ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0000-00(300) Gwinnett County
P. I. No. 0000300
SR 8/US 29 over Alcovy River

OFFICE Preconstruction

DATE November 18, 2004

FROM for- Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT **PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

David Mulling
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Phillip Allen
Joe Palladi (file copy)
Paul Liles
Brent Story
Todd Long
BOARD MEMBER

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0000-00(300) Gwinnett County
P.I. No. 0000300
SR 8/US 29 over Alcovy River

OFFICE Preconstruction

DATE November 10, 2004

FROM Margaret B. Pitkle, P.E., Assistant Director of Preconstruction

TO for Paul V. Mullins, P.E., Chief Engineer

SUBJECT **PROJECT CONCEPT REPORT**

This project is the replacement of a structurally deficient bridge on SR 8/US 29 over Alcovy River, 3.0 miles northeast of Lawrenceville, Georgia. The existing bridge, constructed in 1929, is load limited with a sufficiency rating of 54. The original design load capacity is H-15. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. State Route 8/US 29 at this location is a two lane roadway with 12' lanes and grassed shoulders. This section of SR 8/US 29 is functionally classified as an urban minor arterial. Traffic is project to be 17,000 VPD and 27,000 VPD in the years 2008 and 2028 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new 135' x 44' concrete bridge over Alcovy River at the existing bridge site. The approaches will consist of two, 12' lanes with 8' rural shoulders (2' paved). Traffic will be maintained during construction utilizing an off-site detour.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion is anticipated; a public information open house will be held; time saving procedures are appropriate.

This project will require split funding because the sufficiency rating exceeds 50. "BR" funding will cover the amount equal to the widening and the remainder will consist of "STP" funding.

The estimated costs for this project are:

	PROPOSED	APPROVED	PROG DATE	LETDATE
Construction (includes E&C and inflation)	**BR** $721,000 **STP** $287,000	**BR** $721,000 **STP** $287,000	Q10 Q24	2007
Right-of-Way	$ 41,000	$ 41,000		
Utilities*	$ 5,000	$ 5,000		

BR-0000-00(300) Gwinnett
November 10, 2004

*Notification letter sent to Gwinnett County 9-2-04.

I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

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

APPROVE _____
Paul V. Mullins, P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

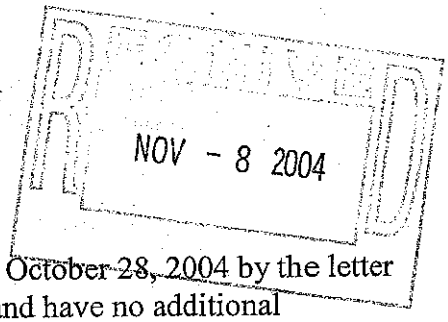
FILE: BR-0000-00(300) Gwinnett
P.I. No. 0000300
S.R. 8/US 29 @ Alcovy River

OFFICE: Engineering Services

DATE: November 5, 2004

FROM: David Mulling, Project Review Engineer REW

TO: Meg Pirkle, Assistant Director of Preconstruction



SUBJECT: **CONCEPT REPORT**

We have reviewed the Concept Report submitted October 28, 2004 by the letter from Russell McMurry dated October 27, 2004, and have no additional comments:

The costs for the project are:

	Bridge Replacement		**Bridge Widening**
Construction	$791,000		$566,000
Inflation	$124,681		$89,216
E&C	$91,568		$65,522
Reimbursable Utilities	$5,000	(LGPA anticipated)	$5,000
Right of Way	$40,650		$40,650

NOTE: This project will require split funding since the bridge has a sufficiency rating above 50 and is to be replaced. The BR funding is the amount equal to the Bridge Widening costs. Other costs will have to come from other funding sources.

REW

c: Todd Long, Attn.: Neil Kantner

SCORING RESULTS AS PER MOG 2440-2

Project Number:	County:	PI No.:
BR-0000-00(300)	Gwinnett	0000300

Report Date:	Concept By:
October 28, 2004	DOT Office: District 1
☒ Concept Stage	Consultant: N/A

Project Type: Choose One From Each Column			
	☐ Major ☒ Minor	☒ Urban ☐ Rural	☐ ATMS ☒ Bridge Replacement ☐ Building ☐ Interchange Reconstruction ☐ Intersection Improvement ☐ Interstate ☐ New Location ☐ Widening & Reconstruction ☐ Miscellaneous

FOCUS AREAS	SCORE	RESULTS
Presentation	100	
Judgement	100	
Environmental	100	
Right of Way	100	
Utility	100	
Constructability	100	
Schedule	100	

DOT 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0000-00(300), Gwinnett County
P.I. No. 0000300
SR 8 / US 29 Over Alcovy River, Bridge Replacement

OFFICE Gainesville

DATE November 1, 2004

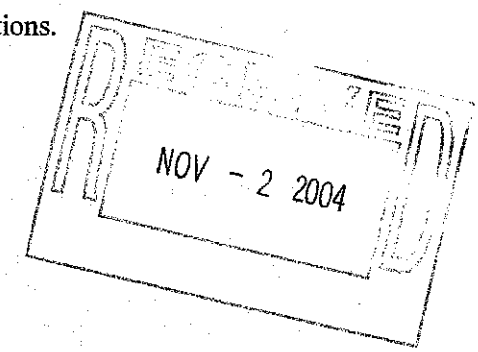
FROM Russell McMurry, P.E., District Preconstruction Engineer

TO Meg Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT **Project Concept Report, Revised Cover Page**

A revised cover page to replace the one currently attached to the report is included with this memo. Please replace the current one with the one attached.

Please contact Neil Kantner at 770-532-5580 should you have any questions.



RRM: NAK
Attachments

Distribution:

Paul Liles, *w/attachment*
Joe Palladi, *w/attachment*
Harvey Keepler, *w/attachment*
David Mulling, *w/attachment*
Phillip Allen, *w/ attachment*
Jamie Simpson, *w/attachment*
Todd Long, *w/attachment*

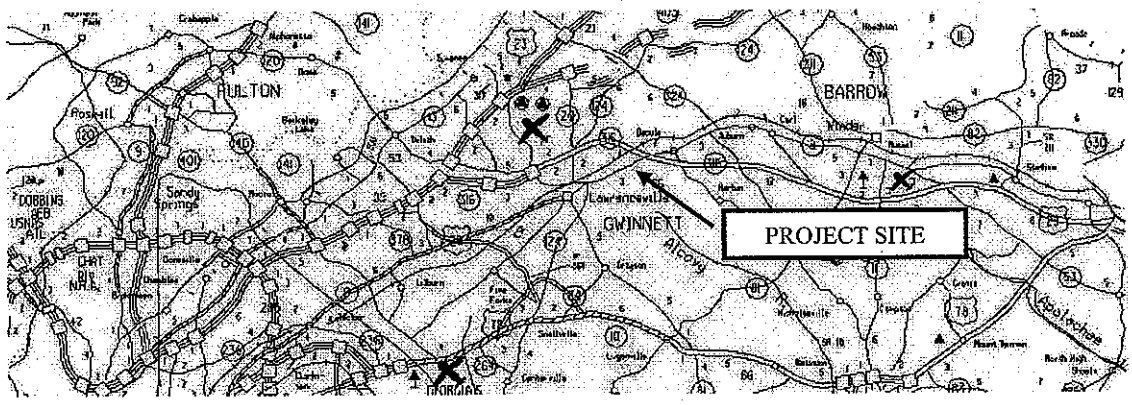
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

Project Number: BR-0000-00(300)
County: Gwinnett
P. I. Number: 0000300

Federal Route Number: US 29
State Route Number: SR 8



Recommendation for approval:

DATE 11-01-2004 — Russell R. McMurry
Project Manager

DATE 11-1-04 — Office Head/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 Financial Management Administrator

DATE _____ — State Environmental/Location Engineer

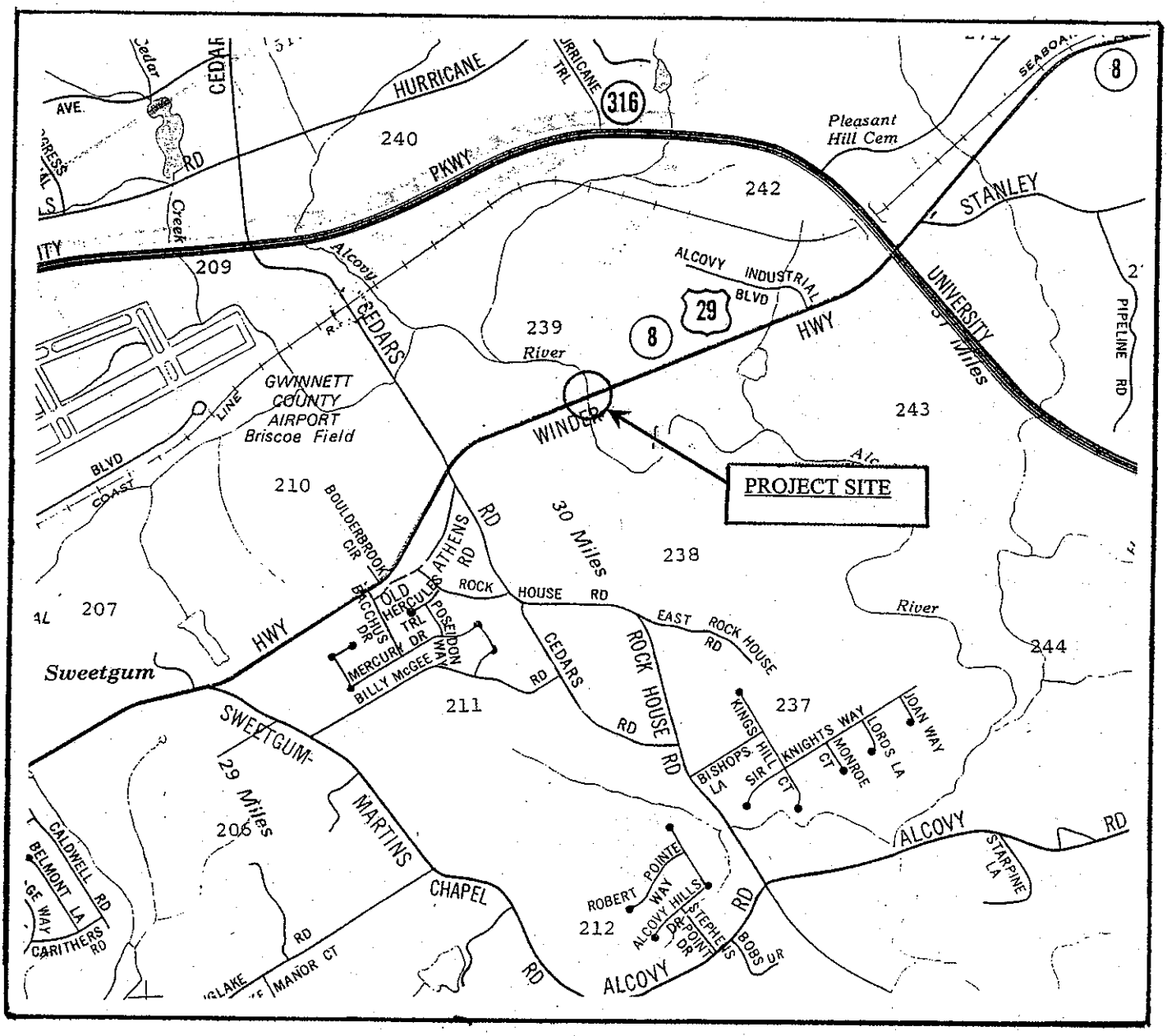
DATE _____ — State Traffic Safety & Design Engineer

DATE 11-1-04 — District Engineer

DATE _____ — Project Review Engineer

DATE _____ — State Bridge Engineer

Project Concept Report page __2___
Project Number: BR-0000-00(300)
P. I. Number: 0000300
County: Gwinnett



Need and Purpose: See attachments for the Need and Purpose statement.

Description of the proposed project: The proposed project consists of the replacement of the existing bridge structure of SR 8/ US 29 over the Alcovy River in Gwinnett County. The site is about 2 miles NE of Lawrenceville. The bridge is functionally obsolete and has a bridge sufficiency rating of 54. The project length is estimated at 3000 feet (0.6 mi.) beginning at mile log 17.1 and ending at 17.7. The project would consist of increasing the bridge width and length to current requirements, modifying the approach grades if necessary to meet AASHTO criteria, and providing full width shoulders. The recommended alternative is represented by **Concept A.** The recommended alternative would occur along the existing alignment and thus would require a temporary detour.

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

This is a minor bridge replacement project therefore there is no conforming plan model description available.

PDP Classification: Major _____ Minor __X__
Federal Oversight: Full Oversight ( ), Exempt(X), State Funded( ), or Other ( )

Functional Classification: Urban Minor Arterial

U. S. Route Number(s): 29 **State Route Number(s):** 8

Traffic (AADT):

Current Year: (2003) 14650 Opening Year: (2008) 17000
Design Year: (2028) 27000

Existing design features:

- Typical Section: Rural two-lane with 12-foot lanes and grassed shoulders
- Posted speed 45/55 mph Minimum radius for curve: In tangent
- Maximum super-elevation rate for curve: N.A.
- Maximum grade: 5.5 % (List mainline, cross roads, and driveways)
- Width of right of way: 60 & 100 ft.
- Major structures: I.D. 135-0006-0, 115' long, 3 span, 32'wide (out/out), Suff. Rate 54
- Major interchanges or intersections along the project: None
- Existing length of roadway segment and the beginning mile logs for each county segment: N.A.

Proposed Design Features:

- Proposed typical section(s): Rural section, 2 - 12 ft. lanes with minimum 8 ft. shoulders
- Proposed Design Speed Mainline __45__mph (Alcovy River is the Urban Area Boundary)
- Proposed Maximum grade Mainline __5.5__% Maximum grade allowable __7.0__%.
- Proposed Maximum grade Side Street __N.A.__% Maximum grade allowable __N.A.__%.
- Proposed Maximum grade driveway __15__%
- Proposed Minimum radius for curve __N.A.__ Minimum radius allowable _____660 ft.__
- Proposed Maximum super-elevation rate for curve: _____6.0%__
- Proposed Maximum degree of curve __N. A.__ Minimum degree allowable__N.A.__
- Right of way
  - Width __100 ft.__.
  - Easements: Temporary (X), 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:
  - Bridges: Single 2-lane bridge, 135 feet long, 44 feet wide (rail to rail), AASHTO PCC girders
  - Retaining walls: Wingwalls required to reduce impacts
- Major intersections and interchanges: NA
- Traffic control during construction: See attached proposed Detour Map
- 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 SIGHT DISTANCE:	( )	( )	(x)
SUPERELEVATION RATES:	( )	( )	(x)
HORIZONTAL CLEARANCE:	( )	( )	(x)
SPEED DESIGN:	( )	( )	(x)
VERTICAL CLEARANCE:	( )	( )	(x)
BRIDGE WIDTH:	( )	( )	(x)
BRIDGE STRUCTURAL CAPACITY:	( )	( )	(x)

- Design Variances: None anticipated
- Environmental concerns: Anticipate Section 404 needed, a historic mill site is located adjacent to the project which may involve 4F~~, depending on mitigation efforts~~.

Adel

- 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: County water and sewer present, lift station adjacent to project, gas main in project area, overhead power and telephone

Project responsibilities:

- Design: Consultant
- Right of Way Acquisition: GDOT
- Relocation of Utilities: Gwinnett County, Utility Companies
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Contractor
- Providing detours: GDOT

Coordination

- Initial Concept Meeting date and brief summary. Attach minutes. **Not Required**
- Concept meeting date and brief summary. **See Attached Minutes**
- P. A. R. meetings, dates and results. **Not Required**
- FEMA, USCG, and/or TVA. **Not Required**
- Public involvement. **Not Required**
- Local government comments. **See Attached Minutes.**
- Other projects in area: **SR 316 Corridor Limited Access Evaluation**
- Other coordination to date. **LGPA Notification to County 9/2/04**
- Railroads **None Impacted by Project**

Scheduling – Responsible Parties' Estimate 12 MONTH IF 4(F) IMPACT.

- Time to complete the environmental process: 6 Months. -DDL
- Time to complete preliminary construction plans: 6 Months.
- Time to complete right of way plans: 6 Months.
- Time to complete the Section 404 Permit: 3 Months.
- Time to complete final construction plans: 6 Months.
- Time to complete to purchase right of way: 7 Months.
- List other major items that will affect the project schedule: N.A. Months.

Other alternates considered:

No Build—this alternate was not considered prudent due to the structural inadequacy of the existing bridge and the long term maintenance requirements.

Concept B: Rebuild On New Alignment—a realignment north of the existing bridge location was considered at this location verses an alignment to the south. There is a historic mill site on the south side of the existing bridge. An alignment to the north will displace a major Gwinnett County sanitary sewer lift station recently constructed. Due to the cost of the impact this alternative was not considered prudent.

Concept C: Widen and Rehabilitate Existing Bridge—a widening and rehabilitation of the existing bridge was considered at this location. The existing roadway horizontal and vertical alignment meet the proposed design criteria, therefore the current centerline was retained for the cost analysis. Widening would be symmetrical on both sides of the bridge. A cost for bridge deck rehabilitation is included in the cost. The roadway costs for **Concept C** were considered similar to Concept A since all other typical section and roadside design issues are similar. Maintenance of traffic would be handled by a temporary detour. This alternate was not selected because the existing bridge met the criteria for replacement as outlined in TOPPS 2405-1. The bridge was designed for an H-15 live load condition.

Comments: A traffic detour for **Concept A** will be required during construction. The additional length of travel one way will be approximately 1.5 miles. However, most local traffic will use the local highway and street network to complete their trips. A proposed detour map is attached.

Attachments:

1. Need and Purpose Statement
2. Cost Estimates:
    a. Construction including E&C,
    b. Right of Way, and
    c. Utilities.
3. Concept Drawing A, Concept Drawing B
4. Typical Sections, Concept A
5. Concept A Detour Map
6. Traffic Data
7. Bridge Inventory
8. Minutes of Initial Concept and Concept meetings
9. Location and Design Notice

Concur: _____
Director of Preconstruction

Approve: _____
Chief Engineer

NEED AND PURPOSE
PROJECT BR-0000-00(300), GWINNETT COUNTY
PI No. 0000300
SR 8/US 29 AT ALCOVY RIVER - BRIDGE REPLACEMENT

Background

The proposed project will replace the structurally deficient bridge on State Route 8/US 29 across the Alcovy River. The site is three (3) miles northeast of Lawrenceville, Georgia. The existing bridge length and width is 115 ft x 27.80 ft.

The Department's policy for bridge replacement, Policy # 2405-1, requires that if a bridge receives a sufficiency rating less than 50 that the bridge be replaced. Although the existing bridge has a sufficiency rating of 53.6 it is rapidly approaching a rating of 50 according to traffic volumes, accident history and annual maintenance efforts. A memo regarding the structural evaluation and load capacity of this bridge, dated February 10th of 1999, states that the aforementioned bridge has been classified structurally deficient. The structure was designed for an H-15 loading. Based on current GDOT policy this bridge should be replaced due to inadequate load design.

Facility Overview and Operational Characteristics

The existing bridge was constructed in 1929 and reconstructed in 1957. It is along a segment of roadway with a posted speed limit of 55mph. The existing rural facility consists of two 12 ft travel lanes with variable width grass shoulders. Annual daily traffic along this bridge in 2003 was 14,650 vehicles with 15% truck traffic. The 2008 and 2028 traffic is projected at 17,000 AADT and 27,000 AADT respectively.

As a result of high traffic volumes, widening of this bridge would be recommended. The programming of a widening project along this facility has been stalled to date due to opposition from Gwinnett County. The County opposes widening this facility because it is not presently willing to proceed with the widening of SR 8/US 29 through the City of Dacula which is less than two miles away from the Alcovy River. This bridge should be constructed to accommodate any future widening.

Another characteristic of the bridge is its designation as a school bus route. It is not a designated bike route.

Logical Termini

The proposed bridge project will tie into the existing roadway and will not require any additional roadway work. There are no other projects in the vicinity. Thus, the bridge project is a stand alone project with independent utility and logical termini.

The proposed project length is approximately 3000 feet (0.6 miles), beginning at M.P. 17.1 and extending to M.P. 17.7. The proposed bridge will include two travel lanes with rural shoulders.

Accident Data

No accidents have been recorded at the bridge; however, the section of State Route 8 one half mile north and one half mile south of the bridge has experienced a constant increase in accidents since 1997. In 1997 there were 17 accidents recorded with 10 injuries and 0 fatalities. In 2000 there were 2 accidents with 2 injuries and 0 fatalities recorded. In

2001 there were 20 accidents with 6 injuries and 0 fatalities. In 2002 there were 22 accidents with 14 injuries and 0 fatalities. The following chart gives accident data and comparable statewide averages:

	1997	2000	2001	2002
Total Accidents	17	2	20	22
Accidents Per 100 MVMT	447	45	392	486
Statewide Accidents Per 100 MVMT	205	182	186	N/A
Accident % Higher/Lower Than Statewide Average	+118%	-75%	+111%	N/A

Accident rates along this facility are considerably higher than statewide figures for similarly classified facilities. This can be explained by the fact that the bridge is less than one mile away from the busy US 29/SR 316 interchange.

The primary cause listed was angle intersect and rear end collisions. This could indicate congested conditions and a need to separate turning traffic from through traffic. The upgrade of this facility could increase driver visibility and thereby reduce the number of motor vehicle collisions.

Community Characteristics

The project is located in Gwinnett County, Georgia. Gwinnett County is part of the Atlanta metropolitan area with a 2000 total population count of 588,448. Of these residents, 10.9% are Hispanic and 13.3% are Black. Also, according to 2000 census figures, 5.7% of the population is below the poverty level. This is significantly lower than the statewide average of 13%.

Within the census block of the proposed project there is a total population of 1,294. Of this group, 7.8% are Hispanic and 8.11% are Black. Approximately 2% of the population has an income less than $20,000.

Need and Purpose

Replacing the bridge on SR 8/US 29 over the Alcovy River will bring it up to current AASHTO geometric design standards. The purpose of the proposed improvement is to provide better mobility through this section of SR 8/US 29 and an overall safer driving environment for thru and local traffic. The defined improvement is necessary and recommended to enhance the operating serviceability and provide a bridge that would adequately and safely serve current and future travel demand on this portion of State Route 8/US 29.

PRELIMINARY CONSTRUCTION COST ESTIMATE
CONCEPT A

P.I. NUMBER: 0000300
PROJECT NO: BR-0000-00(300)
COUNTY: GWINNETT
ESTIMATED LET DATE: JULY 2007

DATE OF ESTIMATE: JULY 8, 2004
PREPARED BY: N. KANTNER

[ ] PROGRAMMING PROCESS **[X] CONCEPT DEVELOPMENT** **[ ] DURING PROJECT DEV.**

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENSION
	TOTAL CONSTRUCTION COST WITH E & C, INFLATION				$994,640
	RIGHT-OF-WAY COSTS				
	PROPERTY [LAND AND EASEMENTS] [Est. 0.26 Acres]				$11,700
	DISPLACEMENTS: RES.- , BUS.- , MOB. HOME-				
	OTHER COSTS [ADMIN. LEGAL, INFLATION]				$28,950
	SUBTOTAL R/W COSTS				$40,650
	REIMBURSABLE UTILITIES				
	RAILROAD				
	TRANSMISSION LINES				
	SERVICE LINES				
					$5,000
	SUBTOTAL UTILITY COSTS				$5,000
	TOTAL COST, ALL ITEMS				**$1,040,290**

PRELIMINARY CONSTRUCTION COST ESTIMATE
CONCEPT A

P.I. NUMBER: 0000300
PROJECT NO: BR-0000-00(300)
COUNTY: GWINNETT
ESTIMATED LET DATE: JULY 2007

DATE OF ESTIMATE: JULY 8, 2004
PREPARED BY: N. KANTNER

[ ] PROGRAMMING PROCESS **[X] CONCEPT DEVELOPMENT** **[ ] DURING PROJECT DEV.**

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENSION
	ROADWAY				
150-1000	TRAFFIC CONTROL - BR-0000-00(300)	LS	LUMP	30,000.00	30,000.00
210-0100	GRADING COMPLETE - BR-0000-00(300) [Est. 5000 CY]	LS	LUMP	70,000.00	70,000.00
310-1101	GR AGGR BASE CRS, INCL MATL	TN	315	14.10	4,441.50
318-3000	AGGR SURF CRS	TN	20	14.55	291.00
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	100	36.45	3,645.00
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	200	35.47	7,094.00
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	100	36.74	3,674.00
402-3502	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED B	TN	370	58.42	21,615.40
413-1000	BITUM TACK COAT	GL	300	0.90	270.00
433-1200	REIN CONC APPROACH SLAB, INCL SLOPED EDGE	SY	310	104.00	32,240.00
446-1002	PVMT REINF FABRIC STRIPS, TP 2, INCL BITUM BINDER	LF	2800	2.86	8,008.00
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	40	26.61	1,064.40
550-2180	SIDE DRAIN PIPE, 18 IN, H 1-10	LF	80	21.83	1,746.40
550-3618	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	EA	4	461.75	1,847.00
550-4230	FLARED END SECTION 30 IN, STORM DRAIN	EA	2	672.30	1,344.60
634-1200	RIGHT OF WAY MARKER	EA	12	82.53	990.36
641-1200	GUARDRAIL, TP W	LF	1300	8.61	11,193.00
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	4	1,188.87	4,755.48
668-1100	CATCH BASIN, GP 1	EA	2	1,611.52	3,223.04
668-8011	SAFETY GRATE, TP 1	SF	75	24.73	1,854.75
	PERMANENT EROSION CONTROL				
163-0240	MULCH	TN	20	219.32	4,386.40
441-0204	PLAIN CONC DITCH PAVING, 4 IN	SY	10	22.84	228.40
603-2180	STN DUMPED RIP RAP, TP 3, 12 IN	SY	10	29.09	290.90
603-7000	PLASTIC FILTER FABRIC	SY	10	3.47	34.70
700-6910	PERMANENT GRASSING	AC	1	713.75	356.88
700-7000	AGRICULTURAL LIME	TN	2	48.97	97.94
700-7010	LIQUID LIME	GL	4	18.08	72.32
700-8000	FERTILIZER MIXED GRADE	TN	2	224.94	449.88
700-8100	FERTILIZER NITROGEN CONTENT	LB	50	1.41	70.50
716-2000	EROSION CONTROL MATS, SLOPES	SY	3000	1.18	3,540.00
	TEMPORARY EROSION CONTROL				
163-0232	TEMPORARY GRASSING	AC	1	436.20	436.20
163-0300	CONSTRUCTION EXIT	EA	2	985.16	1,970.32
163-0530	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	LF	200	2.04	408.00
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	1500	1.39	2,085.00
165-0070	MAINTENANCE OF BALED STRAW EROSION CHECK	LF	100	1.24	124.00
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	2	378.25	756.50
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	1	4,275.64	4,275.64
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	3000	3.50	10,500.00

PRELIMINARY CONSTRUCTION COST ESTIMATE
CONCEPT A

P.I. NUMBER: 0000300
PROJECT NO: BR-0000-00(300)
COUNTY: GWINNETT
ESTIMATED LET DATE: JULY 2007

DATE OF ESTIMATE: JULY 8, 2004
PREPARED BY: N. KANTNER

[ ] PROGRAMMING PROCESS **[X] CONCEPT DEVELOPMENT** **[ ] DURING PROJECT DEV.**

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENSION
	SIGNING AND MARKING				
636-1020	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	SF	24	12.55	301.20
636-2070	GALV STEEL POSTS, TP 7	LF	60	6.26	375.60
636-3010	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	EA	4	427.25	1,709.00
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	4000	0.21	840.00
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	4000	0.21	840.00
654-1001	RAISED PVMT MARKERS TP 1	EA	40	3.27	130.80
	BRIDGE				
	REMOVAL OF EXISTING BRIDGE	LS	LUMP	35,000.00	35,000.00
	BRIDGE CONSTRUCTION	SF	6345	65.00	412,425.00
	WING WALL CONSTRUCTION	SF	800	35.00	28,000.00

SUB-TOTAL PROJECT COST	**$**	**719,003.11**
CONTINGENCIES	**$**	**71,900.31**
TOTAL PROJECT CONSTRUCTION COST	**$**	**790,903.42**
E & C COST [10%]	**$**	**79,090.34**
INFLATION [5% PER YEAR FOR 3 YEARS]	**$**	**124,646.38**
TOTAL CONSTRUCTION COST WITH E & C, INFLATION		**$994,640**

PRELIMINARY CONSTRUCTION COST ESTIMATE
CONCEPT B

P.I. NUMBER: 0000300
PROJECT NO: BR-0000-00(300)
COUNTY: GWINNETT
ESTIMATED LET DATE: JULY 2007

DATE OF ESTIMATE: JULY 8, 2004
PREPARED BY: N. KANTNER

[ ] PROGRAMMING PROCESS **[X] CONCEPT DEVELOPMENT** **[ ] DURING PROJECT DEV.**

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENSION
	TOTAL CONSTRUCTION COST WITH E & C, INFLATION				**$1,440,005**
	RIGHT-OF-WAY COSTS				
	PROPERTY [LAND AND EASEMENTS] [Est. 2.10 Acres]				$119,500
	DISPLACEMENTS: RES.- , BUS.- , MOB. HOME-				
	OTHER COSTS [ADMIN. LEGAL, INFLATION]				$295,425
				SUBTOTAL R/W COSTS	**$414,925**
	REIMBURSABLE UTILITIES				
	RAILROAD				
	TRANSMISSION LINES				
	SERVICE LINES				$15,000,000
				SUBTOTAL UTILITY COSTS	**$15,000,000**
				TOTAL COST, ALL ITEMS	**$16,854,930**

PRELIMINARY CONSTRUCTION COST ESTIMATE
CONCEPT B

P.I. NUMBER: 0000300
PROJECT NO: BR-0000-00(300)
COUNTY: GWINNETT
ESTIMATED LET DATE: JULY 2007

DATE OF ESTIMATE: JULY 8, 2004
PREPARED BY: N. KANTNER

[ ] PROGRAMMING PROCESS **[X] CONCEPT DEVELOPMENT** **[ ] DURING PROJECT DEV.**

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENSION
	ROADWAY				
150-1000	TRAFFIC CONTROL - BR-0000-00(300)	LS	LUMP	10,000.00	10,000.00
210-0100	GRADING COMPLETE - BR-0000-00(300) [Est. 47,000 CY]	LS	LUMP	275,000.00	275,000.00
310-1101	GR AGGR BASE CRS, INCL MATL	TN	2600	14.10	36,660.00
318-3000	AGGR SURF CRS	TN	50	14.55	727.50
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	150	36.45	5,467.50
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	1600	35.47	56,752.00
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	580	36.74	21,309.20
402-3502	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED B	TN	650	58.42	37,973.00
413-1000	BITUM TACK COAT	GL	1000	0.90	900.00
433-1200	REIN CONC APPROACH SLAB, INCL SLOPED EDGE	SY	310	104.00	32,240.00
446-1002	PVMT REINF FABRIC STRIPS, TP 2, INCL BITUM BINDER	LF	1500	2.86	4,290.00
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	80	26.61	2,128.80
550-1300	STORM DRAIN PIPE, 30 IN, H 1-10	LF	80	40.25	3,220.00
550-2180	SIDE DRAIN PIPE, 18 IN, H 1-10	LF	80	21.83	1,746.40
550-3518	SAFETY END SECTION 18 IN, STORM DRAIN, 6:1 SLOPE	EA	2	570.56	1,141.12
550-3618	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	EA	4	461.75	1,847.00
550-4230	FLARED END SECTION 30 IN, STORM DRAIN	EA	2	672.30	1,344.60
634-1200	RIGHT OF WAY MARKER	EA	20	82.53	1,650.60
641-1200	GUARDRAIL, TP W	LF	1300	8.61	11,193.00
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	4	1,188.87	4,755.48
643-0010	FIELD FENCE WOVEN WIRE	LF	500	3.70	1,850.00
668-1100	CATCH BASIN, GP 1	EA	2	1,611.52	3,223.04
668-8011	SAFETY GRATE, TP 1	SF	75	24.73	1,854.75
	PERMANENT EROSION CONTROL				
163-0240	MULCH	TN	20	219.32	4,386.40
441-0204	PLAIN CONC DITCH PAVING, 4 IN	SY	20	22.84	456.80
603-2180	STN DUMPED RIP RAP, TP 3, 12 IN	SY	25	29.09	727.25
603-7000	PLASTIC FILTER FABRIC	SY	25	3.47	86.75
700-6910	PERMANENT GRASSING	AC	4	713.75	2,855.00
700-7000	AGRICULTURAL LIME	TN	4	48.97	195.88
700-7010	LIQUID LIME	GL	8	18.08	144.64
700-8000	FERTILIZER MIXED GRADE	TN	4	224.94	899.76
700-8100	FERTILIZER NITROGEN CONTENT	LB	150	1.41	211.50
716-2000	EROSION CONTROL MATS, SLOPES	SY	6000	1.18	7,080.00
	TEMPORARY EROSION CONTROL				
163-0232	TEMPORARY GRASSING	AC	4	436.20	1,744.80
163-0300	CONSTRUCTION EXIT	EA	2	985.16	1,970.32
163-0530	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	LF	400	2.04	816.00
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	2000	1.39	2,780.00
165-0070	MAINTENANCE OF BALED STRAW EROSION CHECK	LF	100	1.24	124.00
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	2	378.25	756.50
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	1	4,200.00	4,200.00
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	4000	3.50	14,000.00

PRELIMINARY CONSTRUCTION COST ESTIMATE
CONCEPT B

P.I. NUMBER: 0000300
PROJECT NO: BR-0000-00(300)
COUNTY: GWINNETT
ESTIMATED LET DATE: JULY 2007

DATE OF ESTIMATE: JULY 8, 2004
PREPARED BY: N. KANTNER

[ ] PROGRAMMING PROCESS **[X] CONCEPT DEVELOPMENT** **[ ] DURING PROJECT DEV.**

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENSION
	SIGNING AND MARKING				
636-1020	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	SF	24	12.55	301.20
636-2070	GALV STEEL POSTS, TP 7	LF	60	6.26	375.60
636-3010	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	EA	4	427.25	1,709.00
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	5000	0.21	1,050.00
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	5000	0.21	1,050.00
654-1001	RAISED PVMT MARKERS TP 1	EA	100	3.27	327.00
	BRIDGE				
	REMOVAL OF EXISTING BRIDGE	LS	LUMP	35,000.00	35,000.00
	BRIDGE CONSTRUCTION	SF	6345	65.00	412,425.00
	WING WALL CONSTRUCTION	SF	800	35.00	28,000.00

SUB-TOTAL PROJECT COST	**$**	**1,040,947.39**
CONTINGENCIES	**$**	**104,094.74**
TOTAL PROJECT CONSTRUCTION COST	**$**	**1,145,042.13**
E & C COST [10%]	**$**	**114,504.21**
INFLATION [5% PER YEAR FOR 3 YEARS]	**$**	**180,458.64**
TOTAL CONSTRUCTION COST WITH E & C, INFLATION		**$1,440,005**

PRELIMINARY CONSTRUCTION COST ESTIMATE
CONCEPT C

P.I. NUMBER: 0000300
PROJECT NO: BR-0000-00(300)
COUNTY: GWINNETT
ESTIMATED LET DATE: JULY 2007

DATE OF ESTIMATE: JULY 8, 2004
PREPARED BY: N. KANTNER

[ ] PROGRAMMING PROCESS **[X] CONCEPT DEVELOPMENT** **[ ] DURING PROJECT DEV.**

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENSION
	TOTAL CONSTRUCTION COST WITH E & C, INFLATION				$711,764
	RIGHT-OF-WAY COSTS				
	PROPERTY [LAND AND EASEMENTS] [Est. 0.26 Acres]				$11,700
	DISPLACEMENTS: RES.- , BUS.- , MOB. HOME-				
	OTHER COSTS [ADMIN. LEGAL, INFLATION]				$28,950
				SUBTOTAL R/W COSTS	$40,650
	REIMBURSABLE UTILITIES				
	RAILROAD				
	TRANSMISSION LINES				
	SERVICE LINES				$5,000
				SUBTOTAL UTILITY COSTS	$5,000
				TOTAL COST, ALL ITEMS	**$757,414**

PRELIMINARY CONSTRUCTION COST ESTIMATE
CONCEPT C

P.I. NUMBER: 0000300
PROJECT NO: BR-0000-00(300)
COUNTY: GWINNETT
ESTIMATED LET DATE: JULY 2007

DATE OF ESTIMATE: JULY 8, 2004
PREPARED BY: N. KANTNER

[ ] PROGRAMMING PROCESS **[X] CONCEPT DEVELOPMENT** **[ ] DURING PROJECT DEV.**

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENSION
	ROADWAY				
150-1000	TRAFFIC CONTROL - BR-0000-00(300)	LS	LUMP	30,000.00	30,000.00
210-0100	GRADING COMPLETE - BR-0000-00(300) [Est. 5000 CY]	LS	LUMP	70,000.00	70,000.00
310-1101	GR AGGR BASE CRS, INCL MATL	TN	315	14.10	4,441.50
318-3000	AGGR SURF CRS	TN	20	14.55	291.00
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	100	36.45	3,645.00
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	200	35.47	7,094.00
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	100	36.74	3,674.00
402-3502	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED B	TN	370	58.42	21,615.40
413-1000	BITUM TACK COAT	GL	300	0.90	270.00
433-1200	REIN CONC APPROACH SLAB, INCL SLOPED EDGE	SY	310	104.00	32,240.00
446-1002	PVMT REINF FABRIC STRIPS, TP 2, INCL BITUM BINDER	LF	2800	2.86	8,008.00
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	40	26.61	1,064.40
550-2180	SIDE DRAIN PIPE, 18 IN, H 1-10	LF	80	21.83	1,746.40
550-3618	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	EA	4	461.75	1,847.00
550-4230	FLARED END SECTION 30 IN, STORM DRAIN	EA	2	672.30	1,344.60
634-1200	RIGHT OF WAY MARKER	EA	12	82.53	990.36
641-1200	GUARDRAIL, TP W	LF	1300	8.61	11,193.00
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	4	1,188.87	4,755.48
668-1100	CATCH BASIN, GP 1	EA	2	1,611.52	3,223.04
668-8011	SAFETY GRATE, TP 1	SF	75	24.73	1,854.75
	PERMANENT EROSION CONTROL				
163-0240	MULCH	TN	20	219.32	4,386.40
441-0204	PLAIN CONC DITCH PAVING, 4 IN	SY	10	22.84	228.40
603-2180	STN DUMPED RIP RAP, TP 3, 12 IN	SY	10	29.09	290.90
603-7000	PLASTIC FILTER FABRIC	SY	10	3.47	34.70
700-6910	PERMANENT GRASSING	AC	1	713.75	356.88
700-7000	AGRICULTURAL LIME	TN	2	48.97	97.94
700-7010	LIQUID LIME	GL	4	18.08	72.32
700-8000	FERTILIZER MIXED GRADE	TN	2	224.94	449.88
700-8100	FERTILIZER NITROGEN CONTENT	LB	50	1.41	70.50
716-2000	EROSION CONTROL MATS, SLOPES	SY	3000	1.18	3,540.00
	TEMPORARY EROSION CONTROL				
163-0232	TEMPORARY GRASSING	AC	1	436.20	436.20
163-0300	CONSTRUCTION EXIT	EA	2	985.16	1,970.32
163-0530	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	LF	200	2.04	408.00
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	1500	1.39	2,085.00
165-0070	MAINTENANCE OF BALED STRAW EROSION CHECK	LF	100	1.24	124.00
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	2	378.25	756.50
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	1	4,275.64	4,275.64
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	3000	3.50	10,500.00

PRELIMINARY CONSTRUCTION COST ESTIMATE
CONCEPT C

P.I. NUMBER: 0000300
PROJECT NO: BR-0000-00(300)
COUNTY: GWINNETT
ESTIMATED LET DATE: JULY 2007

DATE OF ESTIMATE: JULY 8, 2004
PREPARED BY: N. KANTNER

[ ] PROGRAMMING PROCESS **[X] CONCEPT DEVELOPMENT** **[ ] DURING PROJECT DEV.**

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENSION
	SIGNING AND MARKING				
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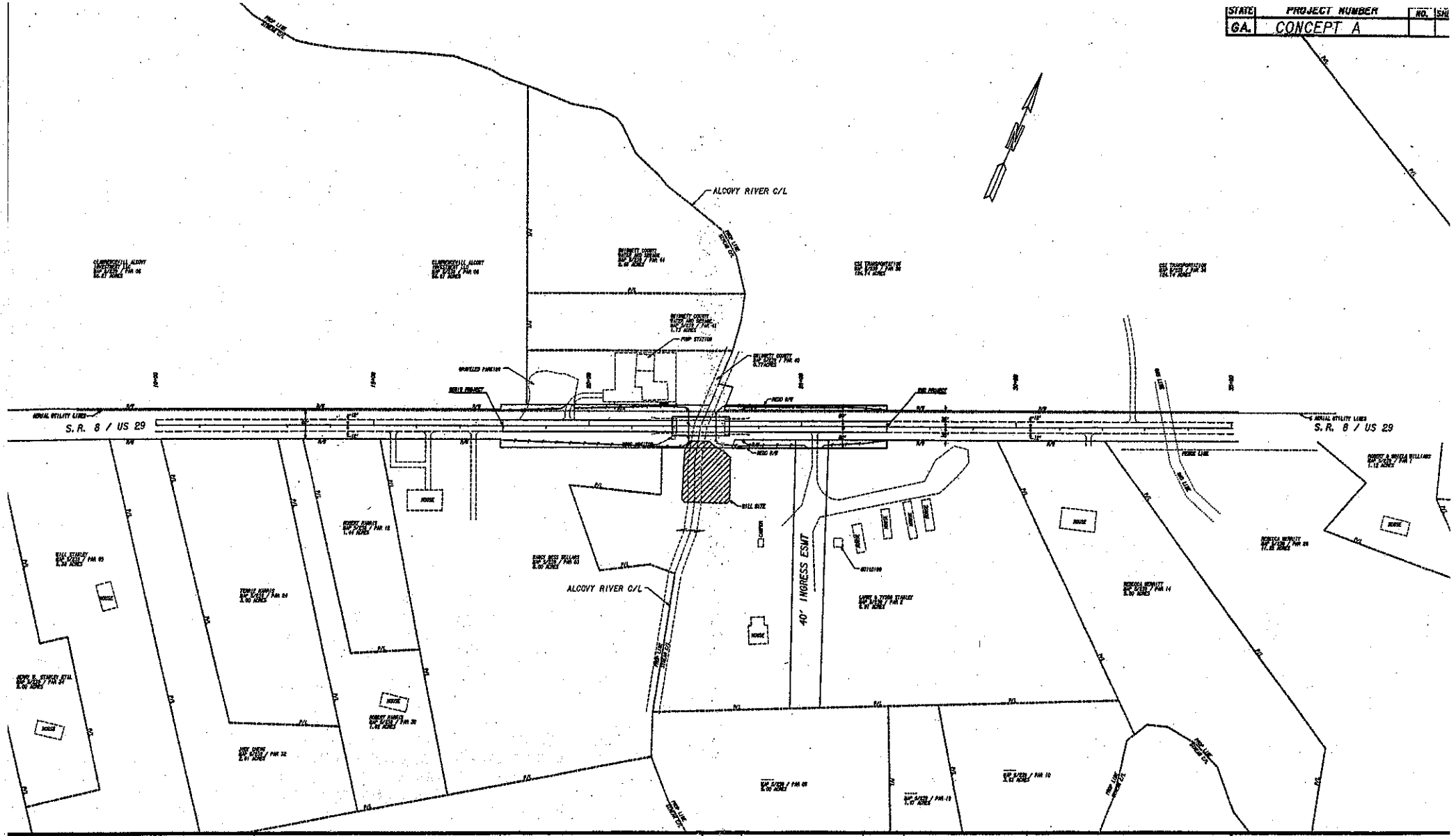
636-3010	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	EA	4	427.25	1,709.00
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	4000	0.21	840.00
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	4000	0.21	840.00
654-1001	RAISED PVMT MARKERS TP 1	EA	40	3.27	130.80
	BRIDGE				
	REMOVAL OF EXISTING BRIDGE PARAPETS	LS	LUMP	15,000.00	15,000.00
	REHAB EXISITNG BRIDGE DECK	LS	LUMP	35,000.00	35,000.00
	BRIDGE CONSTRUCTION (WIDENING 15 FT)	SF	1754	110.00	192,940.00
	WING WALL CONSTRUCTION	SF	800	35.00	28,000.00

SUB-TOTAL PROJECT COST	**$**	**514,518.11**
CONTINGENCIES	**$**	**51,451.81**
TOTAL PROJECT CONSTRUCTION COST	**$**	**565,969.92**
E & C COST [10%]	**$**	**56,596.99**
INFLATION [5% PER YEAR FOR 3 YEARS]	**$**	**89,196.86**
TOTAL CONSTRUCTION COST WITH E & C, INFLATION		**$711,764**

STATE	PROJECT NUMBER	NO.	SH
GA.	CONCEPT A		



APPROXIMATE

SCALE IN FEET

0 100 200 400

CONCEPT A

DATE	REVISIONS	DATE	REVISIONS

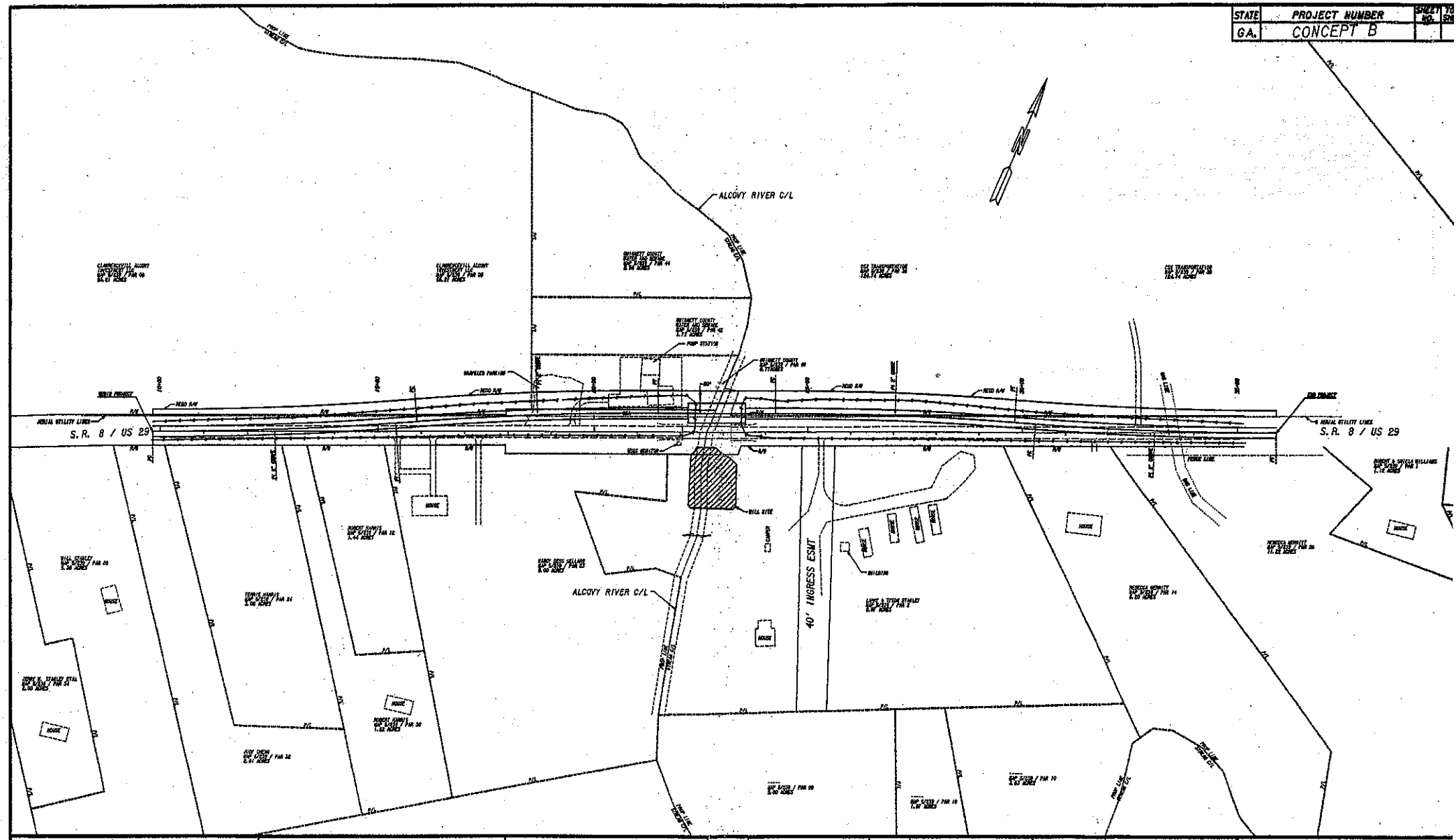
GEORGIA
DEPARTMENT OF TRANSPORTATIO

CONCEPT PLAN

PROJECT: SR 8 AT ALCOVY RIVE

COUNTY: GWINNETT

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CONCEPT B		



APPROXIMATE

SCALE IN FEET

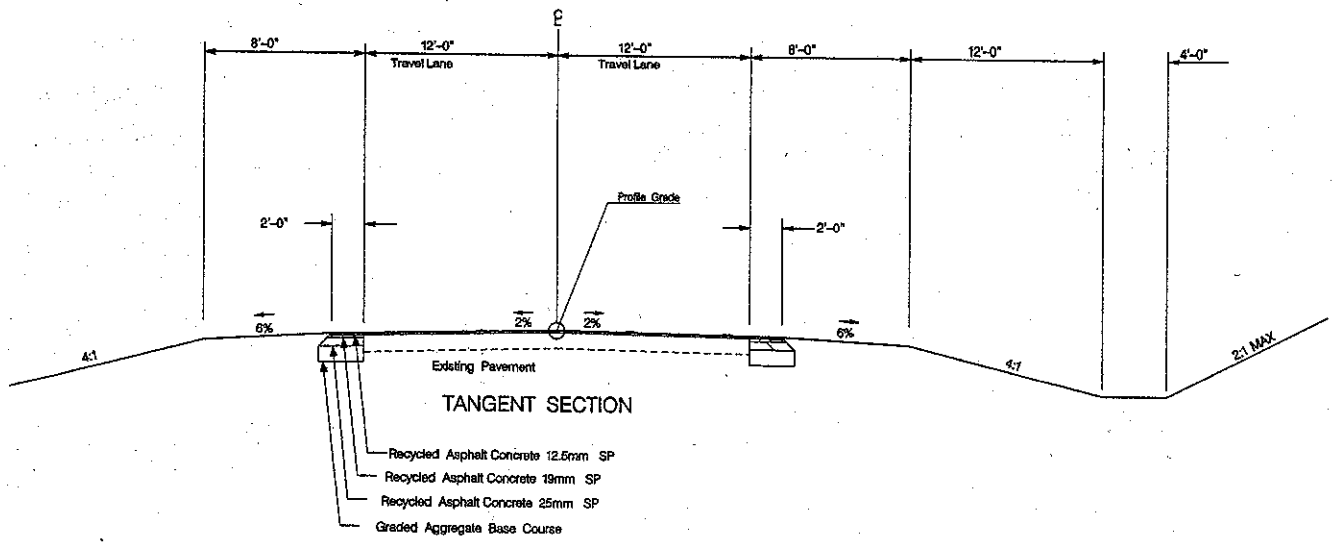
0 100 200 400

CONCEPT B

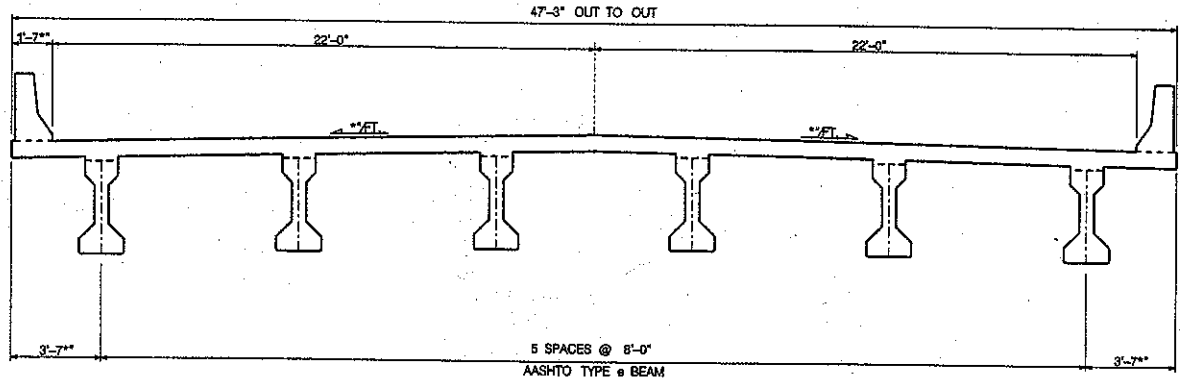
DATE	REVISIONS	DATE	REVISIONS

GEORGIA
DEPARTMENT OF TRANSPORTATI
CONCEPT PLAN
PROJECT: SR 8 AT ALCOVY RIV
COUNTY: GWINNETT

DATETIME$$$ $USER$	PRF $$PENTABLE$$	DGN	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



TANGENT SECTION



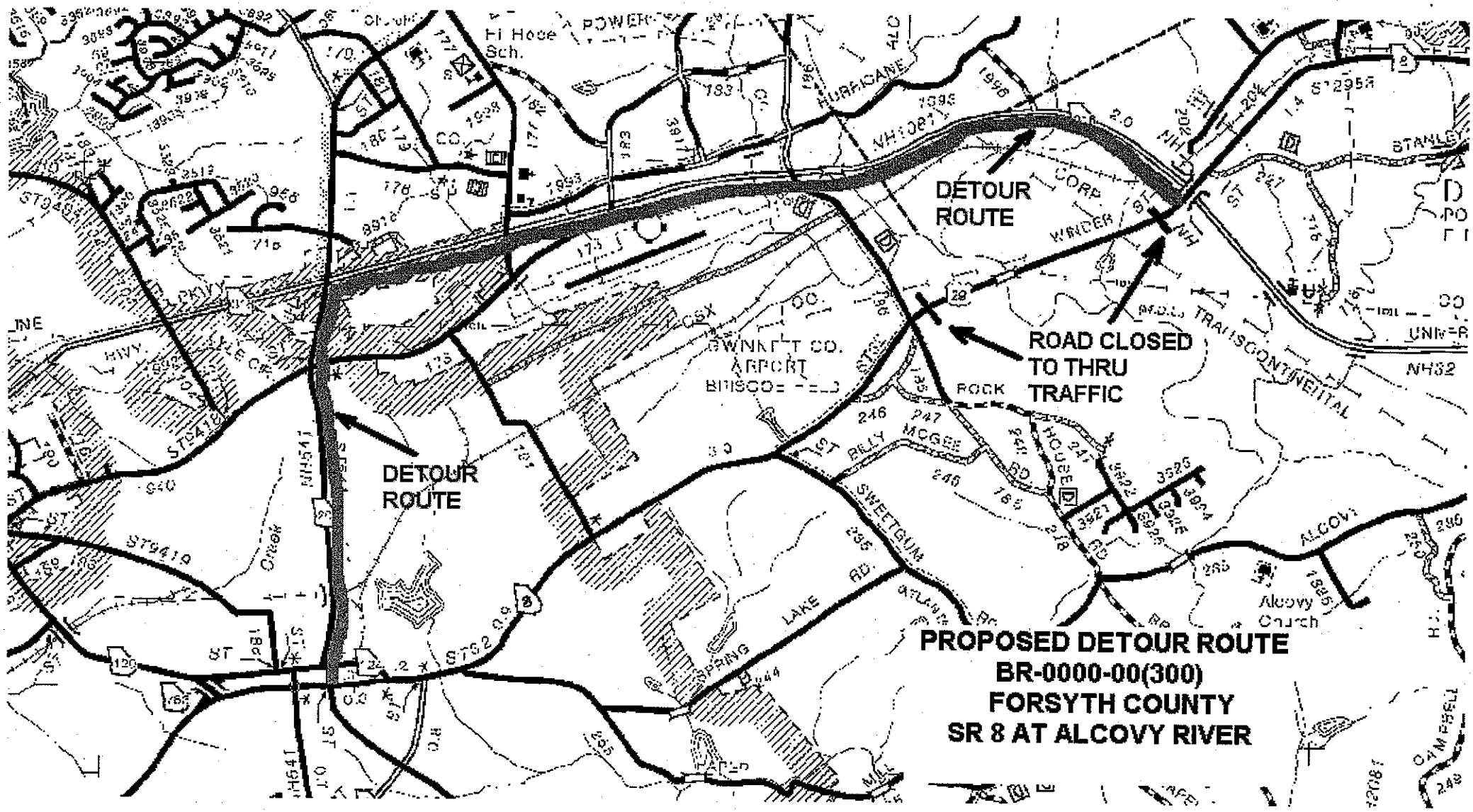
TYPICAL SECTION

DATE	REVISIONS	DATE	REVISIONS

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

CONCEPT REPORT
SR 8 AT ALCOVY RIVER
GWINNETT COUNTY

DATE SH OF


DETOUR ROUTE
ROAD CLOSED TO THRU TRAFFIC
DETOUR ROUTE
PROPOSED DETOUR ROUTE
BR-0000-00(300)
FORSYTH COUNTY
SR 8 AT ALCOVY RIVER

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0000-00(300) Gwinnett
P.I. No. 0000300

OFFICE Environment/ Location

DATE August 28, 2003

FROM Harvey D. Keepler, State Environmental/ Location Engineer

TO Larry Dent, P.E., District Engineer, Gainesville
Attn: Todd Long

SUBJECT SR 8 @ Alcovy River

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

Existing 2003 ADT = 14650
2008 ADT = 17000
2028 ADT = 27000
K = 10%
D = 60%
T = 13%
24 HR T = 15%
S.U. = 6.5%
COMB. = 8.5%

If you have any questions concerning this information please contact Teresa Williamson at (404)699-4458.

HDK:TJW

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 135-0006-0 | Gwinnett | SUFF. RATING 54.00

Location & Geography

	Structure I.D.No:	135-0006-0
200	Bridge Information	07
6A	Feature Int:	ALCOVY RIVER
6B	Critical Bridge:	0
7A	Route Number Carried:	SR00008
7B	Facility Carried:	SR 8 - US 29
9	Location:	3 MI NE OF LAWRENCEVILLE
2	DOT District:	1
207	Year Photo:	1997
91	Inspection Frequency:	24 Date: 10/14/2003
92A	Fract Crit Insp Freq:	00 Date: 02/01/1901
92B	Underwater Insp Freq:	00 Date: 02/01/1901
92C	Other Spc. Insp Freq:	00 Date: 02/01/1901
4	Place Code:	00000
5	Inventory Route (O/U):	1
	Type:	2
	Designation:	1
	Number:	00029
	Direction:	0
16	Latitude: 33-58.7	MMS Prefix: SR
17	Longitude: 83-56.4	MMS Suffix: 08 MP: 17.71
98	Border Bridge: 000	%Shared: 00
99	ID Number:	000000000000000
100	STRAHNET:	0
12	Base Highway Network:	1
13A	LRS Inventory Route:	1351000800
13B	Sub Inventory Route:	0
101	Parallel Structure:	N
102	Direction of Traffic:	2
264	Road Inventory Mile Post:	017.44
208	Inspection Area: 07	Initials: DAS
	Engineer's Initial:	jal

Location I.D. No.: 135-00008D-017.71N

*	104 Highway System:	0
*	26 Functional Classification:	06
*	204 Federal Route Type:	F No.: 00032
	105 Federal Lands Highway:	0
*	110 Truck Route:	0
	206 School Bus Route:	1
	217 Benchmark Elevation:	0000.00
	218 Datum:	0
*	19 Bypass Length:	03
*	20 Toll:	3
*	21 Maintenance:	01
*	22 Owner:	01
*	31 Design Load:	2
	37 Historical Significance:	5
	205 Congressional District:	07
	27 Year Constructed:	1929
	106 Year Reconstructed:	1957
	33 Bridge Median:	0
	34 Skew:	00
	35 Structure Flared:	0
	38 Navigation Control:	0
	213 Special Steel Design:	0
	267 Type of Paint:	0
*	42 Type of Service on:	1
	Under:	5
	214 Movable Bridge:	0
	203 Type Bridge:	A-O-O-O
	259 Pile Encasement:	3
*	43 Structure Type Main:	1 04
	45 No. Spans Main:	003
	44 Structure Type Appr:	0 00
	46 No. Spans Appr:	0000
	226 Bridge Curve Horz:	0 Vert: 0
	111 Pier Protection:	0
	107 Deck Structure Type:	1
	108 Wearing Surface Type:	6
	Membrance:	0
	Protection:	0

Signs & Attachments

	225	Expansion Joint Type:	02
	242	Deck Drains:	1
	243	Parapet Location:	0
		Height:	0.00
		Width:	0.00
	238	Curb:	0.90 1
	239	Handrail:	1 1
*	240	Median Barrier Rail:	0
	241	Bridge Median Height:	0.00
		Width:	0.00
*	230	Guardrail Loc Dir Rear:	3
		Fwrd:	3
		Oppo Dir Rear:	0
		Fwrd:	0
	244	Approach Slab:	3
	224	Retaining Wall:	0
	233	Posted Speed Limit:	55
	236	Warning Sign:	0
	234	Delineator:	1
	235	Hazard Boards:	1
	237	Utilities Gas:	00
		Water:	00
		Electric:	00
		Telephone:	21
		Sewer:	00
	247	Lighting Street:	0
		Naviagtion:	0
		Aerial:	0
*	248	County Continuity No.:	06

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 135-0006-0 Gwinnett SUFF. RATING 54.00

Programming Data

201 Project No.: F-003-2 (3)
202 Plans Available: 4
249 Prop. Proj. No. BR-0000-00 (300)
250 Approval Status: 0000
251 P.I. No.: 0000300
252 Contract Date: 02/01/2005
260 Seismic No.: 00000
75 Type Work: 34 1
94 Bridge Imp. Cost: $ 112
95 Roadway Imp. Cost: $ 51
96 Total Imp Cost: $ 218
76 Imp. Length: 000326
97 Imp. Year: 1990
114 Future ADT: 017850 Year: 2022

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: 02.9 Br. Height: 26.9
222 Slope Protection: 0
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 135-00008D-017.71N

Measurements

* 29 ADT: 011900 Year: 2002
109 % Trucks: 15
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0039
* 49 Structure Length: 115
51 Br. Rwdy. Width: 27.80
52 Deck Width: 32.00
* 47 Tot. Horz. Cl: 27.80
50 Curb/Sdewlk Width: 2.00/2.00
32 Approach Rdwy Width: 028
* 229 Shoulder Width:
Rear Lt: 2.00 Type: 2 Rt: 2.00
Fwrd Lt: 2.00 Type: 2 Rt: 2.00
Pavement Width:
Rear: 23.50 Type: 2
Fwrd: 23.50 Type: 2
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 2
Transition: 2
App. G. Rail: 2
App. Rail End: 2
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: 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: 4.50
212 Year Last Painted: Sup: 0000 Sub: 0000

Ratings

65 Inventory Rating Method: 2
63 Inventory Rating Method: 2
66 Inventory Type: 2 Rating: 21
64 Operating Type: 2 Rating: 38
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 28 0
Type 3s2: 40 0
Timber: 36 0
Piggyback: 40 0
261 H Inventory Rating: 15
262 H Operating Rating: 21
67 Structural Evaluation: 4
58 Deck Condition: 5
59 Superstructure Condition: 6
* 227 Collision Damage: 0
60A Substructure Condition: 6
60B Scour Condition: 8
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

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: BR-0000-00(300)
P.I. No. 0000300
SR 8/US 29 over Alcovy River
Bridge Replacement
Gwinnett County

OFFICE: Gainesville

Date: August 31, 2004

FROM: Russell R. McMurry, P.E., District Preconstruction Engineer
Neil Kantner, P.E., Project Manager

TO: Project File

SUBJECT: Concept Team Meeting

A Concept Team Meeting was held on August 31, 2004 at 9:30 A.M. in the District 1 Conference Room in Gainesville.

ATTENDEES: See Attached

DESCRIPTION OF PROPOSED PROJECT:

The proposed project consists of the replacement of the existing bridge structure of SR 8/US 29 over the Alcovy River in Gwinnett County. The site is about 2 miles NE of Lawrenceville. The bridge is functionally obsolete and has a bridge sufficiency rating approaching 50. The project length is estimated at 3000 feet (0.6 mile) beginning at mile log 17.1 and ending at 17.7. Reconstruction would consist of increasing the bridge width and length to current requirements and modifying the approach grades to meet AASHTO criteria.

DISCUSSION

Design

- Neil Kantner opened the meeting with a request for attendee introductions and then a reading of the description of the proposed project. He advised attendees that the Concept Report had been distributed per the PDP therefore the presentation would be brief.
- Neil stated that the Alcovy River forms the division between the "urban boundary" and "rural boundary", and since the area is in transition to urban conditions "urban" criteria is recommended and was used in the evaluation. Posted speeds are 45 MPH and 55 MPH. A 45 MPH design speed is recommended in the report.
- Some limited survey work was been completed, primarily to identify the profile and to locate any potential issues
- The existing profile has 5.5% grades on both sides of bridge. Neil indicated the recommendation is to retain the 5.5% grades. Distance from the low beam to the water is about 15 to 18 feet.
- Neil indicated the current roadway consists of two 12 foot lanes with grassed shoulders. The proposed project will retain the 12 foot lanes and widen the shoulders to 8 feet with 2 feet paved.
- The recommended concept will be on existing alignment in a tangent section, therefore no superelevated sections are involved.

- The current bridge section typical is approximately 32 feet rail to rail; the proposed is 44 feet rail to rail. Bridge originally built in 1929 with H-15 loading, widened in 1957.
- Concept A description: remove the existing bridge and reconstruct the new on current alignment, increase bridge length by approximately 30 feet, will need detours to construct, closed to traffic (see detour sketch in Project Concept Report).The detour would route SR 8 down and around to SR 20 in Lawrenceville via SR 316. Local traffic will most likely use local streets. The project length is about 1000 feet.
- Concept B description: realign to north of existing bridge verses an alignment to the south. Increase project length to about 3000 feet. This concept will have greater impact and will affect the Gwinnett County sanitary lift station. This is not recommended alternative due to the greater cost and larger impact. This concept will require more right of way acquisition than the recommended concept.

Utilities

- Gwinnett County - a cost estimate for relocation of the sewer facility is $15 million plus ROW costs. Gwinnett County is in support of the recommended alternative.
- Henry Hoertz from Gwinnett County advised there were already pipes in the ground now and proposed plans to expand pipes in the area. Currently a spider web of pipes is existing and connected to the lift station.

Environmental

- Neil indicated that there is a mill site is on both sides of the river and includes a mill stone. The existing mill site is located adjacent to the R/W on the south side of the existing bridge.
- Alexis John advised we need more evaluation and will provide more information at a later date. Alexis stated that archeology was supposed to go to site last Friday, anyway sometime before September lst. She advised we may have Section 4F issues. She said this looks like significant site and we may need to look at mitigation.
- Neil indicated the proposed concept is based on typical bridge end treatment. Vertical abutments and parallel wing walls may be considered to reduce impact if the boundary extends to edge of road. There may have been some disturbance by previous activity. No storm drains are proposed at this time.

Schedule and Funding

- Neil indicated that Ron Wishon emailed and had comments on funding.
- Take approximately 7 -8 months to build – not in long range plans of Gwinnett County
- TPro Schedule – PE on going 2002 – R/W 2005 – Construction 2007
- Current status of LGPA with Gwinnett County – not known – will be initiated with County
- No design team has been designated yet.
- Henry Hoertz advised that Gwinnett County had no plans for any parks or activities at the mill site that he knew of.

The meeting was adjourned at 10:05

SIGN-IN SHEET

Date: August 31, 2004
Team Concept Meeting
District One, Gainesville

Project No. BR-0000-00(300), Gwinnett County

NAME	DEPARTMENT	PHONE No.
ROBBY OLIVER	GA DOT UTILITIES	(770) 532-5510
MIKE HUDSON	JACKSON EMC	(770) 822-3250
Judy Johnson	GA DOT	770-532-5526
Russell McMurry	GDOT - Preconstruction	770-532-5520
JUAN CAZARES	COLONIAL PIPELINE	770-819-3554
Jennifer Fulbright	GDOT	770-532-5582
HERBERT T. HOGETZ	GWINNETT DPW	678-376-7123
ALEXIS H. JOHN	GDOT - OEL	(404) 699-4865
TODD LONG	GDOT	770-532-5526
Neil Kantner	GDOT	770-532-5580

NOTICE OF LOCATION AND DESIGN APPROVAL

BR-0000-00(300)
GWINNETT COUNTY
P.I. NO. 0000300

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 is: NOVEMBER 18, 2004

This project consists of the reconstruction of the existing bridge on SR 8 / US 29 over the Alcovy River in Gwinnett County. The site is about 2 miles NE of Lawrenceville, GA and about 0.5 miles south of the intersection of SR 316 and SR 8. The reconstructed bridge will be widened and lengthened to meet current State criteria. It will be reconstructed in its existing location.

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:

Russell McMurry, P.E., Project Manager
Georgia Department of Transportation
Gainesville District Office
Russell.McMurry@dot.state.ga.us
2505 Athens Highway, S.E.
Gainesville, GA 30503-1057
770.532.5520

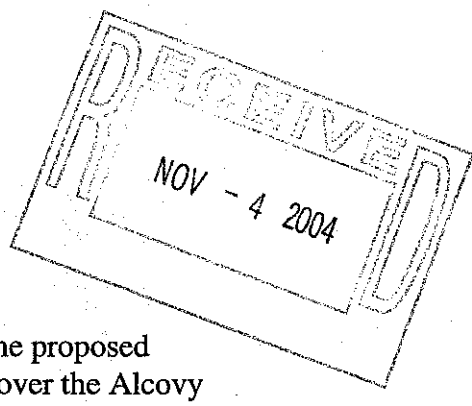
Any written request or communication in reference to this project or notice should include the Project and P. I. Numbers as noted at the top of this notice.

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRG 0000-00(300), Gwinnett County
P.I. No. 0000300

Office: Traffic Safety & Design
Atlanta, Georgia
Date: November 01, 2004



From: PMAllen Phillip M. Allen, State Traffic Safety and Design Engineer

To: Meg Pirkle, Assistant Director of Preconstruction

Subject: Project Concept Report Review

We have reviewed the above referenced concept report for the proposed replacement of the existing bridge structure of SR 8/ US 29 over the Alcovy River in Gwinnett County.

The Office of Traffic Safety and Design finds this report satisfactory for approval because it will improve safety and traffic operations within this area.

PMA/SZ/nr

Attachment (signature page)

Cc: Harvey Keepler, State Environment /Location Engineer
Paul Liles, State Bridge Engineer
David Mulling, State Review Engineer, w/ attachment
Joe Palladi, State Transportation Planning Administrator
Jamine Simpson, Financial Management Administrator
Todd Long, District Engineer
Attn.: Russel McMurry, District Preconstruction Engineer
General Files
Office Files

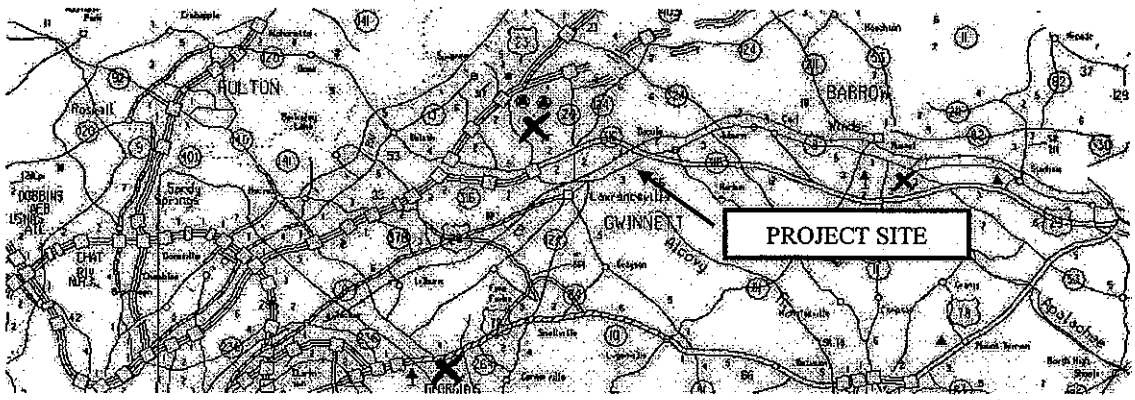
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

Project Number: BR-0000-00(300)
County: Gwinnett
P. I. Number: 0000300

Federal Route Number: US 29
State Route Number: SR 8



Recommendation for approval:

DATE 10-28-2004 Russell R. McMurry
Project Manager

DATE _____
Office Head/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 Financial Management Administrator

DATE _____
State Environmental/Location Engineer

DATE 11-3-04 Phillip M. Allgood
State Traffic Safety & Design Engineer

DATE 10/27/04
District Engineer

DATE _____
Project Review Engineer

DATE _____
State Bridge Engineer

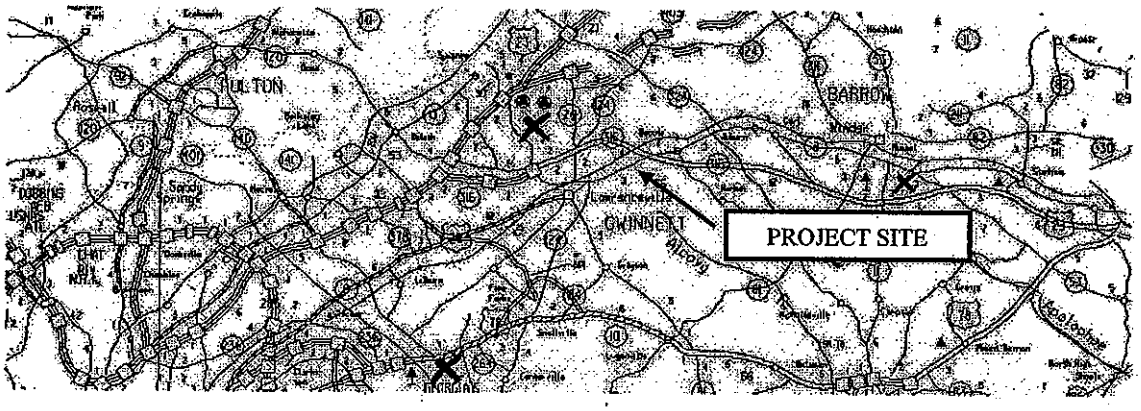
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

Project Number: BR-0000-00(300)
County: Gwinnett
P. I. Number: 0000300

Federal Route Number: US 29
State Route Number: SR 8



Recommendation for approval:

DATE 10-28-2004 Russell R. McMurry
Project Manager

DATE _____
Office Head/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 11-1-04 James Thompson
State Transportation Financial Management Administrator

DATE _____
State Environmental/Location Engineer

DATE _____
State Traffic Safety & Design Engineer

DATE 10/27/04
District Engineer

DATE _____
Project Review Engineer

DATE _____
State Bridge Engineer

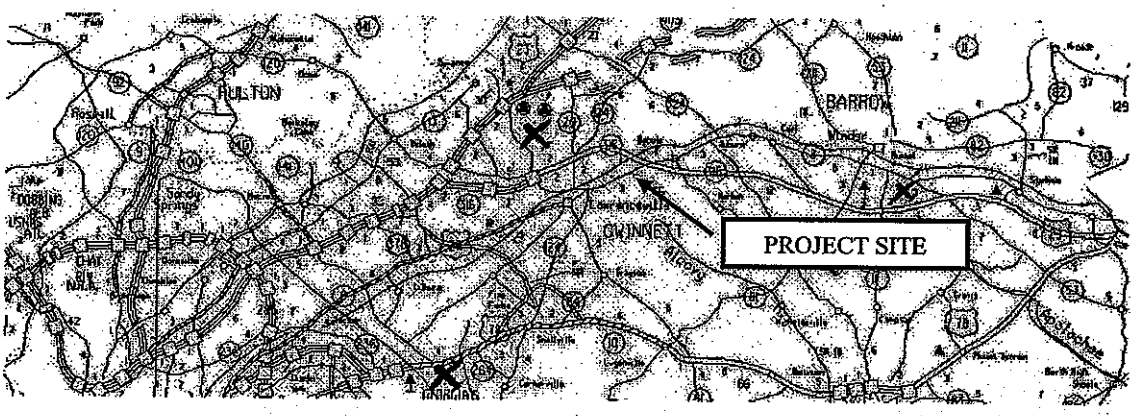
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

Project Number: BR-0000-00(300)
County: Gwinnett
P. I. Number: 0000300

Federal Route Number: US 29
State Route Number: SR 8



Recommendation for approval:

DATE 11-01-2004 — Russell R. McMurry
Project Manager

DATE 11-1-04 — for
Office Head/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 11-2-04 — James Dingus
State Transportation Financial Management Administrator

DATE _____ — State Environmental/Location Engineer

DATE _____ — State Traffic Safety & Design Engineer

DATE 11-1-04 — for
District Engineer

DATE _____ — Project Review Engineer

DATE _____ — State Bridge Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

Project Number: BR-0000-00(300)
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P. I. Number: 0000300

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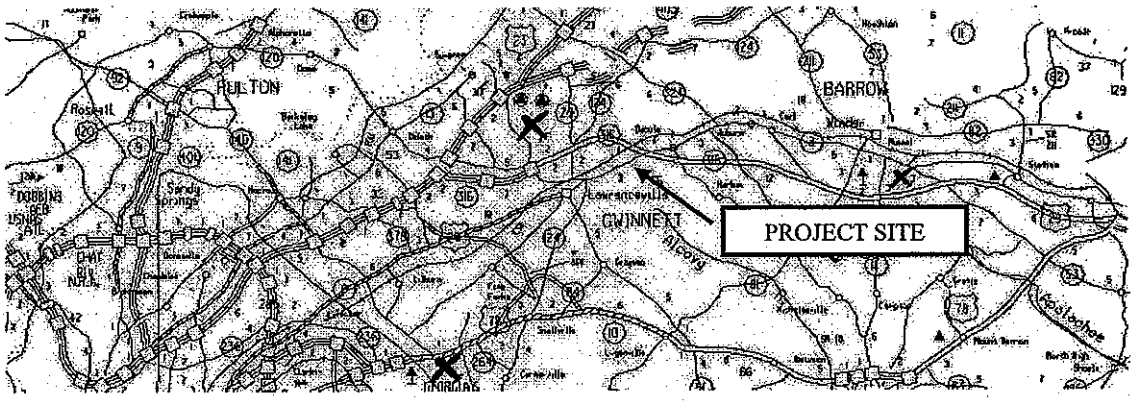


Recommendation for approval:

DATE 11-01-2004 — Russell R. McMurry
Project Manager

DATE 11-1-04 — for
Office Head/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 Financial Management Administrator

DATE _____ — State Environmental/Location Engineer

DATE _____ — State Traffic Safety & Design Engineer

DATE 11-1-04 — for
District Engineer

DATE _____ — Project Review Engineer

DATE 11/11/04 — Paul V. Liles Jr.
State Bridge Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: **P.I. Nos. 0000300** **OFFICE:** Environment/Location

DATE: November 3, 2004

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

TO: Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT: **PROJECT CONCEPT REPORT**
BR-0000-00(300) / Gwinnett County
SR 8 / US 29 Over Alcovy River, Bridge Replacement

The above subject concept report has been reviewed. Statement on Page 4 is in error – Section 4(f) is **not** dependent on mitigation measures. It depends on whether design can avoid impact. Page 5 – If an off-site detour is required, a detour PIOH will be required. If we have a 4(f) impact, environmental will take more like twelve (12) months. Off-site detour will require a detour meeting. If an individual 4(f) evaluation is required, an EA/FONSI will be the level of environmental analysis.

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

HDK/lc

cc: David Mulling, P.E., Project Review Engineer
Russell R. McMurry, P.E., District Preconstruction Engineer

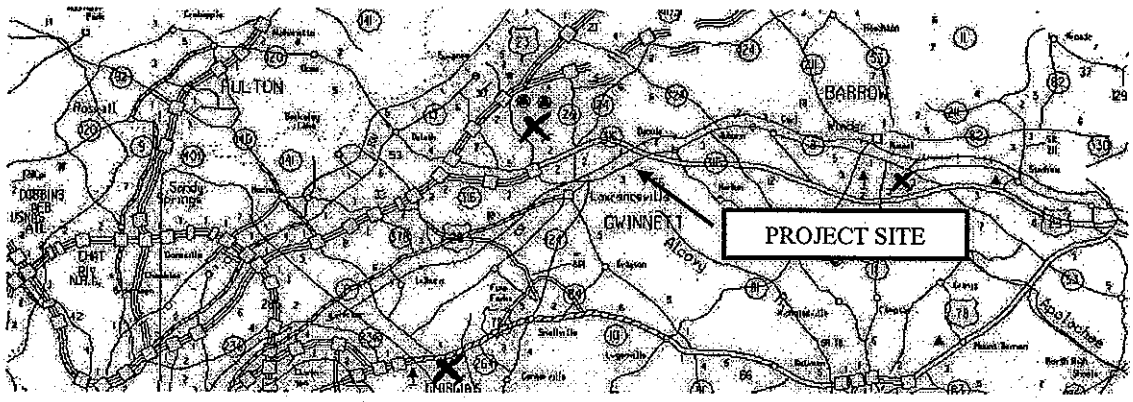
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

Project Number: BR-0000-00(300)
County: Gwinnett
P. I. Number: 0000300

Federal Route Number: US 29
State Route Number: SR 8



Recommendation for approval:

DATE 10-28-2004 Russell R. McMurry
Project Manager

DATE _____
Office Head/District Engineer

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DATE _____
State Transportation Financial Management Administrator

DATE 11.01.04
State Environmental/Location Engineer

DATE _____
State Traffic Safety & Design Engineer

DATE 10/27/04
District Engineer

DATE _____
Project Review Engineer

DATE _____
State Bridge Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

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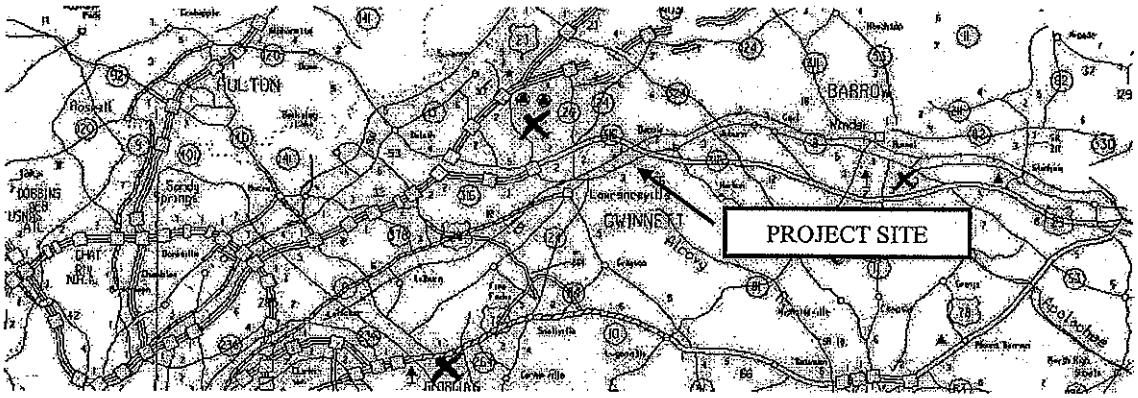

Recommendation for approval:

DATE 10-28-2004 Russell R. McMurry
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DATE _____
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DATE _____
State Transportation Planning Administrator

DATE _____
State Transportation Financial Management Administrator

DATE _____
State Environmental/Location Engineer

DATE _____
State Traffic Safety & Design Engineer

DATE 10/27/04
District Engineer

DATE 11/5/04 David J. Mahaffey Jr.
Project Review Engineer

DATE _____
State Bridge Engineer