ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-1367(4) Floyd County
P. I. No. 642405

OFFICE Preconstruction

DATE September 10, 2002

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 Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Phillip Allen
Marta Rosen
Paul Liles
Ben Buchan
Kent Sager
BOARD MEMBER

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: BRST-1367(4) Floyd County
P.I. No. 642405

OFFICE Preconstruction

DATE August 29, 2002

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 SR 100 over Coosa River, 0.3 mile south of Jct SR 20. The existing bridge, constructed in 1955, is load limited with a sufficiency rating of 46. State Route 100 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 100 is functionally classified as a rural major collector and is a designated school bus route. Traffic is projected to be 5,500 VPD and 8,000 VPD in the years 2008 and 2028 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 100 west of its present location, extending a total of 1.16 miles. The proposed new bridge will be 560' x 44' and will be located just west of the existing bridge structure. The relocated SR 100 will consist of two, 12' lanes with 10' rural shoulders (2' paved). Traffic will be maintained on the existing bridge while the proposed bridge is constructed.

As proposed, the relocation and approach roadway for this project are not consistent with the limits for bridge replacement projects as outlined in MOG 4118. However, the relocated bridge, in conjunction with relocating and improving the existing alignment, will provide for a safer and more efficient roadway. Therefore, I recommend "STP" funding be authorized to construct the roadway portion of this project beyond the scope of "BR" funding. OK for

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; time saving procedures are appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	BR $2,037,000 STP $ 662,000	$2,107,000	2005	FY-05
Right-of-Way	$ 30,000	$ 10,000		
Utilities*	$ 20,000	-----		

*Floyd County refused LGPA for utilities 8-10-99.

This project is in the STIP. I recommend Alternative "3" be approved for implementation.

MBP:JDQ/cj

Attachment

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

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

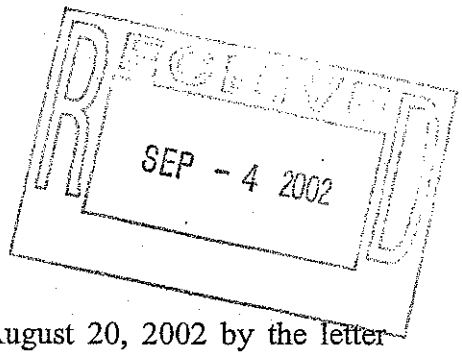
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-1367(4) Floyd
P.I. Number 642405

OFFICE: Engineering Services

DATE: August 30, 2002



FROM: David Mulling, Project Review Engineer DEM

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: **CONCEPT REPORT**

We have reviewed the concept report submitted August 20, 2002 by the letter from Ben Buchan dated August 19, 2002, and have the following comment.

- The projected earthwork quantity should be shown in order to verify the cost estimate.

The costs for the project are:

	Bridge Replacement	**Roadway Realignment**
Construction	$2,243,836	$549,965
Inflation	$229,993	$56,371
E&C	$224,384	$54,996
Reimbursable Utilities	$20,000	$10,000
Right of Way	$30,000	$15,000

NOTE: This project will require split funding. The BR funding is the amount equal to the Bridge Replacement costs. Other costs will have to come from other funding sources.

DTM

c: Ben Buchan, Attn: Ted Cashin

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **BRST-1367(4) Floyd County**
SR 100 @ Coosa River 0.3 mi S of Jct SR 20
P.I. No. 642405-

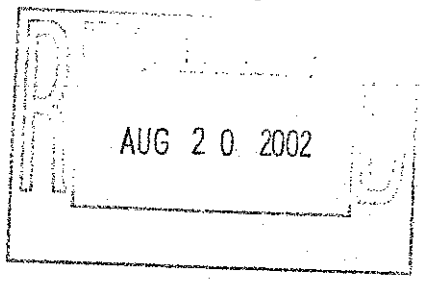
OFFICE Atlanta

James B. Buchan MBA

FROM James B. Buchan, State Consultant Design Engineer

DATE August 19, 2002

TO Meg 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).

Note: At the concept meeting it was decided to extend the roadway work to an adjacent intersection and tie in to a curve on the other end requiring STP split funding in the amount of $661,332.94.

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 Ted Cashin at (404)463-6135 or Mark Holmberg of Heath & Lineback Engineers, Inc. at (770) 424-1668.

Distribution:
David Mulling, Project Review Engineer
Harvey Keepler, 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
Kent Sager, District Engineer – Cartersville
Paul Liles, State Bridge & Structural Engineer

JBB:MBA:EJC

cc: Heath & Lineback Engineers, Inc.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-1367 (4)
County: Floyd
P. I. Number: 642405

Federal Route Number: N/A
State Route Number: 100

DESCRIPTION: SR 100 over Coosa River
Recommendation for approval:

DATE 8-19-02 _____
Project Manager

DATE 8-19-02 _____
State Consultant Design Engineer

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

DATE_____ _____
State Transportation Planning Administrator

DATE_____ _____
State Office of Financial Management Administrator

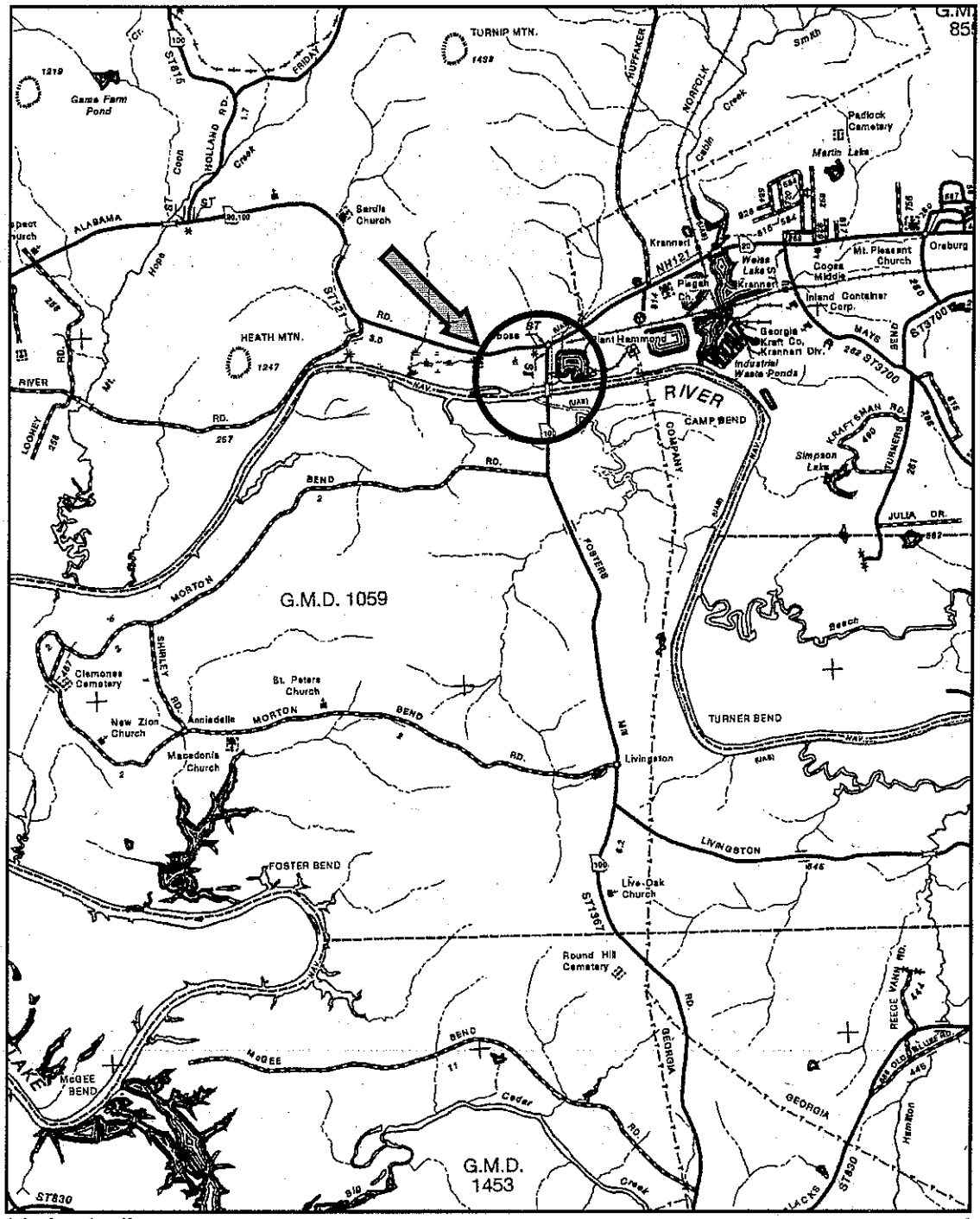
DATE_____ _____
State Environmental/Location Engineer

DATE_____ _____
State Traffic Safety and Design Engineer

DATE_____ _____
District 6 Engineer

DATE_____ _____
State Project Review Engineer

DATE_____ _____
State Bridge and Structural Design Engineer



Scale: 1 inch = 1 mile

Location Map

Project: BRST-1367(4) Floyd County **PI No.:** 642405-
Description: SR 100 @ Coosa River 0.3 mi S of Jct SR 20

Need and Purpose: See attached Need & Purpose Statement.

Description of the proposed project: Project BRST-1367(4) is a bridge replacement project in Floyd County on SR 100 over Coosa River. The total project length is approximately 6100 feet (1.16 miles), beginning at M.P. 12.56 and extending to M.P. 13.72. Approximately 2550 feet (0.48 miles) of the SR 100 realignment is required due to deteriorated existing pavement and is beyond the scope of BRST-1367(4), bridge replacement. Split funding will be required for this additional length. The purpose of this project is to replace a structurally deficient and functionally obsolete bridge on SR 100 over Coosa River and replace deteriorating pavement. The existing bridge sufficiency rating is currently 46.18.

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

PDP Classification: Minor

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

Functional Classification: Rural Major Collector Road

U. S. Route Number(s): None **State Route Number(s):** 100

Traffic (AADT):
Current Year: (2008) 5500 Design Year: (2028) 8000

Existing design features:

- Typical Section: 2-12 ft. travel lanes with variable width grass shoulders.
- Posted speed 55mph Maximum degree of curvature: 3° ±
- Maximum grade: unknown
- Width of right of way: 100 ft
- Major structures: The 553'-6" bridge consists of a 76'-9"-100'-0"- 100'-0"- 100'-0" – 76'-9" composite section continuous unit. The bridge roadway curb to curb clear width is 24 ft and has a sufficiency rating of 46.18.
- Major interchanges or intersections along the project: SR 100 forms a T intersection with SR 20 0.3 miles north of the existing bridge.

Proposed Design Features:

Proposed typical section(s): Two 12'-0" travel lanes with 10'-0" shoulders. Typical section attached.

- Proposed Design Speed Mainline 55 mph
- Proposed Maximum grade Mainline 0.50% Maximum grade allowable 7.0%
- Proposed Maximum grade Side Street N/A Maximum grade allowable 9.0%.
- Proposed Maximum grade driveway 10.0%
- Proposed Maximum degree of curve 0° 30' Maximum degree allowable 6° 00'.
- Right of way
  - Width: 100 ft additional on the west side
  - Easements: Temporary ( ) , Permanent ( ), Utility ( ), Other ( ).
  - Type of access control: Full ( ), Partial ( ), By Permit (**X**), Other ( ).
  - Number of parcels:12 Number of displacements: None
    - Business: 0
    - Residences: 0
    - Mobile homes: 0
    - Other: 0
- Structures:
  - Bridges: The proposed bridge will be 44'-0" wide, consisting of two 12'-0" travel lanes and 10'-0" shoulders. The bridge is expected to be approximately 560'-0" long.
  - Retaining Walls: None.
- Major intersections and interchanges: SR 20 at north end of project
- Traffic control during construction: Traffic shall be maintained on the existing bridge while the proposed bridge is constructed on the downstream (west) side of the existing bridge.
- 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
- Environmental concerns: None

- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes (**X**), No ( ),
  - Categorical exclusion anticipated ( ),
  - Environmental Assessment/Finding of No Significant Impact (FONSI) (X), or
  - Environmental Impact Statement (EIS) ( ).
- Utility involvement: Underground telephone or fiber optic located on east side of road and hanging on existing bridge. Overhead powerline located on west side of road.

Project responsibilities:

- Design, Office of Consultant Design
- Right of Way Acquisition, District 6 Pre-construction (Right of Way Office)
- Relocation of Utilities, District 6 Utility Office
- Letting to contract, General Office (Office of Contract Administration)
- Supervision of construction, District 6 Construction Office
- Providing material pits, District 6 Materials Office
- Providing detours, District 6 Construction

Coordination

- Initial Concept Meeting date and brief summary: Attach minutes: N/A
- Concept meeting date: July 11, 2002
- P. A. R. meetings, dates and results: None required.
- FEMA, USCG, and/or TVA Nationwide 404, FEMA, vs. Coast Guard
- Public involvement: None Anticipated
- Local government comments: Floyd County refused utilities 8/10/99.
- Other projects in the area: Passing lane project on SR 20 west of S.R. 100 (Project Number unknown) under construction as of April, 2002.
- Other coordination to date: None identified

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 11 Months.
- Time to complete preliminary construction plans: 9 Months.
- Time to complete right of way plans: 9 Month.
- Time to complete the Section 404 Permit: 3 Months.
- Time to complete final construction plans: 4 Months.
- Time to complete to purchase right of way: 9 Months.
- List other major items that will affect the project schedule: N/A Months

Alternates considered: (1) Build proposed bridge on same location as the existing alignment with temporary detour to the west (downstream); (2) Build proposed bridge parallel and offset west of the existing bridge, 2950' of relocation. Abandon & demolish existing bridge; (2a) Build proposed bridge parallel and offset west of the existing bridge, 3600' of relocation, realign SR20 intersection. Abandon & demolish existing bridge; (3) Build proposed bridge parallel and offset to the west from existing bridge, 6100' of relocation, realign SR20 intersection. Abandon and demolish existing bridge; (4) Build proposed bridge on same location by closing road and detouring traffic off-site; or (5) No build.

Comments:

Comparison Summary of Concepts 1 - 5

Alternate (3) selected for this concept.

Alternate (1) was eliminated due to required length and cost of the temporary detour bridge. Alternate (2) was eliminated due to undesirable horizontal offset, which adds four horizontal curves to the alignment. Alternate (2a) was eliminated because it created an undesirable horizontal offset, which adds two horizontal curves to the alignment, near the bridge. Alternate (4) was eliminated due to the length of detour. Alternate (5) was eliminated due to long-term maintenance cost of structurally deficient and functionally inadequate bridge.

Attachments:

1. Concept Meeting Minutes
2. Cost Estimate (Construction including E&C)
    a. Alternate 1 - Construction including E&C
    b. Alternate 2 – Construction including E&C
    c. Alternate 2a – Construction including E&C
    d. Alternate 3 Bridge Replacement - Construction including E&C
    e. Alternate 3 Road Realignment - Construction including E&C
3. Typical sections
4. Need and Purpose Statement
5. Traffic Assignments
6. Flexible Pavement Design
7. Bridge Inventory Data Listing
8. Location and Design Notice (On Minor Projects)
9. Concept Plan Layout Sheets
    a. Alternate (2)
    b. Alternate (2a)
    c. Alternate (3)

CONCEPT MEETING MINUTES
July 11, 2002

CONCEPT MEETING FOR BRIDGE REPLACEMENT WORK ORDERS
W.O. #51 – SR 100 over Coosa River 0.3 mi S of Jct SR 20
Project No.: BRST-1367(4), Floyd County
PI No.: 642405

LOCATION: GADOT District 6 Office
Cartersville, GA

Attendees:
Mark Holmberg – Heath & Lineback Engineers
Randy Boykin - Heath & Lineback Engineers
Kim Martin – Heath & Lineback Engineers
Ted Cashin – GDOT Office of Consultant Design
Andy Rickard – GDOT District 6
Harlan Conley – GDOT Location Engineer
Garry Reed – GDOT Assistant Area Engineer
Dewayne Comer – GDOT District 6
Dee Corson – GDOT District 6
Kerry Bonner – GDOT District 6 Utilities
Royce Turner – GDOT District 6 Utilities
Jerry Rowland – Floyd County Water
Glen Brown – GDOT Area Engineer

Mark Holmberg described the project and a brief overview of the concept report. He noted that an additional alternate had been added to the concept report (Alternate 2A). Alternate 2A was similar to Alternate 2 except that the project limits extended to SR 20.

Possible off-site detours were discussed. Discussions about the proposed Rome By-pass revealed that the portion of the by-pass that could be used as an alternate is set for 2006 construction. It was concluded that there are no acceptable off-site detours without the use of county road. The use of an off-site detour was rejected.

The Area Engineer stated that archeological sites might be located along the river.

The Area Engineer noted that large amounts of debris build up was common at the pier located near the center of the Coosa River. Due to this condition, a sandbar has developed around the pier.

It was agreed that the proposed bridge would have a span arrangement that would remove a pier from the center of the river and utilize long spans (140'±) to minimize the number of bents in the river. Existing bents would probably need to be removed in order to satisfy Coast Guard requirements and to minimize debris build up.

The Area Engineer noted that there are signs of pavement and embankment failures on SR 100 south of the bridge. He noted that Alternate 3 is preferred because new pavement would be constructed.

It was noted that Georgia Power owned an ash pond on the NW side of the project.

The Coosa River is not used as a route for transporting goods to Georgia Power because there is currently no lock system on the river.

Floyd County Water stated that they would like to place a 12" water main on the proposed bridge (presently there are no water mains on the bridge).

The meeting concluded with the District 6 personnel suggesting Alternate 3. It was stated that split funding may be required for Alternate 3.

PRELIMINARY COST ESTIMATE

DATE: July 15, 2002 PREPARED BY: Heath & Lineback Engineers, Inc.

PROJECT NO.: BRST-1367 (4)

P.I. NO.: 642405 LENGTH: 6100 ft. (1.16 mi)

PROJECT DESCRIPTION: Bridge replacement of the SR 100 over Coosa River.

PROPOSED CONCEPT: The proposed typical section consists of two 12'-0" travel lanes and 10'-0" rural shoulders. Traffic will be maintained on existing bridge, on-site.

EXISTING ROADWAY: State Route 100

TRAFFIC: Existing: 5550 ADT (2008) Design: 8000 ADT (2028)

( ) PROGRAMMING PROCESS (X) CONCEPT DEVEL. ( ) DURING PROJ DEVEL.

PROJECT COSTS

19-Aug-02 ALTERNATE 3 - BRIDGE REPLACEMENT COST (PERMANENT ALIGNMENT OFFSET)
DETAILED COST ESTIMATE FOR SR 100 OVER COOSA RIVER
PROJECT NO.: BRST-1367(4), FLOYD COUNTY
P.I. NO.: 642405

ITEM NO.	ITEM	UNIT	UNIT COST	QUANT	TOTAL
	ROADWAY				
210-0100	GRADING COMPLETE -	LS	$229,305.56	1	$229,305.56
310-5100	GR AGGR BASE CRS, 10 INCH, INCL MATL	SY	$9.29	9147	$84,972.53
318-3000	AGGR SURF CRS	TN	$19.18	10	$191.80
402-3142	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	TN	$53.63	1574	$84,433.46
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$34.80	2099	$73,050.77
402-3113	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$54.21	695	$37,695.60
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	$35.62	15	$534.30
413-1000	BITUM TACK COAT	GL	$0.89	960	$854.76
433-1000	REINF CONC APPROACH SLAB	SY	$115.12	283	$32,618.10
441-0301	CONC SPILLWAY, TP 1	EA	$1,345.24	4	$5,380.96
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	$31.58	80	$2,526.40
550-4418	FLARED END SECTION, 18 IN, SLOPE DRAIN	EA	$266.66	4	$1,066.64
576-1015	SLOPE DRAIN PIPE, 15 IN	LF	$23.33	80	$1,866.40
577-1100	METAL DRAIN INLET - COMPLETE ASSEMBLY	EA	$956.06	4	$3,824.24
641-1100	GUARDRAIL, TP T	LF	$61.68	83	$5,093.53
641-1200	GUARDRAIL, TP W	LF	$9.87	625	$6,168.75
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	$483.87	2	$967.74
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	$1,331.30	2	$2,662.60
				SUBTOTAL	$573,214.14
	EROSION CONTROL				
000-0000	EROSION CONTROL	LS	$65,000.00	1	$65,000.00
				SUBTOTAL	$65,000.00
	BRIDGE				
540-1102	REMOVAL OF EXISTING BR, BR NO -	LS	$65,000.00	1	$65,000.00
543-1001	CONSTRUCTION OF BRIDGE NO. ($55/SF X 26460 SF)	LS	$1,455,300.00	1	$1,455,300.00
603-2024	STN DUMPED RIP RAP, TP 1, 24 IN	SY	$35.67	650	$23,185.50
				SUBTOTAL	$1,543,485.50
	TRAFFIC SIGN & MARKING				
000-0000	TRAFFIC SIGNING & MARKING	LS	$10,000.00	1	$10,000.00
				SUBTOTAL	$10,000.00
	TRAFFIC CONTROL - PERMANENT OFF-SET				
150-1000	TRAFFIC CONTROL -	LS	$25,000.00	1	$25,000.00
150-5000	TRAFFIC CONTROL, TEMPORARY SAND LOADED ATTENUATOR MODULE	EA	$471.31	20	$9,426.20
622-1033	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	LF	$35.42	500	$17,710.00
				SUBTOTAL	$52,136.20

		CONSTRUCTION COST	**$2,243,835.84**
CONSTRUCTION:	**$2,243,835.84**	**RIGHT OF WAY:**	**$30,000.00**
E & C (10%):	**$224,383.58**	**ACQUIRED BY:**	**DOT**
INFLATION: (2 yrs. @ 5% per yr)	**$229,993.17**	**UTILITIES:**	**$20,000.00**
TOTAL CONST COSTS	**$2,698,212.60**		

PROJECT COSTS

31-Jul-02 ALTERNATE 3 - REALIGNMENT OF SR 100 COST (PERMANENT ALIGNMENT OFFSET)
DETAILED COST ESTIMATE FOR SR 100 OVER COOSA RIVER
FLOYD COUNTY
FOR SPLIT FUNDING

ITEM NO.	ITEM	UNIT	UNIT COST	QUANT	TOTAL
	ROADWAY				
210-0100	GRADING COMPLETE -	LS	$229,305.56	1	$229,305.56
310-5100	GR AGGR BASE CRS, 10 INCH, INCL MATL	SY	$9.29	7404	$68,787.29
318-3000	AGGR SURF CRS	TN	$19.18	10	$191.80
402-3142	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	TN	$53.63	1274	$68,350.90
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$34.80	1699	$59,136.34
402-3113	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$54.21	570	$30,922.06
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	$35.62	35	$1,246.70
413-1000	BITUM TACK COAT	GL	$0.89	777	$691.95
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	$31.58	40	$1,263.20
550-4418	FLARED END SECTION, 18 IN, SLOPE DRAIN	EA	$266.66	4	$1,066.64
576-1015	SLOPE DRAIN PIPE, 15 IN	LF	$23.33	80	$1,866.40
				SUBTOTAL	$462,828.83
	EROSION CONTROL				
000-0000	EROSION CONTROL	LS	$35,000.00	1	$35,000.00
				SUBTOTAL	$35,000.00
	TRAFFIC SIGN & MARKING				
000-0000	TRAFFIC SIGNING & MARKING	LS	$10,000.00	1	$10,000.00
				SUBTOTAL	$10,000.00
	TRAFFIC CONTROL - PERMANENT OFF-SET				
150-1000	TRAFFIC CONTROL -	LS	$15,000.00	1	$15,000.00
150-5000	TRAFFIC CONTROL, TEMPORARY SAND LOADED ATTENUATOR MODULE	EA	$471.31	20	$9,426.20
622-1033	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	LF	$35.42	500	$17,710.00
				SUBTOTAL	$42,136.20
				CONSTRUCTION COST	**$549,965.03**

CONSTRUCTION:	**$549,965.03**	**RIGHT OF WAY:**	**$15,000.00**
E & C (10%):	**$54,996.50**	**ACQUIRED BY:**	**DOT**
INFLATION: (2 yrs. @ 5% per yr)	**$56,371.42**	**UTILITIES:**	**$10,000.00**
TOTAL CONS'T COSTS	**$661,332.94**		

PROJECT COSTS

19-Aug-02 ALTERNATE 1 - BRIDGE REPLACEMENT COST (TEMPORARY DETOUR BRIDGE)
DETAILED COST ESTIMATE FOR SR 100 OVER COOSA RIVER
PROJECT NO.: BRST-1367(4), FLOYD COUNTY
P.I. NO.: 642405

ITEM NO.	ITEM	UNIT	UNIT COST	QUANT	TOTAL
	ROADWAY				
210-0100	GRADING COMPLETE -	LS	$26,401.23	1	$26,401.23
310-5100	GR AGGR BASE CRS, 10 INCH, INCL MATL	SY	$9.29	2738	$25,433.96
318-3000	AGGR SURF CRS	TN	$19.18	10	$191.80
402-3142	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	TN	$53.63	471	$25,272.60
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$34.80	628	$21,865.54
402-3113	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$54.21	1499	$81,257.18
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	$35.62	50	$1,781.00
413-1000	BITUM TACK COAT	GL	$0.89	287	$255.85
433-1000	REINF CONC APPROACH SLAB	SY	$115.12	283	$32,618.10
441-0301	CONC SPILLWAY, TP 1	EA	$1,345.24	4	$5,380.96
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	$31.58	80	$2,526.40
550-4418	FLARED END SECTION, 18 IN, SLOPE DRAIN	EA	$266.66	4	$1,066.64
576-1015	SLOPE DRAIN PIPE, 15 IN	LF	$23.33	80	$1,866.40
577-1100	METAL DRAIN INLET - COMPLETE ASSEMBLY	EA	$956.06	4	$3,824.24
641-1100	GUARDRAIL, TP T	LF	$61.68	83	$5,093.53
641-1200	GUARDRAIL, TP W	LF	$9.87	625	$6,168.75
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	$483.87	2	$967.74
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	$1,331.30	2	$2,662.60
				SUBTOTAL	$244,634.51
	EROSION CONTROL				
000-0000	EROSION CONTROL	LS	$95,000.00	1	$95,000.00
				SUBTOTAL	$95,000.00
	BRIDGE				
540-1102	REMOVAL OF EXISTING BR, BR NO. -	LS	$65,000.00	1	$65,000.00
543-1001	CONSTRUCTION OF BRIDGE NO. ($55/SF X 26460 SF)	LS	$1,455,300.00	1	$1,455,300.00
603-2024	STN DUMPED RIP RAP, TP 1, 24 IN	SY	$35.67	650	$23,185.50
				SUBTOTAL	$1,543,485.50
	TRAFFIC SIGN & MARKING				
000-0000	TRAFFIC SIGNING & MARKING	LS	$7,500.00	1	$7,500.00
				SUBTOTAL	$7,500.00
	TRAFFIC CONTROL - ON SITE DETOUR				
150-1000	TRAFFIC CONTROL -	LS	$50,000.00	1	$50,000.00
150-5000	TRAFFIC CONTROL, TEMPORARY SAND LOADED ATTENUATOR MODULE	EA	$471.31	20	$9,426.20
622-1033	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	LF	$35.42	2000	$70,840.00
				SUBTOTAL	$130,266.20
	TEMPORARY DETOUR ROAD & STRUCTURE				
210-0100	GRADING COMPLETE -	LS	$30,462.96	1	$30,462.96
402-3113	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$54.21	216	$11,694.72
402-3142	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	TN	$53.63	288	$15,426.13
310-5060	GR AGGR BASE CRS, 6 INCH, INCL MATL	SY	$5.36	823	$4,413.64
	TEMPORARY DETOUR STRUCTURE		$1,250.00	560	$700,000.00
				SUBTOTAL	$761,997.46
				CONSTRUCTION COST	**$2,782,883.67**

CONSTRUCTION:	**$2,782,883.67**	**RIGHT OF WAY:**	**$20,000.00**
E & C (10%):	**$278,288.37**	**ACQUIRED BY:**	**DOT**
INFLATION: (2 yrs. @ 5% per yr)	**$285,245.58**	**UTILITIES:**	**$15,000.00**
TOTAL CONS'T COSTS	**$3,346,417.62**		

PROJECT COSTS

19-Aug-02 ALTERNATE 2 - BRIDGE REPLACEMENT COST (PERMANENT ALIGNMENT OFFSET)
DETAILED COST ESTIMATE FOR SR 100 OVER COOSA RIVER
PROJECT NO.: BRST-1367(4), FLOYD COUNTY
P.I. NO.: 642405

ITEM NO.	ITEM	UNIT	UNIT COST	QUANT	TOTAL
	ROADWAY				
210-0100	GRADING COMPLETE -	LS	$198,262.04	1	$198,262.04
310-5100	GR AGGR BASE CRS, 10 INCH, INCL MATL	SY	$9.29	7134	$66,272.80
318-3000	AGGR SURF CRS	TN	$19.18	10	$191.80
402-3142	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	TN	$53.63	1228	$65,852.36
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$34.80	1637	$56,974.63
402-3113	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$54.21	568	$30,784.54
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H-LIME	TN	$35.62	50	$1,781.00
413-1000	BITUM TACK COAT	GL	$0.89	749	$666.65
433-1000	REINF CONC APPROACH SLAB	SY	$115.12	283	$32,618.10
441-0301	CONC SPILLWAY, TP 1	EA	$1,345.24	4	$5,380.96
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	$31.58	80	$2,526.40
550-4418	FLARED END SECTION, 18 IN, SLOPE DRAIN	EA	$266.66	4	$1,066.64
576-1015	SLOPE DRAIN PIPE, 15 IN	LF	$23.33	80	$1,866.40
577-1100	METAL DRAIN INLET - COMPLETE ASSEMBLY	EA	$956.06	4	$3,824.24
641-1100	GUARDRAIL, TP T	LF	$61.68	83	$5,093.53
641-1200	GUARDRAIL, TP W	LF	$9.87	625	$6,168.75
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	$483.87	2	$967.74
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	$1,331.30	2	$2,662.60
				SUBTOTAL	$482,961.17
	EROSION CONTROL				
000-0000	EROSION CONTROL	LS	$80,000.00	1	$80,000.00
				SUBTOTAL	$80,000.00
	BRIDGE				
540-1102	REMOVAL OF EXISTING BR, BR NO. -	LS	$65,000.00	1	$65,000.00
543-1001	CONSTRUCTION OF BRIDGE NO. ($55/SF X 24220 SF)	LS	$1,455,300.00	1	$1,455,300.00
603-2024	STN DUMPED RIP RAP, TP 1, 24 IN	SY	$35.67	650	$23,185.50
				SUBTOTAL	$1,543,485.50
	TRAFFIC SIGN & MARKING				
000-0000	TRAFFIC SIGNING & MARKING	LS	$10,000.00	1	$10,000.00
				SUBTOTAL	$10,000.00
	TRAFFIC CONTROL - PERMANENT OFF-SET				
150-1000	TRAFFIC CONTROL -	LS	$30,000.00	1	$30,000.00
150-5000	TRAFFIC CONTROL, TEMPORARY SAND LOADED ATTENUATOR MODULE	EA	$471.31	20	$9,426.20
622-1033	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	LF	$35.42	1000	$35,420.00
				SUBTOTAL	$74,846.20

		CONSTRUCTION COST	**$2,191,292.87**
CONSTRUCTION:	**$2,191,292.87**	**RIGHT OF WAY:**	**$20,000.00**
E & C (10%):	**$219,129.29**	**ACQUIRED BY:**	**DOT**
INFLATION: (2 yrs. @ 5% per yr)	**$224,607.52**	**UTILITIES:**	**$15,000.00**
TOTAL CONS'T COSTS	**$2,635,029.68**		

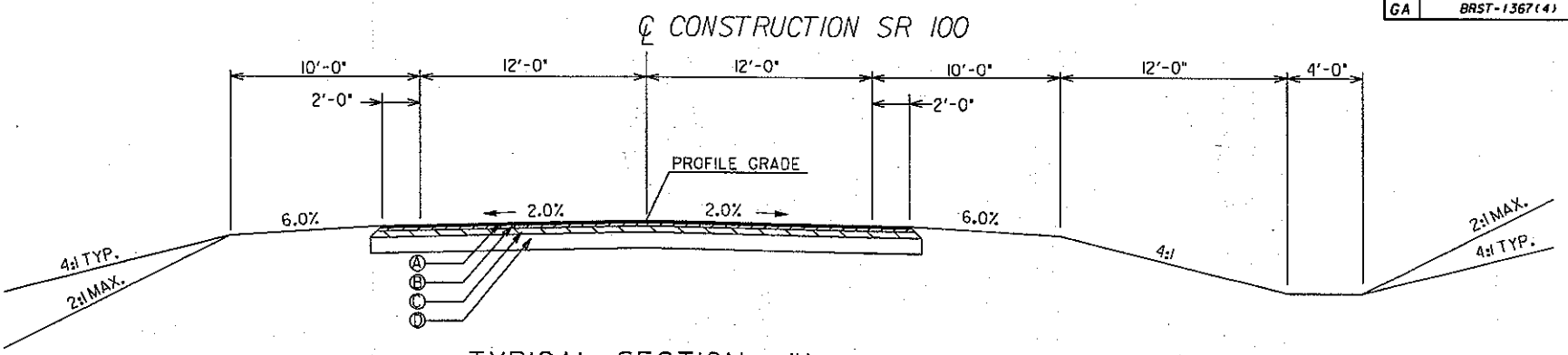
PROJECT COSTS

19-Aug-02 ALTERNATE 2A - BRIDGE REPLACEMENT COST (PERMANENT ALIGNMENT OFFSET)
DETAILED COST ESTIMATE FOR SR 100 OVER COOSA RIVER
PROJECT NO.: BRST-1367(4), FLOYD COUNTY
P.I. NO.: 642405

ITEM NO.	ITEM	UNIT	UNIT COST	QUANT	TOTAL
	ROADWAY				
210-0100	GRADING COMPLETE -	LS	$253,030.56	1	$253,030.56
310-5100	GR AGGR BASE CRS, 10 INCH, INCL MATL	SY	$9.29	9156	$85,059.24
318-3000	AGGR SURF CRS	TN	$19.18	10	$191.80
402-3142	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	TN	$53.63	1576	$84,519.62
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$34.80	2101	$73,125.31
402-3113	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	TN	$54.21	696	$37,731.89
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	$35.62	50	$1,781.00
413-1000	BITUM TACK COAT	GL	$0.89	961	$855.63
433-1000	REINF CONC APPROACH SLAB	SY	$115.12	283	$32,618.10
441-0301	CONC SPILLWAY, TP 1	EA	$1,345.24	4	$5,380.96
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	$31.58	80	$2,526.40
550-4418	FLARED END SECTION, 18 IN, SLOPE DRAIN	EA	$266.66	4	$1,066.64
576-1015	SLOPE DRAIN PIPE, 15 IN	LF	$23.33	80	$1,866.40
577-1100	METAL DRAIN INLET - COMPLETE ASSEMBLY	EA	$956.06	4	$3,824.24
641-1100	GUARDRAIL, TP T	LF	$61.68	83	$5,093.53
641-1200	GUARDRAIL, TP W	LF	$9.87	625	$6,168.75
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	$483.87	2	$967.74
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	$1,331.30	2	$2,662.60
				SUBTOTAL	$598,470.41
	EROSION CONTROL				
000-0000	EROSION CONTROL	LS	$90,000.00	1	$90,000.00
				SUBTOTAL	$90,000.00
	BRIDGE				
540-1102	REMOVAL OF EXISTING BR, BR NO -	LS	$65,000.00	1	$65,000.00
543-1001	CONSTRUCTION OF BRIDGE NO. ($55/SF X 26460 SF)	LS	$1,455,300.00	1	$1,455,300.00
603-2024	STN DUMPED RIP RAP, TP 1, 24 IN	SY	$35.67	650	$23,185.50
				SUBTOTAL	$1,543,485.50
	TRAFFIC SIGN & MARKING				
000-0000	TRAFFIC SIGNING & MARKING	LS	$10,000.00	1	$10,000.00
				SUBTOTAL	$10,000.00
	TRAFFIC CONTROL - PERMANENT OFF-SET				
150-1000	TRAFFIC CONTROL -	LS	$40,000.00	1	$40,000.00
150-5000	TRAFFIC CONTROL, TEMPORARY SAND LOADED ATTENUATOR MODULE	EA	$471.31	20	$9,426.20
622-1033	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	LF	$35.42	1000	$35,420.00
				SUBTOTAL	$84,846.20
				CONSTRUCTION COST	**$2,326,802.11**

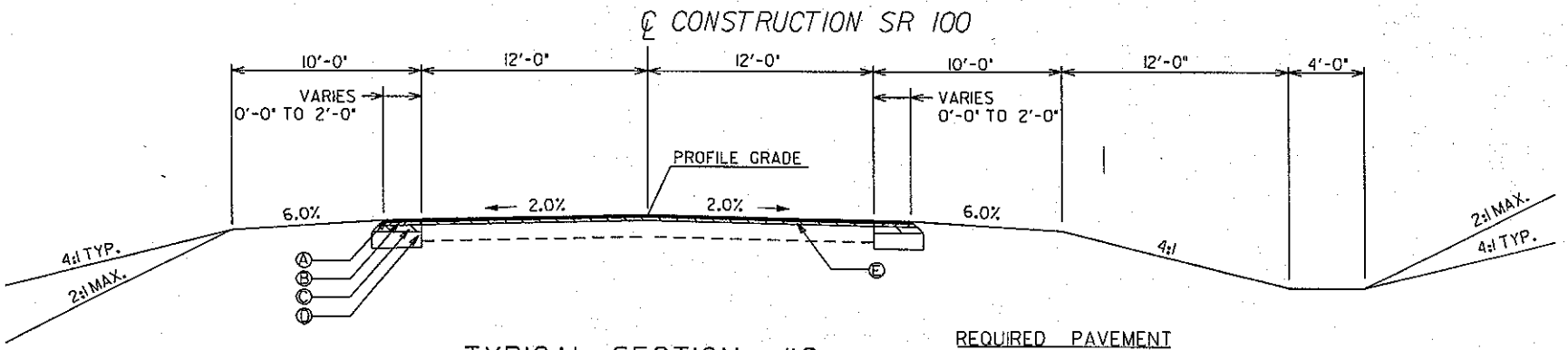
CONSTRUCTION:	**$2,326,802.11**	**RIGHT OF WAY:**	**$20,000.00**
E & C (10%):	**$232,680.21**	**ACQUIRED BY:**	**DOT**
INFLATION: (2 yrs. @ 5% per yr)	**$238,497.22**	**UTILITIES:**	**$15,000.00**
TOTAL CONS'T COSTS	**$2,797,979.53**		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRST-1367(4)		



TYPICAL SECTION #1

NORMAL SECTION



TYPICAL SECTION #2

OVERLAY SECTIONS

REQUIRED PAVEMENT

- (A) RECYCLED ASPH CONC 9.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM & H LIME (165 LBS/SY)
- (B) RECYCLED ASPH CONC 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (330 LBS/SY)
- (C) RECYCLED ASPH CONC 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LBS/SY)
- (D) GR AGGR BASE CRS, 10 INCH, INCL MATL
- (E) RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME, AS REQD

Heath & Lineback Engineers
INCORPORATED
12 POWDER SPRINGS STREET, SUITE 240
MARIETTA, GEORGIA 30064

DATE	REVISIONS	DATE	REVISIONS

GEORGIA
DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS

PROJECT: BRST-1367(4)
COUNTY: FLOYD
DATE: JULY 2002

NEED AND PURPOSE
PROJECTS BRST-1367 (4), FLOYD COUNTY
P.I. NO 642405
Bridge Replacement
SR 100 Bridge over Coosa River

This project is to replace the existing bridge on SR 100 over the Coosa River in Floyd County. This bridge was constructed in 1955. Based on DOT design policy, this bridge is not in compliance with MOG 2405-1. Coosa River Bridge design live load is H-15, and DOT MOG 2405-1 requires a bridge with a design live load of H-15 be replaced. This bridge also has a sufficiency rating of 46.18.

Road characteristics of the bridge and SR 100 indicate that the width of the bridge is not in compliance with DOT policy 4265-10. The current width of the bridge is 27 feet with a posted speed of 55 miles per hour. The Average Annual Daily Traffic (AADT) along SR 100 near the bridge was 4,450 in 2000 with 8% trucks. Traffic is projected to increase to 5,550 in 2008 and 8,000 AADT in 2028. Based on the design year AADT and the posted speed along SR 100, Coosa River Bridge should be a minimum width of 44 feet instead of 27 feet.

There are other important factors about the project area and SR 100 that should be noted. Based on the information contained in the 1990 Census, less than 20% of the Census Block population lives below the poverty level and less than 50% are minority. SR 100 near the bridge is not on the State's Bicycle and Pedestrian network. These factors will not directly impact Project BRST-1367(4).

Replacing the Coosa River Bridge will bring it up to current design standards.

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-1367(4) Floyd
P.I. 642405

OFFICE Environment/ Location

DATE January 15, 2002

FROM Harvey D. Keepler, State Environmental/ Location Engineer

TO James B. Buchan, P.E., State Consultant Design Engineer
Attn: Ted Cashin

SUBJECT SR 100 @ Coosa River

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

Existing 2000 ADT = 4450
2008 ADT = 5550
2028 ADT = 8000
K = 10%
D = 60%
T = 8%
24 HR T = 10%
SU = 5%
COMB = 5%

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

HDK:TJW

FLEXI E PAVEMENT DESIGN AI LYSIS

Project: BRST-1367(4) **County:** Floyd
P.I. no.: 642405
Description: WO 51 - SR 100 over Coosa River

Traffic Data (NOTE: AADTs are one-way)
24-hour Truck Percentage: 10.00%
AADT initial year of design period: 2,775 vpd (2008)
AADT final year of design period: 4,000 vpd (2028)
Mean AADT (one-way): 3,388 vpd

Design Loading

Mean AADT		LDF		Trucks		18-K ESAL		Total Daily Loads
3,388	*	1.00	*	0.100	*	0.95	=	323

Total predicted design period loading = 323 * 20 * 365 = 2,357,900

Design Data
Terminal Serviceability Index: 2.50
Soil Support: 2.50
Regional Factor: 2.00

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness mm	Thickness (in.)	Structural Coefficient	Structural Value
9.5 mm Superpave	38	(1.50)	0.0173	0.66
19 mm Superpave	76	(2.99)	0.0173	1.31
25 mm Superpave	102	(4.00)	0.0118	1.20
Graded Aggregate Base	254	(10.00)	0.0063	1.60

Required SN = 5.29 Proposed SN = 4.77

>>> Proposed pavement is 9.9% Underdesign <<<

Remarks: Heath & Lineback Engineers, Inc.

Prepared by F. Randy Boykin April 25, 2002
Date

Recommended _____
State Materials & Research Engineer **Date**

Approved _____
State Consultant Design Engineer **Date**

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 115-0046-0 **Floyd** SUFF. RATING 46.18

Location & Geography

*	Structure I.D.No:	115-0046-0	
	200 Bridge Information:	07	
*	6A Feature Int:	COOSA RIVER	
*	6B Critical Bridge:	0	
*	7A Route Number Carried:	SR00100	
*	7B Facility Carried:	SR 100	
*	9 Location:	.3 MI S OF COOSA	
	2 DOT District:	6	
	207 Year Photo:	1997	
*	91 Inspection Frequency:	24	Date: 12/28/2001
	92A Fract Crit Insp Freq:	00	Date: 02/01/1901
	92B Underwater Insp Freq:	60	Date: 09/19/2000
	92C Other Spc. Insp Freq:	00	Date: 02/01/1901
*	4 Place Code:	00000	
*	5 Inventory Route (O/U):	1	
	Type:	3	
	Designation:	1	
	Number:	00100	
	Direction:	0	
*	16 Latitude: 34-14.8	HMMS Prefix: SR	
*	17 Longitude 85-21.3	HMMS Suffix: 00	MP: 13.52
	98 Border Bridge: 000	%Shared: 00	
	99 ID Number: 000000000000000		
*	100 STRAHNET: 0		
	12 Base Highway Network: 1		
	13A LRS Inventory Route: 1151010000		
	13B Sub Inventory Route: 0		
*	101 Parallel Structure: N		
*	102 Direction of Traffic: 2		
*	264 Road Inventory Mile Post: 013.37		
*	208 Inspection Area: 06	Initials: DEM	
	Engineer's Initial: SGM		

* Location I.D. No.: 115-00100D-013.52N

*	104 Highway System:	0	
*	26 Functional Classification:	07	
*	204 Federal Route Type:	S	No.: 01367
	105 Federal Lands Highway:		
*	110 Truck Route:	0	
	206 School Bus Route:	1	
	217 Benchmark Elevation:	0000.00	
	218 Datum:	0	
*	19 Bypass Length:	16	
*	20 Toll:	3	
*	21 Maintenance:	01	
*	22 Owner:	01	
*	31 Design Load:	2	
	37 Historical Significance:	5	
	205 Congressional District:	07	
	27 Year Constructed:	1955	
	106 Year Reconstructed:	0000	
	33 Bridge Median:	0	
	34 Skew:	00	
	35 Structred Flared:	0	
	38 Navigation Control:	0	
	213 Special Steel Design:	0	
	267 Type of Paint:	5	
*	42 Type of Service on:	1	
	Under:	5	
	214 Movable Bridge:	0	
	203 Type Bridge:	O-O-M-O	
	259 Pile Encasement:	3	
*	43 Structure Type Main:	4 02	
	45 No. Spans Main:	006	
	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:	08	
	242 Deck Drains:	1	
	243 Parapet Location:	0	
	Height:		0.00
	Width:		0.00
	238 Curb:		1.10 1
	239 Handrail:	2 2	
*	240 Median Barrier Rail:	0	
	241 Bridge Median Height:		0.00
	Width:		0.00
*	230 Guardrail Loc Dir Rear:	6	
	Fwrd:	6	
	Oppo Dir Rear:	0	
	Fwrd:	0	
	244 Approach Slab:	0	
	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:	32	
	Sewer:	00	
	247 Lighting Street:	0	
	Naviagtion:	0	
	Aerial:	0	
*	248 County Continuity No.:	00	

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 115-0046-0 **Floyd** SUFF. RATING 46.18

Programming Data

201 Project No.: COUNTY CONTRACT
202 Plans Available: 0
249 Prop. Proj. No.: BRST-1367 (4)
250 Approval Status: 0000
251 P.I. No.: 642405-
252 Contract Date: 02/01/2005
260 Seismic No.: 00028
75 Type Work: 34 1
94 Bridge Imp. Cost: $ 890
95 Roadway Imp. Cost: $ 78
96 Total Imp Cost: $ 1,247
76 Imp. Length: 000763
97 Imp. Year: 1990
114 Future ADT: 007650 Year: 2020

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: 6
216 Water Depth: 18.0 Br. Height: 31.0
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: 1 Diver: WSR

* Location I.D. No.: 115-00100D-013.52N

Measurements

* 29 ADT: 005100 Year: 2000
109 % Trucks: 10
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0090
* 49 Structure Length: 540
51 Br. Rwdy. Width: 24.00
52 Deck Width: 27.10
* 47 Tot. Horz. Cl: 24.00
50 Curb/Sdewlk Width: 0.80/0.80
32 Approach Rdwy Width: 024
* 229 Shoulder Width:
Rear Lt: 4.00 Type: 8 Rt: 4.00
Fwrd Lt: 4.00 Type: 8 Rt: 4.00
Pavement Width:
Rear: 24.00 Type: 2
Fwrd: 24.00 Type: 2
Intersection Rear: 0 Fwrd: 1
36 Safety Features Br. Rail: 2
Transition: 2
App. G. Rail: 1
App. Rail End: 1
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: 7.50
Deck Thick Approach: 0.00
246 Overlay Thickness: 1.00
212 Year Last Painted: Sup: 1998 Sub: 0000

Ratings

65 Inventory Rating Method: 2
63 Inventory Rating Method: 2
66 Inventory Type: 2 Rating: 20
64 Operating Type: 2 Rating: 37
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 26 0
Type 3s2: 40 0
Timber: 35 0
Piggyback: 40 0
261 H Inventory Rating: 15
262 H Operating Rating: 21
67 Structural Evaluation: 4
58 Deck Condition: 4
59 Superstructure Condition: 8
* 227 Collision Damage: 0
60A Substructure Condition: 7
60B Scour Condition: 7
60C Underwater Condition: 6
71 Waterway Adequacy: 9
61 Channel Protection Cond: 5
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

NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. BRST – 1367(4)
P.I. No. 642405

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.

This project consists of improvements of SR 100 over Coosa River, located in Floyd County, in G.M.D 855 and 1059. The improvement project includes replacing the existing bridge over the Coosa River.

Date of Location Approval: SEPTEMBER 10, 2002

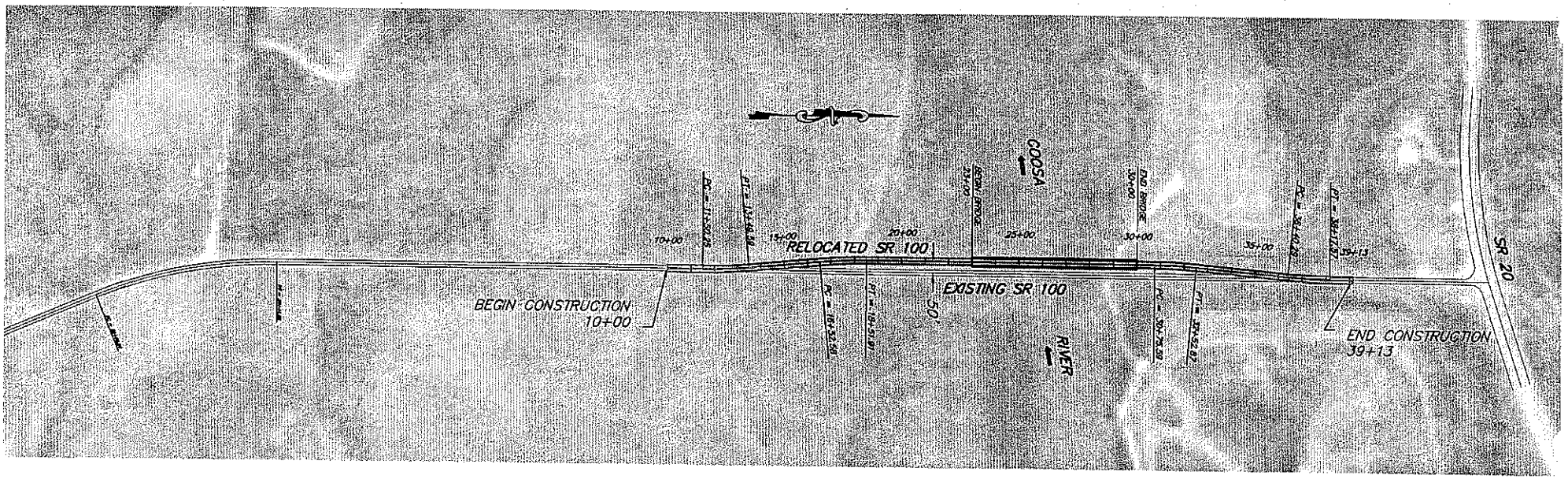
Drawings and/or maps, and/or plats of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation.

Curtis DeWayne Comer
Email: dewayne.comer@dot.state.ga.us
500 Joe Frank Harris Parkway, S.E.
Cartersville, Georgia 30120
770-387-3602

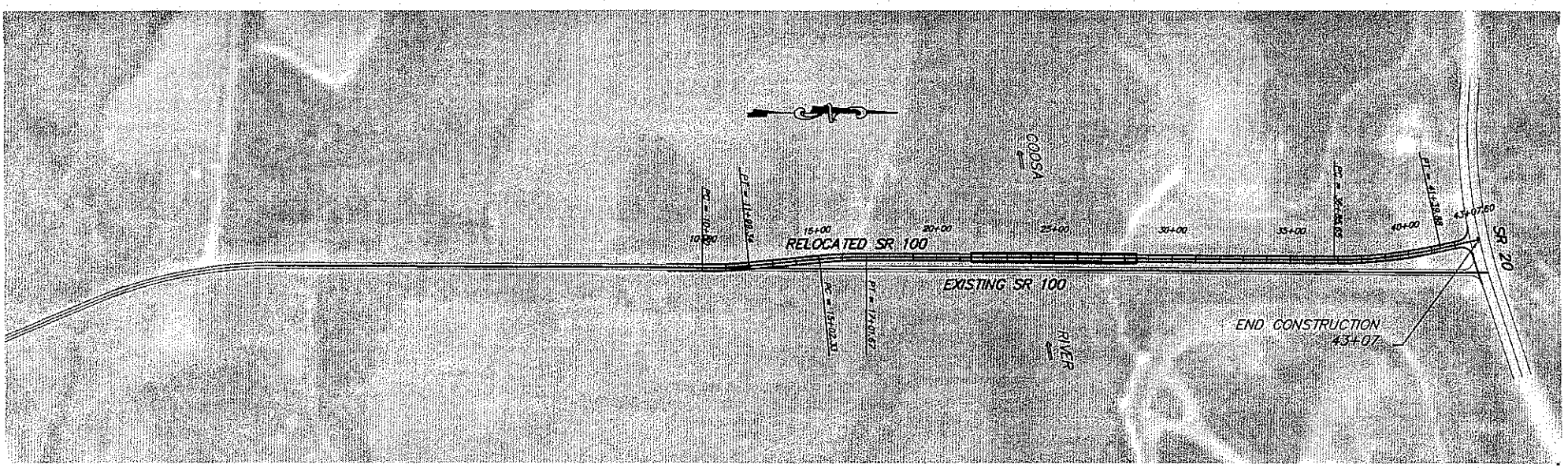
Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Ted Cashin
Office of Consultant Design
Email: ted.cashin@dot.state.ga.us
Georgia Department of Transportation
No. 2 Capitol Square
Atlanta, Georgia 30334
404-463-6135

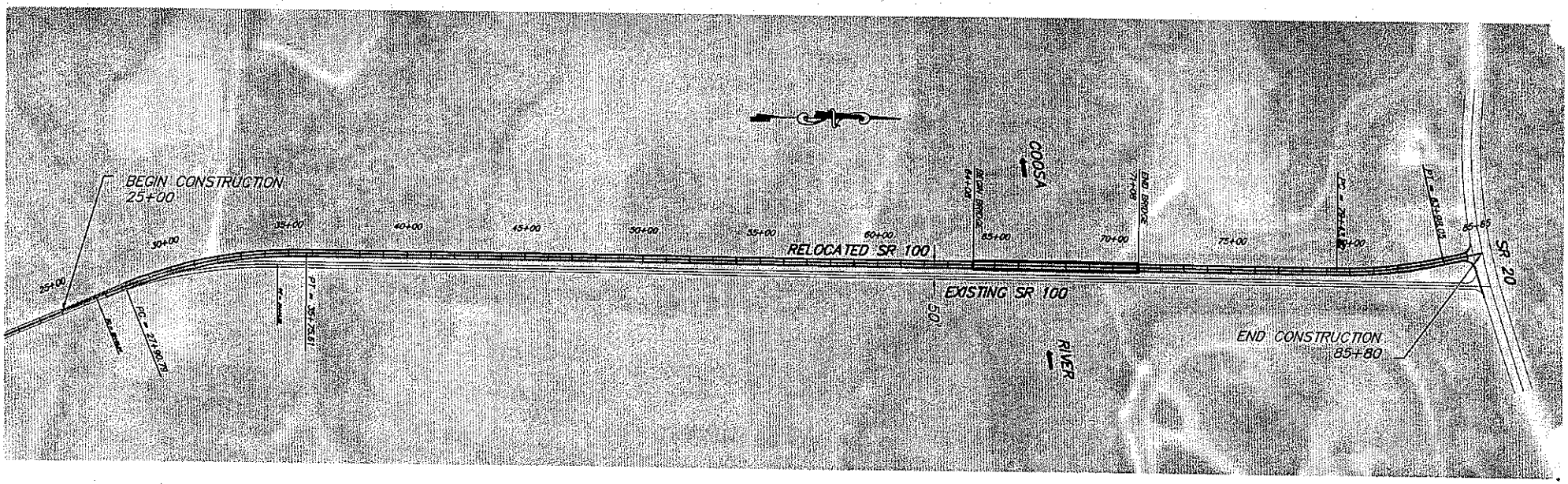
Any written request or communication in reference to this project or notice SHOULD include the PROJECT and P.I. NUMBERS as noted at the top of this notice.



BRST-1367(4)
SR 100 OVER COOSA RIVER
FLOYD COUNTY
PI NO. 642405
CONCEPT PLAN – ALTERNATE 2
SCALE: 1" = 400'



BRST-1367(4)
SR 100 OVER COOSA RIVER
FLOYD COUNTY
PI NO. 642405
CONCEPT PLAN – ALTERNATE 2A
SCALE: 1" = 400'



BRST-1367(4)
SR 100 OVER COOSA RIVER
FLOYD COUNTY
PI NO. 642405
CONCEPT PLAN – ALTERNATE 3
SCALE: 1" = 400'

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-1367 (4)
County: Floyd
P. I. Number: 642405

Federal Route Number: N/A
State Route Number: 100

DESCRIPTION: SR 100 over Coosa River
Recommendation for approval:

DATE 8-19-02 _____
Project Manager

DATE 8-14-02 _____
State Consultant Design Engineer

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

DATE_____ _____
State Transportation Planning Administrator

DATE_____ _____
State Office of Financial Management Administrator

DATE_____ _____
State Environmental/Location Engineer

DATE_____ _____
State Traffic Safety and Design Engineer

DATE 8/21/02 _____
District 6 Engineer

DATE_____ _____
State Project Review Engineer

DATE_____ _____
State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-1367 (4)
County: Floyd
P. I. Number: 642405

Federal Route Number: N/A
State Route Number: 100

DESCRIPTION: SR 100 over Coosa River
Recommendation for approval: -

DATE 8-19-02 _____
Project Manager

DATE 8-19-02 James B. Buchan MBA
State Consultant Design Engineer

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

DATE_____
State Transportation Planning Administrator

DATE_____
State Office of Financial Management Administrator

DATE_____
State Environmental/Location Engineer

DATE_____
State Traffic Safety and Design Engineer

DATE_____
District 6 Engineer

DATE 9/3/02 David L Mullen RCW
State Project Review Engineer

DATE_____
State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-1367 (4)
County: Floyd
P. I. Number: 642405

Federal Route Number: N/A
State Route Number: 100

DESCRIPTION: SR 100 over Coosa River
Recommendation for approval:

DATE 7-19-02 _____
Project Manager

DATE 8-14-02 _____
James B. Buchan MBA
State Consultant Design Engineer

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

DATE 8/26/02 _____
State Transportation Planning Administrator

DATE _____
State Office of Financial Management Administrator

DATE _____
State Environmental/Location Engineer

DATE _____
State Traffic Safety and Design Engineer

DATE _____
District 6 Engineer

DATE _____
State Project Review Engineer

DATE _____
State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
Office of Consultant Design

PROJECT CONCEPT REPORT

Project Number: BRST-1367 (4)
County: Floyd
P. I. Number: 642405

Federal Route Number: N/A
State Route Number: 100

DESCRIPTION: SR 100 over Coosa River
Recommendation for approval:

DATE 7-19-02 _____
Project Manager

DATE 8-19-02 _____
James B. Buchan MBR
State Consultant Design Engineer

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

DATE _____
State Transportation Planning Administrator

DATE _____
State Office of Financial Management Administrator

DATE _____
State Environmental/Location Engineer

DATE _____
State Traffic Safety and Design Engineer

DATE _____
District 6 Engineer

DATE _____
State Project Review Engineer

DATE 9/02/02
Paul V. Liles Jr.
State Bridge and Structural Design Engineer