

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

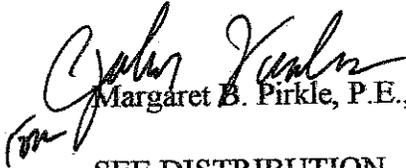
INTERDEPARTMENT CORRESPONDENCE

FILE BR-0003-00(088) Harris County
P. I. No. 0003088

OFFICE Preconstruction

DATE February 24, 2003

FROM



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

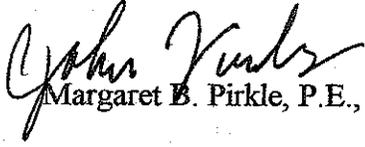
DISTRIBUTION:

David Mulling
Harvey Keeper
Jerry Hobbs
Percy Middlebrooks
Michael Henry
Phillip Allen
Marta Rosen
Paul Liles
Ben Buchan
Thomas Howell
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0003-00(088) Harris County **OFFICE** Preconstruction
P.I. No. 0003088
DATE February 3, 2003

FROM 
Margaret B. Pirkle, 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 393/Hill School Road over Barnes Creek, 2.4 miles of southwest of Hamilton, Georgia. The existing bridge, constructed in 1965, is load limited with a sufficiency rating of 25. County Road 393 at this location is a rural two lane roadway with 10' travel lanes with rural shoulders. This section of CR 393 is functionally classified as a rural major collector. Traffic is projected to be 1100 VPD and 2000 VPD in the years 2008 and 2028 respectively. The posted speed and the design speed are 45 MPH.

The construction proposes to construct a new 90' x 38' concrete bridge over Barnes Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 6' rural shoulders on 100' of proposed minimum right-of-way. Traffic will be maintained during construction utilizing an off-site detour. Harris County is 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)	\$556,000	\$527,000	2006	2026
Right-of-Way & Utilities*	Local	Local		

* Harris County signed LGPA on 10-16-01 for right-of-way, utilities, and detours.

Frank L. Danchetz

Page 2

BR-0003-00(088) Harris

February 3, 2003

I recommend this project concept be approved.

MBP: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**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BR-0003-00(088) Harris
P.I. Number 0003088

OFFICE: Engineering Services

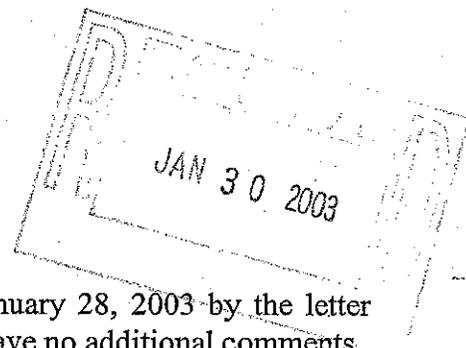
DATE: January 29, 2003

FROM: David Mulling, Project Review Engineer *REW*

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the concept report submitted January 28, 2003 by the letter from James B. Buchan dated January 22, 2003, and have no additional comments.



The costs for this project are:

Construction	\$459,110
Inflation	\$50,620
E&C	\$45,911
Reimbursable Utilities	\$0.00
Right of Way	\$20,000 (LGPA anticipated)

REW

c: Ben Buchan, Attn: Otis Clark

SCORING RESULTS AS PER MOG 2440-2

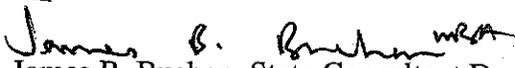
Project Number: BR-003-00(088)		County: Harris		PI No.: 0003088	
Report Date: January 22, 2003		Concept By: DOT Office: Consultant Design			
<input checked="" type="checkbox"/> Concept Stage		Consultant: URS Corporation			
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE **BR-0003-00(088) Harris County**
CR 393/Hill School Road at Barnes Creek 2.4 mi SW of Hamilton
P.I. No. 0003088

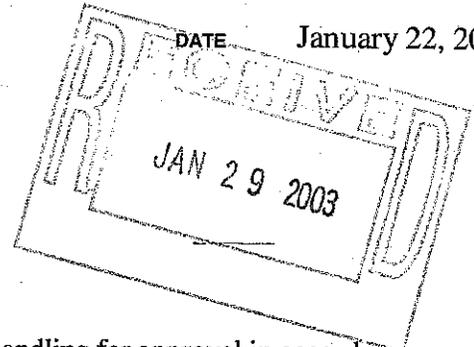
OFFICE Atlanta

FROM 
James B. Buchan, State Consultant Design Engineer

DATE January 22, 2003

TO Margaret B. Pirkle, Assistant Director of Preconstruction

SUBJECT **PROJECT CONCEPT REPORT**



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

Those on the distribution list below should review the Concept Report and send comments and/or the signature page to the Preconstruction Office within 10 days as per the PDP.

If you have any questions or require further information please call Otis Clark at (404)463-6265 or Don Harris of URS Corporation at (404) 888-8800.

Distribution:

- David Mulling, Project Review Engineer
- Harvey Keeper, State Environmental/Location Engineer
- Phillip Allen, State Traffic Safety and Design Engineer
- Marta Rosen, State Transportation Planning Administrator
- Herman Griffin, Office of Financial Management Administrator
- Thomas Howell, District Engineer – Thomaston
- Paul Liles, State Bridge & Structural Engineer

JBB:MBA:OC

cc: URS Corporation

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

CR393/LOWER BLUE SPRINGS ROAD OVER BARNES CREEK

Project Number: BR-0003-00(088)
P.I. NO. 0003088
County: HARRIS

**FEDERAL ROUTE NO: N/A
STATE ROUTE NO: N/A
COUNTY ROUTE NO: 393**

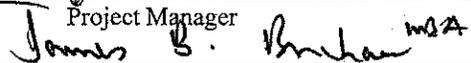
Prepared by:

DATE 1-22-03

DATE 1-22-03



Project Manager



State Consultant Design Engineer

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

DATE	State Transportation Planning Administrator
DATE	Financial Management Administrator
DATE	State Environmental / Location Engineer
DATE	Project Review Engineer
DATE	State Traffic Safety and Design Engineer
DATE	State Bridge & Structural Design Engineer

Need and Purpose: See Attached Need and Purpose Statement.

Description of the proposed project: The proposed project is comprised of replacing the bridge over Barnes Creek and improving the approach to the bridge on CR393/Lower Blue Springs Road. The Existing Bridge has a current structural rating of 25.6 (based on H 15 design live load). The length of the project is approximately 0.19 miles. The new bridge will be approximately 90 feet in length with 32 feet of clear width (per MOG 4265-9). The project will utilize an off site detour during the construction phase.

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

PDP Classification: Major , or Minor

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

Functional Classification: Rural Major Collector

U. S. Route Number(s): N/A **State Route Number(s):** N/A **County Route Number(s):** 393

Traffic (AADT): Base Year: (2008) 1100 Design Year: (2028) 2000

Existing design features:

- Typical Section: 2 lane asphalt (20 foot width), 5ft grass shoulder
- Posted speed 45 mph
- Maximum degree of curvature: 4.75
- Maximum grade: 7.5 % (CR 393)
- Width of right of way: 80 ft.
- Major structures: ID 145-0061-0, L=80ft, W=24ft, SR=25.6
- Existing length of roadway segment: 0.45 miles

Proposed Design Features:

- Proposed typical section(s): 2-12ft lanes, 6ft grass shoulders
- Proposed Design Speed Mainline: 45 mph
- Proposed Maximum grade Mainline: 7.5 %
- Maximum grade allowable: 7.5 %
- Proposed Maximum grade Side Street : N/A
- Maximum grade allowable: N/A
- Proposed Maximum grade driveway: 15%
- Proposed Maximum degree of curve: 4.75
- Maximum degree allowable: 9.75

- Right of way
 - Width: 100 ft.
 - Easements: Temporary , Permanent , Utility , Other .
 - Type of access control: Full , Partial , By Permit , Other .
 - Number of parcels: 2 Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges – New bridge over Barnes Creek, approximately 90' in length and 32' clear width
 - Retaining walls: N/A
- Traffic control during construction: Road to be closed during construction

• Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ROADWAY WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOULDER WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL GRADES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CROSS SLOPES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
STOPPING SIGHT DISTANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUPERELEVATION RATES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HORIZONTAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPEED DESIGN:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE STRUCTURAL CAPACITY:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Design Variances – None expected
- Environmental concerns: Wetlands
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes , No ,
 - Categorical exclusion, *anticipated* ,
 - Environmental Assessment/Finding of No Significant Impact (FONSI) , or
 - Environmental Impact Statement (EIS) .
- Utility involvements: power lines, water main

Project responsibilities:

- Design, GDOT.
- Right of Way Acquisition, Harris County, Signed 10/16/01
- Relocation of Utilities, Harris County, Signed 10/16/01
- Letting to contract, GDOT.
- Supervision of construction, GDOT.
- Providing material pits, contractor.
- Providing Detour, Harris County.

Coordination

- Concept meeting date and brief summary. Attach minutes: To be scheduled.
- P. A. R. meetings, dates and results: *Not required*
- FEMA, USCG, and/or TVA: FEMA (project encroaches mapped 100-year floodplain).
- Public involvement: *None anticipated*
- Local government comments: *None anticipated*
- Other projects in the area: *None anticipated*

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 9 Months.
- Time to complete preliminary construction plans: 4 Months.
- Time to complete right of way plans: 2 Months.
- Time to complete the Section 404 Permit: 6 Months.
- Time to complete final construction plans: 4 Months.
- Time to purchase right of way: 6 Months.
- List other major items that will affect the project schedule: N/A Months.

Alternates considered:

1. Replacement bridge on existing location (off site detour).
2. Alignment on a new location to the north was studied. Utilities are located on this side, however this alternative would allow the existing bridge to remain open to facilitate traffic. This alternate was discounted due to the additional construction and right of way costs. See attached cost estimates.
3. On existing location with on-site detour (temporary bridge).
4. No Build. This alternate was discounted since it does not satisfy the need and purpose of the project.
5. Bridge Culvert.

Comments:

Comparison Summary of Concepts 1 - 5

Alternative (1) is the preferred alternate.

Alternatives (2) and (3) were discounted due to higher construction related costs, added utility and right of way costs, and greater negative environmental impacts.

Alternative (4) was eliminated due to the deficient design live load (H 15) and long term maintenance costs.

Alternative (5) will be studied during preliminary design.

Project Concept Report Page 6
Project Number: BR-0003-00(088) P.I. Number:0003088
5/15/02
County:Harris

Attachments:

1. Cost Estimates:
 - a. Preferred alternate (Const., R/W, and utilities)
 - b. Realignment alternate (Const., R/W, and utilities)
2. Typical sections
3. Bridge inventory
4. Minutes of Concept meeting (Omitted from this draft)
5. Location and Design Notice
6. Concept Report Rating Form
7. Need and Purpose
8. Traffic counts
9. Cover sheet

PRELIMINARY COST ESTIMATES

PREPARED BY: Jerome Henderson, Jr.

PROJECT LENGTH: 0.19 miles

ESTIMATED LETTING DATE:

PROGRAMMING PROCESS CONCEPT DEVELOPMENT DURING PROJECT DEV.

PROJECT COST-Preferred Alternative 1, Replacement Bridge		
A. RIGHT-OF-WAY:		
1. PROPERTY (LAND & EASEMENT)	LGPA \$20,000	\$ 0.00
2. DISPLACEMENTS: RES: 0, BUS: 0, M.H.: 0		\$ 0.00
3. OTHER COST (ADM./COST, INFLATION)		\$ 0.00
	SUBTOTAL:A	\$ 0.00
B. REIMBURSABLE UTILITIES:		
1. RAILROAD		\$ 0.00
2. TRANSMISSION LINES		\$ 0.00
3. SERVICES		\$ 0.00
	SUBTOTAL:B	\$ 0.00
C. CONSTRUCTION:		
1. MAJOR STRUCTURES Bridge (90' x 35.25' @ \$55/sf)		\$ 174,490.00
a. OVERPASSES		\$ 0.00
b. RETAINING WALL		\$ 0.00
	SUBTOTAL:C-1	\$ 174,490.00
2. GRADING AND DRAINAGE:		
a. EARTHWORK		\$ 200,000.00
b. DRAINAGE:		
1) Curb and Gutter		\$ 0.00
2) Longitudinal System		
Catch Basins (0 @ \$2000/basin)		\$ 0.00
Drop Inlets (0 @ \$2000/inlet)		\$ 0.00
Flared End Section (0 @ \$495/FES)		\$ 0.00
Safety End Section (0 @ \$400/SES)		\$ 0.00
MH (0 @ \$2014/MH)		\$ 0.00
24 inch pipe (0 ft @ \$32/ft)		\$ 0.00
	SUBTOTAL:C-2	\$ 100,000.00
3. BASE AND PAVING:		

PROJECT COST-Preferred Alternative 1, Replacement Bridge

a. AGGREGATE BASE (3060 tons @ \$13/ton)		\$	39,780.00
b. ASPHALT PAVING:			
Milling (444 yd ² @ \$4.00/ yd ²)	\$	1,776.00	
Surface (215 tons @ \$50/ton)	\$	10,750.00	
Binder (290 tons @ \$50/ton)	\$	14,500.00	
Base (435 tons @ \$50/ton)	\$	21,750.00	
		SUBTOTAL:C-3.b	\$ 48,776.00
c. CONCRETE PAVING		\$	0.00
d. OTHER		\$	0.00
	SUBTOTAL:C-3	\$	88,556.00
4. LUMP ITEMS:			
a. GRASSING (1.04 acre @ \$1000/acre)		\$	1,040.00
b. CLEARING AND GRUBBING		\$	10,000.00
c. LANDSCAPING		\$	0.00
d. EROSION CONTROL (LUMP)		\$	24,000.00
e. TRAFFIC CONTROL		\$	30,000.00
		SUBTOTAL:C-4	\$ 65,040.00
5. MISCELLANEOUS:			
a. LIGHTING		\$	0.00
b. SIGNING - MARKING		\$	420.00
c. GUARDRAIL		\$	
W Beam (400 ft @ \$13/ft)		\$	5,200.00
TP 12 Anchor (4 @ \$1,350)		\$	5,400.00
d. SIDEWALK (0 yd ² @ \$25.75/ yd ²)		\$	0.00
		SUBTOTAL:C-5	\$ 11,020.00
6. SPECIAL FEATURES: Removal of Existing Bridge			
		SUBTOTAL:C-6	\$ 20,000.00

ESTIMATE SUMMARY, Preferred Alternative 1, Replacement Bridge		
A. RIGHT-OF-WAY ()	LGPA \$20,000	\$ 0.00
B. REIMBURSABLE UTILITIES		\$ 0.00
C. CONSTRUCTION		
1. MAJOR STRUCTURES		\$ 174,490.00
2. GRADING AND DRAINAGE		\$ 100,000.00
3. BASE AND PAVING		\$ 88,556.00
4. LUMP ITEMS		\$ 65,040.00
5. MISCELLANEOUS		\$ 11,020.00
6. SPECIAL FEATURES		\$ 20,000.00
SUBTOTAL CONSTRUCTION COST		\$ 459,110.00
E. & C. (10%)		\$ 45,911.00
INFLATION (5% PER YEAR)		\$ 50,620.00
NUMBER OF YEARS	2	
TOTAL CONSTRUCTION COST		\$ 555,645.00
GRAND TOTAL PROJECT COST		\$ 555,645.00

This project is 100 percent in Harris County.

PRELIMINARY COST ESTIMATE OF REALIGNMENT ALTERNATE

PREPARED BY: Joe Brisbane

PROJECT LENGTH: 0.41 miles

ESTIMATED LETTING DATE:

PROGRAMMING PROCESS CONCEPT DEVELOPMENT DURING PROJECT DEV.

PROJECT COST, Alternative 2 – Realignment		
A. RIGHT-OF-WAY:		
1. PROPERTY (LAND & EASEMENT)	LGPA \$ 20,000	\$ 0.00
2. DISPLACEMENTS: RES: 0, BUS: 0, M.H.: 0		\$ 0.00
3. OTHER COST (ADM./COST, INFLATION)		\$ 0.00
	SUBTOTAL:A	\$ 0.00
B. REIMBURSABLE UTILITIES:		
1. RAILROAD		\$ 0.00
2. TRANSMISSION LINES		\$ 0.00
3. SERVICES		\$ 0.00
	SUBTOTAL:B	\$ 0.00
C. CONSTRUCTION:		
1. MAJOR STRUCTURES Bridge (90' x 35.25' @ \$55/sf)		\$ 174,500.00
a. OVERPASSES		\$ 0.00
b. RETAINING WALL		\$ 0.00
	SUBTOTAL:C-1	\$ 174,500.00
2. GRADING AND DRAINAGE:		
a. EARTHWORK		\$ 200,000.00
 b. DRAINAGE:		
1) Curb and Gutter		\$ 0.00
2) Longitudinal System		
Catch Basins (0 @ \$2000/basin)		\$ 0.00
Drop Inlets (0 @ \$2000/inlet)		\$ 0.00
Flared End Section (0 @ \$495/FES)		\$ 0.00
Safety End Section (0 @ \$400/SES)		\$ 0.00
MH (0 @ \$2014/MH)		\$ 0.00
24 inch pipe (0 ft @ \$32/ft)		\$ 0.00

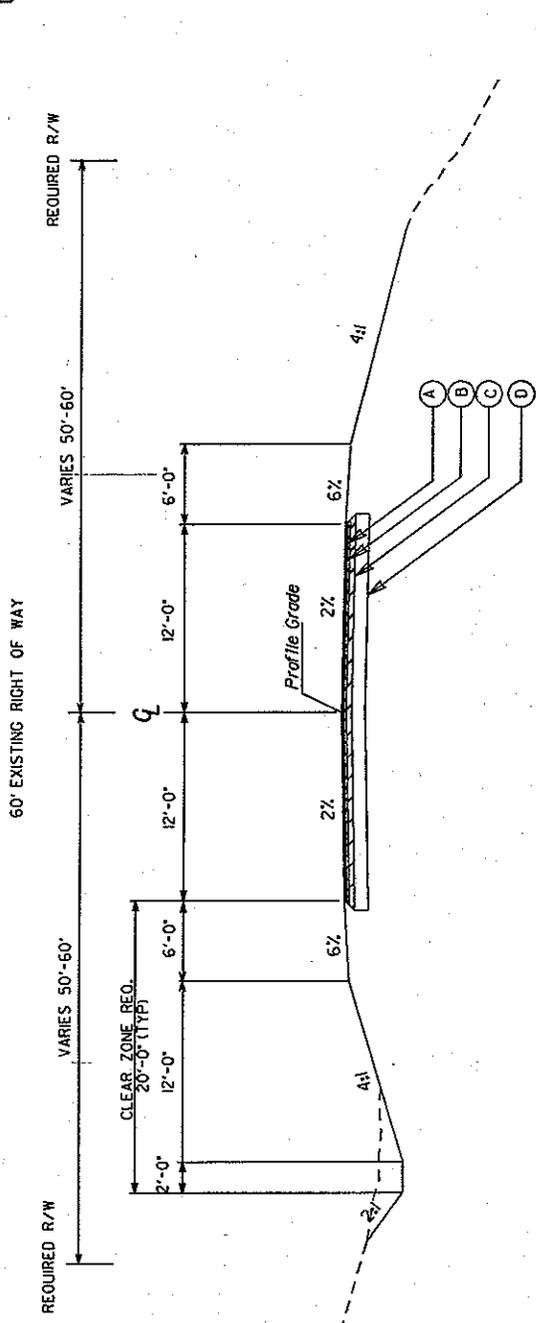
PROJECT COST, Alternative 2 – Realignment

SUBTOTAL:C-2		\$ 200,000.00
3. BASE AND PAVING:		
a. AGGREGATE BASE (10,700 tons @ \$13/ton)		\$ 139,100.00
b. ASPHALT PAVING:		
Milling (444 yd ² @ \$4.00/ yd ²)	\$ 1,776.00	
Surface (440 tons @ \$50/ton)	\$ 22,000.00	
Binder (590 tons @ \$50/ton)	\$ 29,500.00	
Base (960 tons @ \$50/ton)	\$ 48,000.00	
SUBTOTAL:C-3.b		\$ 101,276.00
c. CONCRETE PAVING		\$ 0.00
d. OTHER		\$ 0.00
SUBTOTAL:C-3		\$ 240,376.00
4. LUMP ITEMS:		
a. GRASSING (2.3 acre @ \$1000/acre)		\$ 2,300.00
b. CLEARING AND GRUBBING		\$ 15,000.00
c. LANDSCAPING		\$ 0.00
d. EROSION CONTROL (LUMP)		\$ 24,000.00
e. TRAFFIC CONTROL		\$ 30,000.00
SUBTOTAL:C-4		\$ 71,300.00
5. MISCELLANEOUS:		
a. LIGHTING		\$ 0.00
b. SIGNING - MARKING		\$ 420.00
c. GUARDRAIL		\$
W Beam (400 ft @ \$13/ft)	\$ 5,200.00	
TP 12 Anchor (4 @ \$1,350)	\$ 5,400.00	
d. SIDEWALK (0 yd ² @ \$25.75/ yd ²)	\$ 0.00	
SUBTOTAL:C-5		\$ 11,020.00
6. SPECIAL FEATURES: Removal of Existing Bridge		
SUBTOTAL:C-6		\$ 20,000.00

ESTIMATE SUMMARY, Alternative 2 – Realignment		
A. RIGHT-OF-WAY ()	LGPA \$ 20,000	\$ 0.00
B. REIMBURSABLE UTILITIES		\$ 0.00
C. CONSTRUCTION		
1. MAJOR STRUCTURES		\$ 174,500.00
2. GRADING AND DRAINAGE		\$ 200,000.00
3. BASE AND PAVING		\$ 240,376.00
4. LUMP ITEMS		\$ 71,300.00
5. MISCELLANEOUS		\$ 11,020.00
6. SPECIAL FEATURES		\$ 20,000.00
SUBTOTAL CONSTRUCTION COST		\$ 697,196.00
E. & C. (10%)		\$ 69,719.00
INFLATION (5% PER YEAR)		\$ 78,608.00
NUMBER OF YEARS	2	
TOTAL CONSTRUCTION COST		\$ 845,524.00
GRAND TOTAL PROJECT COST		\$ 845,524.00

This project is 100 percent in Harris County.

STATE	PROJECT NUMBER	SHEET TOTAL
GA.	BR-003-00000P	10
	SECTION	10
	SECTION	10



CR393/LOWER BLUE SPRINGS ROAD OVER BARNES CREEK

- ① 165 lbs/yd³ 12.5mm SUPERPAVE GP 2 ONLY (MDL B)
- ② 220 lbs/yd³ 19mm SUPERPAVE GPI OR GP2 ONLY (MDL B)
- ③ 330 lbs/yd³ 25mm SUPERPAVE GPI OR GP2 ONLY (MDL A)
- ④ 7" GRADED AGGREGATE BASE COURSE

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF CONSULTANT DESIGN	URS 225 ROBERTS DRIVE, SUITE 1000 ATLANTA, GA 30308 TEL: (404) 521-2200 FAX: (404) 521-2208	BARNES CREEK ROAD	TYPICAL SECTIONS	5.0
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BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 145-0061-0

Harris County

SUFF. RATING: 25.6

Location & Geography

* Structure I.D. No.: 145-0061-0
 200 Bridge Information: 06
 * 6A Feature Int.: BARNES CREEK
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: CR00393
 * 7B Facility Carried: HILL SCHOOL ROAD
 * 9 Location: 2.4 MILES S.W. HAMILTON
 2 DOT District: 3
 207 Year Photo: 1997
 * 91 Inspection Frequency: 24 Date: 12/15/1999
 92A Fract Crit Insp Freq: 0.00 Date: 0000
 92B Underwater Insp Freq: 0.00 Date: 0000
 92C Other Spc. Insp Freq: 0.00 Date: 0000

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1
 Type: 4
 Designator: 1
 Number: 02651
 Direction: 0

* 16 Latitude: 32-44.5
 * 17 Longitude: 84 -54.5

98 Border Bridge: 000 %Shared: 00
 99 ID Number: 0000000000000000

* 100 Defense Highway: 0
 * 101 Parallel Structure: N
 * 102 Direction of Traffic: 2
 264 Road Inventory Mile Post: 007.65

* 208 Inspection Area: 08 Initials: JLA

* Location I.D. No: 145-02651F-007.54E
 * XReferen I.D. No: 000-0000000-000.000

Signs & Attachments

223 Expansion Joint Type: 02
 242 Deck Drains: 1
 243 Parapet Location: 0
 Height: 0
 Width: 0
 238 Curb: 1.1 1
 239 Handrail: 0 0
 * 240 Median Barrier Rail: 0
 241 Bridge Median Height: 0
 Width: 0
 * 230 Guardrail Loc Dir Rear: 0
 Fwrd: 0
 Oppo Dir Rear: 0
 Fwrd: 0
 244 Approach Slab: 0
 224 Retaining Wall: 0
 233 Posted Speed Limit: 45
 236 Warning Sign: 0
 234 Delineator: 1
 235 Hazard Boards: 1
 237 Utilities Gas: 00
 Water: 00
 Electric: 00
 Telephone: 00
 Sewer: 00
 247 Lighting Street: 0
 Navigation: 0
 Aerial: 0
 * 248 County Continuity No: 00

* 104 Highway System: 0
 * 26 Functional Classification: 07
 * 204 Federal Route Type: S No: 02651
 * 110 Truck Route: 0
 206 School Bus Route: 1
 217 Benchmark Elevation: 0.00
 218 Datum: 0
 * 19 Bypass Length: 8
 * 20 Toll: 3
 * 21 Maintenance: 02
 * 22 Owner: 02
 * 31 Design Load: 2
 37 Historical Significance: 5
 205 Congressional District: 03
 * 27 Year Constructed: 1965
 106 Year Reconstructed: 0000
 33 Bridge Median: 0
 34 Skew: 00
 35 Structure Flared: 0
 38 Navigation Control: 0
 213 Special Steel Design: 0
 267 Type of Paint: 1
 * 42 Type Service On: 1 Under: 5
 214 Movable Bridge: 00
 203 Type Bridge: C-K-M-O
 259 Pile Encasement: 3
 * 43 Structure Type Main: 3 02
 45 No. Spans Main: 005
 44 Structure Type Appr: 0 0
 46 No. Spans Appr: 0000
 226 Bridge Curve Horz: 0 Vert: 1
 111 Pier Protection: 0
 107 Deck Structure Type: 1
 108 Wearing Surface Type: 1
 Membrane: 0
 Protection: 0

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 145-0061-0

Harris County

SUFF. RATING: 25.6

Programming Data

201 Project No: UNKNOWN
 202 Plans Available: 0
 249 Prop. Proj No: 00000000000000000000000000000000
 250 Approval Status: 0000
 251 P.I. No: 0000000
 252 Contract Date: 0000
 260 Seismic No: 00000
 75 Type Work: 31 1
 94 Bridge Imp. Cost: \$ 87
 95 Roadway Imp. Cost: \$ 46
 96 Total Imp. Cost: \$ 159
 76 Imp. Length: 000291
 97 Imp. Year: 1990
 114 Future ADT: 001050 Year: 2018

Measurements

* 29 ADT: 000700 Year: 1998
 109 % Trucks: 16
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0016
 * 49 Structure Length: 80
 51 Br. Rdwy. Width: 24.0
 52 Deck Width: 25.1
 * 47 Tot. Horz. Cl: 24.0
 50 Curb/Sdewlk Width: 0.5/0.5
 32 Approach Rdwy Width: 020
 * 229 Shlder Width:
 Rear Lt: 7.0 Type: 8 Rt: 7.0
 Fwd Lt: 7.0 Type: 8 Rt: 7.0
 Pvmnt Width:
 Rear: 20.0 Type: 2
 Fwd: 20.0 Type: 2
 Intersection Rear: 0 Fwd: 0
 36 Safety Features Br. Rail: 3
 Transition: 0
 App. G. Rail: 0
 App. Rail End: 0
 53 Minimum Cl. Over: 99'99"
 Under: N 00'00"
 * 228 Min. Vert. Cl
 Act. Odm. Dir: 99'99"
 Opp. Dir: 99'99"
 Posted Odm. Dir: 00'00"
 Opp. Dir: 00'00"
 55 Lateral Undercl. Rt: N 99.9
 56 Lateral Undercl. Lt: 0.0
 * 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: 5.0
 Deck Thick Approach: 0.0
 246 Overlay Thickness: 0.0
 211 Tons Structural Steel: 7.0
 212 Year Last Painted: Sup: 1965 Sub: 0000

Ratings

66 Inventory Type: 2 Rating: 06
 64 Operating Type: 2 Rating: 08
 231 Calculated Loads
 H-Modified: 10 1
 HS-Modified: 17 1
 Type 3: 11 1
 Type 3s2: 20 1
 Timber: 16 1
 Piggyback: 00 0
 261 H Inventory Rating: 09
 262 H Operating Rating: 12
 67 Structural Evaluation: 2
 58 Deck Condition: 5
 59 Superstructure Condition: 6
 * 227 Collision Damage: 0
 60A Substructure Condition: 3
 60B Scour Condition: 8
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond: 8
 68 Deck Geometry: 4
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 7
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 0
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: T
 232 Posted Loads H-Modified: 10
 HS-Modified: 17
 Type 3: 11
 Type 3S2: 20
 Timber: 16
 Piggyback: 00
 253 Notification Date: 01/03/1996
 253 Fed Notify Date: 0000 0

Hydraulic Data

215 Waterway Data
 Highwater Elev: 0000.0 Year: 0000
 Flood Elev: 0000.0 Freq: 00
 Avg. Streambed Elev: 0000.0
 Drainage Area: 00000
 Area of Opening: 000000
 113 Scour Critical: 6
 216 Water Depth: 00.5 Br Height: 13.2
 222 Slope Protection: 6
 221 Spur Dikes Rear: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No Barrels: 0
 Width: 0.0
 Height: 0.0
 Length: 0
 Apron: 0
 * 265 U/W Insp. Area: 0 Diver: ZZZ
 * Location I.D. No: 145-02651F-007.54E
 * XReferen I.D. No: 000-0000000-000.000

NOTICE OF LOCATION DESIGN APPROVAL
BR-0003-00(088) HARRIS COUNTY
P. I. No. 0003088

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.

Date of Location Design Approval: FEBRUARY 24, 2003

This project is the 0.09 mile bridge replacement of SR 393/Lower Blue Springs Rd over Barnes Creek 2.0 miles southwest of Hamilton. A new bridge over the creek will be constructed to replace the currently deficient one. SR393/Lower Blue Springs Rd will be closed to through traffic during construction of the new bridge. Traffic will be detoured along Graddick Rd and SR 116. The project lies entirely within Harris County and within Land District 2 and Land Lots 38,58,59, and 71.

Drawings of maps or plats of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation.

Gary Mailhot, Area Engineer
Department Of Transportation
Columbus District Office
3600 Schatulga Road
Columbus, Georgia 31907
(706) 568-2165

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Otis Clark, Office of Consultant Design
Department Of Transportation
NO. 2. Capitol Square
Atlanta, Georgia 30334
(404) 463-6265
Otis.Clark@dot.state.ga.us

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

SCORING RESULTS AS PER TOPPS 2440-2

Project Number: BR-003-00(088)		County: Harris		PI No.: 0003088		
Report Date: August 1, 2002		Concept By:				
		DOT Office: Office of Consultant Design				
<input checked="" type="checkbox"/> CONCEPT		Consultant: URS Corporation				
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 <input type="checkbox"/> Building <input type="checkbox"/> Interchange <input type="checkbox"/> Intersection <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous		
FOCUS AREAS	SCORE	RESULTS				
<u>Presentation</u>						
<u>Judgement</u>						
<u>Environmental</u>						
<u>Right of Way</u>						
Utility						
Constructability						
Schedule						

NEED AND PURPOSE
PROJECT BR-0003-00(088) HARRIS COUNTY
PI No. 00030988
Bridge Replacement

Project Number BR-0003-00(088) will replace the bridge over Barnes Creek, in Harris County. This Bridge on CR 393 / Hill School Road is approximately 2.4 miles southwest of the City of Hamilton, Georgia and 0.21 mile in length.

County Road 393 is functionally classified as a rural major collector. The posted speed limit is 45 miles per hour. County Road 393 is on a school bus route and Harris County is on the Statewide Route Network for known Bicycle and Pedestrian Plans. The CR 393 / Hill School Road Bridge was constructed in 1965. The projected Average Daily Traffic (ADT) along this section of roadway in the year 2008 is 1,100 with 10% trucks. The projected 2028 ADT for this section of roadway is 2,000.

There are no other roadway improvement projects in the vicinity shown in the construction work program at this time. Replacing the bridge will bring it up to current design standards and improve the operation and safety of this roadway.

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BR-0003-00(088) Harris
P.I. 0003088

OFFICE Environment/ Location

DATE October 23, 2001

FROM Harvey D. Keepler, State Environmental/ Location Engineer

TO Jim Chambers, P.E., State Consultant Design Engineer
Attn: Ted Cashin

SUBJECT CR 393/Lower Blue Springs Rd @ Barnes Creek

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

Existing 2000 ADT = 850
2008 ADT = 1100
2028 ADT = 2000
K = 10%
D = 60%
T = 8%
24 HR T = 10%
SU = 7%
COMB = 3%

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

HDK:TJW

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

CR393/LOWER BLUE SPRINGS ROAD OVER BARNES CREEK

Project Number: BR-0003-00(088)
P.I. NO. 0003088
County: HARRIS

FEDERAL ROUTE NO: N/A
STATE ROUTE NO: N/A
COUNTY ROUTE NO: 393

Prepared by: _____

DATE 1-22-03

DATE 1-22-03

Wes Clark

Project Manager

James B. Buchanan MSA

State Consultant Design Engineer

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

DATE _____	State Transportation Planning Administrator
DATE _____	Financial Management Administrator
DATE _____	State Environmental / Location Engineer
DATE _____	Project Review Engineer
<u>1/29/03</u>	<i>David J. Mulling</i> ^{REW}
DATE _____	State Traffic Safety and Design Engineer
DATE _____	State Bridge & Structural Design Engineer

Department of Transportation
State of Georgia

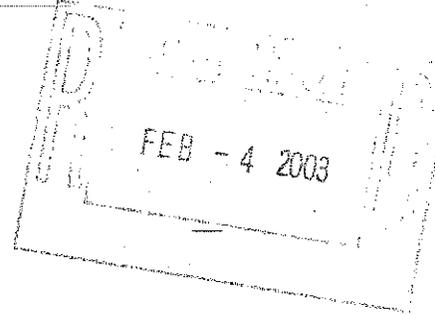
INTERDEPARTMENTAL CORRESPONDENCE

File: BR-0003-00(088) / Harris County
P.I. No. 0003088

Office: Traffic Safety & Design
Atlanta, Georgia

Date: January 30, 2003

PMA/HC
From: 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 bridge replacement on CR 393 over Barnes Creek in Harris County.

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

PMA/sz

Attachment (signature page)

Cc: Harvey Keeper, Environment/Location Engineer
James B. Buchan, State Consultant Design Engineer
- Attention: Ted Cashin
Thomas Howell, District Engineer - Thomaston
Attention: David Millen, District Preconstruction Engineer
David Mulling, Engineer Services, w/ attachment
Marta Rosen, State Transportation Planning Administrator
Paul Liles, State Bridge & Structural Design Engineer
Chuck Hasty, TMC
General Files
Office Files

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

CR393/LOWER BLUE SPRINGS ROAD OVER BARNES CREEK

Project Number: BR-0003-00(088)
P.I. NO. 0003088
County: HARRIS

FEDERAL ROUTE NO: N/A
STATE ROUTE NO: N/A
COUNTY ROUTE NO: 393

Prepared by:

DATE 1-22-03

DATE 1-27-03

Miss Clark

Project Manager

James B. Buchanan MA

State Consultant Design Engineer

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

DATE _____	State Transportation Planning Administrator
DATE _____	Financial Management Administrator
DATE _____	State Environmental / Location Engineer
DATE _____	Project Review Engineer
<u>1/30/03</u>	<i>Phillip M. Allard</i>
DATE _____	State Traffic Safety and Design Engineer
DATE _____	State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

CR393/LOWER BLUE SPRINGS ROAD OVER BARNES CREEK

Project Number: BR-0003-00(088)
P.I. NO. 0003088
County: HARRIS

FEDERAL ROUTE NO: N/A
STATE ROUTE NO: N/A
COUNTY ROUTE NO: 393

Prepared by:

DATE 1-22-03

DATE 1-22-03

Miss Clark

Project Manager

James B. Buchanan MSA

State Consultant Design Engineer

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

DATE

1/31/03

DATE

State Transportation Planning Administrator

Roy Mitchell

Financial Management Administrator

DATE

State Environmental / Location Engineer

DATE

Project Review Engineer

DATE

State Traffic Safety and Design Engineer

DATE

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

CR393/LOWER BLUE SPRINGS ROAD OVER BARNES CREEK

Project Number: BR-0003-00(088)
P.I. NO. 0003088
County: HARRIS

FEDERAL ROUTE NO: N/A
STATE ROUTE NO: N/A
COUNTY ROUTE NO: 393

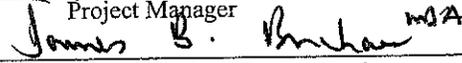
Prepared by:

DATE 1-22-03

DATE 1-27-03

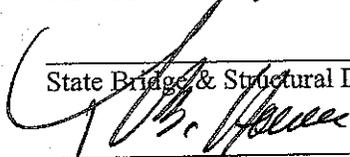


Project Manager



State Consultant Design Engineer

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

DATE _____	State Transportation Planning Administrator
DATE _____	Financial Management Administrator
DATE _____	State Environmental / Location Engineer
DATE _____	Project Review Engineer
DATE _____	State Traffic Safety and Design Engineer
DATE _____	State Bridge & Structural Design Engineer
<u>2-7-03</u> DATE _____	 District Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

CR393/LOWER BLUE SPRINGS ROAD OVER BARNES CREEK

Project Number: BR-0003-00(088)
P.I. NO. 0003088
County: HARRIS

FEDERAL ROUTE NO: N/A
STATE ROUTE NO: N/A
COUNTY ROUTE NO: 393

Prepared by:

DATE 1-22-03

DATE 1-27-03

Wes Clark

Project Manager

James B. Buchanan MS

State Consultant Design Engineer

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

DATE _____	State Transportation Planning Administrator
DATE _____	Financial Management Administrator
DATE _____	State Environmental / Location Engineer
DATE _____	Project Review Engineer
DATE _____	State Traffic Safety and Design Engineer
<u>2/20/03</u> DATE	<i>Paul V. Hile Jr.</i> State Bridge & Structural Design Engineer

- Right of way
 - Width: 100 ft.
 - Easements: Temporary , Permanent , Utility , Other .
 - Type of access control: Full , Partial , By Permit , Other .
 - Number of parcels: 2 Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0

- Structures:
 - Bridges – New bridge over Barnes Creek, approximately 90' in length and 38' clear width *for ADT=2000*
 - Retaining walls: N/A

ML
2/22/03

- Traffic control during construction: Road to be closed during construction

- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ROADWAY WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOULDER WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL GRADES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CROSS SLOPES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
STOPPING SIGHT DISTANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUPERELEVATION RATES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HORIZONTAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPEED DESIGN:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE STRUCTURAL CAPACITY:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Design Variances – None expected
- Environmental concerns: Wetlands
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes , No .
 - Categorical exclusion, *anticipated* .
 - Environmental Assessment/Finding of No Significant Impact (FONSI) , or
 - Environmental Impact Statement (EIS) .
- Utility involvements: power lines, water main

Project responsibilities:

- Design, GDOT.
- Right of Way Acquisition, Harris County, Signed 10/16/01
- Relocation of Utilities, Harris County, Signed 10/16/01
- Letting to contract, GDOT.
- Supervision of construction, GDOT.
- Providing material pits, contractor.
- Providing Detour, Harris County.