

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0007033, Hancock County **OFFICE** Preconstruction
CSBRG-0007-00(033)
SR 16 over Two Mile Creek –
Bridge Replacement **DATE** April 17, 2007

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

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

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
- Mike Thomas
- BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No.0007033, Hancock County **OFFICE:** Preconstruction
 CSBRG-0007-00(033)
 SR 16 over Two Mile Creek -
 Bridge Replacement **DATE:** April 2, 2007

FROM: *Genetha Rice-Singleton*
 Genetha Rice-Singleton, Assistant Director of Preconstruction

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

SUBJECT: PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on SR 16 over Two Mile Creek, 1.8 miles east of Sparta, Georgia. The existing bridge, constructed in 1936, is load limited with a sufficiency rating of 49. State Route 16 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. Traffic is projected to be 3,150 VPD and 5,200 VPD in the years 2013 and 2033 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 16 south of its present location, extending a total of 0.60 mile. The proposed new bridge will be 40' x 44' and will be located just south of the existing bridge structure. The relocated SR 16 will consist of two, 12' lanes with 10' rural shoulders (4' paved). Traffic will be maintained on the existing bridge while the proposed bridge is constructed.

Environmental concerns include requiring a COE 404 permit; a Categorical Exclusion will be prepared; time saving procedures are appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	FUNDING	PROG DATE
Construction (includes E&C and inflation)	\$1,345,000	\$1,238,000	LICO	LR
Right-of-Way	\$ 125,000	\$ 125,000	LICO	2009
Utilities*	\$ 22,000	----		

*PFA requested Hancock County do utilities; notification letter sent to Hancock County 6-6-06.

David Studstill
Page 2

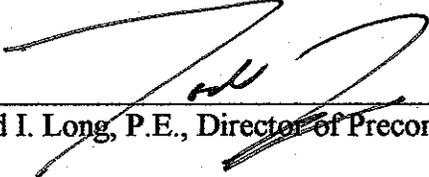
P. I. No. 0007033, Hancock
April 2, 2007

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: CSBRG-0007-00(033) Hancock **OFFICE:** Engineering Services
P.I. No. 0007033
S.R. 16 over the Two Mile Creek

DATE: February 22, 2007

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

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report submitted February 7, 2007 and have the following comment.

- An item should be included in the Cost Estimate for removal of the existing bridge and associated roadway and drainage items. This cost has been included.

The costs for this project are:

Construction	\$1,222,450
E & C	\$122,245
Reimbursable Utilities	\$0.00 \$22,000
Right of Way	Not provided \$125,000 - <i>del</i> 3/13/07

REW

c: Mike Thomas, (Tennille); attn. Alan Smith

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: CSBRG-0007-00 (033)

County: Hancock

P. I. Number: 0007033

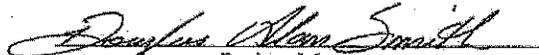
Federal Route Number: None

State Route Number: 16

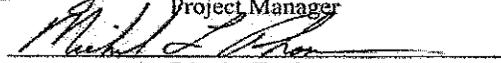
County Road Number: None

Recommendation for approval:

DATE 2-7-07


Project Manager

DATE 2-7-07


District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE 2/22/07


Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSBRG-0007-00 (033)*
County: *Hancock*
P. I. Number: *0007033*

Federal Route Number: *None*
State Route Number: *16*
County Road Number: *None*

Recommendation for approval:

DATE 2-7-07


Project Manager

DATE 2-7-07

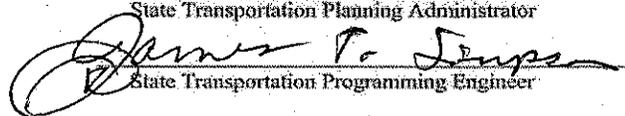

District Engineer

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DATE _____

State Transportation Planning Administrator

DATE 3-1-07


State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0007033

OFFICE: Environment/Location

DATE: March 12, 2007



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

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

**SUBJECT: REVISED PROJECT CONCEPT REPORT
CSBRG-00(033) / Hancock County**

The above subject concept report has been reviewed. Contrary to Page 5, this bridge is listed as Not Eligible in the GHBS. The CSX RR is eligible.

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

HDK/lc

Attachment

cc: Brian Summers
Keith Golden
Michael L. Thomas
Angela Alexander
Jamie Simpson
Paul Liles

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

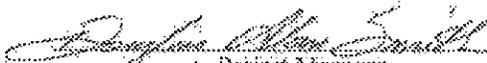
District Two Design Office

Project Number: *CSBRG-0007-00 (033)*
County: *Hancock*
P. I. Number: *0007033*

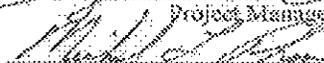
Federal Route Number: *None*
State Route Number: *16*
County Road Number: *None*

Recommendation for approval:

DATE 2-7-07


Project Manager

DATE 2-7-07


District Engineer

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

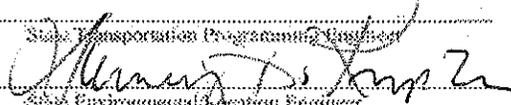
DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programmatic Specialist

DATE 3/9/07


State Environmental Liaison Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

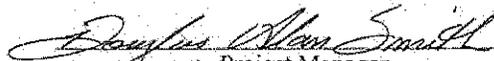
District Two Design Office

Project Number: *CSBRG-0007-00 (033)*
County: *Hancock*
P. I. Number: *0007033*

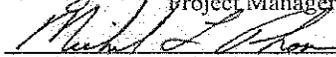
Federal Route Number: *None*
State Route Number: *16*
County Road Number: *None*

Recommendation for approval:

DATE 2-7-07


Project Manager

DATE 2-7-07


District Engineer

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

DATE 2-27-07


State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

SCORING RESULTS AS PER TOPPS 2440-2

Project Number: CSBRG-0007-00(033)		County: Hancock		PI No.: 0007033	
Report Date: February 7, 2007		Concept By: DOT Office: District 2			
<input checked="" type="checkbox"/> Concept Stage		Consultant: N/A			
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSBRG-0007-00 (033)*
County: *Hancock*
P. I. Number: *0007033*

Federal Route Number: *None*
State Route Number: *16*
County Road Number: *None*

Recommendation for approval:

DATE 2-7-07


Project Manager

DATE 2-7-07


District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental Location Engineer

DATE 2-12-07


State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSBRG-0007-00 (033)*
County: *Hancock*
P. I. Number: *0007033*

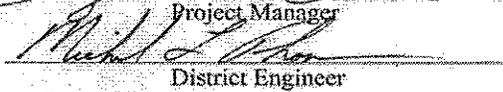
Federal Route Number: *None*
State Route Number: *16*
County Road Number: *None*

Recommendation for approval:

DATE 2-7-07


Project Manager

DATE 2-7-07


District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

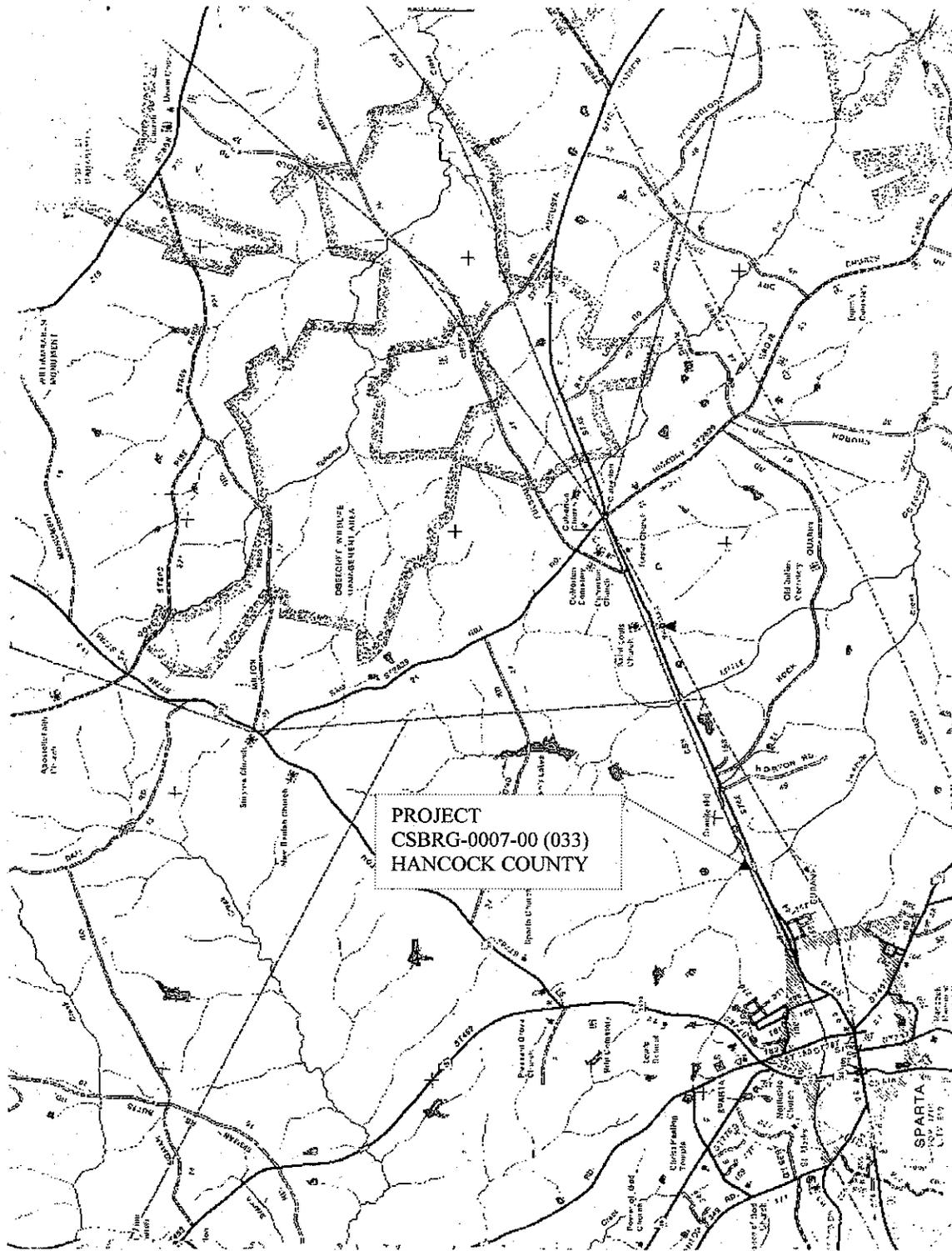
State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer



Need and Purpose: *The Department of Transportation uses the sufficiency rating of bridges to determine the structural integrity and functional efficiency of roadway bridges. When the sufficiency rating drops below 50.00 the bridge is evaluated for replacement. The existing bridge over Two Mile Creek on SR 16 (Bridge Location ID # 141-00016D-014.35E) was constructed in 1930. It is a 40-ft x 26.20-ft concrete deck bridge with concrete sub-structure. The current sufficiency rating for this bridge is 49.63 which indicates that it should be replaced. The current width of the bridge is also too narrow to accommodate tractor-trailers and has become functionally obsolete.*

SR 16 is comprised of 2 - 12-ft. asphalt travel lanes with 6-ft. grassed shoulders (2-ft. each is paved). The vertical alignment in the area of the project is poor with grades of 3% to 5% with short sag and crest vertical curves. The horizontal alignment appears to meet current AASHTO Guidelines. This information will be verified once field surveys are completed.

SR 16 serves as a major commuter route from the City of Sparta to small communities on the eastern side of Hancock County. The traffic is comprised of lightweight vehicles, trucks, school buses and emergency vehicles. The truck percentage along this route is 5%. It is considered to be a medium state route. The Level of Service is currently "A" with no major delays to the traveling public.

The logical termini for this project should be limited to the length necessary to reconstruct the bridge and vertical alignment to meet current AASHTO criteria. This route is not currently listed for widening or reconstruction so no other logical termini will be required.

The need exist to replace this bridge with a new structurally sound and functional bridge or bridge culvert and reconstruct the vertical grades within the project limits to meet current AASHTO Guidelines. The purpose of this project is to accomplish these tasks.

Description of the proposed project: *The proposed project would begin just east of CR 48 / Old Augusta Road / MP 13.75 and would end at MP 14.35. Traffic will be maintained on the existing alignment and SR 16 will be realigned to the south approximately 64-ft. (subject to change once grades are calculated). A new bridge or bridge culvert will be constructed on this new alignment. Once this is completed, traffic will be shifted to the newly aligned SR 16 and the old bridge and roadway will be removed.*

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

PDP Classification: Minor Major

Federal Oversight: Full Oversight , Exempt , State Funded , or Other

Functional Classification: *Rural Minor Arterial*

U. S. Route Number(s): *None*
County Road Number(s): *None*

State Route Number(s): *16*

Traffic (AADT):

Current Year: 3250 (2013)

Design Year: 5200 (2033)

Existing design features:

- Typical Section: 1 - 12-ft. travel lane in each direction with 6-ft grassed shoulders (2-ft. each is paved)
- Posted speed: 55 MPH Maximum degree of curvature: 3 Degree
- Maximum grade: 5%
- Width of right of way: 100-ft.
- Major structures: 40-ft. x 26-ft reinf. concrete bridge
 Sufficiency Rating: 49.63
- Major interchanges or intersections along the project: None
- Existing length of roadway: 0.60 miles

Proposed Design Features:

- Proposed typical section(s): 1 - 12-ft. travel lane in each direction with 10-ft. grassed shoulders each side (4-ft. each will be paved with rumble strips constructed)
- Proposed Design Speed Mainline: 55 MPH
- Proposed Maximum grade Mainline: 5%
- Maximum grade allowable Mainline: 5%
- Proposed Maximum grade Side Street: 5%
- Maximum grade allowable on Side Streets: 7%
- Proposed Maximum grade driveway: 11%
- Proposed Minimum Radii of curve: 1432-ft Radius
- Minimum Radii allowable: 1060-ft. Radius
- Right of way
 - Width: An additional 100-ft. to 120-ft. of right-of-way will be required on the south side of SR 16
 - Easements: Temporary , Permanent , Utility , Other .
 - Type of access control: Full , Partial , By Permit , Other .
 - Number of parcels: 2 Number of displacements: 0
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges: *The D.A. is approximately 3.4 square miles and the project is located within Flood Frequency Region 2 which yields a 100-yr. flow of 1665 cfs. Based on this information, a double barrel 9-ft x 9-ft. box culvert is sufficient at this site. However, due to the fact that stream mitigation will be difficult to obtain this area, the bridge should be replaced with a 40-ft. x 44-ft. reinforced concrete bridge to reduce impacts to the stream.*
 - Retaining walls: None

- Major intersections and interchanges: *None*
- Traffic control during construction: *Traffic will be maintained on SR 16 until the new roadway is constructed, then shifted to the new alignment.*
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	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"/>
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 Anticipated*
- Environmental concerns: *There may be some minor wetland impacts. ~~The existing bridge is 50 years old and will be considered historic and Norfolk Southern Railway has a railroad track on the north side of SR 16 that will be considered historic.~~* *del 2/13/07*
- Anticipated Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes , No ,
 - Categorical exclusion ,
 - Environmental Assessment/Finding of No Significant Impact (FONSI) , or
 - Environmental Impact Statement (EIS) .
- Utility involvements:
 - Telephone - *BellSouth Telecommunications has buried telephone within the existing RW on the South side of SR 16.*
 - Power - *Washington EMC has aerial power within the existing RW on the south side of SR 16.*
 - Water - *The City of Sparta has a water main within the existing RW on the north side of SR 16.*
 - Sewer - *None*
 - Gas - *None*
 - Cable TV - *None*
- **VE STUDY REQUIRED: No.**

Project responsibilities:

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

Coordination

- Concept meeting date: *02/02/07*
- P. A. R. meetings: *None Required*
- FEMA, USCG, and/or TVA: *None Required*
- Public involvement: *None*
- Local government commitments: *The local government will be asked to relocate their facilities only. (Water)*
- Other projects in the area: *0007034 Hancock,*

Scheduling – Responsible Parties' Estimate

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

Other alternates considered:

1. *Alternate "B" - Off-Site Detour and construct bridge in current location. This alternate was rejected because there is not a suitable roadway that will accommodate tractor-trailer traffic in the area, the off-site detour would be at least 15 miles long which would delay emergency response and school bus traffic, and would be cost prohibitive to enhance the roadway to meet the GDOT policy of 12-ft. lane widths due to the narrow lanes on the proposed detour route.*
2. *Alternate "C" - On-Site Detour and construct bridge in current location. This alternate was rejected because it would be cost prohibitive (additional \$300,000.00) to construct a temporary detour and bridge only to reconstruct most of the existing roadway anyway and then remove the detour. This is due to the fact that the existing roadway has a poor vertical alignment that must be corrected.*
3. *Alternate "D" - Realign SR 16 to the north side of the existing route - This alternate was rejected because there isn't adequate separation between SR 16 and Norfolk Southern Railroad to construct the road on this side.*

Comments:

There is currently a double barrel culvert underneath the Norfolk Southern Railroad bed at this location just to the north of SR 16.

This office recommends that Alternate "A" be approved as written.

Attachments:

1. Traffic Data,
2. Cost Estimates:
 - a. Construction including E&C
 - b. Utilities
3. Typical section
4. Pavement Design
5. Location and Design Notice

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(033), Hancock County **OFFICE** Environment/Location
P.I. # 0007033
DATE November 20, 2006

FROM Harvey D. Keepler, State Environmental/Location Engineer

TO Michael L. Thomas, P.E., District Engineer
Attn. Alan Smith

SUBJECT Traffic Assignment for SR 16 @ Two Mile Creek

We are furnishing estimated Traffic Assignment for the above project as follows:

TC # = 147

2004 AADT = 2600

2013 AADT = 3250

2033 AADT = 5200

K = 8%

D = 60%

T. = 5%

24 HOUR T = 8%

S.U. = 5%

COMB. = 3%

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

HDK/AMW

CSBRG-0007-00 (033) HANCOCK COUNTY

P.I. # 0007033 - BRIDGE REPLACEMENT ON SR 16 OVER TWO MILE CREEK

Section ROADWAY

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	75000.00	TRAFFIC CONTROL -	75000.00
201-1500	1	LS	25000.00	CLEARING & GRUBBING -	25000.00
205-0001	6000	CY	5.59	UNCLASS EXCAV	33540.00
206-0002	32356	CY	7.90	BORROW EXCAV, INCL MATL	255612.40
207-0203	100	CY	59.77	FOUND BK FILL MATL, TP II	5977.00
310-1101	7865	TN	17.16	GR AGGR BASE CRS, INCL MATL	134963.40
318-3000	300	TN	17.33	AGGR SURF CRS	5199.00
402-1812	100	TN	60.68	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	6068.00
402-3112	930	TN	69.50	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	64635.00
402-3121	1860	TN	63.60	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	118296.00
402-3131	1045	TN	61.72	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	64497.40
413-1000	905	GL	1.88	BITUM TACK COAT	1701.40
446-1100	6300	LF	5.03	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	31689.00
456-2015	1	GLM	766.33	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (SKIP)	919.60
540-0001	1	LUMP	114400.00	CONST OF BRIDGE COMPLETE	114400.00
540-1102	1	LS	20000.00	REMOVAL OF EXISTING BR, BR NO -	20000.00
550-1240	120	LF	53.56	STORM DRAIN PIPE, 24 IN, H 1-10	6427.20
550-2180	72	LF	35.55	SIDE DRAIN PIPE, 18 IN, H 1-10	2559.60
550-3618	4	EA	753.43	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	3013.72
550-4224	4	EA	867.64	FLARED END SECTION 24 IN, STORM DRAIN	3470.56
603-6008	24	SY	156.36	SAND-CEMENT BAG RIP RAP, 8 IN	3752.64
634-1200	12	EA	110.43	RIGHT OF WAY MARKERS	1325.16
641-1200	575	LF	18.89	GUARDRAIL, TP W	10861.75
641-5001	2	EA	631.56	GUARDRAIL ANCHORAGE, TP 1	1263.12
641-5012	2	EA	1878.51	GUARDRAIL ANCHORAGE, TP 12	3757.02
643-0010	1000	LF	4.93	FIELD FENCE WOVEN WIRE	4930.00
643-8001	1	EA	450.00	GATE, GALVANIZED METAL-	450.00
Section Sub Total:					\$999,308.97

Section EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2181	100	SY	48.39	STN DUMPED RIP RAP, TP 3, 18 IN	4839.00
603-7000	100	SY	4.89	PLASTIC FILTER FABRIC	489.00
700-6910	8	AC	893.29	PERMANENT GRASSING	7146.32
700-7000	16	TN	58.09	AGRICULTURAL LIME	929.44
700-7010	20	GL	19.20	LIQUID LIME	384.00
700-8000	7	TN	347.20	FERTILIZER MIXED GRADE	2430.40
700-8100	200	LB	2.10	FERTILIZER NITROGEN CONTENT	420.00
716-2000	3000	SY	1.33	EROSION CONTROL MATS, SLOPES	3990.00
Section Sub Total:					\$20,628.16

Section TEMPORARY EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	8	AC	561.09	TEMPORARY GRASSING	4488.72
163-0240	140	TN	192.62	MULCH	26966.80
163-0300	4	EA	2863.85	CONSTRUCTION EXIT	11455.40
163-0520	500	LF	16.92	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	8460.00
163-0521	16	EA	219.24	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	3507.84
163-0530	500	LF	3.75	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	1875.00
165-0010	1600	LF	0.94	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	1504.00
165-0030	1600	LF	1.89	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	3024.00
165-0040	16	EA	86.87	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	1389.92
165-0070	500	LF	2.34	MAINTENANCE OF BALED STRAW EROSION CHECK	1170.00
165-0101	4	EA	676.71	MAINTENANCE OF CONSTRUCTION EXIT	2706.84
167-1000	2	EA	1319.80	WATER QUALITY MONITORING AND SAMPLING	2639.60
167-1500	12	MO	1061.86	WATER QUALITY INSPECTIONS	12742.32
171-0010	3200	LF	1.84	TEMPORARY SILT FENCE, TYPE A	5888.00
171-0030	3200	LF	3.87	TEMPORARY SILT FENCE, TYPE C	12384.00
Section Sub Total:					\$100,202.44

Section SIGNING - MARKING					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	36	SF	15.09	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	543.24
636-1033	36	SF	19.65	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	707.40
636-2070	112	LF	8.46	GALV STEEL POSTS, TP 7	947.52
652-5451	6400	LF	0.28	SOLID TRAFFIC STRIPE, 5 IN, WHITE	1792.00
652-5452	6400	LF	0.23	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	1472.00
654-1003	80	EA	3.78	RAISED PVMT MARKERS TP 3	302.40
Section Sub Total:					\$5,764.56

Total Estimated Cost: \$1,125,904.13

Subtotal Construction Cost	\$1,125,904.13
E&C Rate 10.0 %	\$112,590.41
Inflation Rate 0.0 % @ 0.0 Years	\$0.00
Total Construction Cost	\$1,238,494.54
Right Of Way	\$0.00
ReImb. Utilities	\$0.00
Grand Total Project Cost	\$1,238,494.54

Right of Way and Utility Estimates are to be provided by others

FLEXIBLE PAVEMENT DESIGN ANALYSIS

Project: CSBRG-0007-00 (033) County: Hancock
 P.I. no.: 0007033
 Description: Bridge replacement on Sr 16 over Two Mile Creek

Traffic Data (NOTE: AADTs are one-way)
 24-hour Truck Percentage: 8.00%
 AADT initial year of design period: 1,625 vpd (2013)
 AADT final year of design period: 2,600 vpd (2033)
 Mean AADT (one-way): 2,112 vpd

Design Loading
 Mean AADT * LDF * Trucks * 18-K ESAL = Total Daily Loads
 2,112 * 1.00 * 0.080 * 0.62 = 106
 Total predicted design period loading = 106 * 20 * 365 = 773,800

Design Data
 Terminal Serviceability Index: 2.50
 Soil Support: 3.00
 Regional Factor: 1.60

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness Inches	(mm)	Structural Coefficient	Structural Value
9.5 mm Superpave	1.25	(32)	0.44	0.55
19 mm Superpave	2.00	(51)	0.44	0.88
25 mm Superpave	1.25	(32)	0.44	0.55
	6.75	(171)	0.30	2.03
Graded Aggregate Base	12.00	(305)	0.16	1.92
Required SN = 4.08			Proposed SN = 5.93	

>>> Proposed pavement is 45.2% Overdesigned <<<

Remarks: In accordance with minor project asphalt design letter

Prepared by Alan Smith A January 10, 2007
 District Design Engineer Date

Recommended _____
 District Engineer Date

Approved _____
 State Pavement Engineer Date

Project Concept Report Page 14 of 14
Project Number CSBRG-0007-00 (033), PI # 0007033
County Hancock

NOTICE OF LOCATION AND DESIGN APPROVAL

**CSBRG-0007-00 (033) Hancock County
P.I. # 0007033**

Notice is hereby given in compliance with Georgia Code 22-22-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of location and design approval was APRIL 17, 2007
Date of Approval

This project consists of the replacement of the structurally deficient and functionally obsolete bridge on SR 16 over Two Mile Creek approximately 1.8 miles east of the City of sparta. A new structure will be constructed on new alignment to the south of the existing roadway while traffic is maintained on the existing alignment. Once the new roadway is constructed, traffic will be diverted to the new road and the existing roadway and bridge will be removed.

Drawings of the proposed project are on file and are available for inspection at the Georgia Department of Transportation.

Christopher Holmes
Chris.Holmes@dot.state.ga.us
424 Industrial Drive
Sandersville, Georgia 31082

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:

GEORGE M. BREWER
PRECONSTRUCTION ENGINEER
P.O. BOX 8
TENNILLE, GEORGIA 31089
478-552-4629

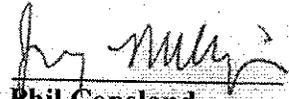
Any written request or communication in reference to this project SHOULD include the Project and PI numbers as noted at the top of this notice.

PROJECT #		COUNTY	UTILITY COST ESTIMATE		P.I. NUMBER	LAYOUT DATE
CSBRG-0007-00 (033)		Hancock	PROJECT DESCRIPTION		0007033	1/16/2007
PRIVATE UTILITY QUANTITIES		ITEM DESCRIPTION		UNIT PRICE	PRIVATE UTILITY COST	PUBLIC UTILITY COST
PUBLIC UTILITY QUANTITIES		POWER		\$\$\$\$\$\$		
UNITS		GA Power Co.				
<p>GA Power has facilities located within the existing right of way throughout the project limits that should not be eligible for reimbursement. Information for this estimate was provided by Dave Bonair with GA Power.</p>						
SUB - TOTAL						
\$21,450.00						
WATER						
<i>City of Sparta</i>						
700	Lin Ft	Relocate Water Main - 6" PVC		\$23.00		\$16,100.00
2	Each	Relocate Fire Hydrant		\$1,700.00		\$3,400.00
1	Lump	Service, Tie-Ins, etc.		\$1,950.00		\$1,950.00
<p>The City of Sparta has facilities located within the existing right of way throughout the project limits that should not be eligible for reimbursement. Information for this estimate was provided by Christopher Edwards with the City of Sparta.</p>						
SUB - TOTAL						
\$21,450.00						
TELEPHONE						
<i>BellSouth Telecommunications, Inc.</i>						
<p>BellSouth has aerial and buried facilities located within the existing right of way throughout the project limits that should not be eligible for reimbursement. Information for this estimate was provided by Warren Geitgey with BellSouth Telecommunications.</p>						
SUB-TOTAL						
\$21,450.00						
<p>Revised: _____</p> <p>Revised: _____</p> <p>Revised: _____</p>					<p>TOTAL PRIVATELY OWNED UTILITY RELOCATION COST</p> <p>TOTAL PUBLICLY OWNED UTILITY RELOCATION COST</p> <p>TOTAL POTENTIAL UTILITY RELOCATION COST FOR PROJECT</p>	
<p>Estimate Prepared By: Jamie Lindsey - Assistant District Utilities Engineer</p>					<p>DATE: 30-Mar-07</p>	

Unit Costs are based on former "Force Account Agreements" and the Department of Transportation's "Mean Item Index"

The information above is an estimate and is subject to change as project plans are developed and prior rights research has been performed.

Preliminary Right of Way Cost Estimate



Phil Copeland
 Right of Way Administrator
 By: Jerry Milligan

Date: January 19, 2007
 Project: CSBRG-0007-00(033)Hancock
 Existing/Required R/W: Varies/Varies
 Project Termini: East of Brown Road and end at MP 15.86
 Project Description: Bridge Replacement over Little Ogeechee River

P.I. Number: 0007033
 No. Parcels: 2

Land: Agricultural : 5.28 acres @ \$ 4,000/acre	\$ 21,120
Improvements : misc. site improvement	15,000
Relocation: Residential (0) Commercial (0)	0
Damage : Cost to Cure (0) parcel Proximity (0) parcel	0
	<hr/>
Net Cost	\$ 36,120
Net Cost	\$ 36,120
Scheduling Contingency 55 %	19,866
Adm/Court Cost 60 %	33,591
Market Appreciation 40 %	35,830
	<hr/>
Total Cost	\$ 125,407

\$ 125,425

Bridge Inventory Data Listing
Georgia Department of Transportation.

Structure ID: 141-0008-0

Hancock

SUFF. RATING: 49.63

Location & Geography		Signs & Attachments			
* Structure ID:	141-0008-0	* 104 Highway System:	0	225 Expansion Joint Type:	02
200 Bridge Information:	06	* 26 Functional Classification:	06	242 Deck Drains:	1
* 6A Feature Int:	TWO MILE CREEK	* 204 Federal Route Type:	F No. 00042	243 Parapet Location:	0.00
* 6B Critical Bridge:	0	105 Federal Lands Highway:	0	Height:	0.00
* 7A Route Number Carried:	SR00016	* 110 Truck Route:	0	Width:	0.00
* 7B Facility Carried:	SR 16	206 School Bus Route:	1	238 Curb Height:	1.0
* 9 Location:	1.8 MI E OF SPARTA	217 Benchmark Elevation:	0000.00	Curb Material:	1
2 DOT District:	2	218 Datum:	0	239 Handrail:	1 1
207 Year Photo:	2006	* 19 Bypass Length:	15	* 240 Median Barrier Rail:	0
* 91 Inspection Frequency:	24 Date: 6/20/2006	* 20 Toll:	3	241 Bridge Median Height:	0.0
92A Fract Crit Insp Freq:	00 Date: 2/1/1901	* 21 Maintenance:	01	* Bridge Median Width:	0.0
92B Underwater Insp Freq:	00 Date: 2/1/1901	* 22 Owner:	01	230 Guardrail Loc. Dir. Rear:	3
92C Other Spc. Insp Freq:	00 Date: 2/1/1901	* 31 Design Load:	2	Fwrd:	3
* 4 Place Code:	00000	37 Historical Significance:	5	Oppo. Dir. Rear:	0
* 5 Inventory Route (O/U):	1	205 Congressional District:	03	Oppo. Fwrd:	0
Type:	3	27 Year Constructed:	1930	244 Approach Slab:	0
Designation:	1	106 Year Reconstructed:	1936	224 Retaining Wall:	1
Number:	00016	33 Bridge Median:	0	233 Posted Speed Limit:	55
Direction:	0	34 Skew:	00	236 Warning Sign:	1
* 16 Latitude:	33 - 17.2950 HMMS Prefix: SR	35 Structure Flared:	0	234 Delineator:	1
* 17 Longitude:	82 - 56.7850 HMMS Suffix: 00 MP:14.35	38 Navigation Control:	0	235 Hazzard Boards:	1
98 Border Bridge:	000 % Shared: 00	213 Special Steel Design:	0	237 Utilities - Gas:	00
99 ID Number:	0000000000000000	267 Type of Paint:	0	Water:	00
* 100 STRAHNET:	0	* 42 Type of Service on:	1	Electric:	00
12 Base Highway Network:	1	Type of Service under:	5	Telephone:	00
13A LRS Inventory Route:	1411001600	214 Movable Bridge:	0	Sewer:	00
13B Sub Inventory Route:	0	203 Type Bridge:	A O A O	247 Lighting - Street:	0
101 Parallel Structure:	N	259 Pile Encasement:	3	Navigation:	0
* 102 Direction of Traffic:	2	* 43 Structure Type Main:	1 01	Aerial:	0
* 264 Road Inventory Mile Post:	013.98	45 No. Spans Main:	002	* 248 County Continuity No.:	07
* 208 Inspection Area:	02 Initials: JTB	44 Structure Type Appr:	0 00		
Engineer's Initial:	sgn	46 No. Spans Appr:	0000		
		226 Bridge Curve Horz:	0 Vert: 0		
		111 Pier Protection:	0		
		107 Deck Structure Type:	1		
* Location I.D. No.:	141-00016D-014.35E	108 Wearing Surface Type:	6		
		Membrane Type:	0		
		Deck Protection:	0		

Structure ID: 141-0008-0

Programming Data		Measurements		Ratings	
201 Project No.:	FAP 140-A REOP.	* 29 ADT:	002720 Year: 2006	65 Inventory Rating Method:	2
202 Plans Available:	4	109 % Trucks:	0	63 Operating Rating Method:	2
249 Prop. Proj. No.	CSBRG-0007-00(033)	* 28 Lanes On:	02 Under: 00	66 Inventory Type:	2 Rating: 23
250 Approval Status:	0 0 0 0	210 No. Tracks On:	00 Under: 00	64 Operating Type:	2 Rating: 41
251 P.I. No.:	0007033	* 48 Max. Span Length:	0020	231 Calculated Loads	
252 Contract Date:	2/1/1901	* 49 Structure Length:	40	H-Modified:	20 0
260 Seismic No.:	00000	51 Br. Rwdy. Width:	23.90	HS-Modified:	25 0
75 Type Work:	34 1	52 Deck Width:	26.20	Type 3:	28 0
94 Bridge Imp. Cost:	\$43	* 47 Tot. Horiz. Cl:	23.90	Type 3s2:	40 0
95 Roadway Imp. Cost:	\$218	50 Curb / Sidewalk Width:	0.50 / 0.50	Timber:	36 0
96 Total Imp Cost:	\$300	32 Approach Rdwy. Width:	028	Piggyback:	40 0
76 Imp. Length:	001360	* 229 Shoulder Width:		261 H Inventory Rating:	15
97 Imp. Year:	1990	Rear Lt:	2.0 Type: 2 Rt: 2.0	262 H Operating Rating:	26
114 Future ADT:	004080 Year: 2026	Fwd Rd Lt:	2.0 Type: 2 Rt: 2.0	67 Structural Evaluation:	5
		Pavement Width:		58 Deck Condition:	5
		Rear:	24.0 Type: 2	59 Superstructure Condition:	5
			24.0 Type: 2	* 227 Collision Damage:	0
		Intersection Rear:	0 Fwd: 0	60A Substructure Condition:	5
Hydraulic Data		36 Safety Features Br. Rail:	2	60B Scour Condition:	8
215 Waterway Data		Transition:	2	60C Underwater Condition:	N
Highwater Elev.:	0525.0 Year: 1900	App. G. Rail:	2	71 Waterway Adequacy:	8
Flood Elevation:	0000.0 Freq.: 00	App. Rail End:	2	61 Channel Protection Cond.:	7
Avg. Streambed Elev.:	0519.0	53 Minimum Cl. Over:	99' 99 "	68 Deck Geometry:	2
Drainage Area:	00005	Under:	N 00' 00 "	69 UnderClr. Horz/Vert:	N
Area of Opening:	000270	* 228 Minimum Vertical Cl		72 Appr. Alignment:	6
113 Scour Critical:	U	Act. Odm Dir.:	99' 99 "	62 Culvert:	N
216 Water Depth:	01.7 Br. Height: 08.7	Oppo. Dir:	99' 99 "		
222 Slope Protection:	0	Posted Odm. Dir:	00' 00 "		
221 Spur Dikes Rear:	0 Fwd: 0	Oppo. Dir:	00' 00 "		
219 Fender System:	0			Posting Data	
220 Dolphin:	0	55 Lateral Undercl. Rt:	N 99.9	70 Bridge Posting Required:	5
223 Culvert Cover:	000	56 Lateral Undercl. Lt:	0.0	41 Struct Open, Posted, CL:	A
Type:	0	* 10 Max Min Vert Cl:	99' 99 " Dir: 0	* 103 Temporary Structure:	0
No. Barrels:	0	39 Nav Vert Cl:	000 Horiz: 0000	232 Posted Loads	
* Width:	0.00 Height: 0.00	116 Nav Vert Cl Closed:	000	H-Modified:	00
* Length:	0 Apron: 0	245 Deck Thickness Main:	18.00	HS-Modified:	00
265 U/W Insp. Area:	0 Diver: ZZZ	Deck Thick. Approach:	0.00	Type 3:	00
		246 Overlay Thickness:	2.00	Type 3s2:	00
		212 Year Last Painted:	Sup: 0000 Sub: 0000	Timber:	00
Location I.D. No.:	141-00016D-014.35E			Piggyback:	00
				253 Notification Date:	2/1/1901
				258 Fed Notify Date:	2/1/1901