycle routes located along SR 18, but it is a designated school bus route within the project area. The 2005 AADT on this roadway was 2,110. Using a 2% annual growth rate, the AADT will be 2,300 in 2010, 2,800 in 2020, and 3,500 in 2030. This bridge was constructed in 1939, indicating that it is beyond its 50 year life span. Providing a new and wider bridge will replace an existing structurally deficient and functionally obsolete bridge and improve access to the area.

June 1, 2006

Project Concept Report page 4
Project Number: BRST-005-1-(32)
P.I. Number: 333140
County: Lamar County

Department Of Transportation
State of Georgia

Description of the proposed project

This project is located on SR18 over Potato Creek in Lamar County. The sufficiency rating of the existing bridge is 10.75 out of 100, as of Jan 4, 2007. The total length of the project is approximately 1700 feet (0.32 miles). The purpose of the project is to replace the structurally deficient bridge while maintaining the existing horizontal alignment. An on-site detour will be utilized and will shift traffic 50 feet to the North of the existing bridge. The project will adequately handle future traffic needs within the existing typical section of two lanes. SR 18 is programmed as a two-lane roadway in the 2006-11 State Transportation Improvement Program (STIP) with Right-of-Way Acquisition in FY2008 and letting in September 2008.

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

PDP Classification: Major Minor

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

Functional Classification: Rural Minor Arterial

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

State Route Number(s): SR18

Traffic (AADT) for SR18

2005 ADT = 2200

2010 ADT (Base Year) = 2500

2030 ADT (Design Year) = 3600

June 1, 2006

Project Concept Report page 5
Project Number: BRST-005-1-(32)
P.I. Number: 333140
County: Lamar County

Department Of Transportation
State of Georgia

Existing design features:

- Typical Section: Two 12 ft lanes with variable width grassed rural shoulders
- Posted speed: 55 mph
- Maximum grade: 4.9 % mainline
- Width of right-of-way: 100 ft
- Major structures: Structure ID 171-0012-0: 14 – 27' continuous steel spans on pipe bents on H-piles with a cast in place deck and a total length of 378 ft. The bridge roadway curb to curb clear width is 23.8ft with a 1.1 ft sidewalk and the sufficiency rating is 10.75.
- Major interchanges or intersections along the project: None
- Existing length of roadway segment: 0.32 miles

Proposed Design Features:

- Proposed typical section(s): Two 12 ft lanes with 10 ft rural shoulders. Slopes will vary from 2:1 in areas with guardrail to 4:1 in areas without guardrail.
- Proposed Design Speed Mainline: 55 mph
- Proposed Maximum grade Mainline: 4.2% Maximum grade allowable: 6%
- Proposed Maximum grade Side Street: N/A Maximum grade allowable: 6%
- Proposed Maximum grade Driveway Residential: 12% Commercial: 16%
- Proposed Minimum radius: N/A Maximum radius allowable: 960 ft
- Proposed Maximum degree of curve: N/A Maximum degree allowable: 6°00'
- Right-of-Way:
 - o Additional Width: N/A
 - o Easements: Temporary (X), Permanent (X), Utility (), Other ().
 - o Type of access control: Full (), Partial (), By Permit (X), Other ().
 - o Number of parcels: 4 Number of displacements: 0
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures: Bridge over Potato Creek-The proposed bridge will have a 44 ft wide clear width (47'-3" out to out) consisting of two 12 ft travel lanes and 10 ft shoulders. The bridge is expected to have 10 – 40 ft T-Beam spans on steel H-piles for a total length of approximately 400 ft.
- Major intersections and interchanges: None
- Traffic control during construction: The traffic will be maintained on-site during construction. A temporary bridge will be used during bridge replacement activities.

June 1, 2006

Project Concept Report page 6
Project Number: BRST-005-1-(32)
P.I. Number: 333140
County: Lamar County

Department Of Transportation
State of Georgia

- Design Exceptions to controlling criteria anticipated:

	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ROADWAY WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOULDER WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL GRADES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CROSS SLOPES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
STOPPING SIGHT DISTANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUPERELEVATION RATES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HORIZONTAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPEED DESIGN:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE STRUCTURAL CAPACITY:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Design Variances: None
- Environmental concerns: Nationwide 404 with PCN; Comprehensive Monitoring Plan
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes () , No () ,
 - Categorical exclusion anticipated? Yes () , No () ,
 - Environmental Assessment/Finding of No Significant Impact (FONSI) () , or
 - Environmental Impact Statement (EIS) () .
- Utility involvements: Communications, Gas, Sanitary, and Water

Project responsibilities:

- Design: GDOT, Office of Consultant Design
- Right-of-Way Acquisition: GDOT, District 3 Preconstruction (Right of Way Office)
- Relocation of Utilities: GDOT, District 3 Utility Office
- Letting to contract: GDOT General Office (Office of Contract Administration)
- Supervision of construction: GDOT District 3 Construction Office
- Providing material pits: GDOT District 3 Materials Office
- Providing detours: N/A

Coordination

- Initial Concept Meeting and brief Summary: See attached.
- Concept meeting date: November 1, 2006
- FEMA, USCG, and/or TVA: Potato Creek is not a FEMA studied river, others TBD.
- Public involvement: None required.
- Local government comments: TBD
- Other projects in the area: None

June 1, 2006

Project Concept Report page 7

Project Number: BRST-005-1-(32)

P.I. Number: 333140

County: Lamar County

Department Of Transportation
State of Georgia

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 9 Months.
- Time to complete preliminary construction plans: 4 Months.
- Time to complete right-of-way plans: 1 Months.
- Time to complete the Section 404 Permit: 6 Months.
- Time to complete final construction plans: 4 Months.
- Time to complete to purchase right-of-way: 9 Months.

Other alternates considered:

1. Build proposed bridges on the existing alignment by closing the road and detouring traffic off-site.
2. Build proposed bridges parallel and offset to the north from the existing alignment.
3. Build proposed bridges parallel and offset to the south from the existing alignment.
4. Build bridge on existing alignment by building a temporary on-site detour.
5. No build Alternative

Comments:

Alternative 4 is selected for this concept.

Alternative 1 was eliminated due to the excessive length of a suitable off-site detour. Alternatives 2 and 3 were eliminated due to geometry considerations. Alternative 5 was eliminated due to the low bridge sufficiency rating.

Attachments:

1. Concept Meeting Minutes
2. Preliminary Cost Estimates including E&C, Right-of-Way, and Utilities
3. Traffic Assignments
4. Bridge Inventory Data Listings
5. Typical sections
6. Concept Plans (for earthwork calculations)
7. Location and Design Notice (on minor projects)

SR18 Bridge over Potato Creek
BRST-005-1(32)
Lamar Co. PI # 333140

Meeting Minutes – Concept Team Meeting
November 1, 2006

ATTENDIES:

Yun Tang – GDOT(office of consultant design) (404) 463-0290
Scott Parker – GDOT(traffic ops) (706) 646-6561
Ray Crutchfield – Right of Way consultant (706) 656-5588
Glenn A. Williams – GDOT(utilities) (706) 646-6549
Rob Hall – Southern Rivers Energy (770) 358-1383 ext317
Jennie Agerton – URS (678) 808-8843
Patrick Smith – URS (678) 808-8876
George Manning – URS (678) 808-8882
W. Tim Reeves – GDOT (706) 646-6100
Richard Meehan – Lowe Engineers (770) 857-8434
Nathan Laird – Lowe Engineers (770) 857-8439
Jenny Lee – Lowe Engineers (770) 857-8409

- I. WELCOME- Mr. Yun Tang
- II. INTRODUCTION OF EACH ATTENDEE
- III. PROJECT IDENTIFICATION – Richard Meehan
 - a. BRST-005-1(32) Lamar County
 - i. Bridge Replacement, SR 18 over Potato Creek, 4 miles
- IV. FUNCTIONAL CLASSIFICATION
 - a. Rural Minor Arterial
- V. NEED AND PURPOSE STATEMENT
 - a. Structurally deficient bridge (44.32 rating) (updated to 10.75 by Engineering Services)
 - b. Insufficient width (23.80 FT)
- VI. TRAFFIC PROJECTIONS
 - a. 2005 – 2200 VPD
 - b. 2010 – 2500 VPD
 - c. 2030 – 3600 VPD
 - d. 24 HR TRUCKS – 7.5%
- VII. EXISTING TYPICAL SECTION
 - a. 2 – 12’ lanes w/ variable width grassed shoulders
 - b. 100’ r/w
 - c. 55 mph posted speed
- VIII. DESIGN CRITERIA
 - a. 55 mph rural design
 - b. 35 mph detour design
- IX. PROPOSED PROJECT DESCRIPTION
 - a. 2- 12’ lanes, 10’ rural shoulders (6.5’ paved)
 - b. R/W 100’
 - c. Easement for Construction, Maintenance, & Removal of Detour
- X. MAJOR STRUCTURES

- a. 14 – 27' continuous steel spans on pipe bents on h-piles with a cast in place deck and a total length of 378 ft. The bridge roadway curb to curb clear width is 23.8ft with a 1.1 ft sidewalk and the sufficiency rating is 44.32.
 - b. Proposed bridge will be 44ft wide clear width (47' -3" out to out),consisting of two 12' travel lanes and 10' shoulders. Bridge is expected to have 10 – 40'-0" T-Beam spans on steel H-piles for a total length of approximately 400ft.
- XI. DESIGN VARIANCES/EXCEPTIONS
- a. None expected
- XII. RIGHT OF WAY DISPLACEMENTS/RELOCATIONS
- a. 4 Parcels
 - b. No Displacements
- XIII. UTILITIES
- a. A gas line is attached to the bridge on the North side and a telephone line attached to the bridge on the South side.
 - b. There will be no impact on the transmission lines or the underground gas line.
- XIV. ALTERNATES CONSIDERED AND REASONS FOR REJECTION
- a. Build proposed bridge on the existing alignment by closing the road and detouring traffic off-site – No Adequate off-site detour.
 - b. Build proposed bridges parallel and offset to the north from the existing alignment and Build proposed bridges parallel and offset to the south from the existing alignment – Would result in bad geometry (induce Horizontal curve on tangent)
 - c. No build Alternative – long term maintenance and repair costs
- XV. LEVEL OF ENVIRONMENTAL ANALYSIS AND CONCERNS – Jennie Agerton
- a. There are no wetlands on the project.
 - b. The project is a CE project.
 - c. There are no historical resources, and
 - d. There are no ecological resources that require an ecological survey.
- XVI. PROJECT DEVELOPMENT SCHEDULE
- a. Environmental Document – April 2007?
 - b. PFPR – May 2007
 - c. R/W Plans - August 2007
 - d. Construction – September 2008
- XVII. PUBLIC HEARING
- a. Not Held
- XVIII. COMMENTS FROM ATTENDEEES
- a. Glenn suggests that Lowe design the detour bridge on the south side of the bridge and compare the costs. It may be possible to leave the power poles in place along the north side of the bridge.
 - b. Richard did not expect the vertical alignment to change much; however, it will depend on the hydrology study.
 - c. Engineering Services provided an updated bridge sufficiency rating of 10.75.
 - d. Richard requested that Yun provide him with an updated bridge sheet for all 3 bridge projects.
 - e. Yun wants an L&D statement added to the concept report.

Estimate Report for file "333140"

Section Pavement

Item Number	Quantity	Units	Unit Price	Item Description	Cost
310-5120	322	SY	13.50	GR AGGR BASE CRS, 12 INCH, INCL MATL	4347.00
402-3131	252	TN	100.00	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	25200.00
402-3143	48	TN	100.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL	4800.00
402-3190	34	TN	100.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	3400.00
413-1000	3334	GL	1.23	BITUM TACK COAT	4100.82
Section Sub Total:					\$41,847.82

Section Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1	AC	1600.00	TEMPORARY GRASSING	1600.00
163-0240	3	TN	203.42	MULCH	610.26
163-0300	2	EA	1810.13	CONSTRUCTION EXIT	3620.26
163-0502	2	EA	409.00	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 2	818.00
163-0520	200	LF	13.92	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	2784.00
163-0521	20	EA	160.13	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	3202.60
165-0010	300	LF	1.08	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	324.00
165-0030	4800	LF	1.31	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	6288.00
167-1000	2	EA	1688.38	WATER QUALITY MONITORING AND SAMPLING	3376.76
167-1500	24	MO	911.79	WATER QUALITY INSPECTIONS	21882.96
170-1000	340	LF	11.81	FLOATING SILT RETENTION BARRIER	4015.40
171-0010	300	LF	1.99	TEMPORARY SILT FENCE, TYPE A	597.00
171-0030	4800	LF	3.36	TEMPORARY SILT FENCE, TYPE C	16128.00
700-6910	1	AC	1600.00	PERMANENT GRASSING	2400.00
700-7000	10	TN	58.63	AGRICULTURAL LIME	586.30
700-7010	10	GL	18.78	LIQUID LIME	187.80
700-8000	3	TN	283.70	FERTILIZER MIXED GRADE	851.10
700-8100	600	LB	1.65	FERTILIZER NITROGEN CONTENT	990.00
716-2000	3000	SY	1.12	EROSION CONTROL MATS, SLOPES	3360.00
Section Sub Total:					\$73,622.44

Section Roadway

Item Number	Quantity	Units	Unit Price	Item Description	Cost
153-1300	1	EA	60000.00	FIELD ENGINEERS OFFICE TP 3	60000.00
201-1500	1	LS	7500.00	CLEARING & GRUBBING -	7500.00
208-0200	30	CY	40.00	ROCK EMBANKMENT	1200.00
210-0100	1	LS	47200.00	GRADING COMPLETE -	47200.00
433-1000	200	SY	151.20	REINF CONC APPROACH SLAB	30240.00
441-0014	110	SY	31.80	DRIVEWAY CONCRETE, 4 IN TK	3498.00
441-0204	1000	SY	30.64	PLAIN CONC DITCH PAVING, 4 IN	30640.00
441-4020	19	SY	33.11	CONC VALLEY GUTTER, 6 IN	629.09
550-2240	50	LF	30.68	SIDE DRAIN PIPE, 24 IN, H 1-10	1534.00
550-3624	4	EA	866.59	SAFETY END SECTION 24 IN, SIDE DRAIN, 6:1 SLOPE	3466.36
603-7000	90	SY	4.25	PLASTIC FILTER FABRIC	382.50
634-1200	10	EA	93.25	RIGHT OF WAY MARKERS	932.50
641-1200	2700	LF	15.23	GUARDRAIL, TP W	41121.00
641-5001	4	EA	535.08	GUARDRAIL ANCHORAGE, TP 1	2140.32
641-5012	4	EA	1674.76	GUARDRAIL ANCHORAGE, TP 12	6699.04

Section Sub Total: \$237,182.81

Section Traffic and Detour

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	162700.00	TRAFFIC CONTROL -	162700.00
210-0100	1	LS	83000.00	GRADING COMPLETE - for detour	83000.00
402-3140	216	TN	100.00	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL	21600.00
402-3190	352	TN	100.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	35200.00
541-5438	1	LS	328900.00	DETOUR BRIDGE, 24 FT WIDE	328900.00
635-1000	1400	LF	83.56	BARRICADES	116984.00

Section Sub Total: \$748,384.00

Section Signing and Marking

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1029	50	SF	17.89	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 3	894.50
636-2070	80	LF	7.32	GALV STEEL POSTS, TP 7	585.60
652-5451	3200	LF	0.15	SOLID TRAFFIC STRIPE, 5 IN, WHITE	480.00
652-5452	3200	LF	0.15	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	480.00
654-1001	24	EA	3.58	RAISED PVMT MARKERS TP 1	85.92
654-1003	20	EA	3.77	RAISED PVMT MARKERS TP 3	75.40

Section Sub Total: \$2,601.42

Section Bridge

Item Number	Quantity	Units	Unit Price	Item Description	Cost
540-1102	1	LS	219300.00	REMOVAL OF EXISTING BR, BR NO -	219300.00
543-1100	1	LS	603000.00	CONSTR OF BRIDGE - COMPLETE - TO BOTTOM OF CAP	603000.00

Section Sub Total: \$822,300.00

Total Estimated Cost: \$1,925,938.49

Subtotal Construction Cost	\$1,925,938.49
E&C Rate 10.0 %	\$192,593.85
Inflation Rate 0.0 % @ 0.0 Years	\$0.00
Total Construction Cost	\$2,118,532.34
Right Of Way	\$20,000.00
ReImb. Utilities	\$50,000.00
Grand Total Project Cost	\$2,188,532.34

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 171-0012-0

Lamar

SUFF. RATING

10.75

Programming Data

201 Project No.: SAP-895 (8)
 202 Plans Available: 4
 249 Prop. Proj. No.: BRST-005-1 (32)
 250 Approval Status: 0000
 251 P.I. No.: 333140-
 252 Contract Date: 02/01/2006
 260 Seismic No.: 00000
 75 Type Work: 34 1
 94 Bridge Imp. Cost: \$ 372
 95 Roadway Imp. Cost: \$ 63
 96 Total Imp Cost: \$ 603
 76 Imp. Length: 000589
 97 Imp. Year: 1990
 114 Future ADT: 003705 Year: 2024

Measurements

* 29 ADT: 002470 Year: 2004
 109 % Trucks: 15
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0027
 * 49 Structure Length: 378
 51 Br. Rwdy. Width: 23.80
 52 Deck Width: 27.80
 * 47 Tot. Horz. Cl.: 23.80
 50 Curb/Sdewlk Width: 1.10/1.10
 32 Approach Rdwy Width: 022
 * 229 Shoulder Width:
 Rear Lt: 7.00 Type: 8 Rt: 7.00
 Fwd Lt: 7.00 Type: 8 Rt: 7.00
 Pavement Width:
 Rear: 22.00 Type: 2
 Fwd: 22.00 Type: 2
 Intersection Rear: 0 Fwd: 0
 36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 2
 App. Rail End: 2
 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 Underl. Rt: N 99.90
 56 Lateral Underl. 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: 7.80
 Deck Thick Approach: 0.00
 246 Overlay Thickness: 2.00
 212 Year Last Painted: Sup: 1999 Sub: 1999

Ratings

65 Inventory Rating Method: 2
 63 Inventory Rating Method: 2
 66 Inventory Type: 2 Rating: 13
 64 Operating Type: 2 Rating: 29
 231 Calculated Loads
 H-Modified: 15 1
 HS-Modified: 25 0
 Type 3: 27 1
 Type 3s2: 40 0
 Timber: 32 1
 Piggyback: 40 0
 261 H Inventory Rating: 10
 262 H Operating Rating: 15
 67 Structural Evaluation: 2
 58 Deck Condition: 7
 59 Superstructure Condition: 4
 * 227 Collision Damage: 0
 60A Substructure Condition: 6
 60B Scour Condition: 7
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond: 7
 68 Deck Geometry: 2
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 8
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 3
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: T
 232 Posted Loads H-Modified: 15
 HS-Modified: 00
 Type 3: 27
 Type3s2: 00
 Timber: 32
 Piggyback: 00
 255 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: 00000
 Area Of Opening: 000000
 U
 113 Scour Critical:
 216 Water Depth: 01.8 Br. Height: 24.2
 222 Slope Protection: 1
 221 Spur Dikes Rear: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover:
 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.: 171-00018D-001.15E

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 171-0012-0

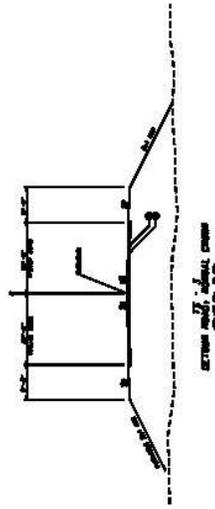
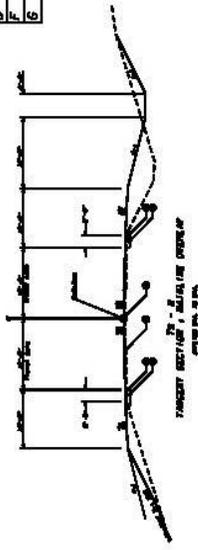
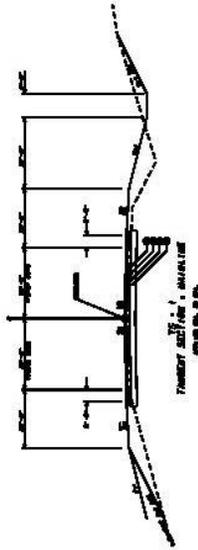
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SUFF. RATING

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Location & Geography

* Structure I.D.No:	171-0012-0	* 104 Highway System:	0	Signs & Attachments	
* 200 Bridge Information:	07	* 26 Functional Classification:	06	225 Expansion Joint Type:	02
* 6A Feature Int:	POTATO CREEK	* 204 Federal Route Type:	F No.: 00051	242 Deck Drains:	1
* 6B Critical Bridge:	0	* 105 Federal Lands Highway:	0	243 Parapet Location:	0
* 7A Route Number Carried:	SR00018	* 110 Truck Route:	1	Height:	0.00
* 7B Facility Carried:	SR 18	* 206 School Bus Route:	1	Width:	0.00
* 9 Location:	4 MI W OF BARNESVILLE	* 217 Benchmark Elevation:	00000.00		
2 DOT District:	3	* 218 Datum:	0	238 Curb:	1.10 1
* 207 Year Photo:	2001	* 19 Bypass Length:	0.5	239 Handrail:	1 1
* 91 Inspection Frequency:	24 Date: 03/22/2005	* 20 Toll:	3	* 240 Median Barrier Rail:	0
* 92A Fraet Crit Insp Freq:	00 Date: 02/01/1901	* 21 Maintenance:	01	241 Bridge Median Height:	0.00
* 92B Underwater Insp Freq:	00 Date: 02/01/1901	* 22 Owner:	01	Width:	0.00
* 92C Other Spc. Insp Freq:	00 Date: 02/01/1901	* 31 Design Load:	2		
* 4 Place Code:	00000	* 37 Historical Significance:	5		
* 5 Inventory Route (O/U):	1	* 205 Congressional District:	08	* 230 Guardrail Loc Dir Rear:	3
Type:	3	* 27 Year Constructed:	1939	Fwrd:	3
Designation:	1	* 106 Year Reconstructed:	0000	Oppo Dir Rear:	0
Number:	00018	* 33 Bridge Median:	0	Fwrd:	0
Direction:	0	* 34 Skew:	00		
* 16 Latitude:	33-04.1	* 35 Structure Flared:	0	244 Approach Slab:	3
* 17 Longitude:	084-13.9	HMMS Prefix: SR		224 Retaining Wall:	0
98 Border Bridge:	000 %Shared: 00	* 38 Navigation Control:	0	233 Posted Speed Limit:	55
99 ID Number:	0000000000000000	* 213 Special Steel Design:	0	236 Warning Sign:	1
* 100 STRAHNET:	0	* 267 Type of Paint:	5	234 Delinicator:	1
12 Base Highway Network:	1	* 42 Type of Service on:	1	235 Hazard Boards:	1
13A LRS Inventory Route:	1711001800	Under:	5	237 Utilities Gas:	31
13B Sub Inventory Route:	0	214 Movable Bridge:	0	Water:	00
* 101 Parallel Structure:	N	203 Type Bridge:	E-N-M-O	Electric:	00
* 102 Direction of Traffic:	2	* 259 Pile Encasement:	2	Telephone:	32
* 264 Road Inventory Mile Post:	001.11	43 Structure Type Main:	4 02	Sewer:	00
* 208 Inspection Area:	03	45 No. Spans Main:	014		
Engineer's Initial:	jal	44 Structure Type Appr:	0 00	247 Lighting Street:	0
		46 No. Spans Appr:	0000	Navigation:	0
		226 Bridge Curve Horz:	0	Aerial:	0
* Location I.D. No.:	171-00018D-001.15E	111 Pier Protection:	0		
		107 Deck Structure Type:	1		
		108 Wearing Surface Type:	6	* 248 County Continuity No.:	00
		Membrane:	8		
		Protection:	8		

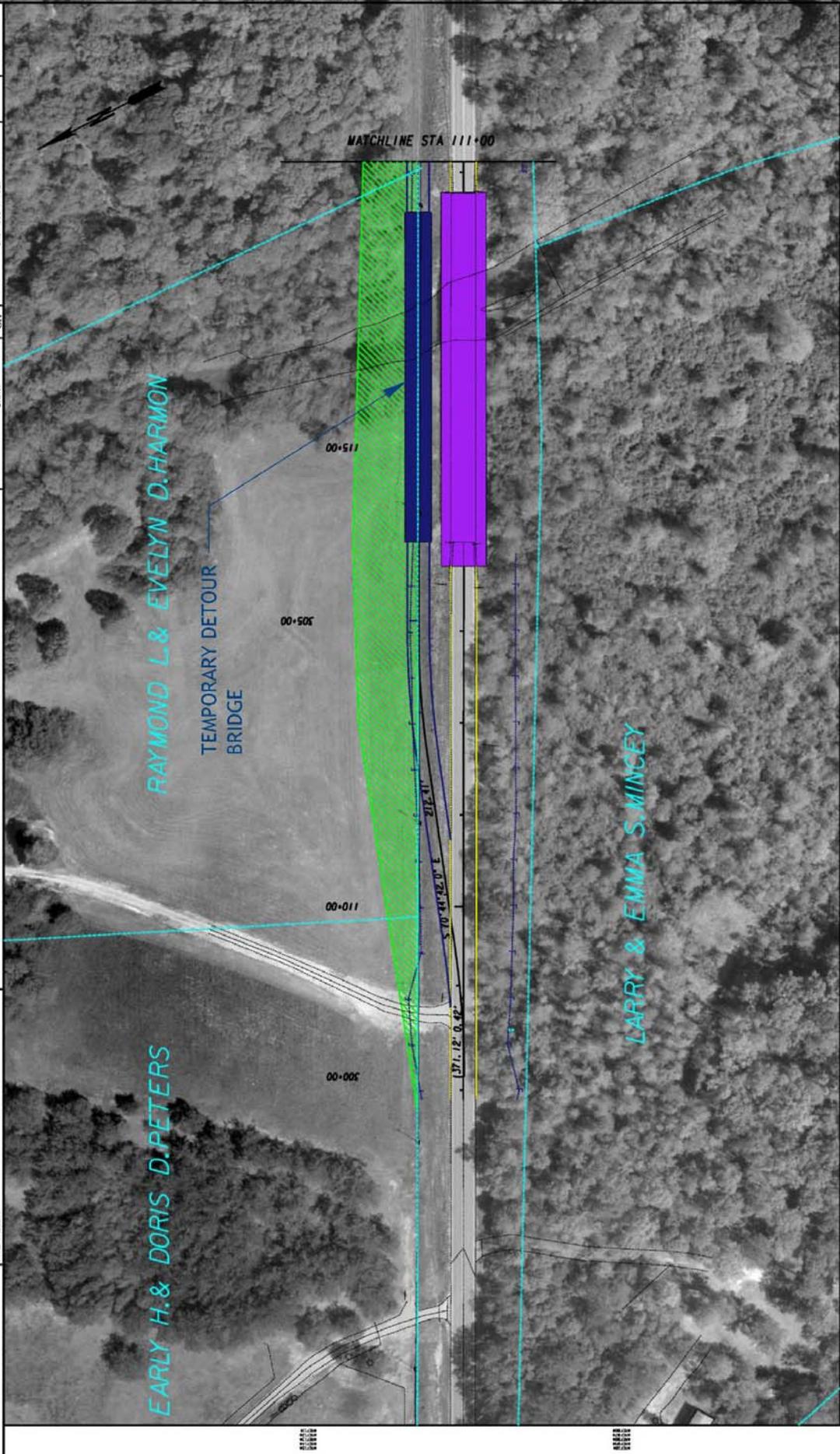


PAVEMENT MATERIAL SCHEDULE

A	RECYCLED ASPHALT CONC. 9.9 MM SUPERPAVE. 6P2 ONLY. 135 LBS/SY. DESIGN MIX LEVEL A
B	RECYCLED ASPHALT CONC. 19 MM SUPERPAVE. 6P1 OR 6P2. 220 LBS/SY. DESIGN MIX LEVEL A
C	RECYCLED ASPHALT CONC. 25 MM SUPERPAVE. 6P1 OR 6P2. 330 LBS/SY. DESIGN MIX LEVEL A
D	GRADED AGGREGATE BASE COURSE 72 INCHES THICK
F	ASPHALTIC CONCRETE LEVELING, AS REQUIRED
G	RECYCLED ASPHALT CONC. 25 MM SUPERPAVE. 6P1 OR 6P2. 550 LBS/SY. DESIGN MIX LEVEL A

			STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE/CONSULTANT DESIGN TYPICAL SECTIONS SR 18 BRIDGE OVER POTATO CREEK										
REVISION DATES													
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5-01													

TITLE	DATE	BY	APP'D	NO.
PROJECT NUMBER				
STATE	COUNTY	SECTION	SHEET NO.	TOTAL SHEETS
GA	LAMAR			



STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: CONSULTANT DESIGN	REVISION DATES		LOWE ENGINEERS 2000 PINEBROOK PARKWAY, SUITE 400, ATLANTA, GA 30328 PHONE 770.657.5900
SR 18 BRIDGE OVER POTATO CREEK			

