

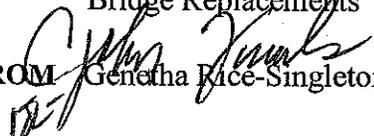
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 231670- & 231680-, Screven County
BRN00-0068-02(023), BRN00-0068-02(024),
SR 73/US 301 over Ogeechee River Overflow
And over Norfolk Southern Railroad (620143J)
Bridge Replacements

OFFICE: Program Control

DATE: December 15, 2009


FROM Genetha Rice-Singleton, Program Control Administrator

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
Paul Liles
George Brewer
Anthony Collins
Michelle Wright
BOARD MEMBER

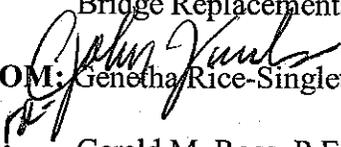
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 231670- & 231680-, Screven County
BRN00-0068-02(023), BRN00-0068-02(024),
SR 73/US 301 over Ogeechee River Overflow
And over Norfolk Southern Railroad (620143J)
Bridge Replacements

OFFICE: Program Control

DATE: November 13, 2009

FROM:  Genetha Rice-Singleton, Program Control Administrator

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

SUBJECT: PROJECT CONCEPT REPORT

These combined projects are the replacement of two narrow and structurally deficient bridges on SR 73/US 301 over Ogeechee River Overflow and Norfolk Southern Railroad (620143J) near the Bulloch-Screven County line. This route is classified as a rural principal arterial and is one of only a few routes in the area that provides motorists a way across the river. The existing Ogeechee River Overflow bridge, constructed in 1947, is 300' x 29.8' with a sufficiency rating of 18. The existing bridge over Norfolk Southern Railroad, constructed in 1947, is 170' x 29.8' with a sufficiency rating of 47. SR 73/US 301 at this location is a rural two lane roadway with 12' lanes, variable width grass shoulders and a posted speed of 55 MPH. The base year traffic (2015) along this section of SR 73/US 301 is 7,700 VPD. The design year (2035) volumes are projected to be 12,700 VPD. The proposed speed design is 55 MPH.

The project proposes to relocate SR 73/US 301 west of its present location extending a total of 0.92 miles. In addition, the construction will replace the existing bridges over Ogeechee River Overflow and Norfolk Southern Railroad with new 300' x 40' and 170' x 40' concrete bridges, located just west of the existing structures. The relocated SR 73/US 301 will consist of two, 12' lanes with 10' rural shoulders (6.5' paved) on a variable 110' to 160' of proposed right-of-way. Traffic will be maintained along the existing roadway during construction. The project alignment will accommodate the future widening of SR 73/US 301 under projects NH000-0068-02(20), (25) and (26). The future typical section will consist of two, 12' lanes in each direction separated by a 32' depressed grassed median.

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 these projects are:

BHN00-0068-02(23), P.I. No. 231670-, Screven County

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	\$ 3,276,000	\$ 945,000	L1C0	LR
Right-of-way	\$45,000	\$87,672	L1C0	LR
Utilities	\$195,000	-0-		

BHN00-0068-02(24), P.I. No. 231680-, Screven County

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	\$ 1,972,000	\$ 1,597,000	L1C0	LR
Right-of-way	\$41,000	\$79,872	L1C0	LR
Utilities	\$65,000	-0-		

* Screven County signed LGPA for utilities 2-25-03/ Rescission Letter sent to Screven County 12-15-2005

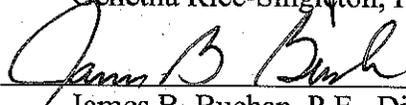
I recommend the project concepts be approved.

GRS: JDQ
 Attachment
 CONCUR



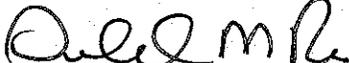
Genetha Rice-Singleton, Program Control Administrator

CONCUR



James B. Buchan, P.E., Director of Engineering

APPROVED



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

NOTICE OF LOCATION AND DESIGN APPROVAL

**BRN00-0068-02(024), SCREVEN COUNTY
P. I. NUMBER 231680**

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: *DECEMBER 15, 2009*

Project BRN00-0068-02(024) is the Bridge Replacement of SR 73/US 301/ H. Walstein Parker Memorial Highway & Statesboro Highway over Norfolk-Southern Railroad (620143J) South of SR 17/Scarboro Highway & Effingham Highway. The purpose of this project is to replace a structurally deficient and functionally obsolete bridge on SR 73/US 301 over the Norfolk-Southern Railroad.

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:

**Angie Cooper, Area Engineer
E-mail: acooper@dot.ga.gov
Georgia Department Of Transportation
685 Kite Road
Swainsboro, Georgia 30401
(478) 289-2614**

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:

**Otis Clark
Office of Program Delivery/Consultant Design
E-mail: oclark@dot.ga.gov
Georgia Department of Transportation
One Georgia Center
630 West Peachtree Street
Atlanta, Georgia 30334-1002
(404) 631-1577**

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE **BRN00-0068-02(024), SCREVEN COUNTY**
SR 73/US 301 Bridge Replacement over Norfolk-Southern
Railroad (620143J) South of SR 17
P.I. No. 231680

OFFICE Program Delivery

DATE June 11, 2009

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

SH
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).

Distribution:

Project Review Engineer
State Environment/Location Engineer
State Traffic Safety and Design Engineer
State Transportation Planning Administrator
State Transportation Financial Management Administrator
State Bridge Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Program Delivery

PROJECT CONCEPT REPORT

Project Number: BRN00-0068-02(024)

County: Screven

P. I. Number: 231680

Federal Route Number: 301

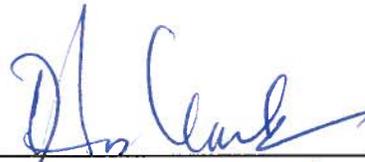
State Route Number: 73

Description: Bridge Replacement of SR 73/US 301/H. Walstein Parker Memorial Highway & Statesboro Highway over Norfolk-Southern Railroad (620143J) South of SR 17/Scarboro Highway & Effingham Highway.

Recommendation for approval:

DATE 6-11-09

DATE 6-17-09



Project Manager



Office Head

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

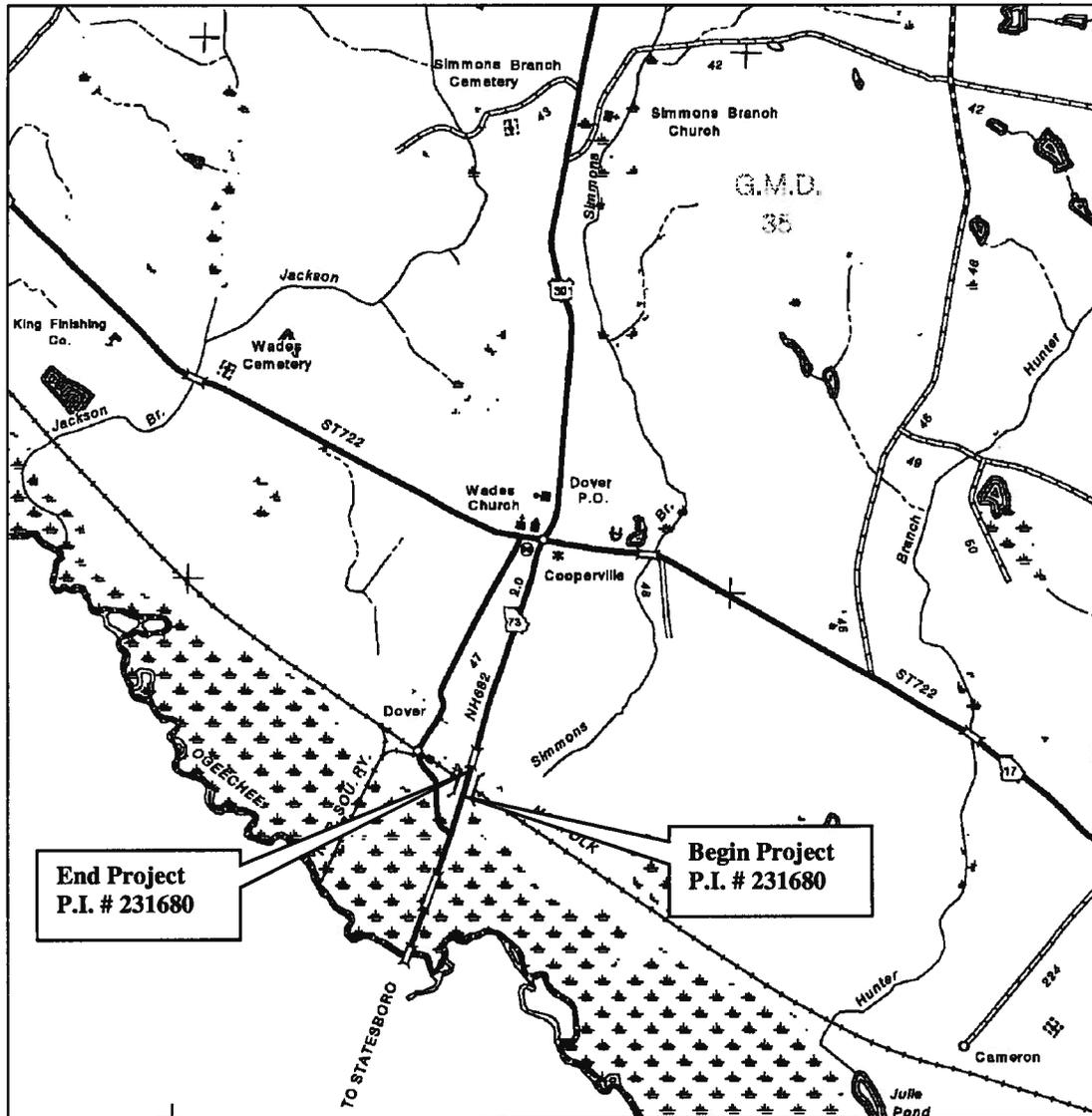
DATE _____

Project Review Engineer

DATE _____

State Bridge Design Engineer

Project Concept Report page 2
Project Number: BRN00-0068-02(024)
P. I. Number: 231680
County: Screven



Location Map

Project: BRN00-0068-02(024)

PI No.: 231680

Description: Bridge replacement on SR 73/US 301/ H. Walstein Parker Memorial Highway & Statesboro Highway over Norfolk-Southern Railroad (620143J) South of SR17

Project Concept Report page 3
Project Number: BRN00-0068-02(024)
P. I. Number: 231680
County: Screven

Need and Purpose: The proposed bridge replacement project on State Route (SR) 73/US 301 over Norfolk-Southern Railroad would replace a structurally deficient and functionally obsolete bridge. The bridge sufficiency rating on bridge structure identification number 251-0025-0 is 47.17. 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 BRN00-0068-02(024) is the Bridge Replacement of SR 73/US 301/H. Walstein Parker Memorial Highway & Statesboro Highway over Norfolk-Southern Railroad (620143J) South of SR 17/Scarboro Highway & Effingham Highway. The total project length is approximately 2500-ft (0.48 miles). The proposed new bridge is to be built on new alignment to the left (west) side of the existing bridge. The existing railroad bridge is at mile post 0.78. The purpose of this project is to replace a structurally deficient and functionally obsolete bridge on SR 73/US 301 over the Norfolk-Southern Railroad. The sufficiency rating of the bridge is 47.17.

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

PDP Classification: Major _____ Minor X

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

Functional Classification: Rural Principal Arterial

U. S. Route Number(s): 301 **State Route Number(s):** 73

Traffic (AADT):

Current Year: (2015) 7,700 Design Year: (2035) 12,700

Existing design features:

- Typical Section: Two 12-ft wide travel lanes, variable width rural shoulders.
- Posted speed 55 mph Minimum radius for curve: 5000-ft.
- Maximum super-elevation rate for curve: 6 %
- Maximum grade: 6 %
- Width of right-of-way: 80-ft.
- Major structures: 170-ft long x 29.8-ft wide bridge over Norfolk-Southern Railroad, with a sufficiency rating of 47.17
- Major interchanges or intersections along the project: None
- The total project length is approximately 2,500-ft (0.48 miles) and goes from mile post 0.54 to mile post 1.02 in Screven County.

Proposed Design Features:

- Proposed typical section(s):
 - Two twelve-foot wide travel lanes with ten-foot wide rural shoulders with six-foot paved. This project is a precursor to a larger scale project that will have four twelve-foot wide travel lanes with a thirty-two-foot wide depressed median, ten-foot wide outside rural shoulders with six-foot paved, and six-foot inside rural shoulders with two-foot paved
- 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 super-elevation rate for curve 6%
- Proposed Maximum degree of curve 5.4 Maximum degree allowable 5.4
- Right-of-Way
 - Width 110-160 ft.
 - Easements: Temporary (X), Permanent (X), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 4 +/- Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges: Bridge over Norfolk-Southern Railroad
- 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: BRN00-0068-02(024)
P. I. Number: 231680
County: Screven

- Design Variances: None anticipated
- Environmental concerns – Based on field surveys, observed in the vicinity of the bridges was one pond east of the existing alignment, 5 wetlands east and west of the existing alignment, and 4 streams east and west of the existing alignment, including one stream that was observed to parallel the existing alignment from the vicinity of the overflow bridge to the bridge north of the RR bridge, where the stream crosses under the existing alignment. There is potential habitat for wood stork and Canby's dropwort east of the existing alignment. No historic resources were observed in the vicinity of the bridges. Potential impacts to waters of the U.S. have not been quantified.
- 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: Statesboro Gas, Norfolk Southern Rail Road, Planters Rural Telephone Co-Op, Bulloch Rural Telephone Co-Op, Un-named Electrical Transmission

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 2 Utility Office & Local Utilities
- Letting to contract – Contract Administration
- Supervision of construction – GDOT District 2, Area 2
- Providing material pits – Contractor
- Providing detours – GDOT District 2, Area 2

Coordination

- Concept meeting date and brief summary.
- Local government comments, none to date.

Project Concept Report page 6
Project Number: BRN00-0068-02(024)
P. I. Number: 231680
County: Screven

- Other projects in the area –
 - BRN00-0068-02(023), Screven County, PI No. 231670 – Bridge Replacement on US 301/SR 73 over Ogeechee River Overflow.
 - NH000-0068-02(025), Bulloch & Screven County, PI No. 532630 – Widening and Reconstruction of US 301/SR 73 north of Statesboro from CR 445 to SR 17
 - STP00-0068-02(026), Screven County, PI No. 231780 – Widening and Reconstruction of US 301/SR 73 from SR 17 to existing 4-lane at Sylvania Bypass.
 - NH000-0068-02(020) Bulloch County, P.I. No. 521800 – Widening and Reconstruction of SR 73/US 301 from Packing House Rd to N of CR 445 & Bridge.
 - NH000-0005-05(037)SP Bulloch County, P.I. No. 522830 - Statesboro North Bypass from SR 26/US 80 East to SR 73/US 301.
- Railroads: Norfolk-Southern Railroad
- Other coordination to date, none

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 8 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: 9 Months.
- List other major items that will affect the project schedule: Railroad review time

Other alternates considered:

- No build
- Construct bridge on right (east) side of the existing bridge heading northeast.
- Construct a detour bridge on left (west) side of the existing bridge heading northeast. Remove existing bridge and build a new bridge in the same location as the existing bridge.

Comments:

- The No-Build Alternative is not a viable option because the existing bridge is structurally deficient and in need of replacement.
- The existing US 301/SR 73 alignment shifts approximately 50 feet to the east immediately north of the first Ogeechee River Overflow Bridge. Constructing the new bridge over Norfolk-Southern Railroad to the east side of the existing bridge would require an additional 50-foot shift to the east, creating an undesirable geometry for a permanent highway. The shift also lengthens the alignment by approximately 15 feet. Building the bridge to the east would cause approximately 1500 linear feet of additional

Project Concept Report page 7
Project Number: BRN00-0068-02(024)
P. I. Number: 231680
County: Screven

longitudinal stream impacts. In addition, the shift would encroach on the Georgia Power Company transmission line easement, likely requiring the relocation of several towers.

- Constructing the US 301/SR 73 Bridge over Norfolk-Southern Railroad in the same location as the existing bridge would require a temporary detour bridge. This would allow traffic to be temporarily staged off of the existing bridge. It would also allow for the existing bridge to then be removed and replaced with the newly proposed bridge. After construction, traffic would be shifted back to the new bridge and the detour bridge would be removed afterwards. In total, this would require two new bridges to be built and two removed, which would increase the overall cost by \$898,670.

In order to avoid the undesirable shifts discussed in the previous paragraphs and to take advantage of the existing alignment, the new alignment shall travel northward continuous from the southernmost Ogeechee River Overflow Bridge, remaining west of the existing shift. This maintains the existing bridge over Norfolk Southern to serve as a detour while the new bridge is being constructed.

Attachments:

1. Need and Purpose Statement
2. Cost Estimates:
 - a. Construction including E&C
 - b. Construction including E&C for Eastern Alternative
3. Typical sections,
4. Traffic Diagrams,
5. Bridge inventory,
6. Minutes of Concept meetings
7. Location and Design Notice

Project Concept Report page 8
 Project Number: BRN00-0068-02(024)
 P. I. Number: 231680
 County: Screven

SCORING RESULTS AS PER TOPPS 2440-2

Project Number:		County:		PI No.:	
Report Date:		Concept By:			
		DOT Office:			
<input type="checkbox"/> CONCEPT					
		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 73/US 301 OVER NORFOLK-SOUTHERN RAILROAD
BRN00-0068-02(024), PI # 231680, SCREVEN COUNTY

Project Description

The need and purpose of this proposed project is to improve the bridge infrastructure at State Route (SR) 73/US 301 at Norfolk Southern Railroad in Screven County, Georgia (Figure 1, Project Location Map). The proposed project would serve to replace the existing bridge (Structure ID 251-0025-0) which has substandard load capacity and deck geometry.

Bridge Characteristics

The existing SR 73 Bridge over the Norfolk Southern Railroad is 170 feet in length and 29.8 feet in width. The SR 73 Bridge over the Norfolk Southern Railroad was constructed in 1943 and has a sufficiency rating of 47.17.

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 structure 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 from 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 73 is a two-lane roadway which provides access between Statesboro and Sylvania through Bulloch and Screven counties. The functional classification of SR 73 is a rural principle arterial and the posted speed limit is 55 mph. The latitude of the existing bridge is 32°34'30" and the longitude is 81°42'36". The bridge over the Norfolk Southern Railroad is located between mile post 0.54 and 1.02 on SR 73. The project is located approximately 8.5 miles north of Statesboro.

Traffic Data

SR 73 has an average traffic volume of approximately 7,000 vehicles per day (VPD). The existing level of service (LOS) is D. The proposed improvements will have a LOS D for the design year. A proposed 4-lane project would add capacity to SR 73 and is proposed to bring the roadway to a LOS A.

Table 1
SR 73 over the Norfolk Southern Railroad
Traffic Volumes (VPD)

	Existing (2007)	Build-Year (2015) Build	Build-Year (2015) No-Build	Design-Year (2035) Build	Design-Year (2035) No-Build
SR 73/US 301 (vpd)	6,100	7,700	7,700	12,700	12,700
24 Hr Truck %	20%	20%	20%	20%	20%
Trucks (vpd)	1,200	1,540	1,540	2,540	2,540
LOS	D	*	D	*	E

Source: 2007 Traffic Count data.

*Note: The LOS does not consider the future 4-lane project on SR 73, which is projected to bring the roadway to LOS A under Build scenarios.

Project Linkages

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

- STP00-0068-02(026), PI No. 231780, US 301/SR 73, From SR 17 to Four-lane at Sylvania Bypass
- NH000-0068-02(025), PI No. 532630, US 301/SR 73, From CR 445 to SR 17
- NH000-0068-02(020), PI NO. 521800, US 301/SR 73, From Packing House Road to North of CR 445 and Bridge, Bulloch/Screven
- NH000-0005-05(037), PI No. 522830, Statesboro Bypass, From SR 26/US 80 to SR 73/US 301

Social/Economic Characteristics

A preliminary environmental justice analysis was completed for the proposed project. Data from the 2000 US Census was used and Block Group 2, Census Tract

9706, in Screven County, Georgia was identified as the study area. Environmental Justice defines minorities as people who describe themselves as Black or African American, American Indian and Alaska Native, Asian, some other race alone, or as belonging to two or more races. Hispanic populations are also considered and are an ethnicity that includes whites. Low-income populations are also included in environmental justice analysis.

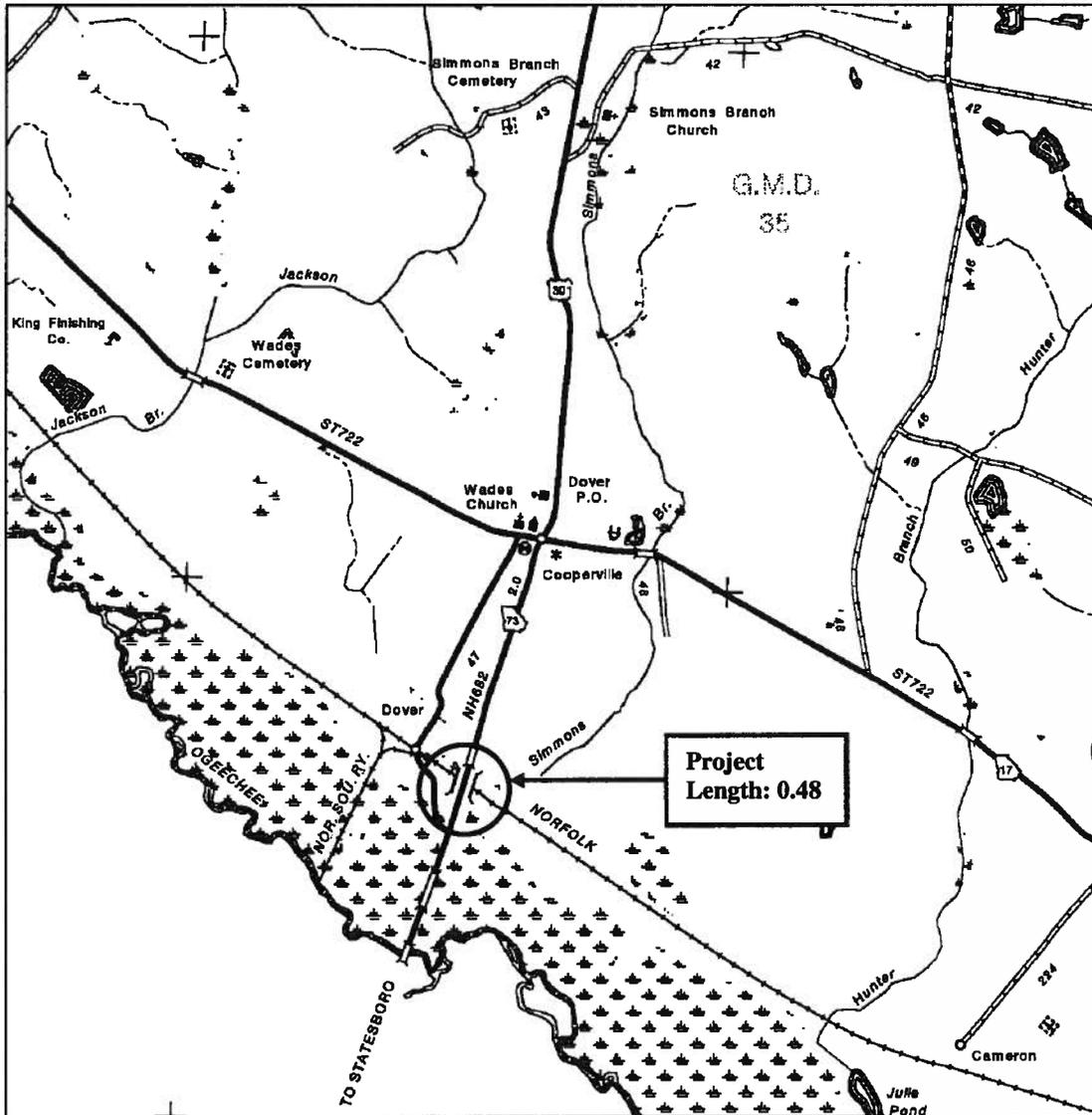
According to the 2000 US Census, the study area minority populations (443 persons) represent 47.3 % of the study area's total population. The 2000 US Census data show that Screven County and the State of Georgia have minority populations of 45.3% (6,963 persons) and 37.3% (3,053,547 persons), respectively. Minorities in the study area consist of people who describe themselves as Black or African American.

According to the 2000 US Census, the study area has 23.7 percent (222 persons) of people living below the poverty level. The 2000 US Census data show that Screven County and the State of Georgia have low-income populations of 20.1% (3,043 persons) and 12.6% (1,033,793 persons), respectively.

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.

FIGURE 1: PROJECT LOCATION MAP – Project No. # 231680, Screven County



Estimate Report for file "Batch 4 - 231680 (Western Shift Alternative)"

Section Roadway					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
201-1500	1	LS	50000.00	CLEARING & GRUBBING - BRN00-0068-02(024)	50000.00
210-0100	1	LS	150000.00	GRADING COMPLETE - BRN00-0068-02(024)	150000.00
310-1101	5896	TN	18.67	GR AGGR BASE CRS, INCL MATL	110078.32
400-3101	706	TN	105.68	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL, GILSONITE MODIFIER & H LIME	74610.08
402-3121	1860	TN	63.14	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	117440.40
402-3190	933	TN	62.66	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	58461.78
413-1000	1050	GL	1.87	BITUM TACK COAT	1963.50
Section Sub Total:					\$562,554.08

Section Traffic Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	60000.00	TRAFFIC CONTROL - BRN00-0068-02(024)	60000.00
641-1100	100	LF	43.12	GUARDRAIL, TP T	4312.00
641-1200	4000	LF	15.31	GUARDRAIL, TP W	61240.00
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:					\$130,435.68

Section Signing and Marking					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-0224	1	LM	1200.00	TRAFFIC CONTROL, SOLID TRAFFIC STRIPE, 5 IN, WHITE	1200.00
150-0227	1	LM	700.00	TRAFFIC CONTROL, SOLID TRAFFIC STRIPE, 5 IN, YELLOW	700.00
Section Sub Total:					\$1,900.00

Section Erosion Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	4	AC	491.10	TEMPORARY GRASSING	1964.40
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	4	EA	512.38	MAINTENANCE OF CONSTRUCTION EXIT	2049.52
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
700-6910	8	AC	920.79	PERMANENT GRASSING	7366.32
700-7000	33	TN	66.75	AGRICULTURAL LIME	2202.75
700-7010	20	GL	20.32	LIQUID LIME	406.40
700-8000	8	TN	379.32	FERTILIZER MIXED GRADE	3034.56
700-8100	400	LB	2.50	FERTILIZER NITROGEN CONTENT	1000.00
716-2000	5000	SY	0.90	EROSION CONTROL MATS, SLOPES	4500.00
Section Sub Total:					\$82,951.17

Section Bridge					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
541-0000	7353	SF	120.00	Bridge 170ft x 43.25ft	882360.00
Section Sub Total:					\$882,360.00

Section Drainage					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
Section Sub Total:					\$0.00

Total Estimated Cost: \$1,660,200.93

Project Number BRN00-0068-02(024)
 PI 231680
 County: Screven

Construction Cost (Base)	\$1,660,200.93
Construction Engineering and Inspection (10%)	\$166,020.09
Construction Contingency (4% from CST Cont. sheet)	\$66,408.04
Total Fuel Adjustment (From worksheet)	\$153,605.14
TOTAL CONSTRUCTION COST	\$2,046,234.20

Utility Costs (Reimbursable)	\$50,000.00
Utility Contingency (30% Reimbursable)	\$15,000.00
TOTAL UTILITY COST	\$65,000.00

TOTAL ROW COST	\$41,000.00
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GRAND TOTAL PROJECT COST	\$2,152,234.20
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Adjustment Summary From work sheet	
Diesel Price Adjustment	\$47,767.66
Unleaded Price Adjustment	\$8,929.16
400 / 402 AC Price Adjustment	\$94,473.00
AC Price Adjustment BT	\$2,435.32
Total Fuel Adjustment	\$153,605.14

Estimate Report for file "Batch 4 - 231680 (Temporary Bridge Alternative)"

Section Roadway					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
201-1500	1	LS	50000.00	CLEARING & GRUBBING - BRN00-0068-02(024)	50000.00
210-0100	1	LS	150000.00	GRADING COMPLETE - BRN00-0068-02(024)	150000.00
310-1101	9700	TN	18.67	GR AGGR BASE CRS, INCL MATL	181099.00
400-3101	210	TN	105.68	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL, GILSONITE MODIFIER & H LIME	22192.80
402-1812	25	TN	69.52	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	1738.00
402-3113	590	TN	67.70	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	39943.00
402-3121	550	TN	63.14	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	34727.00
402-3190	1100	TN	62.66	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	68926.00
413-1000	1300	GL	1.87	BITUM TACK COAT	2431.00
Section Sub Total:					\$551,056.80

Section Traffic Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	90000.00	TRAFFIC CONTROL - BRN00-0068-02(024)	90000.00
641-1100	100	LF	43.12	GUARDRAIL, TP T	4312.00
641-1200	4000	LF	15.31	GUARDRAIL, TP W	61240.00
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:					\$160,435.68

Section Signing and Marking					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-0224	1	LM	1200.00	TRAFFIC CONTROL, SOLID TRAFFIC STRIPE, 5 IN, WHITE	1200.00
150-0227	1	LM	700.00	TRAFFIC CONTROL, SOLID TRAFFIC STRIPE, 5 IN, YELLOW	700.00
Section Sub Total:					\$1,900.00

Section Erosion Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	4	AC	491.10	TEMPORARY GRASSING	1964.40
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	4	EA	512.38	MAINTENANCE OF CONSTRUCTION EXIT	2049.52
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
700-6910	8	AC	920.79	PERMANENT GRASSING	7366.32
700-7000	33	TN	66.75	AGRICULTURAL LIME	2202.75
700-7010	20	GL	20.32	LIQUID LIME	406.40
700-8000	8	TN	379.32	FERTILIZER MIXED GRADE	3034.56
700-8100	400	LB	2.50	FERTILIZER NITROGEN CONTENT	1000.00
716-2000	5000	SY	0.90	EROSION CONTROL MATS, SLOPES	4500.00
Section Sub Total:					\$82,951.17

Section Bridge					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
540-1102	1	LS	195000.00	REMOVAL OF EXISTING BR, DETOUR BRIDGE	195000.00
540-1102	1	LS	110000.00	REMOVAL OF EXISTING BR, BR NO - 1	110000.00
541-0000	7353	SF	120.00	NEW BRIDGE 170ft x 43.25ft	882360.00
541-0001	1	LS	480000.00	DETOUR BRIDGE - BRN00-0068-02(024)	480000.00
Section Sub Total:					\$1,667,360.00

Section Drainage					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
Section Sub Total:					\$0.00

Total Estimated Cost: \$2,463,703.65

Project Number BRN00-0068-02(024)

PI 231680

County: Screven

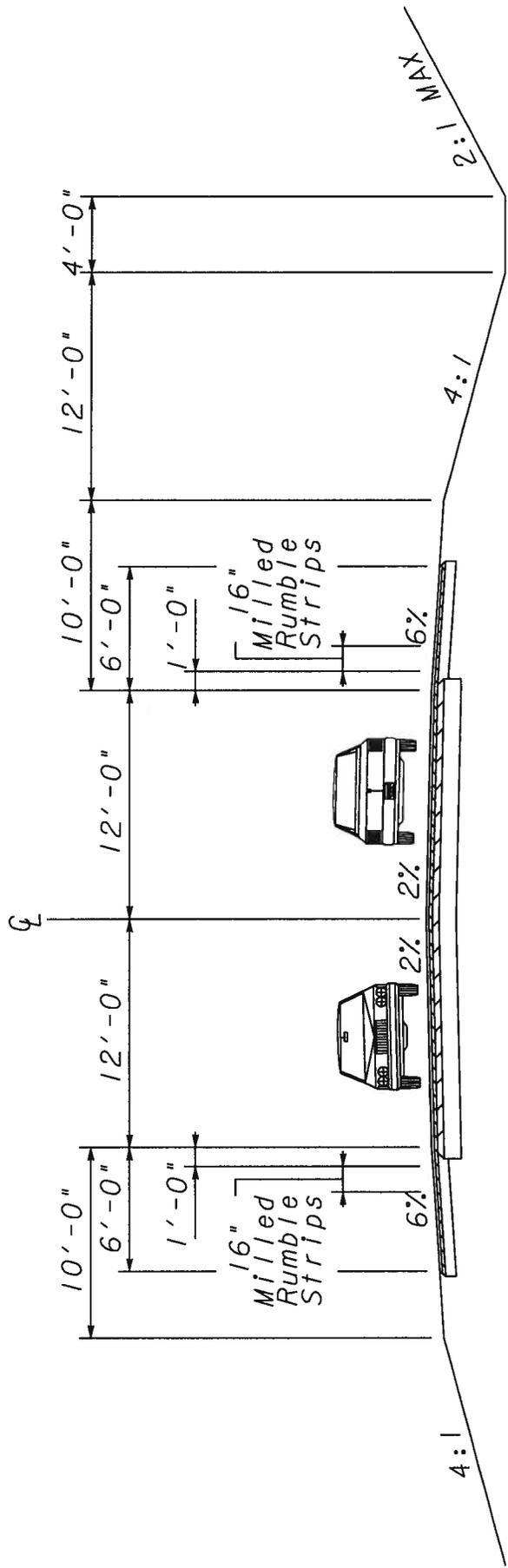
Construction Cost (Base)	\$2,463,703.65
Construction Engineering and Inspection (10%)	\$246,370.37
Construction Contingency (4% from CST Cont. sheet)	\$98,548.15
Total Fuel Adjustment (From worksheet)	\$136,280.26
TOTAL CONSTRUCTION COST	\$2,944,902.42

Utility Costs (Reimbursable)	\$50,000.00
Utility Contingency (30% Reimbursable)	\$15,000.00
TOTAL UTILITY COST	\$65,000.00

TOTAL ROW COST	\$41,000.00
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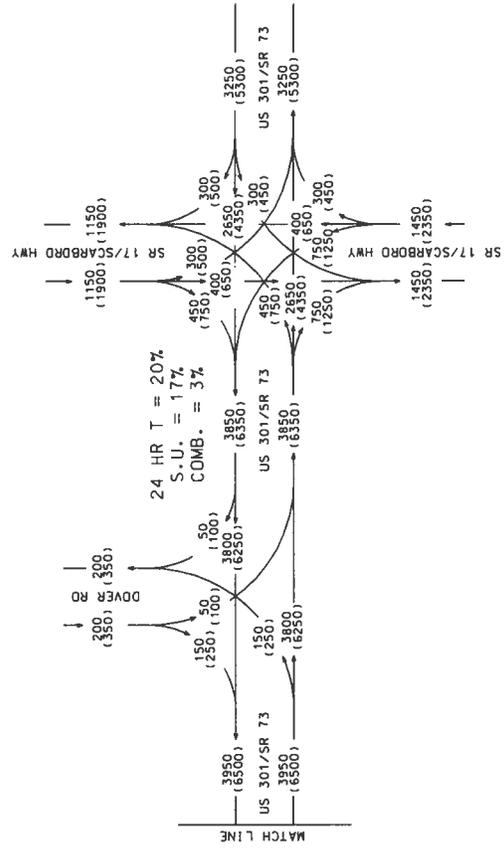
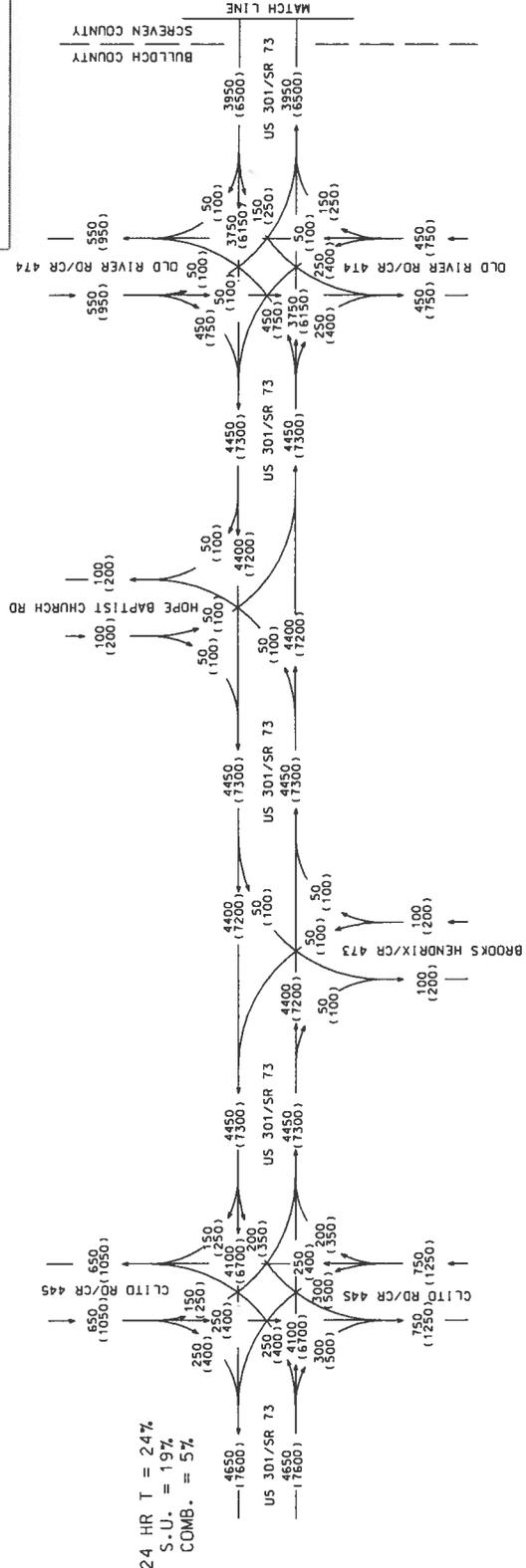
GRAND TOTAL PROJECT COST	\$3,050,902.42
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Adjustment Summary From work sheet	
Diesel Price Adjustment	\$56,186.64
Unleaded Price Adjustment	\$10,928.46
400 / 402 AC Price Adjustment	\$66,150.00
AC Price Adjustment BT	\$3,015.16
Total Fuel Adjustment	\$136,280.26



TYPICAL SECTION
NOT TO SCALE

<p>HNTB 316 MORTMORSE PARKWAY, NW 400 MORTMORSE, SUITE 600 ATLANTA, GEORGIA 30327</p>	<p>STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF PROGRAM DELIVERY</p>																				
	<p>TYPICAL SECTIONS PROJECT: SR 73/ US 301 COUNTY: SCREVEN</p>																				
<p>REVISION DATES</p> <table border="1"> <tr><td> </td><td> </td></tr> </table>																					<p>DATE: 11/28/18 DRAWN BY: [Name] CHECKED BY: [Name] SCALE: AS SHOWN</p>



NH-068-2(25)
P.I. NO. 532630
BULLOCH/SCRIVEN
COUNTIES
SR 73
2015/2035 ADT
2015 ADT = 000
2035 ADT = (000)
MA 01/2008

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 251-0025-0 Screven SUFF. RATING 47.17

Location & Geography

* Structure I.D. No: 251-0025-0
 * 200 Bridge Information 06
 * 6A Feature Int: NOR-SOU RRR (620143J)
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: SR00073
 * 7B Facility Carried: US 301
 * 9 Location: 11 MI NW OF OLIVER
 2 DOT District: 2
 207 Year Photo: 2006
 * 91 Inspection Frequency: 24 Date: 01/11/2006
 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: 00301
 Direction: 0
 * 16 Latitude: 32-34.5 MMS Prefix: SR
 * 17 Longitude: 081-42.6 MMS Suffix: 00 MP: 0.78
 98 Border Bridge: 000 %Shared: 00
 99 ID Number: 0000000000000000

* 100 STRAHNET: 0
 12 Base Highway Network: 1
 13A LRS Inventory Route: 2511007300
 13B Sub Inventory Route: 0
 * 101 Parallel Structure: N
 * 102 Direction of Traffic: 2
 * 264 Road Inventory Mile Post: 000.75
 * 208 Inspection Area: 10 Initials: JWM
 Engineer's Initial: jal

* Location I.D. No.: 251-00073D-000.78N

Signs & Attachments

* 104 Highway System: 1
 * 26 Functional Classification: 02
 * 204 Federal Route Type: F No.: 00682
 * 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: 14
 * 20 Toll: 3
 * 21 Maintenance: 01
 * 22 Owner: 01
 * 31 Design Load: 2
 37 Historical Significance: 5
 205 Congressional District: 12
 27 Year Constructed: 1943
 106 Year Reconstructed: 0000
 33 Bridge Median: 0
 34 Skew: 00
 35 Structure Flared: 0
 38 Navigation Control: N
 213 Special Steel Design: 0
 267 Type of Paint: 0
 * 42 Type of Service on: 1
 2
 214 Movable Bridge: 0
 203 Type Bridge: C-O-O-O
 259 Pile Encasement: 3
 * 43 Structure Type Main: 1 04
 45 No. Spans Main: 005
 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: 1 Mt 8 F 8
 * 248 County Continuity No.: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 251-0025-0

Screen

SUFF. RATING

47.17

Programming Data

201 Project No.: WPGH 2708-D (1)
 202 Plans Available: 4
 249 Prop. Proj. No. BRN-068-2 (24)
 250 Approval Status: 0000
 251 P.I. No.: 231680-
 252 Contract Date: 02/01/2007
 260 Seismic No.: 00000
 75 Type Work: 34 1
 94 Bridge Imp. Cost: \$ 147
 95 Roadway Imp. Cost: \$ 237
 96 Total Imp Cost: \$ 479
 76 Imp. Length: 001490
 97 Imp. Year: 1990
 114 Future ADT: 008310 Year: 2026

Measurements

* 29 ADT: 005540 Year: 2006
 109 % Trucks: 0
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 01
 * 48 Max. Span Length: 0050
 * 49 Structure Length: 170
 51 Br. Rwdy. Width: 25.80
 52 Deck Width: 29.80
 * 47 Tot. Horz. Cl: 25.80
 50 Curb/Sdewik Width: 0.80/0.80
 32 Approach Rdwy Width: 024
 * 229 Shoulder Width:
 Rear Lt: 8.00 Type: 8 Rt: 8.00
 Fwd Lt: 8.00 Type: 8 Rt: 8.00

Ratings

65 Inventory Rating Method: 2
 63 Inventory Rating Method: 2
 66 Inventory Type: 2 Rating: 19
 64 Operating Type: 2 Rating: 38
 231 Calculated Loads
 H-Modified: 20 0
 HS-Modified: 25 0
 Type 3: 27 0
 Type 3s2: 40 0
 Timber: 36 0
 Piggyback: 40 0
 261 H Inventory Rating: 15
 262 H Operating Rating: 24
 67 Structural Evaluation: 4
 58 Deck Condition: 6
 59 Superstructure Condition: 6
 * 227 Collision Damage: 0
 60A Substructure Condition: 6
 60B Scour Condition: N
 60C Underwater Condition: N
 71 Waterway Adequacy: N
 61 Channel Protection Cond: N
 68 Deck Geometry: 2
 69 UnderClr. Horz/Vert: 5
 72 Appr. Alignment: 6
 62 Culvert: N

Pavement Width:

Rear: 24.00 Type: 2
 Fwd: 24.00 Type: 2
 Intersection Rear: 1 Fwd: 0
 36 Safety Features Br. Rail: 2
 Transition: 2

App. G. Rail: 2
 App. Rail End: 2
 53 Minimum Cl.Over: 99 ' 99 "
 Under: R 22 ' 00 "

* 228 Min. Vertical Cl
 Act. Odm Dir: 99 ' 99 "
 Oppo. Dir: 99 ' 99 "
 Posted Odm. Dir: 00 ' 00 "
 Oppo. Dir: 00 ' 00 "

55 Lateral Undercl. Rt: R 13.70
 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: 6.70
 Deck Thick Approach: 0.00
 246 Overlay Thickness: 0.00
 212 Year Last Painted: Sup: 0000 Sub: 0000

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: N
 216 Water Depth: 00.0 Br. Height: 00.0
 222 Slope Protection: 0
 221 Spur Dikes Rear: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No. Barrels: 0
 Width: 0.00 Height: 0.00
 Length: 0 Apron: 0
 * 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 251-00073D-000.78N

Posting Data

70 Bridge Posting Required: 5
 41 Struct Open, Posted, Cl: A
 * 103 Temporary Structure: 0
 232 Posted Loads H-Modified: 00
 HS-Modified: 00
 Type 3: 00
 Type 3s2: 00
 Timber: 00
 Piggyback: 00
 253 Notification Date 02/01/1901
 253 Fed Notify Date: 02/01/1901 0

NOTICE OF LOCATION AND DESIGN APPROVAL

**BRN00-0068-02(024), SCREVEN COUNTY
P. I. NUMBER 231680**

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:

Project BRN00-0068-02(024) is the Bridge Replacement of SR 73/US 301/ H. Walstein Parker Memorial Highway & Statesboro Highway over Norfolk-Southern Railroad (620143J) South of SR 17/Scarboro Highway & Effingham Highway. The purpose of this project is to replace a structurally deficient and functionally obsolete bridge on SR 73/US 301 over the Norfolk-Southern Railroad.

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:

**Angie Cooper, Area Engineer
E-mail: acooper@dot.ga.gov
Georgia Department Of Transportation
685 Kite Road
Swainsboro, Georgia 30401
(478) 289-2614**

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:

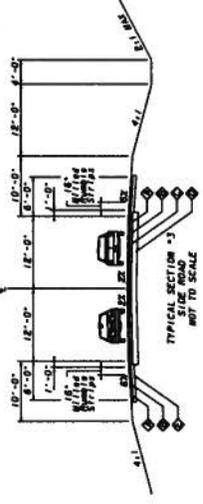
**Otis Clark
Office of Program Delivery/Consultant Design
E-mail: oclark@dot.ga.gov
Georgia Department of Transportation
One Georgia Center
630 West Peachtree Street
Atlanta, Georgia 30334-1002
(404) 631-1577**

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.



ROADWAY LEGEND

- PROPOSED TYPICAL SECTION 1
- TYPICAL SECTION (PI 231670)
- CHURCHES
- HISTORICAL BOUNDARIES
- WETLANDS & POTENTIAL HISTORIC BOUNDARIES
- PROPOSED RIGHT OF WAY
- PROPOSED CENTERLINE
- CENTERLINE (PI 231670)
- STREAM BUFFERS
- STREAM
- PROPERTY AND EXISTING R/W LINE
- PONDS



SHEET 1
 BRN00-0068-02(024)
 PI No. 231680
 SR 73/US 301 AT
 NORFOLK-SOUTHERN
 RAILROAD

HNTB
 375 NORTSHOE PARKWAY, NW
 400 NORTHCREEK, SUITE 600
 ATLANTA, GEORGIA 30327

