

D.O.T. 66

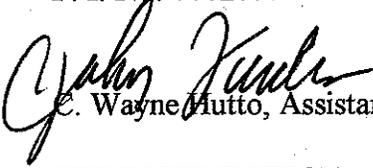
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0002-00(735) Morgan County
P. I. No. 0002735

OFFICE Preconstruction

DATE June 4, 2002

FROM  E. Wayne Mutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

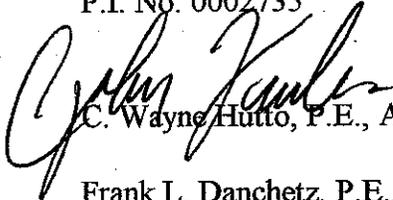
DISTRIBUTION:

David Mulling
Harvey Keeper
Jerry Hobbs
Herman Griffin
Michael Henry
Phillip Allen
Marta Rosen
Paul Liles
Ben Buchan
Mike Thomas
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0002-00(735) Morgan County **OFFICE** Preconstruction
P.I. No. 0002735 **DATE** May 20, 2002

FROM  C. Wayne Hutto, P.E., Assistant Director of Preconstruction

TO Frank L. Danchetz, P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on CR 116/Aqua Road over Little Indian Creek, 5.7 miles south of Madison, Georgia. The existing bridge, constructed in 1955, is load limited with a sufficiency rating of 47. County Road 116 at this location is a rural two lane roadway with 10' travel lanes with rural shoulders. This section of CR 116 is functionally classified as a rural local road. Traffic is projected to be 250 and 400 VPD in the years 2007 and 2027 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new quadruple 10' x 10' concrete bridge culvert over Little Indian Creek at the existing bridge site. The travel lanes will consist of two, 12' lanes with 6' rural shoulders on a variable 80' to 120' of proposed right-of-way. This portion of CR 116 will be closed during construction. Morgan County will be responsible for the signing and maintenance of detour routes.

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

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$664,000	\$422,000	2005	05-01
Right-of-Way & Utilities*	Local	Local		

*Morgan County signed LGPA for right-of-way, utilities and detours on 7-17-01.

Frank L. Danchetz

Page 2

BR-0002-00(735) Morgan

May 20, 2002

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

CWH:JDQ/cj

Attachment

CONCUR



Thomas L. Turner, P.E., Director of Preconstruction

APPROVE



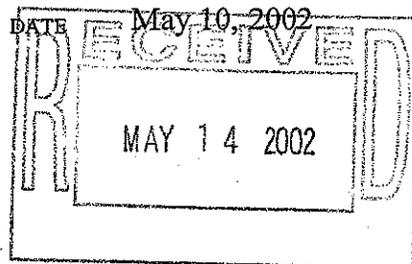
Frank L. Danchetz, P.E., Chief Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0002-00(735) Morgan County
P.I. No. 0002735

OFFICE Tennille



FROM *GMB* George M. Brewer, District Design Engineer

TO Wayne Hutto, P.E., Assistant Director of Preconstruction

SUBJECT **CONCEPT REPORT**

Attached is the original copy of the Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

If any further assistance is needed, please contact George Brewer at (478) 552-4642.

GMB

cc: David Mulling
Harvey Keeper
Phillip Allen
Marta Rosen
Herman Griffin

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

District Two Design Office

Project Number: *BR-0002-00(735)*

County: *Morgan*

P. I. Number: *0002735*

Federal Route Number: *None*

State Route Number: *None*

County Road Number: *116*

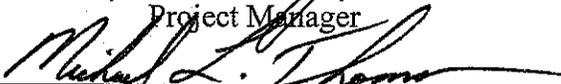
Recommendation for approval:

DATE 5/10/02



Project Manager

DATE 5-13-02



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

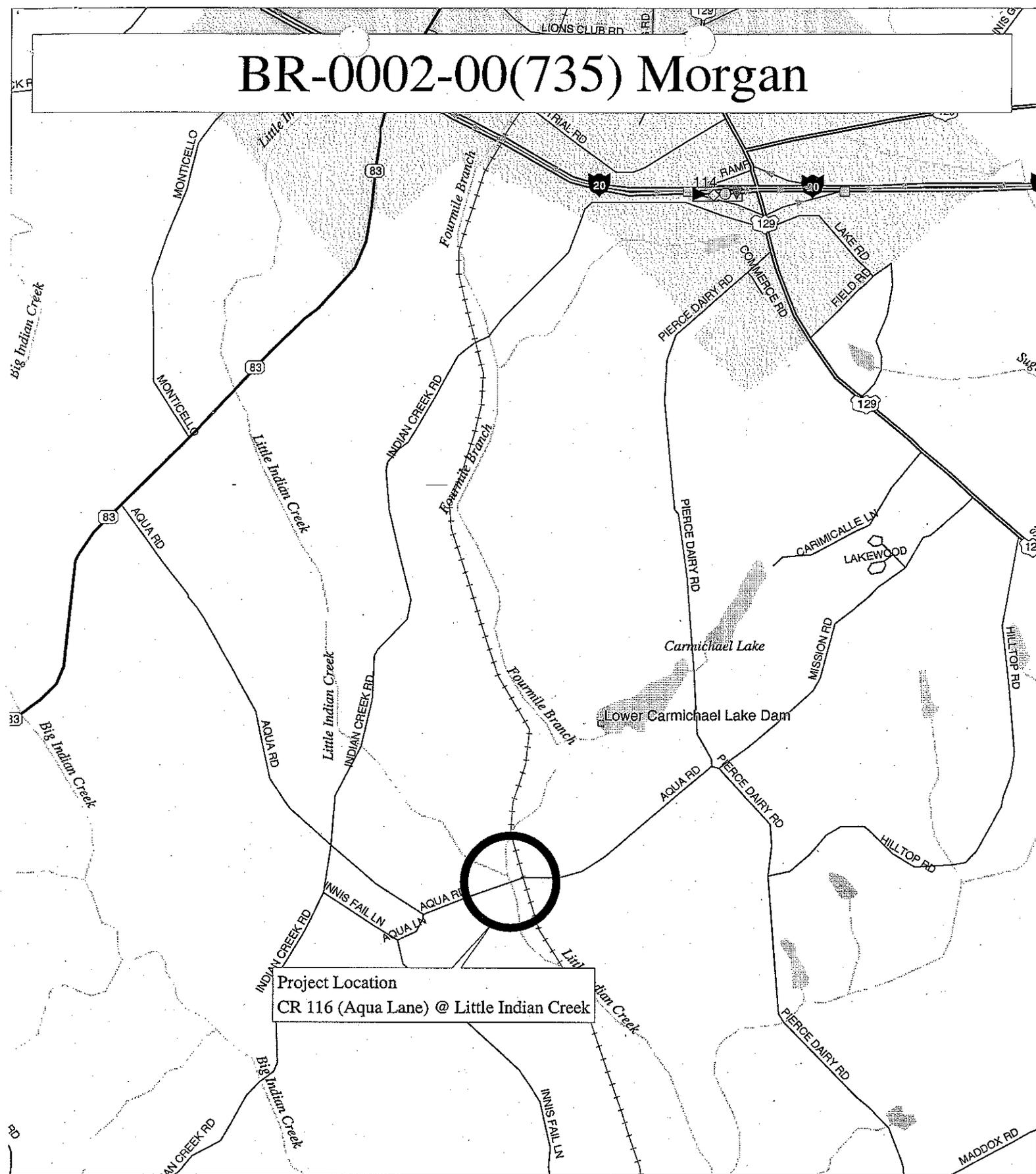
DATE _____

Project Review Engineer

DATE _____

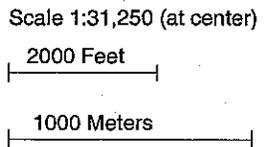
State Bridge & Structural Design Engineer

BR-0002-00(735) Morgan



Project Location
CR 116 (Aqua Lane) @ Little Indian Creek

Mag 14.00
Mon Aug 06 15:10 2001



- Local Road
- State Route
- Exit/Gas
- Exit/Lodging

Project Concept Report page 3
Project Number: BR-0002-00(735)
P. I. Number: 000735
County: Morgan

Need and Purpose: *See attached sheets.*

Description of the proposed project: *This project consists of the replacement of the structurally deficient bridge on CR 116(Aqua Road) at Little Indian Creek in Morgan County.*

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

PDP Classification: *Minor*

~~FEDERAL~~ Full Oversight (), Exempt(X), State Funded(), or Other ()
OVERSIGHT:

Functional Classification: *Rural Local Road*

U. S. Route Number(s): *None*
County Road Number(s): *116*

State Route Number(s): *None*

Traffic (AADT):

Current Year: *250 (2007)*

Design Year: *400 (2027)*

Existing design features:

- Typical Section: *1-10' lane in each direction with 6' rural shoulders*
- Posted speed: *55 mph* Maximum degree of curvature: *4°*
- Maximum grade: *5% mainline, 4% cross roads, and 10% driveways*
- Width of right of way: *80 ft.*
- Major structures: *101' x 25.5' bridge over Little Indian Creek*
Sufficiency Rating: 47.7
- Major interchanges or intersections along the project: *None*
- Existing length of roadway: *0.1 miles (CR 116 crosses the Norfolk-Southern Railroad approximately 200' east of the existing bridge. The project length will be minimized to avoid conflict with the at-grade crossing.)*

Project Concept Report page 5
Project Number: BR-0002-00(735)
P. I. Number: 0002735
County: Morgan

- Anticipated 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:
 - Telephone - *Bellsouth*

Project responsibilities:

- Design: *District Two Preconstruction*
- Right of Way Acquisition: *Morgan County*
- Relocation of Utilities: *Morgan County*
- Letting to contract: *DOT Contracts Administration*
- Supervision of construction: *Madison DOT Area Office*
- Providing material pits: *Morgan County*
- Providing detours: *None Required*

Coordination

- Concept meeting date:
- P. A. R. meetings: *None Required*
- FEMA, USCG, and/or TVA: *None Required*
- Public involvement: *None*
- Local government comments: *Morgan County has agreed to fund all reimbursable utility relocations, provide any required right-of-way or easements, furnish detours, and furnish local borrow and waste pits.*
- Other projects in the area: *EDS-441(44)*

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: *9 months*
- Time to complete preliminary construction plans: *9 months*
- Time to complete right of way plans: *3 months*
- Time to complete the Section 404 Permit: *6 months*
- Time to complete final construction plans: *9 months*
- Time to complete to purchase right of way: *12 months*

Project Concept Report page 6
Project Number: BR-0002-00(735)
P. I. Number: 0002735
County: Morgan

Other alternates considered:

1. *The only other alternate considered was no-build which would not satisfy the needs and purpose of the project.*

Comments: *The District recommends approval.*

Attachments:

1. Need & Purpose,
2. Traffic Data,
3. Cost Estimates:
 - a. Construction including E&C,
 - b. Utilities,
4. Typical sections,
5. Pavement Design,
6. Location and Design Notice,
7. LGPA.

Need and Purpose
Project BR-0002-00(735) Morgan County
PI No. 0002735
Bridge Replacement

Project Number BR-0002-00(735) will replace the structurally deficient bridge located on County Road 116 (Aqua Road) over Little Indian Creek.

The Little Indian Creek bridge sufficiency rating is 47.7. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. This project will replace the existing bridge with a structurally adequate bridge.

County Road 116 is functionally classified as a rural local road. The posted speed limit along CR 116 is 55 mph at Little Indian Creek Bridge. The section of roadway where the proposed bridge projects improvements would take place, is a school bus route. CR 116 is not part of the Statewide Bicycle Plan. The Little Indian Creek Bridge is located 5.7 miles south of Madison. Sidewalks are not proposed for this bridge. The projected Average Daily Traffic (ADT) along this section of roadway for 2007 is 250 with 1% percent trucks. The projected (2027) ADT for this section of roadway is 400. Currently, there is no other roadway improvement project on County Road 116 in GDOT's CWP in this vicinity.

Replacing this bridge will bring it up to current design standards and in doing so will improve the operation and safety of this roadway.

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0002-00(735), Morgan County **OFFICE** Environment/Location
P.I. # 0002735
DATE December 28, 2001

FROM Harvey Keeper, State Environment/Location Engineer

TO Mike Thomas, District Engineer, Tennille
Attn. George Brewer

SUBJECT Traffic Assignments for C.R. 116/Aqua Rd. @ Little Indian Creek 5.7
Mi So of Madison.

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

2001 AADT = 200
2007 AADT = 250
2027 AADT = 400
K = 9%
D = 55%
T = 1%
24 HR. T = 3%
S.U. = 2%
COMB. = 1%

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

HDK/AFE

ITEM	DESCRIPTION	UD010002735BR-0002-00(735)	MORGAN	BRIDGE REPLACEMENT ON CR 116 @ LITTLE INDI	UNITS	WF. AVG.	QUANTITY	COST
	***** ROADWAY *****							
150-1000	TRAFFIC CONTROL-BR-0002-00(735)				LS	10000	LUMP	\$10000.00
210-0100	GRADING COMPLETE-BR-0002-00(735)				LS	100000	LUMP	\$100000.00
318-3000	AGGR SURF CRS				TN	15	50	\$750.00
402-1811	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL				TN	60	100	\$6000.00
402-3112	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM				TN	40	250	\$10000.00
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM				TN	40	450	\$18000.00
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM				TN	40	175	\$7000.00
413-1000	BITUM TACK COAT				GL	0.25	150	\$37.50
576-1010	SLOPE DRAIN PIPE, 10 IN				LF	20	400	\$8000.00
577-1100	METAL DRAIN INLET - COMPLETE ASSEMBLY				EA	4	1000	\$4000.00
641-1100	GUARDRAIL, TP T				LF	38	84	\$3192.00
641-1200	GUARDRAIL, TP W				LF	12	400	\$4800.00
641-5001	GUARDRAIL ANCHORAGE, TP 1				EA	592	2	\$1184.00
641-5012	GUARDRAIL ANCHOR, TP 12				EA	1710	2	\$3420.00
654-1001	RAISED PVMT MARKERS TP 1				EA	3.7376025895	10	\$37.38
							Section SUB TOTAL	\$176420.88
576-1015	***** EROSION CONTROL *****				LF	20	500	\$10000.00
715-2200	SLOPE DRAIN PIPE, 15 IN				SY	3	1000	\$3000.00
	BITUMINOUS TREATED ROVING, WATERWAYS						Section SUB TOTAL	\$13000.00
163-1000	***** TEMPORARY EROSION CONTROL *****				LS	20000	LUMP	\$20000.00
163-1041	EROSION CONTROL-BR-0002-00(735)				EA	9400	1	\$9400.00
163-2051	CONSTR, MAINT & REM SEDIMENT BASIN, TP 1				LF	3	1500	\$4500.00
171-0010	CONSTR, MAINT AND REMOVE BALED STRAW EROSION CHECK				LF	3	1500	\$4500.00
171-0030	TEMPORARY SILT FENCE, TYPE A				LF	5	1500	\$7500.00
	TEMPORARY SILT FENCE, TYPE C						Section SUB TOTAL	\$45900.00
500-3101	***** 4-10'X10' BRIDGE CULVERT AT LITTLE INDIAN CREEK *****				CY	400	460	\$184000.00
511-1000	CLASS A CONCRETE				LB	0.6	56500	\$33900.00
540-1101	BAR REINF STEEL				LS	15000	LUMP	\$15000.00
603-2181	REMOVAL OF EXISTING BR, STA NO -				SY	50	100	\$5000.00
	STN DUMPED RIP RAP, TP 3, 18 IN						Section SUB TOTAL	\$237900.00
100-0001	***** INFLATION AND E & C *****				LS	130000	LUMP	\$130000.00
100-0002	INFLATION (5% FOR 5 YRS)				LS	60000	LUMP	\$60000.00
	E & C (10%)						Section SUB TOTAL	\$190000.00
							Total Project Cost	\$663220.88

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0002-00 (735) Morgan County
P.I NO. 0002735

OFFICE: Tennille Utilities

DATE: March 13, 2002

JFH/DAS
FROM James F. Hobby, Jr., District Utilities Engineer

TO David Griffith, District Preconstruction Engineer
Att: George Brewer

SUBJECT UTILITY COST ESTIMATE

This office has performed a field investigation to determine the extent of utility conflicts with the above subject project and estimate any utility relocation cost involved. BellSouth is the only company that has facilities within the project limits. These appear to be located on the existing Right of Way and should not be eligible for reimbursement.

Estimated Utility Relocation Costs..... \$0,000.00

Should you have questions, please contact Alan Smith in the Utilities Section of this office at 478-552-4637.

JFH:DAS

CC: Jeff Baker / Scott Greene via e-mail

FLEXIBLE PAVEMENT DESIGN ANALYSIS

Project: BR-0002-00(735)

County: Morgan

P.I. no.: 0002735

Description: Bridge Replacment on CR 116 at Little Indian Creek

Traffic Data (NOTE: AADTs are one-way)

24-hour Truck Percentage: 3.00%

AADT initial year of design period: 125 vpd (2007)

AADT final year of design period: 200 vpd (2027)

Mean AADT (one-way): 162 vpd

Design Loading

Mean AADT	LDL	Trucks	18-K ESAL	Total Daily Loads
162 *	1.00 *	0.030 *	0.51 =	3

Total predicted design period loading = $3 * 20 * 365 = 21,900$

Design Data

Terminal Serviceability Index: 2.50

Soil Support: 2.50

Regional Factor: 1.60

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness mm	Thickness (in.)	Structural Coefficient	Structural Value
9.5 mm Superpave	40	(1.57)	0.0173	0.69
19 mm Superpave	50	(1.97)	0.0173	0.86
25 mm Superpave	24	(0.94)	0.0173	0.42
	76	(2.99)	0.0118	0.90

Required SN = 2.44

Proposed SN = 2.87

>>> Proposed pavement is 17.7% Overdesign <<<

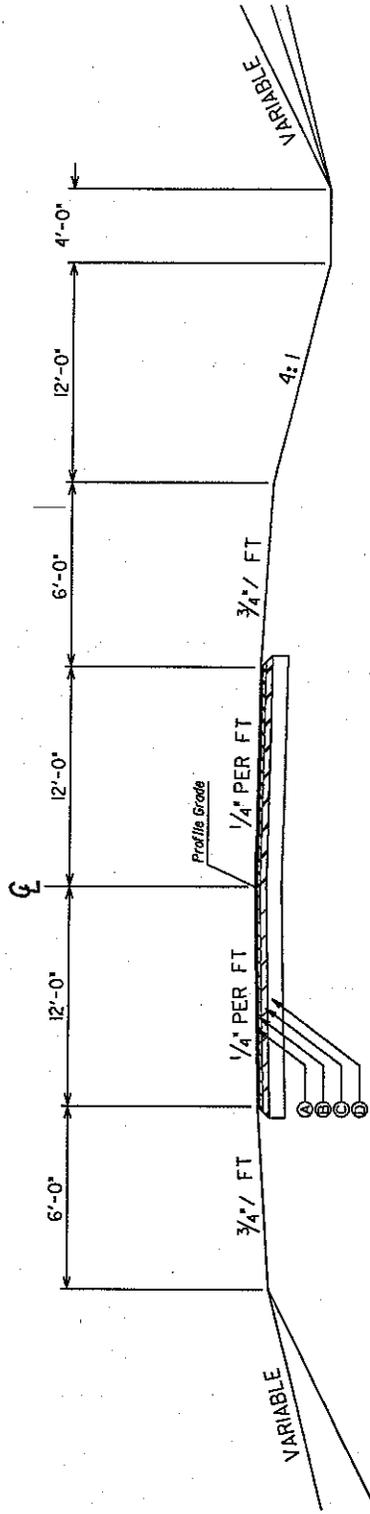
Remarks:

Prepared by George Brewer, District Design Engineer January 11, 2002
Date

Recommended State Materials & Research Engineer
Date

Approved District Engineer
Date

TYPICAL SECTION



NOTICE OF LOCATION AND DESIGN APPROVAL

**BR-0002-00(735) MORGAN COUNTY
P. I. NUMBER 0002735**

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 the above project.

The date of location approval was _____
Date of Approval

This project proposes to replace the structurally deficient bridge on County Road 116 (Aqua Road) over Little Indian Creek south of Madison.

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

Bryan K. Gibbs
bryan.gibbs@dot.state.ga.us
1570 Bethany Road
Madison, Georgia 30650

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:

DAVID O. GRIFFITH
PRECONSTRUCTION ENGINEER
P.O. BOX 8
TENNILLE, GA 31089
(478)552-4629

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



L 110 200

Department of Transportation

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

J. TOM COLEMAN, JR.
COMMISSIONER
(404) 656-5206

FRANK L. DANCHETZ
CHIEF ENGINEER
(404) 656-5277

HAROLD E. LINNENKOHL
DEPUTY COMMISSIONER
(404) 656-5212

BILLY F. SHARP
TREASURER
(404) 656-5224

July 12, 2001

LOCAL GOVERNMENT PROJECT AGREEMENT

In consideration of the proposed improvements, MORGAN County agrees to provide or perform the following at no cost to the Georgia D.O.T. for project BR-0002-00(735) Morgan Co., PI # 0002735: BRIDGES CR 116/ AQUA RD @ LITTLE INDIAN CREEK 5.7 MI SO. OF MADISON

- Provide all rights-of-way and/or easements needed for the construction of the project and remove existing structures or obstructions within the rights-of-way.*
- Make all utility relocations, adjustments or betterments of publicly owned utilities that are in conflict with construction of this project. Reimburse Georgia D.O.T. for any damages paid to the contractor for delay of construction caused by a delay in relocating the publicly owned utilities.*
- Relocate or adjust all privately owned utilities to clear construction of this project, including adjustments at railroad crossings if required.*
- Furnish detours, local borrow and waste pits as needed.*
- We support this project but choose not to commit any funding, realizing this may delay the project until additional funding can be found.*

This 17th day of July, 2001

APPROVED *William M. Nelson*
Chairman
City/County Official

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: BR-0002-00(735)

County: Morgan

P. I. Number: 0002735

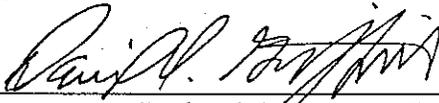
Federal Route Number: None

State Route Number: None

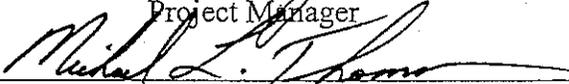
County Road Number: 116

Recommendation for approval:

DATE 5/10/02


Project Manager

DATE 5-13-02

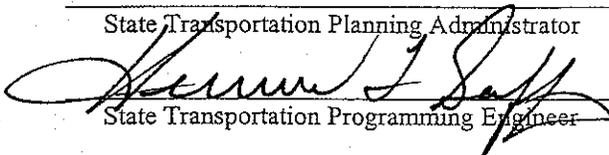

District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE 5-15-02


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
PROJECT CONCEPT REPORT**

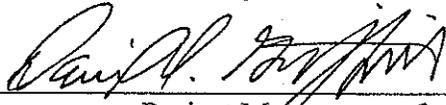
District Two Design Office

Project Number: *BR-0002-00(735)*
County: *Morgan*
P. I. Number: *0002735*

Federal Route Number: *None*
State Route Number: *None*
County Road Number: *116*

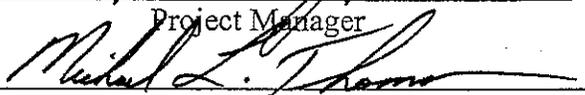
Recommendation for approval:

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Project Manager

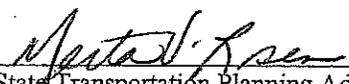
DATE 5-13-02



District Engineer

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DATE 5/17/02



State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

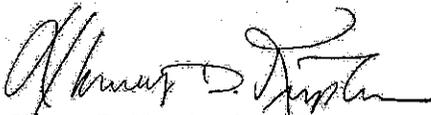
Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0002735 OFFICE: Environment/Location
DATE: May 22, 2002
FROM: 
Harvey D. Keepler, State Environmental/Location Engineer
TO: Wayne Hutto, P.E., Assistant Director of Preconstruction
SUBJECT: **PROJECT CONCEPT REPORT**
STP-000-00(735), MORGAN COUNTY

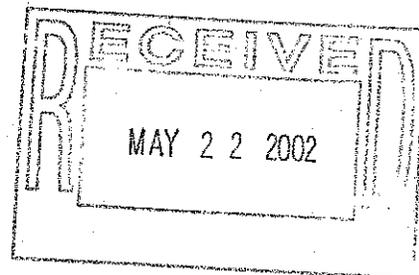
The above subject concept report has been reviewed. Page 4 - Environmental Concerns include stream impacts. Replacing the bridge with a culvert will require stream mitigation. The costs of stream mitigation and a bridge, and/or a bottomless culvert should be analyzed and balanced in light of the additional time and expense that will be required of the Department to develop mitigation. Currently, no commercially available mitigation is located to service project needs.

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

HDK/rtt

Attachment

cc: David Mulling
George Brewer



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

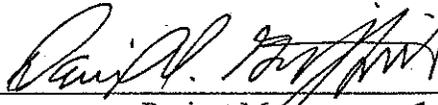
District Two Design Office

Project Number: *BR-0002-00(735)*
County: *Morgan*
P. I. Number: *0002735*

Federal Route Number: *None*
State Route Number: *None*
County Road Number: *116*

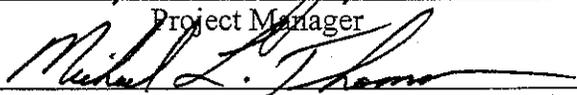
Recommendation for approval:

DATE 5/10/02



Project Manager

DATE 5-13-02



District Engineer

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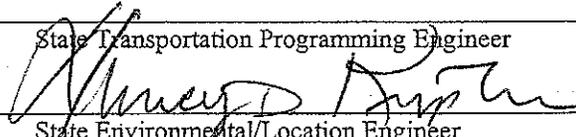
DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE 5/20/02



State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer