

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0001365, Toombs County **OFFICE** Preconstruction
BR-0001-00(365)
SR 1 over Swift Creek –
Bridge Replacement **DATE** March 21, 2007

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

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

SUBJECT **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
Glenn Durrence
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No. 0001365, Toombs County **OFFICE:** Preconstruction
BR-0001-00(365)
SR 1 over Swift Creek - Bridge Replacement **DATE:** March 8, 2007

FROM: *Genetha Rice*
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 1 over Swift Creek, 1.75 miles north of Lyons, Georgia. The existing bridge, constructed in 1940, is load limited with a sufficiency rating of 41. State Route 1 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 1 is functionally classified as a rural principal arterial. Traffic is projected to be 4,300 VPD and 7,000 VPD in the years 2005 and 2025 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new 300' x 44' concrete bridge over Swift Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 10' rural shoulders (4' paved). Traffic will be detoured via an on-site drainage structure and temporary detour road constructed parallel and east of the existing bridge.

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

The estimated costs for this project are:

	PROPOSED	APPROVED	FUNDING	PROG DATE
Construction (includes E&C and inflation)	\$2,202,000	\$2,202,000	LICO	LR
Right-of-Way	\$ 55,000	\$ 55,000	LICO	2011
Utilities*	-0-			

*Toombs County signed LGPA for utilities 10-20-00; rescission letter sent to Toombs County 4-27-05.

David Studstill
Page 2

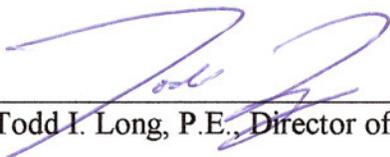
P. I. No. 0001365, Toombs
March 8, 2007

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: BR-0001-00(365) Toombs County **OFFICE:** Engineering Services
P.I. No. 0001365
Bridge Replacement on SR 1 over Swift Creek

DATE: February 21, 2007

FROM: ^{BKS} Brian K. Summers, P.E., Project Review Engineer

TO: Genetha Rice-Singleton Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report received February 21, 2007 from Yun Tang, and have the following comments.

The right of way costs must be reviewed and approved by the Office of Right of Way.

The costs for this project are:

Construction	\$2,097,575
E & C	\$ 104,878
Reimbursable Utilities	\$ 0
Right of Way	\$ 55,000

BKS

c: Babs Abubakari, Attn.: Yun Tang

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Program Delivery and Consultant Design**

PROJECT CONCEPT REPORT

PROJECT NUMBER: BR-0001-00(365)

County: Toombs

Project P.I. Number: 0001365

Federal Route Number: 1

State Route Number: 4

S.R.4/U.S.1 at Swift Creek Bridge Replacement

[see page 3 for location sketch]

Recommendation for Approval:

Date: Feb 21, 2007

Yun Tang, PE
Project Manager

Date: Feb 21, 2007

M. Babs Abubakari

This 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 Program (STIP).

Date: _____

State Transportation Planning Administrator

Date: _____

State Transportation Financial Management Administrator

Date: _____

State Environmental/Location Engineer

Date: _____

State Traffic Safety and Design Engineer

Date: _____

District Engineer

Date: _____

State Project Review Engineer

Date: 3/12/07

Paul V. Tuttle Jr

Bridge Design

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Program Delivery and Consultant Design**

PROJECT CONCEPT REPORT

PROJECT NUMBER: BR-0001-00(365)

County: Toombs

Project P.I. Number: 0001365

Federal Route Number: 1

State Route Number: 4

S.R.4/U.S.1 at Swift Creek Bridge Replacement

[see page 3 for location sketch]

Recommendation for Approval:

Date: Feb 21, 2007

Yun Tang, PE
Project Manager

Date: Feb 21, 2007

M. Babs Abubakari

This 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 Program (STIP).

Date: ~~2~~

State Transportation Planning Administrator

Date: 2-22-07

James T. Simpson
State Transportation Financial Management Administrator

Date: _____

State Environmental/Location Engineer

Date: _____

State Traffic Safety and Design Engineer

Date: _____

District Engineer

Date: _____

State Project Review Engineer

Date: _____

Bridge Design

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0001365

OFFICE: Environment/Location

DATE: March 2, 2007

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

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

**SUBJECT: PROJECT CONCEPT REPORT
BR-0001-00(365) / Toombs County**

The above subject concept report has been reviewed. Project may require buffer variance for tributaries to Swift Creek. Needs winter survey for species.

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

HDK:lc

Attachment

cc: Brian Summers
Babs Abubakari
Keith Golden
Angela Alexander
Jamie Simpson
Glenn Durrence
Paul Liles

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Program Delivery and Consultant Design**

PROJECT CONCEPT REPORT

PROJECT NUMBER: BR-0001-00(365)

County: Toombs

Project P.I. Number: 0001365

Federal Route Number: 1

State Route Number: 4

S.R.4/U.S.1 at Swift Creek Bridge Replacement

[see page 3 for location sketch]

Recommendation for Approval:

Date: Feb 21, 2007

Yun Tang, PE
Project Manager

Date: Feb 21, 2007

M. Babs Abubakari

This 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 Program (STIP).

Date: _____

State Transportation Planning Administrator

Date: _____

State Transportation Financial Management Administrator

Date: 3/2/07

[Signature]
State Environmental/Location Engineer

Date: _____

State Traffic Safety and Design Engineer

Date: _____

District Engineer

Date: _____

State Project Review Engineer

Date: _____

Bridge Design

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

MEMORANDUM

FILE BR-00001-00(365) Toombs Office Planning
P.I. 0001365
DATE 3/2/07

FROM Angela T. Alexander, State Transportation Planning Administrator

TO Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT Revised Concept Report - Toombs County
BR-0001-00(365), P.I. 00001365

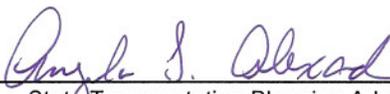
The Planning Office was requested by Preconstruction to verify if the subject project was identified in the FY '07-'09 STIP. PE was authorized in 2006. Right-of-Way and Construction phases are currently outside of the currently approved FY07-09 STIP. The project will be moved into the STIP as funding allows. This project, as defined in the concept report, is consistent with the project description which will appear in the STIP.

KBM

Attachment

Date:

3-7-07


State Transportation Planning Administrator

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Program Delivery and Consultant Design**

PROJECT CONCEPT REPORT

PROJECT NUMBER: BR-0001-00(365)

County: Toombs

Project P.I. Number: 0001365

Federal Route Number: 1

State Route Number: 4

S.R.4/U.S.1 at Swift Creek Bridge Replacement

[see page 3 for location sketch]

Recommendation for Approval:

Date: Feb 21, 2007

Yun Tang, PE
Project Manager

Date: Feb 21, 2007

M. Babs Abubakari

This 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 Program (STIP).

Date: _____

State Transportation Planning Administrator

Date: _____

State Transportation Financial Management Administrator

Date: _____

State Environmental/Location Engineer

Date: _____

State Traffic Safety and Design Engineer

Date: _____

District Engineer

Date: 2/21/07

[Signature]
State Project Review Engineer

Date: _____

Bridge Design

SCORING RESULTS AS PER MOG 2440-2

Project Number: BR-0001-00(365)		County: Toombs		PI No.: 0001365	
Report Date: February 21, 2007		Concept By: DOT Office: OCD			
<input checked="" type="checkbox"/> Concept Stage					
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

NOTICE OF LOCATION AND DESIGN APPROVAL

Project Name	Project Number	P.I. Number	County
SR4/US1 at Swift Creek Bridge Replacement	BR-0001-00(365)	001365	Toombs

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location and design approval is MARCH 21, 2007

Descriptions of the Proposed Project:

This project is located in Toombs County in the 3rd U.S. Congressional District, in GMD 1536, in the Headright District of Toombs County.

Descriptions of the Proposed Construction:

The proposed bridge replacement on SR4/US1 over Swift Creek will have a total length of approximately 1800 linear feet with the existing bridge located near the center of the project. SR4/US1 is currently signed at 50 mph. The existing bridge has a length of 300'. The replacement bridge will have an approximate length of 300'. The alignment will remain in the existing location.

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:

Michelle Wright, Area Engineer
Michelle.wright@dot.state.ga.us
739 East Barnard Street
Glennville, GA 30427
Telephone: (912) 654-2940

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:

Glenn Durrence, District Engineer
Glenn.durrence@dot.state.ga.us
PO Box 610
Jesup, GA 31598
Telephone (912) 427-5711

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 **PROJECT NUMBER: BR-0001-00(365) PI No. 001365**
Toombs County
S.R.4/U.S.1 at Swift Creek Bridge Replacement

OFFICE Consultant Design

M. Babs Abubakari

FROM Babs Abubakari, P.E., State Consultant Design and Program Delivery
Engineer

DATE Feb 21, 2007

TO Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT **PROJECT CONCEPT REPORT**

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

Distribution:

Brian Summers -- State Project Review Engineer
Harvey Keepler -- State Environment/ Location Engineer
Keith Golden -- State Traffic Operations Engineer
Angela Alexander -- State Transportation Planning Administrator
Jamie Simpson -- State Transportation Financial Management Administrator
Glenn Durrence -- District 5 Engineer
Paul Liles, Jr. -- State Bridge Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Program Delivery and Consultant Design**

PROJECT CONCEPT REPORT

PROJECT NUMBER: BR-0001-00(365)

County: Toombs

Project P.I. Number: 0001365

Federal Route Number: 1

State Route Number: 4

S.R.4/U.S.1 at Swift Creek Bridge Replacement

[see page 3 for location sketch]

Recommendation for Approval:

Date: Feb 21, 2007

Yun Tang, PE
Project Manager

Date: Feb 21, 2007

M. Babs Abubakari

This 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 Program (STIP).

Date: _____

State Transportation Planning Administrator

Date: _____

State Transportation Financial Management Administrator

Date: _____

State Environmental/Location Engineer

Date: _____

State Traffic Safety and Design Engineer

Date: _____

District Engineer

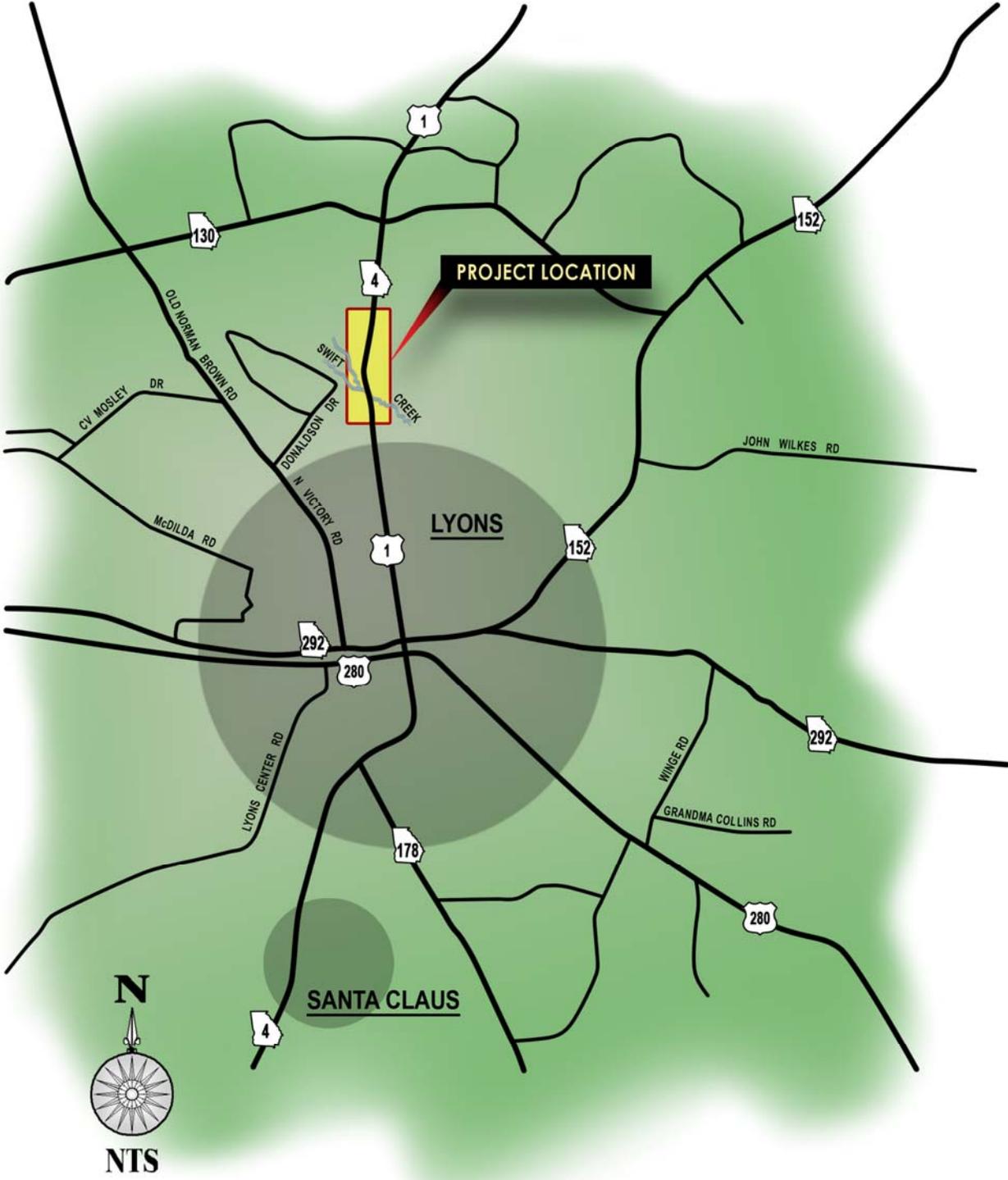
Date: _____

State Project Review Engineer

Date: _____

Bridge Design

SITE LOCATION MAP



Need and Purpose: Project Number BR-0001-00(365) will replace the structurally deficient bridge located on State Route 4/US 1, over Swift Creek, just north of the City Limits of Lyons. The bridge is located in Toombs County. The bridge connects SR 4/US 1 over Swift Creek to points north and east in Toombs County and beyond to Emanuel County (please see location map on page two). The project extends for approximately .4 mile at road inventory milepost 21.32.

The bridge was constructed in 1940. The bridge sufficiency rating is 41.31. The bridge is being replaced as per DOT policy 2405-1. The Office of Bridge Maintenance has determined that any bridge with a bridge sufficiency rating below 50 should be replaced. This project will replace the existing two-lane bridge.

State Route 4/US 1 is functionally classified as a principal arterial. SR 4/US 1 has two-way traffic and is a two-lane facility. It is part of the National Highway System and is a local school bus route. It is not a Truck Route, is not part of STRAHNET, and is not part of the Statewide Bicycle Plan. It is not a locally designated bikeway or bike route. The posted northbound speed limit is 50 mph, and the posted southbound speed limit is 55 mph. Sidewalks are not planned for the route.

The Average Annual Daily Traffic (AADT) along this section of roadway was 3,600 in 2002 (Bridge Inventory); and 4,300 in 2005 (OEL) and 5,400 in 2022 (Bridge Inventory) and 7,000 ADT in 2025 (OEL). Truck traffic is estimated at 10% of all traffic (Bridge Inventory).

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

Description of the proposed project: The proposed bridge replacement on SR4/US1 over Swift Creek will have a total length of approximately 1800 linear feet with the existing bridge located near the center of the project. SR4/US1 is currently signed at 50 mph northbound and 55 mph southbound. The existing bridge has a length of 300'. The replacement bridge will have an approximate length of 300'. The alignment will remain in the existing location.

Is the project located in a Non-Attainment area? No.

PDP Classification: Major Project () Minor Project (X)

Project Designation: Full Oversight () Exempt (X) State Funded () Other ()

Functional Classification: Rural Principal Arterial

U.S. Route Number: 1

State Route Number: 4

Traffic (AADT – 2002 counts) – 3600 v.p.d.

Traffic Projections (AADT) - Base Year 2005 – 4300 v.p.d.

Traffic Projections (AADT) - Design Year 2025 – 7000 v.p.d.

Existing Design Features:

- SR 4 is a two-lane rural roadway with a 50 mph northbound speed limit and a 55 mph southbound speed limit. The adjacent land use is agricultural with scattered residential and commercial structures.
- Typical Section: Two 12-foot travel lanes with 2-foot paved shoulders and 6-foot unpaved shoulders. Slopes vary from 2:1 to 4:1.
- Posted Speed: 50 mph northbound and 55 mph southbound
- Maximum Radius: 5,500 feet
- Maximum Grade (mainline): 0.5%
- Maximum Grade (driveway): 17%
- Width of Right-Of-Way: 100 feet
- Major Structures: Bridge, Structure ID 279-0009-0, 300' long, 30.1' deck width, 41.31 Suff. rating
- Major interchanges or intersections along the project: none
- Existing length of roadway segment: 0.28 miles

Proposed Design Features:

- Proposed Typical Sections: One 12-foot through lane in each direction with a 10-foot shoulder, 4-foot paved and 6-foot grassed. Slopes will vary from 2:1 in areas with guardrail to 4:1 in areas without guardrail.
- Proposed Design Speed: 55 mph
- Proposed Maximum Grade: 0.5%
- Maximum Grade Allowable: 9%
- Proposed Maximum Grade (Driveway): 25%
- Proposed Minimum Radius: 5500'
- Minimum Radius Allowable: 960'
- Right of Way
 - Width: Varies 135 feet -192 feet
 - Easements: Temporary () Permanent (X) Utility () Other ()
 - Type of access Control: Full () Partial () By Permit (X) Other ()
 - Number of Parcels: 5
 - Number of Displacements:
 - Business: 0
 - Residences: 0
 - Mobile Homes: 0
 - Other: 0
- Structures: Bridge approximately 300 feet long and 46 feet-10 inches wide
- Major intersections and interchanges: N/A
- Traffic control during construction: A temporary bridge will be constructed to the east of the existing bridge for traffic to utilize while the new bridge is constructed. All driveway access will be maintained during construction.

- Design Exceptions to controlling criteria anticipated:

	Undetermined	Yes	No
Horizontal Alignment			X
Roadway Width			X
Shoulder Width			X
Vertical Grades			X
Cross Slopes			X
Stopping Site Distance			X
Super Elevation Rates			X
Horizontal Clearance			X
Speed Design			X
Vertical Clearance			X
Bridge Width			X
Bridge Structural Capacity			X

- Design Variances: None
- Environmental Concerns: Stream Crossing, Wetland Area
- Level of Environmental Analysis:
 - Are Time Saving Procedures appropriate? Yes () No (X)
 - Categorical Exclusion? Yes (X) No ()
 - Environmental Assessment/Finding of No Significant Impact – N/A
 - Environmental Impact Statement – N/A
- Utility Involvements:
 - Altamaha EMC
 - Bellsouth
 - City of Lyons Sewer and Water
 - Northland Cable Television

Project Responsibilities:

- Design – GDOT
- Right-of-Way Acquisition – GDOT
- Relocation of Utilities – GDOT
- Letting to Contract – GDOT
- Supervision of Construction – GDOT
- Providing Material Pits – Contractor
- Providing Detours – GDOT

Coordination

- Initial Concept Meeting Date: N/A
- Concept meeting date and brief summary: 12/6/06
- P.A.R meetings, dates and results: N/A
- FEMA, USCG and/or TVA: TBD
- Public Involvement: N/A
- Local Government Comments: TBD
- Other Projects in the area: None
- Other Coordination to date: None

Scheduling – Responsible Parties Estimate

Time to complete environmental process: 6 months

Time to complete preliminary construction plans: 2 month

Time to complete right-of-way plans: 1 month

Time to complete the Section 404 permit: 2 months

Time to complete final construction plans: 1 month

Time to complete the purchase of right-of-way: 6 months

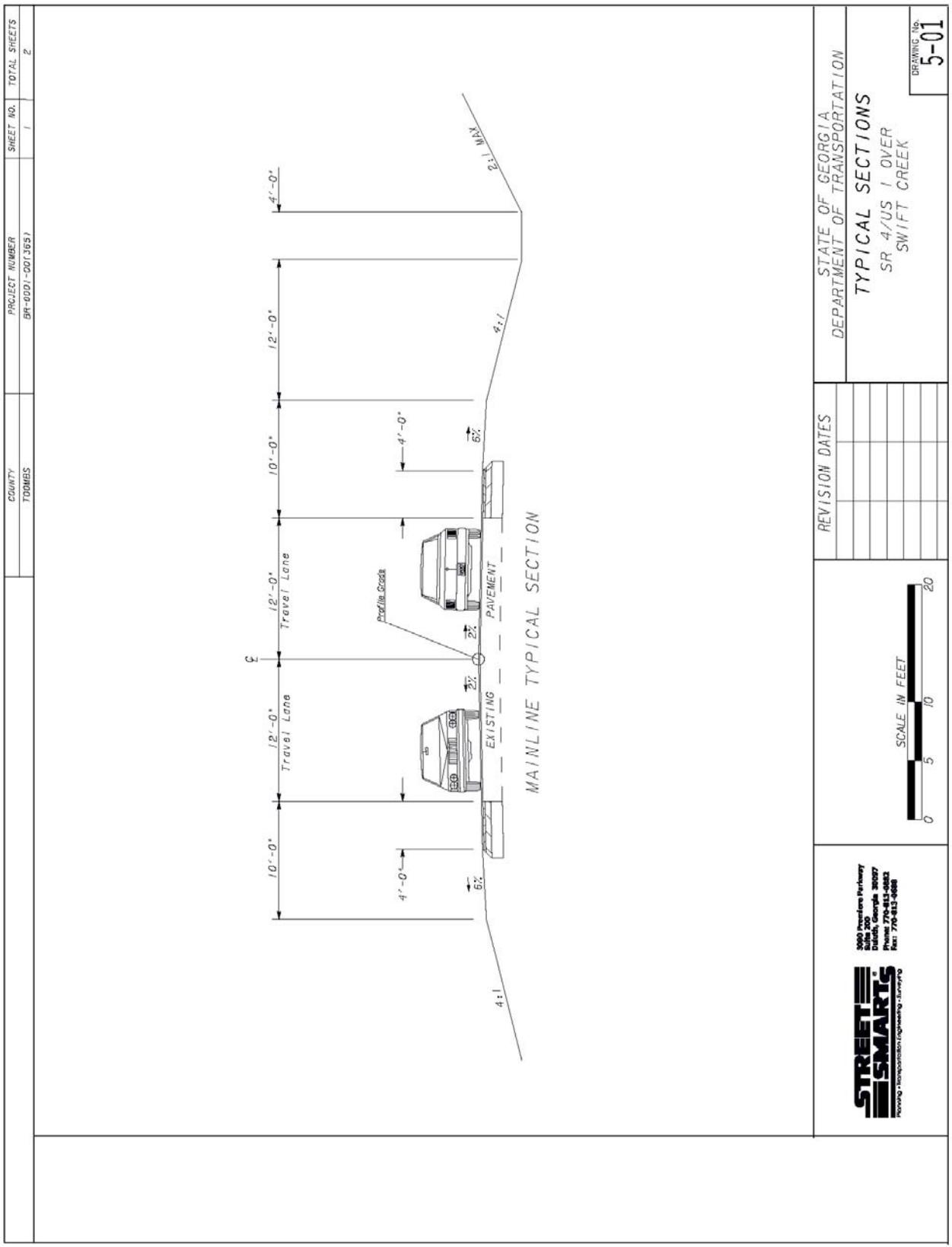
List other major items that will affect the project schedule: None

Other Alternates Considered:

1. No Build. The No Build option is not a viable one since it does not address the structural deficiencies in the bridge and therefore does not meet the need and purpose of the project.
2. Realign US1 and build a new bridge parallel to the existing bridge. The existing alignment of US1 has no sharp curves. Introducing two sets of reverse curves would decrease the safety of the roadway.
3. Build a temporary bridge to the west of the existing alignment. Utility lines are located on the west side of the bridge.

Attachments:

1. Roadway Typical Section
2. Bridge Typical Section
3. Concept Plan
4. Detour Concept Plan
5. Traffic Volumes
6. Bridge Inventory Data Sheets
7. Cost Estimate
8. Notice of Location and Design



STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	REVISION DATES	SCALE IN FEET 0 5 10 20	DRAWING NO. 5-01
TYPICAL SECTIONS SR 4/US 1 OVER SWIFT CREEK			
<p>3000 Peachtree Parkway Suite 200 Atlanta, Georgia 30327 Phone: 770-413-4833 Fax: 770-413-4888</p>			

COUNTY TOOMBS	PROJECT NUMBER BR-0001-00(365)	SHEET NO. 2	TOTAL SHEETS 2
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BRIDGE SECTION

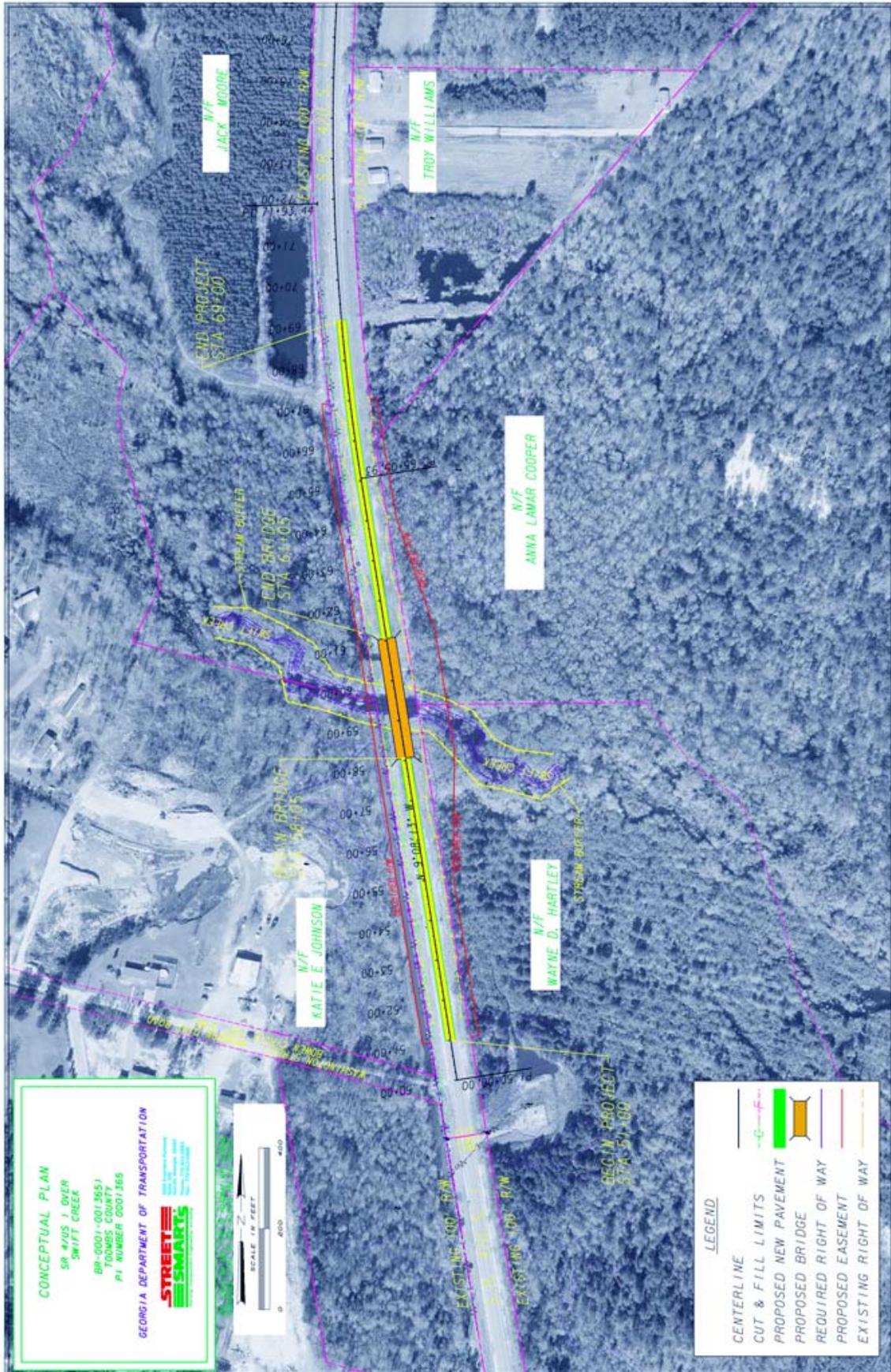
STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS SR 4/US 1 OVER SWIFT CREEK	REVISION DATES	SCALE IN FEET 	DRAWING NO. 5-02
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STREET SMARTS
 ENGINEERING & SURVEYING
 3000 Peachtree Parkway
 Suite 200
 Atlanta, Georgia 30027
 Phone: 770-413-4833
 Fax: 770-413-4888

Concept Team Meeting Notes

Name	E-Mail Address	Phone Number	Organization
Yun Tang	yun.tang@dot.state.ga.us	404-463-0290	GDOT
Teresa Scott	teresa.scott@dot.state.ga.us	912-427-5788	GDOT
George Shenk	george.shenk@dot.state.ga.us	912-427-5859	GDOT Utilities
Rodney Howard	rodney.howard@dot.state.ga.us	912-654-2940	GDOT Construction
Michelle Wright	michelle.wright@dot.state.ga.us	912-654-2940	GDOT Glennville
W. Ron Nelson	Ron.nelson@dot.state.ga.us	912-654-2940	GDOT Glennville
Rick Hartley	hartley@nctv.com	912-526-3626	City of Lyons
David Karkkainen	david.karkkainen@bellsouth.com	912-537-7840	Bellsouth
Andy Anderson	andya@streetsmarts.us	770-813-0882	Street Smarts
Kim Baker	kimb@streetsmarts.us	770-813-0882	Street Smarts

1. Andy Anderson (Street Smarts) presented the project and the Concept Report.
2. The existing shoulders should be changed to 2-foot paved and 6-foot unpaved.
3. The water and sewer utility lines are trenched under the creek bed and should be considered during construction for the crane placement.
4. The existing speed limit is 50 mph northbound and 55 southbound.
5. The cable TV utility lines are attached to the bridge.
6. A third alternate should be added to the report describing why the temporary bridge is to the east of the existing bridge. Existing utility lines are to the west of the existing bridge.



CONCEPTUAL PLAN
 SR 4/US 1 OVER
 SWIFT CREEK
 BR-0001-00(365)
 TOOMBS COUNTY
 PI NUMBER 001365

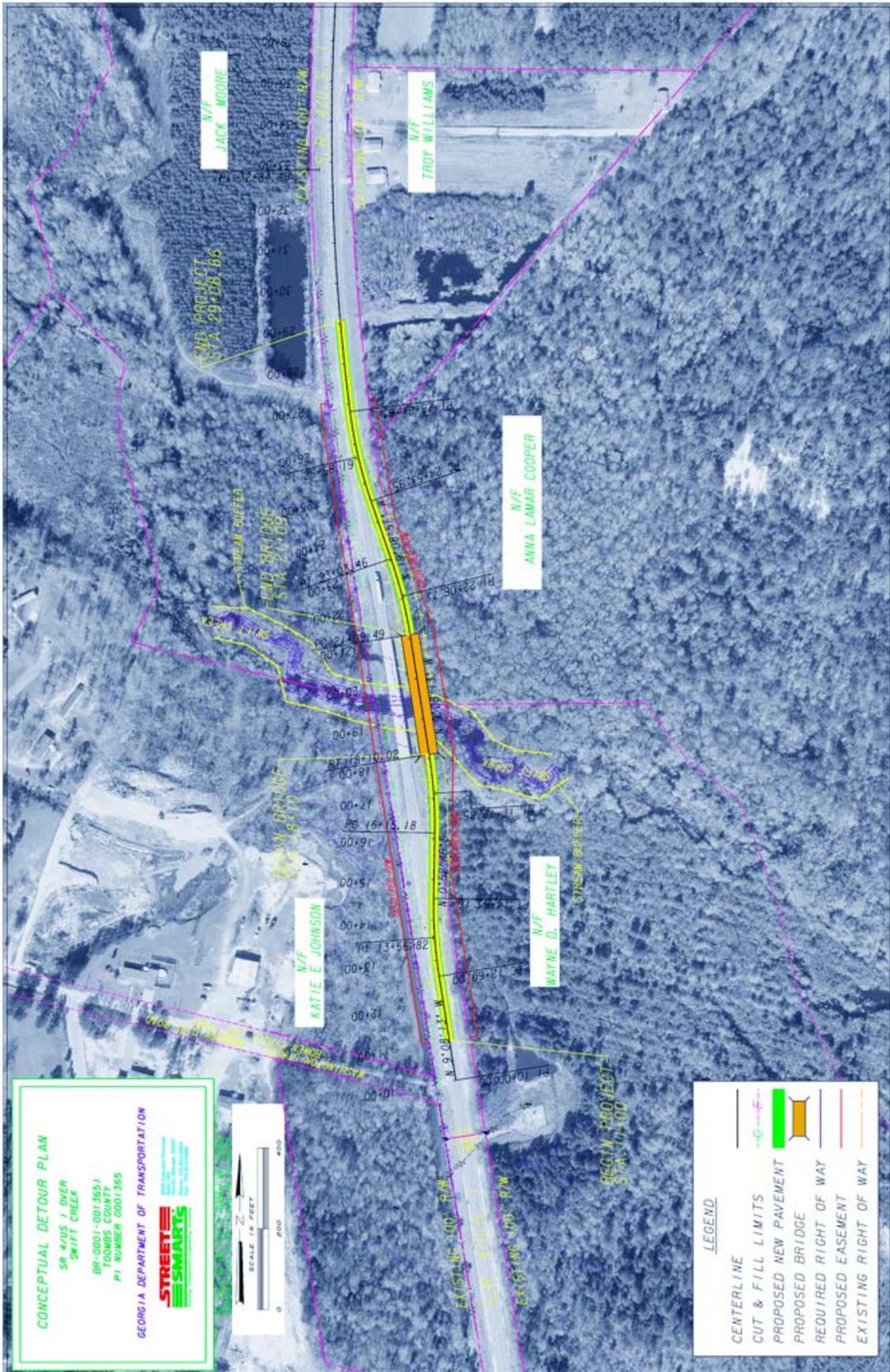
GEORGIA DEPARTMENT OF TRANSPORTATION

STREET & SMARTS

SCALE IN FEET
 0 400 800

LEGEND

- CENTERLINE
- CUT & FILL LIMITS
- PROPOSED NEW PAVEMENT
- PROPOSED BRIDGE
- REQUIRED RIGHT OF WAY
- PROPOSED EASEMENT
- EXISTING RIGHT OF WAY



Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0001-00(365) Toombs Co. **OFFICE** Environment/ Location
P.I.# 0001365 **DATE** November 1, 2000

FROM Harvey D. Keeper, State Environmental/ Location Engineer

TO Jim Chambers, Office of Consultant Services
Attn: Ted Cashin

SUBJECT SR 4/US 1 @ Swift Creek

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

2005 ADT = 4300
2025 ADT = 7000
K = 9%
D = 60%
T = 8%
24 HR T = 10%
SU = 4%
COMB = 6%

If you have any questions concerning this information please contact
Gary Langford at (404)699-4404.

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID:	279-0009-0	Toombs	SUFF. RATING	41.31
Location & Geography				
* Structure I.D.No:	279-0009-0	104 Highway System:	1	
* 200 Bridge Information	06	* 26 Functional Classification:	02	225 Expansion Joint Type: 02
* 6A Feature Int:	SWIFT CREEK	* 204 Federal Route Type:	F	No.: 00381
* 6B Critical Bridge:	0	* 105 Federal Lands Highway:	0	242 Deck Drains: 1
* 7A Route Number Carried:	SR00004	* 110 Truck Route:	0	243 Parapet Location: 0
* 7B Facility Carried:	US 1	* 206 School Bus Route:	1	Height: 0.00
* 9 Location:	1.75 MILES NORTH OF LYONS	* 217 Benchmark Elevation:	0161.25	Width: 0.00
* 2 DOT District:	5	* 218 Datum:	2	238 Curb: 1.20 1
* 207 Year Photo:	2005	* 19 Bypass Length:	03	239 Handrail: 1 1
* 91 Inspection Frequency:	24 Date: 07/06/2005	* 20 Toll:	3	* 240 Median Barrier Rail: 0
* 92A Fract Cnt Insp Freq:	00 Date: 02/01/1901	* 21 Maintenance:	01	241 Bridge Median Height: 0.00
* 92B Underwater Insp Freq:	00 Date: 02/01/1901	* 22 Owner:	01	Width: 0.00
* 92C Other Spc. Insp Freq:	00 Date: 02/01/1901	* 31 Design Load:	2	
* 4 Place Code:	000000	* 37 Historical Significance:	5	
* 5 Inventory Route (O/U):	1	* 205 Congressional District:	03	* 230 Guardrail Loc Dir Rear: 3
Type:	2	* 27 Year Constructed:	1940	Fwrd: 3
Designation:	1	* 106 Year Reconstructed:	0000	Oppo Dir Rear: 0
Number:	00001	* 33 Bridge Median:	0	Fwrd: 0
Direction:	0	* 34 Skew:	00	244 Approach Slab: 0
* 16 Latitude:	32-13.7	* 35 Structure Flared:	0	224 Retaining Wall: 0
* 17 Longitude:	82-19.6	* 38 Navigation Control:	0	233 Posted Speed Limit: 50
* 98 Border Bridge:	000	* 213 Special Steel Design:	0	236 Warning Sign: 1
MMS Suffix:	00	* 267 Type of Paint:	0	234 Delineator: 1
%Shared:	00	* 42 Type of Service on:	1	235 Hazard Boards: 1
* 99 ID Number:	0000000000000000	* 214 Movable Bridge:	0	237 Utilites Gas: 00
* 100 STRAHNET:	0	* 203 Type Bridge:	O-O-O-O	W 00
* 12 Base Highway Network:	1	* 259 Pile Encasement:	3	Ele 00
* 13A LRS Inventory Route:	2791000400	* 43 Structure Type Main:	1	Telephone: 22
* 13B Sub Inventory Route:	0	* 45 No. Spans Main:	010	Se 00
* 101 Parallel Structure:	N	* 44 Structure Type Appr:	0	0000
* 102 Direction of Traffic:	2	* 46 No. Spans Appr:	0	247 Lighting Street: 0
* 264 Road Inventory Mile Post:	021.32	* 226 Bridge Curve Horiz:	0	Navigation: 0
* 208 Inspection Area:	10	* 111 Pier Protection:	0	Aerial: 0
Engineer's Initial:	jal	* 107 Deck Structure Type:	1	
* Location I.D. No.:	279-00004D-021.26N	* 108 Wearing Surface Type:	1	* 248 County Continuity No.: 05
		M4	8	
		F	8	

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 279-0009-0 Toombs	SUFF. RATING 41.31
Measurements	
* 29 ADT: 003850 Year: 2004 109 % Trucks: 10 * 28 Lanes On: 02 Under: 00 210 No. Tracks On: 00 Under: 00 * 48 Max. Span Length: 0030 * 49 Structure Length: 300 51 Br. Rwdy. Width: 23.70 52 Deck Width: 30.10 * 47 Tot. Horz. Cl: 23.70 50 Curb/SideWlk Width: 2.00/2.00 * 32 Approach Rdwy Width: 028 * 229 Shoulder Width: Rear Lt: 2.00 Type: 2 Rt: 2.00 Fwd Lt: 2.00 Type: 2 Rt: 2.00 Pavement Width: Rear: 24.00 Type: 2 Fwd: 24.00 Type: 2 Intersection Rear: 0 Fwd: 0 36 Safety Features Br. Rail: Transition: 2 App. G. Rail: 2 App. Rail End: 2 53 Minimum Cl.Over: Under: N * 228 Min. Vertical Cl Act. Odsm Dir: 99 ' 99 " Oppo. Dir: 99 ' 99 " Posted Odsm. Dir: 00 ' 00 " Oppo. Dir: 00 ' 00 " 55 Lateral Undercl. Rt: N 99.90 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: 8.00 Deck Thick Approach: 0.00 246 Overlay Thickness: 0.00 212 Year Last Painted: Sup: 0000 Sub: 0000	65 Inventory Rating Method: 1 63 Inventory Rating Method: 1 66 Inventory Type: 2 Rating: 25 64 Operating Type: 2 Rating: 42 231 Calculated Loads H-Modified: 21 0 HS-Modified: 29 0 Type 3: 22 0 Type 3s2: 36 0 Timber: 33 0 Piggyback: 40 0 261 H Inventory Rating: 18 262 H Operating Rating: 31 67 Structural Evaluation: 4 58 Deck Condition: 7 59 Superstructure Condition: 4 * 227 Collision Damage: 0 60A Substructure Condition: 5 60B Scour Condition: 7 60C Underwater Condition: N 71 Waterway Adequacy: 6 61 Channel Protection Cond: 6 68 Deck Geometry: 2 69 UnderClr. Horz/Vert: N 72 Appr. Alignment: 8 62 Culvert: N
Hydraulic Data	
215 Waterway Data Highwater Elev.: 0000.0 Year: 1900 Avg. Streambed Elev.: 0000.0 Freq.: 00 Drainage Area: 00000 Area Of Opening: 000000 113 Scour Critical: U 216 Water Depth: 01.9 Br. Height: 12.8 222 Slope Protection: 1 221 Spur Dikes Rear: 0 Fwd: 0 219 Fender System: 0 220 Dolphin: 0 223 Culvert Cover: 000 Type: 0 No. Barrels: 0 Width: 0.00 Height: 0.00 Length: 0 Apron: 0 * 265 U/W Insp. Area: 0 Diver: ZZZ	70 Bridge Posting Required: 5 41 Struct Open, Posted, Cl: D * 103 Temporary Structure: T 232 Posted Loads H-Modified: 00 HS-Modified: 00 Type 3: 00 Type3s2: 00 Timber: 00 Piggyback: 00 253 Notification Date 02/01/1901 253 Fed Notify Date: 02/01/1901
Posting Data	
* Location ID. No.: 279-00004D-021.26N	

COST ESTIMATE SUMMARY

A. Right-of-Way	\$55,000.00
B. Reimbursable Utilities	\$0.00
C. Construction	
1. Major Structures	\$1,133,000.00
2. Grading and Drainage	\$84,800.00
3. Base and Paving	\$253,800.00
4. Lump Items	\$80,000.00
5. Miscellaneous	\$58,200.00
6. Detour	\$487,775.00
Subtotal Construction Cost	\$2,097,575.00
E & C (5%)	\$104,878.75
Total Construction Cost	\$2,202,453.75
Grand Total Project Cost	\$2,257,453.75

DETAILED CONCEPT COST ESTIMATE

A. Right-of-Way	
1. Property: ROW (2.2 acres @ \$25,000/acre)	\$55,000.00
Easement (0 Acres @ \$15,000/acre)	\$0.00
2. Displacements: Res: 0, Bus: 0, M.H.: 0	
Subtotal A	\$55,000.00
B. Reimbursable Utilities	
1. Water (\$25/ft)	\$0.00
2. Electric (\$10,000/pole)	\$0.00
Subtotal B	\$0.00
C. Construction	
1. Major Structures: Bridge 300' x 48' @ \$70/sq. ft.	\$1,008,000.00
Remove Existing Bridge	\$125,000.00
Subtotal C-1	\$1,133,000.00
2. Grading and Drainage	
a. Earthwork (4600 cy @ \$8.00/cy)	\$36,800.00
b. Drainage	\$10,000.00
c. Clearing & Grubbing (3.8 acres @ \$10,000/acre)	\$38,000.00
Subtotal C-2	\$84,800.00
3. Base and Paving	
a. Aggregate Base (2160 tons @ \$25.00/ton)	\$54,000.00
b. Asphalt Paving	
1 1/4" 9.5mm Superpave (220 tons @ \$100/ton)	\$22,000.00
2" 19mm Superpave (352 tons @ \$100/ton)	\$35,200.00
8" 25 mm Superpave (1408 tons @ \$100/ton)	\$140,800.00
Milling (900 sq. yds. @ \$2.00/sq. yd.)	\$1,800.00
Subtotal C-3	\$253,800.00
4. Lump Items	
a. Grassing (5 ac @ \$1000/acre)	\$5,000.00
c. Erosion Control	\$75,000.00
Subtotal C-4	\$80,000.00
5. Miscellaneous	
a. Signing & Marking	\$15,000.00
b. Guardrail (2700 lf @ \$16/lf)	\$43,200.00
Subtotal C-5	\$58,200.00
6. Detour	
a. Earthwork (5000 cy @ \$8.00/cy)	\$5,000.00
b. Drainage	\$0.00
c. Aggregate Base (1459 tons @ \$25.00/ton)	\$36,475.00
d. Asphalt Paving	
1 1/4" 9.5mm Superpave (152 tons @ \$100/ton)	\$15,200.00
4" 25mm Superpave (486 tons @ \$100/ton)	\$48,600.00
e. Traffic Control	\$45,000.00
f. Temporary Bridge 30'x300' (\$37.50/sf)	\$337,500.00
Subtotal C-6	\$487,775.00