

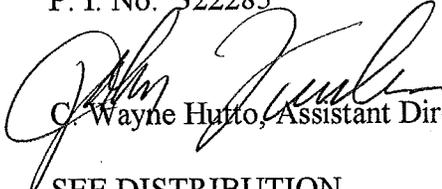
ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRF-153-1(24) Macon County **OFFICE** Preconstruction
P. I. No. 322285
DATE February 25, 2002

FROM  C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

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

Frank L. Danchetz
Page 2

BRF-153-1(24) Macon
February 12, 2002

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

CWH:JDQ/cj

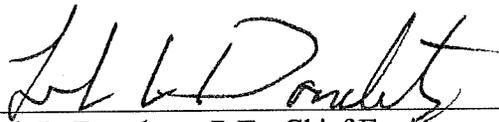
Attachment

CONCUR



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

APPROVE



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

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRF-153-1(24) Macon
P.I. Number 322285-

OFFICE: Engineering Services

DATE: February 6, 2002

FROM: *DM*
David Mulling, Project Review Engineer

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT

We have reviewed the concept report submitted January 28, 2002 by the letter from Glenn W. Durrence dated January 25, 2002, and have no comment:

The costs for the project are:

Construction	\$1,749,000
Inflation	\$ 88,000
E&C	\$ 184,000
Reimbursable Utilities	\$ 0
Right of Way	\$ 37,000 38,000 - <i>JAAP</i>

DTM

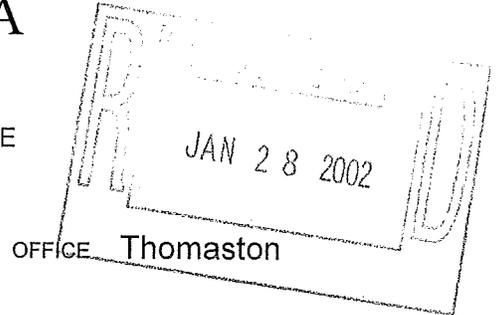
c: Glenn Durrence – Attention: Bill Rountree

SCORING RESULTS AS PER MOG 2440-2

Project Number: BRF-153-1(24)		County: MACON		PI No.: 322285-	
Report Date: 1/25/02		Concept By: DOT Office: DISTRICT 3			
<input checked="" type="checkbox"/> CONCEPT		Consultant: URS			
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			
Presentation	100%				
Judgement	100%				
Environmental	100%				
Right of Way	100%				
Utility	100%				
Constructability	100%				
Schedule	100%				

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



*ML
SOWA
FOR
DIP
RWJ*

FILE

BRF-153-1 (24) Macon County
P.I.No. 322285
SR90 @ CSX RR

OFFICE Thomaston

DATE January 25, 2002

FROM

Glenn W. Durrence, P.E., District Engineer

TO

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

SUBJECT

PROJECT CONCEPT REPORT / CONSTRUCTION COST ESTIMATE

Attached is the Project Concept Report / Construction Cost Estimate on the above project for your review and further handling.

If additional information is needed, contact Bill Rountree, P.E., District Design Engineer, at (706) 646-6604.

WJR

Cc: David Mulling
Debra Benton
Harvey Keeper
Tommy Cleveland
David Millen
Lem Dobbs
Ethel White
Keith Rohling
Phillip Allen
Martha Rosen
Herman Griffin

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF DISTRICT THREE DESIGN**

PROJECT CONCEPT REPORT

**BRF-153-1(24)
322285**

**MACON COUNTY
FEDERAL ROUTE NO: N/A
STATE ROUTE NO: 90**

PREPARED BY:

URS Corporation

Consultant

DATE

1/24/02



Project Manager

DATE

District Engineer / Thomaston

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

DATE

State Transportation Planning Administrator

DATE

Office Of Financial Management Administrator

DATE

State Environmental / Location Engineer

DATE

Project Review Engineer

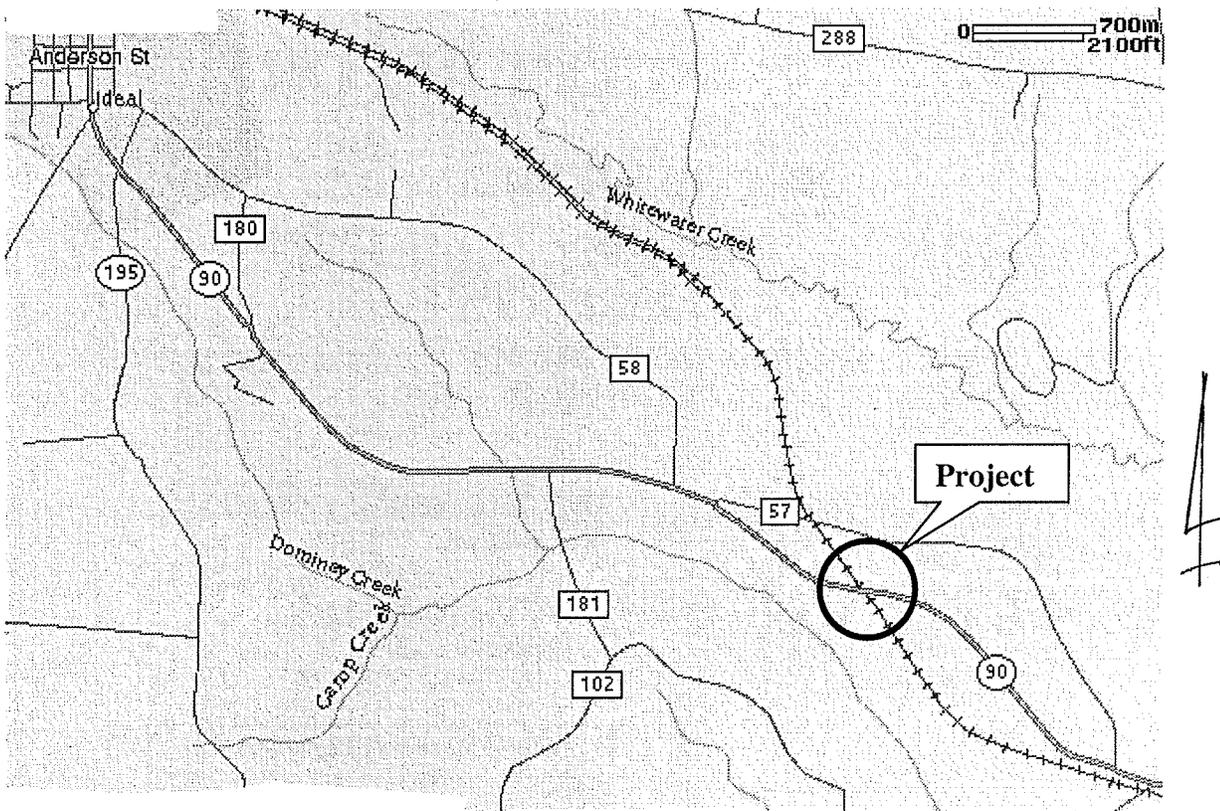
DATE

State Traffic Safety and Design Engineer

DATE

State Bridge & Structural Design Engineer

PROJECT LOCATION MAP



Need and Purpose: The purpose of this project is to replace the narrow and structurally deficient bridge located on State Route 90 over the CSX Railroad. Currently, the existing bridge has a sufficiency rating of 37.1. Any structure with a rating less than 50 may be eligible for federal bridge replacement funding.

State Route 90 is functionally classified as a rural minor arterial. Currently, SR90 consists of two 12 foot paved lanes with a 4-6 foot grassed shoulder. The posted speed limit is 55 mph and has a 100-foot right of way width. The bridge has timber piling with a concrete deck over the rail line. The proposed roadway will have two 12 foot paved lanes with a 2-foot paved shoulder and an 8-foot graded shoulder on each side. The proposed right of way varies from 100 to 220 feet. The Average Daily Traffic (ADT) along this section of roadway was 1,400 in 1998 with 16 percent trucks. Base year (2005) traffic is projected at 1,700 ADT and 2025 traffic is projected at 3,000 ADT. There were only two accidents reported within the project limits for the years 1995 through 1998, with no injuries or fatalities. Replacing this bridge will bring it up to current design standards and in doing so will improve the operation and safety of this roadway.

Description of the proposed project: The proposed project is a 0.90 mile bridge replacement on State Route 90 over the CSX Railroad about 8 miles southeast of the City of Ideal. This project requires offsetting State Route 90 to the southwest of its current position, and constructing a new bridge over the rail line.

During construction traffic will be maintained on the existing State Route 90. Upon completion of the new bridge, traffic will be moved to the new bridge and the existing bridge will be removed.

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 Minor Arterial*

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

State Route Number(s): *90*

Traffic (AADT): Current Year: (2005) 1,700 Design Year: (2025) 3,000

K = 9%

D = 55%

T = 6%

24 HR T = 9%

Existing design features:

- Typical Section: A 2 lane rural roadway with 24 ft. pavement width and 4 to 6 ft. grassed shoulders
- Posted speed 55mph Maximum degree of curvature: 3.00
- Maximum grade: 6% (SR 90)
- Width of right of way: 100ft
- Major structures: 203 ft. length, 24.5 ft. width Timber Piling with a concrete deck bridge over the CSX Railroad. This bridge has a sufficiency rating of 37.1
- Major interchanges or intersections along the project: None
- Existing length is 0.8 miles. Beginning mile log is 13.9.

Proposed Design Features:

- Proposed typical section(s): 24 ft. pavement width with 2 ft. of paved shoulders and 8 ft. of graded shoulders
- Proposed Design Speed Mainline 55 mph
- Proposed Maximum grade Mainline 4.5 % Maximum grade allowable 4.5%.
- Proposed Maximum grade Side Street N/A Maximum grade allowable N/A.
- Proposed Maximum grade driveway 10%
- Proposed Maximum degree of curve 3.00. Maximum degree allowable 6.00.

- Right of way
 - Width: Varies from 100 ft. to 220 ft.
 - Easements: Temporary , Permanent , Utility , Other .
 - Type of access control: Full , Partial , By Permit , Other .
 - Number of parcels: 4 (1 land owner) Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0

- Structures:
 - Bridges: New bridge 219' long by 40' wide over CSX Railroad.
 - Retaining walls: None

- Major intersections and interchanges.: none
- Traffic control during construction: Traffic will be maintained on the existing road while the new location roadway and bridge are constructed.

- 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*
- Environmental concerns: *None*
- Level of environmental analysis: **ANTICIPATED**:
 - Are Time Savings Procedures appropriate? Yes , No ,
 - Categorical exclusion ,
 - Environmental Assessment/Finding of No Significant Impact (FONSI) , or
 - Environmental Impact Statement (EIS) .
- Utility involvement: *AllTel (No conflicts anticipated)*
Flint EMC (No conflicts anticipated)

Project responsibilities:

- Design, *GDOT*
- Right of Way Acquisition, *GDOT*
- Relocation of Utilities, *GDOT*
- Letting to contract, *GDOT*
- Supervision of construction, *GDOT*
- Providing material pits, *Contractor*
- Providing detours. *None required*

Coordination

- Initial Concept Meeting date and brief summary. *See attached summary.*
- Concept meeting date and brief summary. *See attached summary (September 10, 2001)*
- P. A. R. meetings, dates and results. *Not required*
- FEMA, USCG, and/or TVA. *Not required*
- Public involvement. *Not required*
- Local government comments. *LGPA for utilities refused 1-22-97, Macon Co.*
- Other projects in the area. *None*
- Other coordination to date. *None*
- Railroads. *Grade separated crossing of single track belonging to CSX Transportation. There are no known future changes in the use of this track.*

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 6 Months.
- Time to complete preliminary construction plans: 6 Months.
- Time to complete right of way plans: 2 Months.
- Time to complete the Section 404 Permit: 2 Months.
- Time to complete final construction plans: 4 Months.
- Time to complete purchase of right of way: 6 Months.

Other alternates considered:

1. No Build

2. An alternate alignment on new location to the north was considered but was rejected due to utility conflicts and increased earthwork required.

3. Reconstructing the bridge in place, while upgrading County Road 57 and using it as a temporary detour.

Comments:

Alternative 3 was studied in detail using final construction plans previously prepared by the Department in 1995. Quantities from those plans were used to estimate the total cost of \$3,023,000. This alternative was discounted since the cost exceeds the cost of the preferred alternative by almost \$1,000,000.

Attachments:

1. Cost Estimates:
 - a. Construction including E&C,
 - b. Right of Way, and
 - c. Utilities (none expected)
2. Cost Estimate for Alternative 3,
3. Typical sections,
4. Bridge inventory,
5. Minutes of Concept meetings,
6. Location and Design Notice,
7. Concept Report Rating Form

PROJECT NO. BRF-153-1(24)

PREPARED BY: Nick Castronova

PROJECT LENGTH: 0.90 miles

ESTIMATED LETTING DATE: October 2002

PROGRAMMING PROCESS CONCEPT DEVELOPMENT DURING PROJECT DEV.

PROJECT COST	
A. RIGHT-TO-WAY:	
1. PROPERTY (LAND & EASEMENT 8 ac @ \$3,200)	\$ 25,600.00
2. DISPLACEMENTS: RES: 0, BUS: 0, M.H.: 0	\$ 0.00
3. OTHER COST (ADM./COST, INFLATION) (45%)	\$ 11,520.00
SUBTOTAL:A	\$ 37,120.00
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 (219' X 40") @ \$70/sf	\$ 600,000.00
a. OVERPASSES	\$ 0.00
b. OTHER	\$ 0.00
SUBTOTAL:C-1	\$ 600,000.00
2. GRADING AND DRAINAGE:	
a. EARTHWORK (310,000 cy @ \$2.50/cy)	\$ 775,000.00
 b. DRAINAGE:	
1) Cross Drain Pipe (LUMP)	\$ 15,000.00
2) Curb and Gutter (0 ft @ \$10.00/ft)	\$ 0.00
3) Longitudinal System(include catch basins)	\$ 0.00
SUBTOTAL:C-2	\$ 790,000.00

PROJECT COST		
3. BASE AND PAVING:		
a. AGGREGATE BASE (5,000 Ton @ \$15.00/ Ton)		\$ 75,000.00
b. ASPHALT PAVING:		
Surface (850 Ton @ \$35.00/ Ton)	\$ 29,750.00	
Binder (1,000 Ton @ \$35.00/ Ton)	\$ 35,000.00	
Base (1,500 Ton @ \$35.00/ Ton)	\$ 52,500.00	
SUBTOTAL:C-3.b		\$ 117,250.00
c. CONCRETE PAVING		
d. OTHER (Bituminous Tack: 3,000 Gal @ \$0.25/ Gal)		\$ 750.00
SUBTOTAL:C-3		\$ 193,000.00
4. LUMP ITEMS:		
a. GRASSING (5 ac @ \$1,600/ ac)		\$ 8,000.00
b. CLEARING AND GRUBBING (7 ac @ \$4,000/ ac)		\$ 28,000.00
c. LANDSCAPING		
d. EROSION CONTROL (LUMP)		\$ 24,000.00
e. TRAFFIC CONTROL		\$ 30,000.00
SUBTOTAL:C-4		\$ 90,000.00
5. MISCELLANEOUS:		
a. LIGHTING ()		\$ 0.00
b. SIGNING - MARKING (20 ft ² signing material @ \$21.00/ ft ²)		\$ 420.00
c. GUARDRAIL - (2,500 ft @ \$10.00/ ft)		\$ 25,000.00
d. SIDEWALK (0 yd ² @ \$20.00/ yd ²)		\$ 0.00
SUBTOTAL:C-5		\$ 25,420.00
6. SPECIAL FEATURES: Removal of Existing Bridge		
SUBTOTAL:C-6		\$ 50,490.00

ESTIMATE SUMMARY	
A. RIGHT-OF-WAY ()	\$ 37,120.00
B. REIMBURSABLE UTILITIES	\$ 0.00
C. CONSTRUCTION	
1. MAJOR STRUCTURES	\$ 600,000.00
2. GRADING AND DRAINAGE	\$ 790,000.00
3. BASE AND PAVING	\$ 193,000.00
4. LUMP ITEMS	\$ 90,000.00
5. MISCELLANEOUS	\$ 25,420.00
6. SPECIAL FEATURES	\$ 50,490.00
SUBTOTAL CONSTRUCTION COST	\$ 1,748,910.00
E. & C. (10%)	\$ 174,891.00
INFLATION (5% PER YEAR)	\$ 87,445.50
NUMBER OF YEARS	1
TOTAL CONSTRUCTION COST	\$ 2,011,246.50
GRAND TOTAL PROJECT COST	\$ 2,048,366.50

This project is 100 percent in congressional district 3.

DETAILED ESTIMATE OF SITE #1

ITEM NO.	DESCRIPTION	UNITS	QUANTITY	WTD AVG	COST
	ROADWAY				
150-1000	TRAFFIC CONTROL - BRF-153-1(14)	LUMP	LUMP	LUMP	\$30,000.00
153-1200	FIELD ENGINEERINGS OFFICE TP 2	EA	1	42013.34	\$42,013.34
201-0100	GRADING COMPLETE - BRF-153-1(14)	LUMP	LUMP		\$456,097.00
207-0203	FOUND BK FILL MATL. TP 11	CY	15	32.51	\$487.65
310-1101	GR. AGGR. BASE CRS, INCL MATL	TN	4258	13.69	\$58,292.02
318-3000	AGGR SURF CRS	TN	100	13.88	\$1,388.00
402-3113	RECYCLED ASPH CONC 12.5MM	TN	658	38.32	\$25,214.56
402-3190	SUPERPAVE, INCL BITUM MATL & H LINE RECYCLED ASPH CONC 19MM SUPERPAVE, 1 OR 2, INCL BITUM MATL & H LINE	TN	873	35.77	\$31,227.21
413-1000	BITUM TACK COAT	GL	279	0.95	\$265.05
433-1200	REINF CONC APPROACH SLAB INCL SLOPED EDGE	SY	284	92.78	\$26,349.52
500-0100	GROOVED CONCRETE	SY	270	4.44	\$1,198.80
500-3200	CLASS B CONCRETE	CY	1	433.78	\$433.78
500-3800	CLASS A CONCRETE, INCL REINF STEEL	CY	54	767.47	\$41,443.38
511-1000	BAR REINF STEEL	LB	3414	0.5	\$1,707.00
550-2240	SIDE DRAIN PIPE, 24 IN H 1-10	LF	64	26.58	\$1,701.12
550-4124	FLARED END SECTION 24 IN SIDE DRAIN	EA	2	399.72	\$799.44
634-1200	RIGHT OF WAY MARKER	EA	18	74.06	\$1,333.08
641-1100	GUARDRAIL, TP T	LF	84	57.86	\$4,860.24
641-1200	GUARDRAIL, TP W	LF	2538	9.95	\$25,253.10
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	6	503.84	\$3,023.04
641-5012	GUARDRAIL ANCHORAGE TP 12	EA	6	1271.87	\$7,631.22
	EROSION CONTROL				
160-1200	AREA RECLAMATION, PINE SEEDLINGS	AC	4.95	200	\$990.00
441-0301	CONC SPILLWAY, TP 1	EA	4	1393.33	\$5,573.32
576-1015	SLOPE DRAIN PIPE, 15 IN.	LF	132	20.74	\$2,737.68
700-5000	GRASSING (COMPLETE) - BRF-153-1(14)	LUMP	LUMP		
700-6100	ADDL GRASSING	LB	100	7.05	\$705.00
700-7000	AGRICULTURAL LIME	TN	50	59.48	\$2,974.00
700-8000	FERTILIZER MIXED GRADE	TN	11	246.76	\$2,714.36
700-8100	FERTILIZER NITROGEN CONTENT	LB	576	2.05	\$1,180.80
161-1000	EROSION CONTROL - BRF-153-1(14)	LUMP	LUMP		\$24,000.00
163-1011	CONSTR. MAINT & REM SILT CON GATE, TP 1	EA	2	510	\$1,020.00
163-1022	CONSTR. MAINT & REM TEMP PIPE SLOPE DRAIN	LF	800	15	\$12,000.00
163-2051	CONSTR & MAINT BALED STRAW EROSION CHECK	LF	805	1.92	\$1,545.60
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	2769	2.22	\$6,147.18
171-0020	TEMPORARY SILT FENCE, TYPE B	LF	183	2.42	\$442.86
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	732	4.2	\$3,074.40
715-2200	BITUMINOUS TREATED ROVING, WATERWAYS	SY	1033	2.53	\$2,613.49
	TRAFFIC SIGNS				
636-1014	HIGHWAY SIGNS, TP 1 MATL - REFL SHEETING, TP1, LEVEL A	SF	17	12.05	\$204.85
636-2020	GALV STEEL POSTS, TP 2	LF	30	3.33	\$99.90
636-5010	DELINEATORS, TP 1	EA	8	51.66	\$413.28
652-5451	SOLID TRAFFIC STRIPE, 5 IN, WHITE	LF	6000	0.14	\$840.00

652-5452	SOLID TRAFFIC STRIPE, 5 IN, YELLOW BRIDGE NO. 1	LF	6000	0.14	\$840.00
211-0200	BRIDGE EXCAVATION, GRADE SEPARATION	CY	340	19.54	\$6,643.60
441-0004	CONC SLOPE PAV, 4 IN	SY	350	28.7	\$10,045.00
500-0100	GROOVED CONCRETE	SY	925	4.44	\$4,107.00
500-1006	SUPERSTR CONCRETE, CL AA, BR NO-1	LS	300	601.13	\$180,339.00
500-2100	CONCRETE BARRIER	LF	421	38.78	\$16,326.38
500-3101	CLASS A CONCRETE	CY	207	299.89	\$62,077.23
507-9003	PSC BEAMS, AASHTO TYPE 111	LF	1278	114.69	\$146,573.82
511-1000	BAR REINF STEEL	LF	31274	0.5	\$15,637.00
511-3000	SUPERSTR REINF STEEL, BR NO - 1	LB	73016	0.54	\$39,428.64
520-2216	PILING, PSC, 16 IN SQ	LF	470	35.97	\$16,905.90
520-3216	TEST PILE, PSC, 16 IN SQ	EA	1	7000	\$7,000.00
520-4216	LOAD TEST, PSC, 16 IN SQ	EA	1	1	\$1.00
540-1102	REMOVAL OF EXISTING BRIDGE BR NO - 1	LUMP	LUMP	LUMP	\$50,490.00

\$1,386,409.84

Total = \$1,241,933.44 + 1,386,409.84 =
 2,628,343.28

E.&C. plus Inflation:
 \$394,251.50

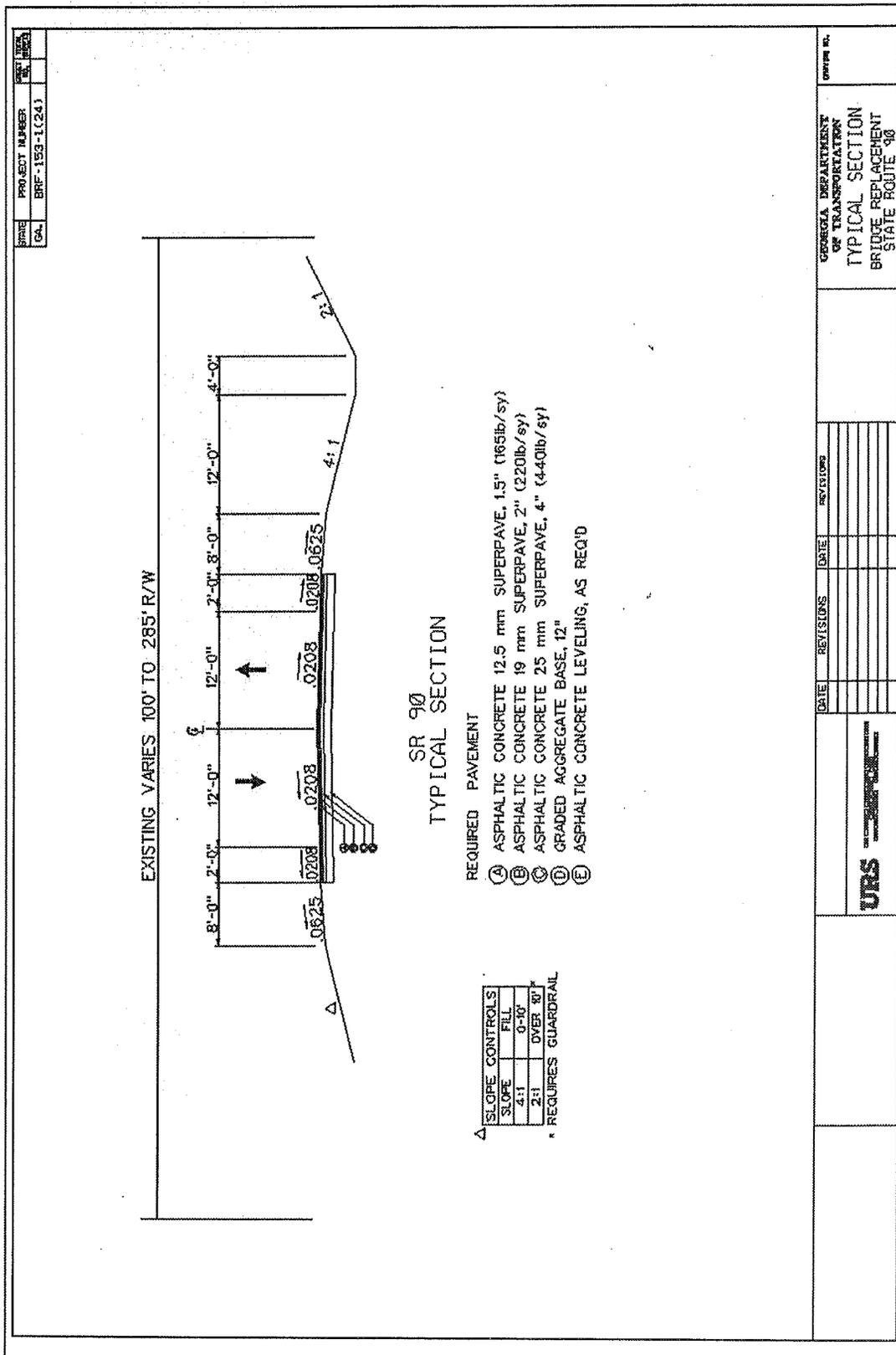
TOTAL COSTS:
 \$3,022,594.56

DETAILED ESTIMATE OF SITE #1 DETOUR

ITEM NO.	DESCRIPTION	UNITS	QUANTITY	WTD AVG	COST
150-1000	ROADWAY TRAFFIC CONTROL - BRF-153-1(14)	LUMP	LUMP	LUMP	\$30,000
201-0100	GRADING COMPLETE - BRF-153-1(14)	LUMP	LUMP	LUMP	\$365,167
310-1101	GR AGGR BASE CRS. INCL MATL	TN	8881	13.69	\$ 121,580.89
318-3000	AGGR SURF CRS	TN	800	13.88	\$ 11,104.00
402-3113	RECYCLED ASPH CONC.12.5MM SUPERPAVE BLEND 1 INCL BITUM MATL	TN	2179	38.32	\$ 83,499.28
402-3190	RECYCLED ASPH CONC19MM SUPERPAVE. GP 1 OR 2 INCL. BITUM MATL	TN	2876	35.77	\$ 102,874.52
413-1000	BITUM TACK COAT	GL	915	0.95	\$ 869.25
441-0014	DRIVEWAY CONCRETE 4 IN. TK	SY	64	24.57	\$ 1,572.48
500-3800	CLASS A CONCRETE INCL. REINF STEEL	CY	15	767.47	\$ 11,512.05
550-1240	STORM DRAIN PIPE, 24 IN. H 1-10	LF	132	34.35	\$ 4,534.20
550-1300	STORM DRAIN PIPE, 30 IN. H 1-10	LF	83	46.94	\$ 3,896.02
550-1360	STORM DRAIN PIPE, 36 IN. H 1-10	LF	84	50.72	\$ 4,260.48
550-1420	STORM DRAIN PIPE, 42 IN. H 1-10	LF	105	58.34	\$ 6,125.70
550-1480	STORM DRAIN PIPE, 48 IN. H 1-10	LF	45	76.43	\$ 3,439.35
550-2240	SIDE DRAIN PIPE, 24 IN. H 1-10	LF	558	26.58	\$ 14,831.64
550-3424	SAFETY END SECTION 24 IN. SIDE DRAIN. 4:1 SLOPE	EA	11	525.66	\$ 5,782.26
550-3624	SAFETY END SECTION 24 IN. SIDE DRAIN. 6:1 SLOPE	EA	11	796.63	\$ 8,762.93
550-4224	FLARED END SECTION 24 IN. STORM DRAIN	EA	4	422.15	\$ 1,688.60
550-4230	FLARED END SECTION 30 IN. STORM DRAIN	EA	2	572.1	\$ 1,144.20
550-4236	FLARED END SECTION 36 IN. STORM	EA	2	708.9	\$ 1,417.80

	DRAIN					
550-4242	FLARD END SECTION 42 IN STORM DRAIN	EA	3	820.88	\$	2,462.64
634-1200	RIGHT OF WAY MARKER	EA	67	74.06	\$	4,962.02
	EROSION CONTROL					
700-5000	GRASSING (COMPLETE) - BRF-153-1(14)	LUMP	LUMP	LUMP		\$150,000
700-6100	ADDL GRASSING	LB	50	7.05	\$	352.50
700-7000	AGRICULTURAL LIME	TN	26	59.48	\$	1,546.48
700-8000	FERTILIZER MIXED GRADE	TN	9	246.76	\$	2,220.84
700-8100	FERTILIZER NITRIGEN CONTENT	LB	414	205	\$	84,870.00
710-9000	PERMANENT SOIL REINFORCING MAT	SY	1376	5.85	\$	8,049.60
	TEMPORARY EROSION CONTROL					
161-1000	EROSION CONTROL - BRF-153-1(14)	LUMP	LUMP	LUMP		\$50,000
163-1013	CONSTR. MAINT & REM SILT CON GATE, TP 3	EA	6	551.54	\$	3,309.24
163-1022	CONSTR. MAINT & REM TEMP PIPE SLOPE DRAIN	LF	200	15	\$	3,000.00
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	10248	2.22	\$	22,750.56
171-0020	TEMPORARY SILT FENCE, TYPE B	LF	2620	2.42	\$	6,340.40
715-2200	BITUMINOUS TREATED ROVING, WATERWAYS	SY	5988	2.53	\$	15,149.64
	TRAFFIC SIGNS					
636-1014	HIGHWAY SIGNS, TP 1 MATL - REFL SHETTING, TP 1. LEVEL A	SF	123	12.05	\$	1,482.15
636-2020	GALV STEEL POSTS, TP2	LF	82	3.33	\$	273.06
636-2030	GALV STEEL POSTS. TP 3	LF	196	4.83	\$	946.68
636-5010	DELINEATORS, TP 1	EA	3	51.66	\$	154.98
						\$1,141,933.44

Total = \$1,141,933.44 + \$100,000 (Bells, lights,
whistles, arm) = \$1,241,933.44



Project Concept Report Page
 Project Number: BRF-153-1(24)
 P.I. Number: 322285
 County: Macon

01/23/02

DATE: 14-SEP-93 BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION COUNTY: MACON SUFF. RATING: 39.4

SECTION 1 - Location & Geography
 Screen 1
 * 200 Structure I.D. No.: 193-0019-0
 Bridge Information: 06
 * 6A Feature Int.: CSX RAILROAD
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: SR00090
 * 7B Facility Carried: SR 90
 * 9 Location: 3 MI S OF JCT SR 195
 * 2 DOT District: 3
 * 207 Year Photo: 93

* 91 Inspection Frequency: 24 Date: 02/93
 Fract Crit Insp Freq: 0 00 Date: 00/00
 92A Underwater Insp Freq: 0 00 Date: 00/00
 92C Other Spc. Insp Freq: 0 00 Date: 00/00
 * 4 Place Code: 00000
 * 5 Inventory Route (O/U): 1
 Type: 3
 Designator: 1
 Number: 00090
 Direction: 0

* 16 Latitude: 32-20.8
 * 17 Longitude: 084-08.5
 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: 014.05 -
 *208 Inspection Area: 08 Initials: LEM
 *Location I.D. No: 193-00090D-01460N
 *XReferen I.D. No: 000-000000-000000

SECTION 1 - CONTINUED
 *104 Highway System: 2
 * 26 Functional Classification: 06
 *204 Federal Route Type: F No: 153-1
 *110 Truck Route: 0
 * 206 School Bus Route: 1
 * 217 Benchmark Elevation: 0000.00
 * 218 Datum: 0
 Screen 2
 * 19 Bypass Length: 03
 * 20 Toll: 3
 * 21 Maintenance: 01
 * 22 Owner: 01
 * 31 Design Load: 5
 * 37 Historical Significance: 02
 * 205 Congressional District: 1937
 * 27 Year Constructed: 0000
 * 106 Year Reconstructed: 0
 * 33 Bridge Median: 00
 * 34 Skew: 00
 * 35 Structure Flared: N
 * 38 Navigation Control: 0
 * 213 Special Steel Design: 1
 * 267 Type of Paint: 1
 * 42 Type Service On: 1 Under: 2

214 Movable Bridge: 00
 203 Type Bridge: Z-I-M-0
 259 Pile Encasement: 3
 * 43 Structure Type Main: 02
 45 No. Spans Main: 004
 44 Structure Type Appr: 402
 46 No. Spans Appr: 0004
 226 Bridge Curve Horiz: 0 Vert: 1
 111 Pier Protection: 0
 107 Deck Structure Type: 1
 108 Wearing Surface Type: 1
 Membrane: 0
 Protection: 0
 *248 County Continuity No: 00

SECTION 2 - Signs & Attachments
 Screen 3
 225 Expansion Joint Type: 02
 242 Deck Drains: 1
 243 Parapet Location: 0
 Height: 00.0
 Width: 00.0
 238 Curb: 1-2 1
 239 Handrail: 1 1
 *240 Median Barrier Rail: 0
 241 Bridge Median Height: 0.0
 Width: 00.0

*230 Guardrail Loc Dir Rear: 3
 Oppo Dir Rear: 0
 Fwd: 0
 Fwd: 0
 244 Approach Slab: 0
 224 Retaining Wall: 0
 233 Posted Speed Limit: 55
 236 Warning Sign: 1
 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

01/23/02

DATE: 14-SEP-93 BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION COUNTY: MACON SUFF. RATING: 39.4

Screen 4 SECTION 3 - Programming Data
 201 Project No.: NRS-520-C
 202 Plans Available: 0
 249 Proposed Proj No: BRF-153-1 (14)
 250 Approval Status: 0000
 251 P.I. No.: 322280
 252 Contract Date: 00/00/94
 260 Ranking No.: 01253
 75 Type Work: 31
 94 Bridge Imp. Cost: \$000517
 95 Roadway Imp. Cost: \$000091
 96 Total Imp. Cost: \$000703
 76 Imp. Length: 000414
 97 Imp. Year: 90
 114 Future ADT: 002070 Year: 12

Screen 5 SECTION 4 - Hydraulic Data
 215 Waterway Data
 Highwater Elev.: 0000.0 Year: 00
 Flood Elev.: 0000.0 Freq: 000
 Avg Streambed Elev.: 0000.0
 Drainage Area: 00000
 Area of Opening: 000000
 Scour Critical: N
 113 Water Depth: 00.0 Br. Height: 00.0
 222 Slope Protection: 0
 221 Spur Dikes Rear: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No. Barrels: 0
 Width: 00.0
 Height: 00.0
 Length: 000
 Apron: 0
 *265 U/W Insp. Area: 0 Diver.: ZZZ
 *Location I.D. No: 193-00090D-01460N
 *Referen I.D. No: 000-000000-000000

Screen 6 SECTION 5 - Measurements
 *29 ADT: 001380 Year: 92
 *109 % Trucks: 16
 *28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 01
 254 FC Classification: 6
 255 FC Rank Factor: 4513
 *48 Max. Span Length: 0035
 *49 Structure Length: 000203
 51 Br. Rdy. Width: 024.0
 52 Deck Width: 025.2
 *47 Tot. Horz. Cl.: 24.0
 50 Curb/Sdewlk Width: 00.0/00.0
 32 Approach Rdy. Width: 024
 *229 Shoulder Width

Rear Lt: 04.0 Type: 8 Rt: 04.0
 Fwd Lt: 04.0 Type: 8 Rt: 04.0
 Pmnt Width
 Rear: 24.0 Type: 2
 Fwd: 24.0 Type: 2
 Intersection Rear: 0 Fwd: 0
 36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 2
 App. Rail End: 2

Screen 7
 53 Minimum Cl. Over: 99 99"
 54 Min. Vert. Cl. Under: R 20 09"
 *228 Act. Odm. Dir.: 99 99"
 Oppo. Dir.: 99 99"
 Posted Odm. Dir.: 00 00"
 Oppo. Dir.: 00 00"
 55 Lateral Undercl. Rt: R 07.4
 56 Lateral Undercl. Lt: 00.0
 *39 Max Min Vert Cl.: 99 99" Dir: 0
 116 Nav Vert Cl: 000 Horz: 0000
 245 Deck Thickness Main: 07.0
 Deck Thick Approach: 07.0
 246 Overlay Thickness: 00.0
 211 Tons Structural Steel: 0024
 212 Year Last Painted: 6700

Screen 8 SECTION 6 - Ratings
 66 Inventory Type: 2 Rating: 22
 64 Operating Type: 2 Rating: 34
 231 Calculated Loads
 H-Modified: 20 0
 HS-Modified: 25 0
 Type 3: 26 0
 Type 3S2: 38 0
 Timber: 36 0
 Piggyback: 40 0
 261 H Inventory Rating: 15
 262 H Operating Rating: 23

67 Structural Evaluation: 4
 58 Deck Condition: 5
 59 Superstructure Condition: 7
 *227 Collision Damage: 0
 60A Substructure Condition: 4
 60B Scour Condition: N
 60C Underwater Condition: N
 71 Waterway Adequacy: N
 61 Channel Protection Cond: N
 68 Deck Geometry: 4
 69 UnderClr. Horz/Vert: 7
 72 Appr. Alignment: 8
 62 Culvert: N

Screen 9 SECTION 7 - Posting Data
 70 Bridge Posting Required: 5
 41 Struct Open, Posted, Cl: D
 *103 Temporary Structure: T
 232 Posted Loads H-Modified: 00
 HS-Modified: 00
 Type 3: 00
 Type 3S2: 00
 Timber: 00
 Piggyback: 00
 253 Notification Date: 00/00/00
 258 Fed Notify Date: 00/00/00 0

MINUTES OF CONCEPT TEAM MEETING

The concept team meeting for Georgia DOT project BRF-153-1(24) Macon County, P.I. No. 322285, was held at 1:00pm on September 10, 2001 in the District Three Signal Shop in Thomaston, Georgia.

The meeting was opened promptly at 1:00pm with Bill Rountree, District Design Engineer, welcoming everyone and introducing the design consultant URS Corporation. Team members present at the meeting included Georgia DOT office representatives John Moretto, Ken Robinson, Audrey Gooch, Robert Reid, Jack Reed, Ray Crutchfield, Debra Benton, Tommy Cleveland, Kerry Gore, Tom Queen, Katie Mullins and Bill Rountree, Macon County government representatives Jimmy Watson and Roselyn Starling, and URS Corporation representatives Kevin Hosey and Nick Castronova.

Nick Castronova described the project concept in detail, including the project history and design parameters. A 50 scale concept layout was used for display purposes and was later left with Bill Rountree for future reference. The following questions were asked during his presentation:

Kerry Gore – Q: Would it be cheaper to go to the other side with the realignment?

Kevin Hosey – A: No, it would be very similar. The only difference is utility relocations.

John Moretto- Q: Do all existing and proposed superelevation rates meet current criteria?

Nick Castronova – A: Yes.

Ray Crutchfield – Q: Do right of way limits take sediment basins into account?

Nick Castronova – A: No, drainage has not been designed.

John Moretto – Q: Is the design speed 55mph?

Nick Castronova – A: Yes.

At this time Kevin Hosey, URS Project Manager, went through the Project Concept Report page by page to get comments on the information therein. Tom Queen added that the environmental work should only need a reevaluation. Katie Mullins asked about the LGPA. She wanted to know if there was a need to send out another one.

Bill Rountree then called on each GDOT office represented for any additional comments:

Traffic Operations – make sure SE rates are acceptable.

Area Engineer - Need to check on whether the culvert to the south of the railroad and bridge is used as a cattle crossing in addition to a live stream crossing.

Maintenance – none.

Right of Way – none.

Environment – none.

Location – Survey available from old project, if conversions are necessary, make sure he does it. Additional survey may be required.

Utilities – none.

Programming – none.

Project Concept Report Page 18
Project Number: BRF-153-1(24)
P.I. Number: 322285
County: Macon

01/23/02

Planning and Programming – need to check CSX railroad and make sure there are no plans for upgrades in the near future.

Consultant Design – none.

With no further comments, Bill Rountree adjourned the meeting at approximately 1:40 pm.

NOTICE OF LOCATION AND DESIGN APPROVAL

BRF-153-1(24) MACON COUNTY P. I. No. 322285

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 and Design Approval: _____

This project is the 0.90-mile bridge replacement of SR 90 over CSX Railroad 8 miles Southeast of Ideal. A new bridge over the railroad will be built to replace the currently deficient one. The project lies entirely within Macon County and within Land District 2 and Land Lots 38,58,59, and 71.

This project will relocate SR 90 slightly to the south of its existing alignment and construct a new bridge over CSX Railroad to replace the existing bridge. Traffic will remain on the existing road while the project is built and will move to the new roadway when it is complete.

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:

Ken Robinson, Area Engineer
Georgia Department of Transportation
200 Julianne Street
Perry, GA 30169
(912) 988-6700
ken.robinson@dot.state.ga.us

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:

William J. Rountree, P.E., District Design Engineer
Georgia Department Of Transportation
715 Andrews Drive
Thomaston, Georgia 30286-4524
(706)646-6604
bill.rountree@dot.state.ga.us

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.

SCORING RESULTS AS PER TOPPS 2440-2

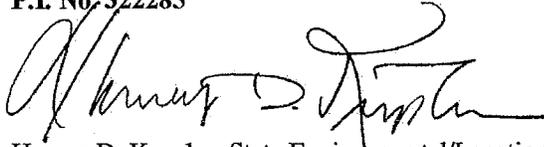
Project Number: BRF-153-1(24)		County: Macon		PI No.: 322285		
Report Date: January 22, 2002		Concept By: URS Corporation				
		DOT Office: District Three Design				
<input checked="" type="checkbox"/> CONCEPT		Consultant: URS Corporation				
Project Type: Choose One From Each Column		<input type="checkbox"/> 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						

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: **P.I. No. 322285**

OFFICE: Environment/Location



DATE: February 4, 2002

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

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

SUBJECT: **PROJECT CONCEPT REPORT**
BRF-153-1(24), MACON COUNTY

The above subject concept report has been reviewed. Page 5 – Should read “Level of Environmental Analysis is anticipated.” RR is probable National Register Resource.

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

HDK/rtt

Attachment

cc: David Mulling
Glenn Durrence, P.E.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF DISTRICT THREE DESIGN

PROJECT CONCEPT REPORT

BRF-153-1(24)

322285

MACON COUNTY

FEDERAL ROUTE NO: N/A

STATE ROUTE NO: 90

PREPARED BY:

URS Corporation

Consultant

DATE

1/24/02



Project Manager

DATE

District Engineer / Thomaston

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

DATE

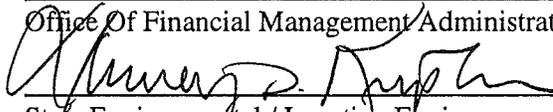
State Transportation Planning Administrator

DATE

Office Of Financial Management Administrator

1/30/02

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 DISTRICT THREE DESIGN**

PROJECT CONCEPT REPORT

BRF-153-1(24)

322285

MACON COUNTY

FEDERAL ROUTE NO: N/A

STATE ROUTE NO: 90

PREPARED BY:

URS Corporation

Consultant

DATE

1/24/02


Project Manager

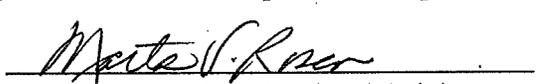
Project Manager

DATE

District Engineer / Thomaston

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

1/31/02
DATE


State Transportation Planning Administrator

DATE

Office Of 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 DISTRICT THREE DESIGN

PROJECT CONCEPT REPORT

**BRF-153-1(24)
322285**

MACON COUNTY

FEDERAL ROUTE NO: N/A

STATE ROUTE NO: 90

PREPARED BY:

URS Corporation

Consultant

DATE

1/24/02


Project Manager

Project Manager

DATE

District Engineer / Thomaston

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

DATE

State Transportation Planning Administrator

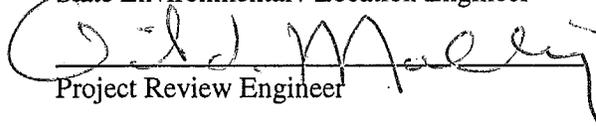
DATE

Office Of Financial Management Administrator

DATE

State Environmental / Location Engineer

2/6/02
DATE


Project Review Engineer

Project Review Engineer

DATE

State Traffic Safety and Design Engineer

DATE

State Bridge & Structural Design Engineer

Department of Transportation State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRF-153-1(24) / Macon County
P.I. No. 322285

Office: Traffic Safety & Design
Atlanta, Georgia
Date: February 4, 2002

From: ^{PMA/ez} Phillip M. Allen, State Traffic Safety and Design Engineer
To: Wayne Hutto, Assistant Director of Preconstruction
Subject: Project Concept Report Review

We have reviewed the above referenced concept report for the proposed bridge replacement along State Route 90 over the CSX Railroad in Macon 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 Keepler, Environment/Location Engineer
Glenn Durrence, 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 DISTRICT THREE DESIGN

PROJECT CONCEPT REPORT

BRF-153-1(24)
322285

MACON COUNTY
FEDERAL ROUTE NO: N/A
STATE ROUTE NO: 90

PREPARED BY:

URS Corporation

Consultant

DATE

1/24/02



Project Manager

DATE

District Engineer / Thomaston

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

DATE

State Transportation Planning Administrator

DATE

Office Of Financial Management Administrator

DATE

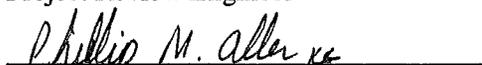
State Environmental / Location Engineer

DATE

Project Review Engineer

2/4/02

DATE


State Traffic Safety and Design Engineer

DATE

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF DISTRICT THREE DESIGN

PROJECT CONCEPT REPORT

BRF-153-1(24)
322285

MACON COUNTY
FEDERAL ROUTE NO: N/A
STATE ROUTE NO: 90

PREPARED BY:

URS Corporation

Consultant

DATE

1/24/02



Project Manager

DATE

District Engineer / Thomaston

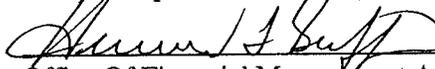
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and the State Transportation Improvement Program (STIP).

DATE

1/25/02

DATE

State Transportation Planning Administrator



Office Of 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