ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0729(13) & (12) Candler County
P.I. Nos. 542401 & 542402

OFFICE Preconstruction

DATE May 30, 2001

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:

Tom Turner
David Mulling
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Paul Liles
Jimmy Chambers (ATTN: Ted Cashin)
Gary Priester

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0729(13) & (12) Candler County
P.I. Nos. 542401 & 542402

OFFICE Preconstruction

DATE May 14, 2001

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

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

SUBJECT PROJECT CONCEPT REPORT

These combined projects are the replacement of two narrow and structurally deficient bridges on SR 129 over the Canoochee Rover and Overflow, 4.0 miles south of Metter, Georgia. The existing bridges, constructed in 1949, are 23.7' wide with sufficiency ratings of 45. The existing approaches consist of a two lane roadway with rural shoulders on a variable 100' - 200' of existing right-of-way. The base year traffic (2005) along this section of SR 129 is 1,750 VPD and the 20 year (2025) or design year projected volume is 3,000 VPD. The posted speed and the design speed are 55 MPH.

The construction proposes to replace the existing bridges over the Canoochee River and Overflow with new 600' x 40' and 140' x 40' concrete structures at the existing bridge sites. The approaches will consist of two, 12' lanes with 10' rural shoulders (4' paved). Traffic will be maintained during construction utilizing an on-site detour.

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.

It is recommended that project BRST-0729(12) be combined with project BRST-0729(13). The new project will be BRST-0729(13), P.I. No. 542401 and include the Canoochee River and Overflow bridges.

The estimated costs for this project are:

BRST-0729(13) Candler County

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$2,566,000	$3,714,000	2005	02-07
Right-of-Way	$ 116,000	$ 20,000		
Utilities*	LGPA	LGPA		

BRST-0729(13) & (12) Candler
May 14, 2001

These projects are in the STIP. I recommend this project concept be approved and the project description be revised to reflect the project described herein.

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

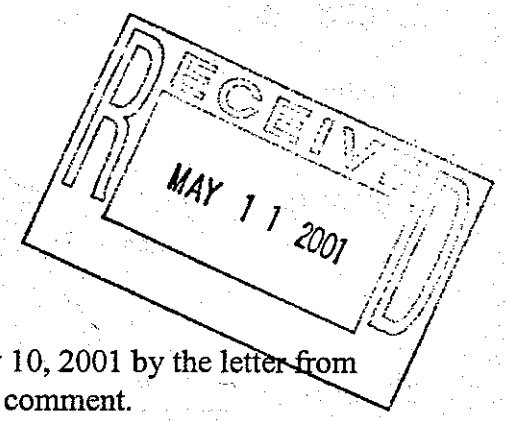
FILE: BRST-0729(13) & (12) Candler
P.I. Number 542401- & 542402-

OFFICE: Engineering Services

DATE: May 10, 2001

FROM: David Mulling, Project Review Engineer

TO: Wayne Hutto, Assistant Director of Pre-construction



SUBJECT: **CONCEPT REPORT**

We have reviewed the concept report submitted May 10, 2001 by the letter from James R. Chambers dated May 5, 2001, and have no comment.

The costs for the project are:

Construction	$2,121,000
Inflation	$ 212,000
E&C	$ 233,000
Reimbursable Utilities	$ 0
Right of Way	$ 116,000

DTM

c: Jim Chambers

SCORING RESULTS AS PER MOG 2440-2

Project Number:	County:	PI No.:
BRST-0729(13)	CANDLER	542401-

Report Date:	Concept By:
5/5/01	DOT Office: CONSULTANT DESIGN
☒ CONCEPT	DOT Project Manager: TED CASHIN
	Consultant: Wilbur Smith & Associates

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

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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

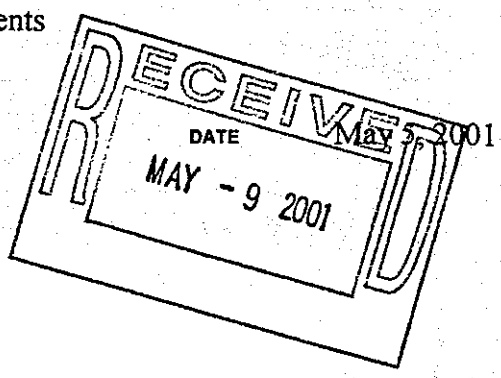
INTERDEPARTMENT CORRESPONDENCE

FILE **BRST-0729(13) & (12)**
SR 129 over Canoochee River and Overflow bridge replacements
P.I. No. 542401 and 542402

OFFICE Atlanta

FROM James R. Chambers, State Consultant Design Engineer

DATE May 5, 2001



TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT **PROJECT CONCEPT REPORT**

Attached is the original copy of the concept report for your further handling and approval in accordance with the PDP.

Currently the main Canoochee River bridge and the overflow are programmed as separate projects. We are recommending combining the two projects into the main channel project.

Those people 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.

Distribution:
Herman Griffin, State Transportation Programming Engineer
Marta Rosen, State Transportation Planning Administrator
Harvey Keepler, State Environment/Location Engineer
Gary Priester, District Engineer – Jesup
David Mulling, Project Review Engineer
Paul Liles, State Bridge & Structural Engineer
Marion Waters, State Traffic Operations Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design
Project Concept Report

Project Number: BRST-0729 (13) & (12)
County: Candler
P. I. Number: 542401 and 542402

Federal Route Number: N/A
State Route Number: 129

Recommendation for approval

DATE May 4, 2001 _____
Ted Cashin, P.E. Project Manager

DATE MAY 9, 2001 _____
State Consultant Design Engineer

The concept as presented here in 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 Transportation Programming Engineer

DATE_____
State Environmental/Location Engineer

DATE_____
State Traffic Operations Engineer

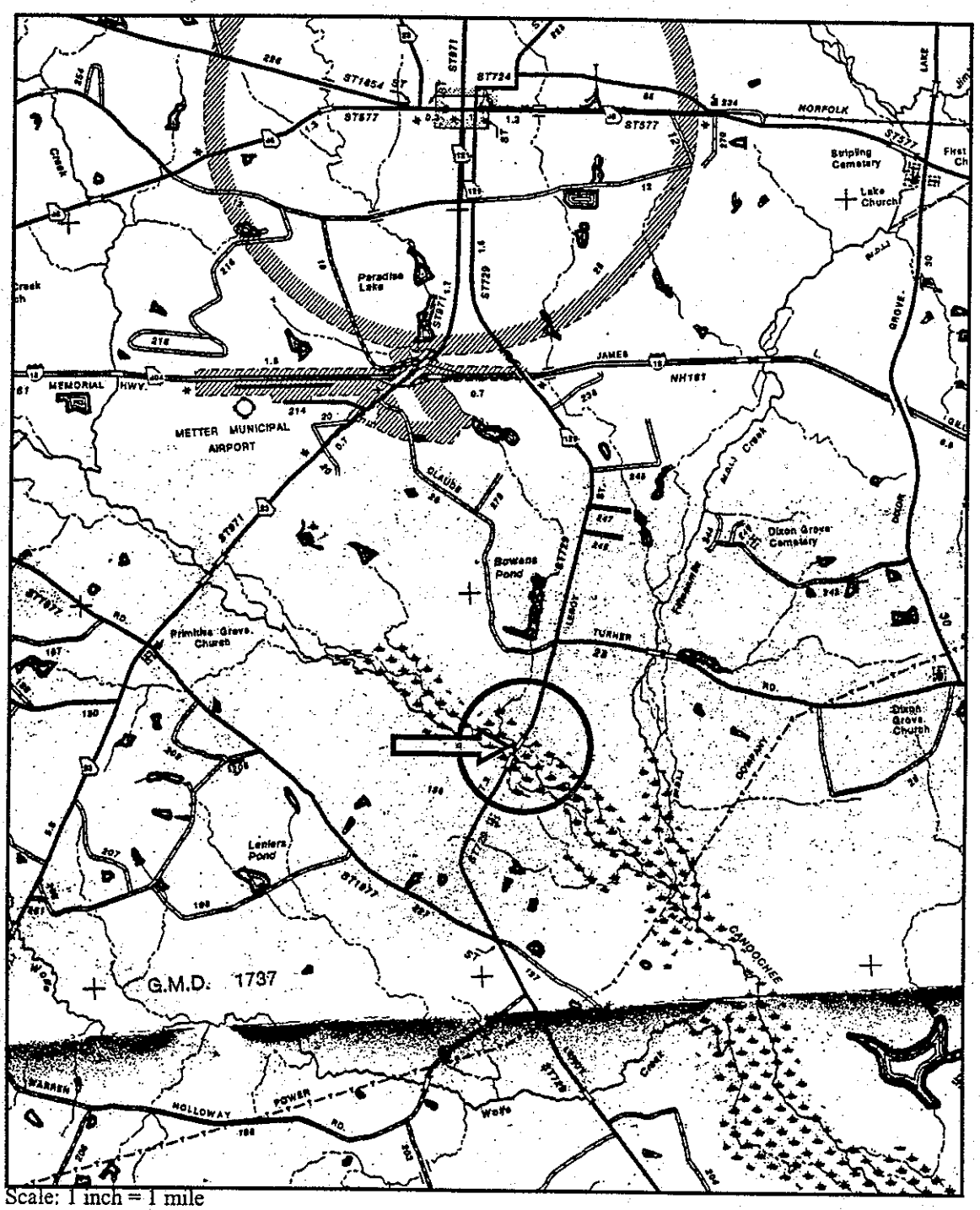
DATE_____
District Engineer

DATE_____
Project Review Engineer

DATE_____
Other Offices as required such as; Bridge Design

S:\2000BIGBRIDGECONT-2-359100\ADMIN\CORRESPONDENCE\BBNO2POJCONCREPT1.DOC

PROJECT LOCATION MAP



Scale: 1 inch = 1 mile

Location Map

Project: BRST-0729(13) & (12) Candler County

PI No.: 542401 & 542402

Description: SR 129 over Canoochee River and Overflow 4 mi S of Metter

PROJECT CONCEPT REPORT

DATE: May 4, 2001

PROJECT NUMBER: BRST-0729 (13) & (12)

COUNTY: Candler

DESCRIPTION: 2 Bridge Replacements

LENGTH: The total length of this project is approximately 3800 feet (0.72 miles)

P.I. NO.: 542401 and 542402

U.S. ROUTE NO.: N/A STATE RT. NO.: 129

LOCATION: SR 129 Over Canoochee River Bridge and Over Flow Bridge

MILE POINT REFERENCE:
BEGIN 4.41 END 5.13

TRAFFIC

CURRENT	PROJECTED
YEAR: 2005 ADT: 1,750	YEAR: 2025 ADT: 3,000

PDP CLASSIFICATION	FUNCTION CLASSIFICATION
Minor	Rural Major Collector

FOS ( ) EXEMPT(X) N/A ( )

EXISTING DESIGN

TYPICAL SECTION: 2 lane rural, R/W width varies from 100 ft. to 200 ft.

POSTED SPEED 55 MI/HR MAX. DEGREE OF CURVE 2° 00'

MAX. EXISTING GRADE 2.5 %

EXISTING MAJOR STRUCTURES: SR 129 over Canoochee River: 22 spans @ 27'-0" for a total length of 594'-0"/ SR 129 Overflow bridge: 5 spans @ 27'-0" for a total length of 135'-0"

FEATURE INTERSECTED: Canoochee River and Canoochee River Overflow.

S. RTG: 44.5/44.5 LENGTH: 594 ft./135 ft. WIDTH: 24 ft./24 ft.

PROJECT NEED & PURPOSE: The purpose of BRST-0729(13) & (12) is to replace the structurally deficient bridges with structurally adequate bridges to improve the operation and safety of this section of SR 129 . See attached Need and Purpose Statement.

PROPOSED DESIGN

PROPOSED TYPICAL SECTION: Roadway section: two 12'-0" travel lanes with 10' rural shoulders. Bridge section: two 12'-0" travel lanes with 8' shoulders. Typical section is attached.

PROPOSED RIGHT-OF-WAY WIDTH: Approximately 150 ft. to 225 ft.

DESIGN SPEED: 55 MI/HR

MAX. DEGREE OF CURVE: ALLOWABLE: 5° 00' PROPOSED: 1° 45'

MAX. GRADE: ALLOWABLE: 4.0 % PROPOSED: 2.5 %

TYPE ACCESS: Permit

TRAFFIC CONTROL DURING CONSTRUCTION:

Two-way traffic will be maintained on the existing roadway while the proposed bridge and approaches are constructed parallel.

PROPOSED STRUCTURES: The proposed bridges over the Canoochee River and Canoochee River Overflow will be 40'-0" wide, consisting of two 12'-0" travel lanes and two 8'-0" outside shoulders. The bridge is expected to be approximately 600 ft long over the Canoochee River and approximately 140 ft long over the Canoochee River Overflow. Bridge hydraulics studies to be conducted in the preliminary plans phase may show the need to span the main creek channel for the Canoochee River Bridge.

DESIGN EXCEPTIONS REQUIRED

CONTROLLING CRITERIA	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)

NUMBER OF PARCELS: 4

DISPLACEMENTS: None

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE: 4/12/2001

CONFORMS TO TIP/STIP? YES

MEETS LOGICAL TERMINI REQUIREMENTS? YES

P.A.R. MEETING: NONE ANTICIPATED

LEVEL OF ENVIRONMENTAL ANALYSIS: CATEGORICAL EXCLUSION ANTICIPATED

PUBLIC INVOLVEMENT: NONE ANTICIPATED

PERMITS REQUIRED (COE 404,WATER QUALITY,TVA): NW 404 AND PRECONSTRUCTION NOTIFICATION

TIME SAVINGS PROCEDURES APPROPRIATE: YES

SCHEDULING CONSIDERATIONS:

TIME TO COMPLETE ENVIRONMENTAL: 6 (MONTHS)

TIME TO COMPLETE PRELIMINARY RD/RW PLANS: 3 (MONTHS)

TIME TO COMPLETE 404 PERMIT: 2 (MONTHS)

TIME TO COMPLETE FINAL CONSTRUCTION PLANS: 3 (MONTHS)

TIME TO BUY RIGHT OF WAY: 6 (MONTHS)

LOCAL GOVERNMENT COMMITMENTS: LGPA Signed for Utilities from Candler Co. 12/4/00.

OTHER PROJECTS IN THE AREA: NONE IDENTIFIED

PROBABLE LOCATIONS OF USTS: NONE IDENTIFIED

PROBABLE LOCATION OF HAZARDOUS WASTE: NONE IDENTIFIED

ALTERNATES CONSIDERED: (1) Build proposed bridges offset to east and parallel to existing bridges. (2) Build proposed bridges on same horizontal alignment and build 1,050 ft. temporary detour bridge (3) Offsite detour (4) No build (5) Build proposed bridges offset to west and parallel to existing bridges.

Cost Comparison Summary of Concepts 1 - 5

COMMENTS: Alternate (1) was eliminated due to the cost of existing power pole relocation cost of approximately $ 58,100. Alternate (2) was eliminated due to the cost of building a 1,050' long temporary detour bridge and temporary roadway approaches, additional $ 504,000. Alternate (3) was eliminated due to extensive distance (7.5 miles) of offsite detour. Also, this alternate would incur an added cost due to resurfacing county roads of $122,258.40. There is no state route offsite detour within 15 miles of the project. Alternate (4) was eliminated due to long term maintenance cost of structurally deficient bridge. Alternate (5) is selected for this concept because of the lowest overall cost, construction time, and right of way impacts. No FEMA coordination is required. Candler County is currently not in the Flood Insurance Program and has no FEMA Flood Insurance Rate Maps.

ATTACHMENTS: COST ESTIMATE, NEED & PURPOSE, TRAFFIC COUNTS LETTER, TYPICAL SECTIONS, BRIDGE INVENTORY, FLEXIBLE PAVEMENT DESIGN, LOCATION & DESIGN NOTICE, CONCEPT TEAM MEETING MINUTES AND ATTENDANCE SHEET.

PROJECT COSTS

DATE: May 3, 2001 PREPARED BY: CAB of Wilbur Smith Associates
PROJECT NO.: BRST-0729 (13) & (12)
P.I. NO.: 542401 and 542402 LENGTH: 3800 feet (0.72 miles)
PROJECT DESCRIPTION: SR 129 over Canoochee River and Overflow bridge replacements
PROPOSED CONCEPT: Build proposed 594 ft. x 40 ft. and 135 ft. x 40 ft. bridges offset to the west and parallel to the existing bridges. Roadway approaches will consist of two 12 ft. travel lanes with 10 ft. rural shoulders.
EXISTING ROADWAY: State Route 129
TRAFFIC: Existing: 1,750 ADT (2005) Design: 3,000 ADT (2025)
( ) PROGRAMMING PROCESS (x) CONCEPT DEVEL. ( ) DURING PROJ DEVEL.

PROJECT COSTS

A. Right Of Way	2.31	ACRES	@	$50,000		$115,500.00
					Subtotal	**$115,500.00**
B. Utilities						
				Lump Sum By Locals		$0.00
					Subtotal	**$0.00**
C. Clearing and Grubbing	8.93	ACRES	@	$5,000.00	ACRES	$44,650.00
					Subtotal	**$44,650.00**
D. Earthwork						
Embankment						
In-Place Embankment	25,200	CU YD	@	$5.50	CU YD	$138,600.00
					Subtotal	**$138,600.00**
E. Base and Paving						
G.A.B. 8"	5,781	TONS	@	$18.00	TON	$104,058.00
1 1/2" Superpave	1,096	TONS	@	$34.00	TON	$37,264.00
2" Superpave	1,098	TONS	@	$39.00	TON	$42,822.00
3" Superpave	1,646	TONS	@	$33.50	TON	$55,141.00
Leveling	40	TONS	@	$42.00	TON	$1,680.00
Tack Coat	930	GAL	@	$2.00	GAL	$1,860.00
Aggr Surf Course	11	TONS	@	$17.00	TON	$178.50
					Subtotal	**$243,003.50**

F. Drainage						
Longitudinal System						
24" Storm Drain Pipe	200	LF	@	$36.00	FT	$7,200.00
Drainage Structures						
Catch Basins GP I	0	EA	@	$1,762.00	EA	$0.00
Catch Basins GP II	0	EA	@	$1,449.00	EA	$0.00
					Subtotal	**$7,200.00**
G. Concrete Work						
Curb & Gutter TP 2	0	LF	@	$11.00	LF	$0.00
Valley Gutter, 8 in	0	SQ YD	@	$33.00	SQ YD	$0.00
Class B Pvmt Widen	0	CU YD	@	$135.00	CU YD	$0.00
Conc Sidewalk, 4 in	0	SQ YD	@	$21.00	SQ YD	$0.00
					Subtotal	**$0.00**
H. Traffic Control	1	LS	@	$20,000	LS	$20,000.00
					Subtotal	**$20,000.00**
I. Erosion Control	0.72	MI	@	$40,000	MI	$28,800.00
					Subtotal	**$28,800.00**
J. Signs, Striping, Signals & Lighting						
Signing & Marking	0.72	MI	@	$32,000	MI	$23,040.00
	0					
Traffic Signals	0	EA	@	$50,000	EA	$0.00
					Subtotal	**$23,040.00**
K. Grassing/Landscaping						
Grassing	1.68	ACRES	@	$600	ACRES	$1,008.00
					Subtotal	**$1,008.00**
L. Miscellaneous						
Field Engineers Office	1	EA	@	$40,070.00	EA	$40,070.00
Fencing	0	LF	@	$17.90	LF	$0.00
Right of Way Markers	6	EA	@	$64.00	EA	$384.00
					Subtotal	**$40,454.00**
M. Major Structures						
Bridge Removal 43.25' x 594'		EA	@			$159,459.00
Bridge Removal 43.25' x 135'		EA	@			$37,657.00
Bridge New 43.25' x 594'		EA	@			$1,027,620.00
Bridge Newl 43.25' x 135'		EA	@			$233,550.00
					Subtotal	$1,458,286.00

ESTIMATE SUMMARY

A. Right of Way	$115,500.00
B. Reimbursable Utilities	$0.00

Construction Cost Summary

C. Clearing and Grubbing	44,650.00
D. Earthwork	138,600.00
E. Base & Paving	243,003.50
F. Drainage	7,200.00
G. Concrete Work	0.00
H. Traffic Control	20,000.00
I. Erosion Control	28,800.00
J. Sign, Striping, Signals & Lighting	23,040.00
K. Grassing/Landscaping	1,008.00
L. Miscellaneous	40,454.00
M. Bridges	1,458,286.00
Total Construction Estimate	**2,120,541.50**
2 year of Inflation @ 5.00%	**217,355.50**
10% E & C	**233,789.70**
Total Construction Estimate	**2,571,686.70**

NEED AND PURPOSE
Projects BRST-0729(12),(13)
Candler County
P.I. Nos. 542401 & 541402
Bridge Replacements

Bridge project BRST-0729(12) proposes to replace the structurally deficient bridge that is located on SR 129 at the Canoochee River, where the existing bridge's sufficiency rating is 44.5. Bridge project BRST-0729(13) proposes to replace the structurally deficient bridge that is located on SR 129 at an overflow for the Canoochee River, where the existing bridge's sufficiency rating is 44.5. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. Therefore, these projects will replace the existing bridges with structurally adequate bridges.

This section of SR 129 is functionally classified as a rural major collector and is not a designated school bus route. The posted speed limit is 55 MPH. The bridges are located approximately four miles south of the Metter city limits and were constructed in 1949. The projects are not on a route identified in GDOT's Statewide Bicycle & Pedestrian Plan.

Existing 1999 traffic volumes along this section of roadway are approximately 1,300 vehicles per day (VPD). Future volumes for this section of SR 129 are expected to be approximately 1,750 VPD resulting in a Level of Service "A". By the year 2025, traffic volumes are expected to be 3,000 VPD and the Level of Service will remain "A". Seven percent of the traffic volume on this section of SR 129 is truck traffic.

Replacing these two bridges will bring them up to current design standards and will improve the operation and safety of this section of SR 129.

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0729(12)(13) Candler
P.I. 542402 & 542401

OFFICE Environment/ Location

DATE October 18, 2000

FROM Harvey D. Keepler, State Environmental/ Location Engineer

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

SUBJECT SR 129 @ Canoochee River & Overflow

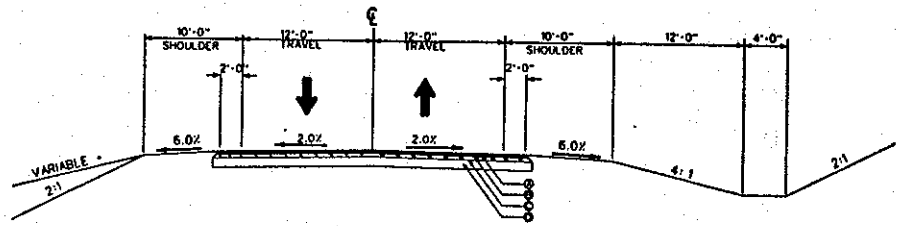
We are furnishing estimated traffic assignments for the above project as follows:

2005ADT = 1750
2025 ADT = 3000
K = 10%
D = 60%
T = 5%
24 HR T = 7%
SU = 3.5%
COMB = 3.5%

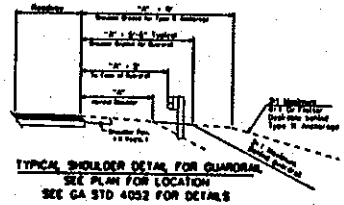
If you have any questions concerning this information please contact Gary Langford at (404)699-4404.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRST-0729(13) & (12)		

TYPICAL SECTION



SLOPE CONTROLS		
SLOPE	FILL	CUT
4:1	0-10'	
2:1	OVER 10'	ALL



TYPICAL SHOULDER DETAIL FOR GUARDRAIL
SEE PLAN FOR LOCATION
SEE GA STD 4052 FOR DETAILS

APPLIES TO STA. 101+50 TO STA. 137+50

ALLOWABLE RANGES TABLE

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

A. NORMAL CROWN

SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
0.0150 FT/FT - MINIMUM	0.0156 FT/FT - MINIMUM
0.0208 FT/FT - DESIRABLE	0.0208 FT/FT - DESIRABLE
0.0250 FT/FT - MAXIMUM	0.0300 FT/FT - MAXIMUM

B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

	RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM	1:150	0.67%
DESIRABLE	1:200	0.50%
MAXIMUM	1:300	0.33%

LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

50% OF TRANSITION INSIDE CURVE - MAXIMUM
33% OF TRANSITION INSIDE CURVE - DESIRABLE
20% OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).

REQUIRED PAVEMENT:

Ⓐ RECYCLED ASPH CONC. 1¼" SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LBS/SY)
Ⓑ RECYCLED ASPH CONC. 2" SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LBS/SY)
Ⓒ RECYCLED ASPH CONC 3" SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (330 LBS/SY)
Ⓓ GR AGGREGATE BASE CRS, 8 INCH, INCL MATL

USE SUPERPAVE MIX DESIGN LEVEL B

PROPERTY AND EXISTING R/W LINE ---℄---
REQUIRED R/W LINE ———
CONSTRUCTION LIMITS —C— —F—
EASEMENT FOR CONSTRUCTION
& MAINTENANCE OF SLOPES
DRAINAGE EASEMENT
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS ———
R/W AND LIMIT OF ACCESS———

N.T.S.

DATE	REVISIONS	DATE	REVISIONS

Willis Smith Associates
2520 BRANDYWINE ROAD
SUITE 220
ATLANTA, GEORGIA 30341
(770) 936-8650

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
TYPICAL SECTION
SR129 OVER CANOOCHEE RIVER & OVERFLOW
PROJECT - BRST-0729(13)&(12)
COUNTY - CANDLER
DATE SH 1 OF 1

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 043-0014-0 **Candler County** SUFF. RATING: 44.5

Location & Geography

* Structure I.D. No.: 043-0014-0
200 Bridge Information: 06

* 6A Feature Int.: CANOOCHEE RIVER
* 6B Critical Bridge: 0
* 7A Route Number Carried: SR00129
* 7B Facility Carried: SR 129
* 9 Location: 4 MI S OF METTER
2 DOT District: 5
207 Year Photo: 2000

* 91 Inspection Frequency: 24 Date: 11/02/2000
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: 3
Designator: 1
Number: 00129
Direction: 0

* 16 Latitude: 32-19.6
* 17 Longitude: 82 -03.6

98 Border Bridge: 000 %Shared: 00
99 ID Number: 000000000000000

* 100 Defense Highway: 0
* 101 Parallel Structure: N
* 102 Direction of Traffic: 2
264 Road Inventory Mile Post: 004.65

* 208 Inspection Area: 10 Initials: DLC

* Location I.D. No: 043-00129D-004.65N
* XReferen I.D. No: 000-000000-000.000

* 104 Highway System: 0
* 26 Functional Classification: 07
* 204 Federal Route Type: S No: 00729
* 110 Truck Route: 0
206 School Bus Route: 0
217 Benchmark Elevation: 0.00
218 Datum: 0
* 19 Bypass Length: 7
* 20 Toll: 3
* 21 Maintenance: 01
* 22 Owner: 01
* 31 Design Load: 2
37 Historical Significance: 5
205 Congressional District: 01
* 27 Year Constructed: 1949
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: 2

* 42 Type Service On: 1
Under: 5
214 Movable Bridge: 00
203 Type Bridge: E-N-M-O
259 Pile Encasement: 2
* 43 Structure Type Main: 4 02
45 No. Spans Main: 022
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: 8
Protection: 8

Signs & Attachments

223 Expansion Joint Type: 02
242 Deck Drains: 1

243 Parapet Location: 0
Height: 0
Width: 0

238 Curb: 1.2 1
239 Handrail: 1 1
* 240 Median Barrier Rail: 0

241 Bridge Median Height: 0
Width: 0

* 230 Guardrail Loc Dir Rear: 3
Fwrd: 3
Oppo Dir Rear: 0
Fwrd: 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: 31
Sewer: 00

247 Lighting Street: 0
Navigation: 0
Aerial: 0

* 248 County Continuity No: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 043-0014-0 **Candler County** SUFF. RATING: 44.5

Programming Data

201	Project No:	SAP 342 (1)
202	Plans Available:	0
249	Prop. Proj No:	BRST-0729 (13)
250	Approval Status:	0000
251	P.I. No:	542401
252	Contract Date:	02/01/2005
260	Seismic No:	00000
75	Type Work:	34 1
94	Bridge Imp. Cost:	$ 511
95	Roadway Imp. Cost:	$ 79
96	Total Imp. Cost:	$ 845
76	Imp. Length:	000805
97	Imp. Year:	1990
114	Future ADT:	001950 Year: 2019

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:	01.6 Br Height: 16.4
222	Slope Protection:	6
221	Spur Dikes Rear:	0 Fwrd: 0
219	Fender System:	0
220	Dolphin:	0
223	Culvert Cover:	000
	Type:	0
	No Barrels:	0
	Width:	0.0
	Height:	0.0
	Length:	0
	Apron:	0
* 265	U/W Insp. Area:	0 Diver: ZZZ

* Location I.D. No: 043-00129D-004.65N
* XReferen I.D. No: 000-000000-000.000

Measurements

* 29	ADT:	001300 Year: 1999
109	% Trucks:	10
* 28	Lanes On:	02 Under: 00
210	No. Tracks On:	00 Under: 00
* 48	Max. Span Length:	0027
* 49	Structure Length:	594
51	Br. Rdwy. Width:	23.8
52	Deck Width:	30.2
* 47	Tot. Horz. Cl:	23.8
50	Curb/Sdewlk Width:	2.0/2.0
32	Approach Rdwy Width:	26
* 229	Shlder Width:	
	Rear Lt: 2.0	Type: 2 Rt: 2.0
	Fwrd Lt: 2.0	Type: 2 Rt: 2.0
	Pvment Width:	
	Rear: 22.0	Type: 2
	Fwrd: 22.0	Type: 2
	Intersection Rear: 0	Fwrd: 0
36	Safety Features Br. Rail:	2
	Transition:	2
	App. G. Rail:	2
	App. Rail End:	2
53	Minimum Cl. Over:	99' 99"
	Under: N	00' 00"
* 228	Min. Vert. Cl	
	Act. Odm. Dir:	99' 99"
	Oppo. Dir:	99' 99"
	Posted Odm. Dir:	00' 00"
	Oppo. Dir:	00' 00"
55	Lateral Undercl. Rt:	N 99.9
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:	6.0
	Deck Thick Approach:	0.0
246	Overlay Thickness:	0.0
211	Tons Structural Steel:	79.0
212	Year Last Painted:	Sup: 1994 Sub: 1994

Ratings

66	Inventory Type:	2	Rating: 13
64	Operating Type:	2	Rating: 29
231	Calculated Loads		
	H-Modified:	15	1
	HS-Modified:	25	0
	Type 3:	27	1
	Type 3s2:	39	0
	Timber:	32	1
	Piggyback:	00	0
261	H Inventory Rating:	10	
262	H Operating Rating:	15	
67	Structural Evaluation:	2	
58	Deck Condition:	7	
59	Superstructure Condition:	7	
* 227	Collision Damage:	0	
60A	Substructure Condition:	6	
60B	Scour Condition:	8	
60C	Underwater Condition:	N	
71	Waterway Adequacy:	8	
61	Channel Protection Cond:	8	
68	Deck Geometry:	3	
69	UnderClr. Horz/Vert:	N	
72	Appr. Alignment:	7	
62	Culvert:	N	

Posting Data

70	Bridge Posting Required:	3
41	Struct Open, Posted, Cl:	P
* 103	Temporary Structure:	T
232	Posted Loads H-Modified:	15
	HS-Modified:	00
	Type 3:	27
	Type 3S2:	00
	Timber:	32
	Piggyback:	00
253	Notification Date:	0000
253	Fed Notify Date:	0000 0

PRECONSTRUCTION STATUS REPORT
FROM TII

PI NUMBER / PROJECT	COUNTY	DESCRIPTION	READY TO LET
542401-	CANDLER	SR 129 @ CANOOCHEE RIVER 4 MI S OF METTER	
BRST-0729(13)	US:		0207

PROJ MGR: T. CASHIN	*APPROVED DATES*	*PE DATE:*	9910	*RW DATE:*	2002	*CST DATE:*	2003
PROG TYPE: REPLACEMENT	*PROPOSED DATES*	*TII PE DATE:*	9910	*TII RW DATE:*	2002	*TII CST DATE:*	2003
CONCEPT:	*APPROVED COSTS*	*PES:*	$5,000	*RW COST:*	$10,000	*CST EST:*	$2,614,000
P.E. PROJECT: BRST-0729(13)	*PROPOSED COSTS*	*TII PES:*	$5,000	*TII RWS:*	$10,000	*TII CSTS*	$2,614,000
		REF PROJ:		*TWIN PROJ:*		*EST DATE:*	4/15/99

LENGTH: 0.31 *NN:* 65.9 *FIELD DIST:* 5 *STATUS:* PRECST *TIP #:* *UAC:* 0 *FUND 1:* Q10

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		DEFINE CONCEPT RPT:			00	
		CONCEPT MEETING:				
		SUB RTP TO ENG SERVICES:				
		REC ENG SERV APPROVAL:				
		MGT APPROV CPT REPORT:			00	
		ENVIRONMENTAL:	7/1/01	12/31/01	00	
		PUBLIC HEARING:				
		PHOTO MAPPING:			01	
		FIELD SURVEY:			00	
		FINAL ALT APPRV:				
		PRELIM FPR HELD:				
		PREL RDWY RW PLANS:			00	
		SECURE 404 PROCESS:			00	
		LOC DZN APPRV:			00	
		FINAL CST PLANS:			00	
		APPRV RW PLANS:			00	
		STAKE RW:			00	
		FINAL FPR HELD:				
		LAB RECV SOIL REQUEST:				
		PREL HYDR PLANS:			00	
		LAB BFI REQUEST:			00	
		BRIDGE PLANS:			00	
		U.S.T.s:			00	
					00	

BIKE PROVISIONS INCLUDED?: *MEASUREMENT SYSTEM:* *CONSULTANT:* C *UT EST:* $0.00

PDD : 4/99 BOARD ADDITION: ASSIGNED TO CONSULTANT TASK FORCE. 5/26/99

PLANNING:

DZN CMT:

UTIL CMT:

LGPA: CANDLER SGN DO UTILITIES 12-4-00.

LOC CMT: BRIDGE

EIS: BS| AIELLO - CONSULT TASK FORCE

404: CONSULTANT TASK FORCE-NW 23 EXPECTED

TS: NO SIGN & MKG PLANS REQ'D KRA 4/29/99 #

ROW:

RR

PITS:

UST CMT:

BR CMT: 3-26 BRIDGE REQUIRED

R/W INFORMATION:

RW STATUS: PRECST *NUMBER OF PARCELS TO BE ACQUIRED:* 4 *ACQUIRED BY:* DOT *ACQMGR:*

UNDER-REVIEW: 0 *RELEASED* 0 *OPT-PEND:* 0 *DEEDS* 0 *COND-PEND* 0 *COND-FILED:* 0

RWCERT:

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 043-0015-0 **Candler County** SUFF. RATING: 44.5

Location & Geography

* Structure I.D. No.: 043-0015-0
200 Bridge Information: 06

* 6A Feature Int.: CANOOCHEE RIVER O/F
* 6B Critical Bridge: 0
* 7A Route Number Carried: SR00129
* 7B Facility Carried: SR 129
* 9 Location: 4 MI S OF METTER
2 DOT District: 5
207 Year Photo: 2000

* 91 Inspection Frequency: 24 Date: 11/02/2000
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: 3
Designator: 1
Number: 00129
Direction: 0

* 16 Latitude: 32-20.3
* 17 Longitude: 82 -03.4

98 Border Bridge: 000 %Shared: 00
99 ID Number: 000000000000000

* 100 Defense Highway: 0
* 101 Parallel Structure: N
* 102 Direction of Traffic: 2
264 Road Inventory Mile Post: 004.83

* 208 Inspection Area: 10 Initials: DLC

* Location I.D. No: 043-00129D-004.83N
* XReferen I.D. No: 000-000000-000.000

* 104 Highway System: 0
* 26 Functional Classification: 07
* 204 Federal Route Type: S No: 00729
* 110 Truck Route: 0
206 School Bus Route: 0
217 Benchmark Elevation: 0.00
218 Datum: 0
* 19 Bypass Length: 7
* 20 Toll: 3
* 21 Maintenance: 01
* 22 Owner: 01
* 31 Design Load: 2
37 Historical Significance: 5
205 Congressional District: 01
* 27 Year Constructed: 1949
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: 2

* 42 Type Service On: 1
Under: 9
214 Movable Bridge: 00
203 Type Bridge: E-N-M-O
259 Pile Encasement: 2
* 43 Structure Type Main: 4 02
45 No. Spans Main: 005
44 Structure Type Appr: 0 0
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: 1
Membrane: 8
Protection: 8

Signs & Attachments

223 Expansion Joint Type: 02
242 Deck Drains: 1

243 Parapet Location: 0
Height: 0
Width: 0

238 Curb: 1.2 1
239 Handrail: 1 1
* 240 Median Barrier Rail: 0

241 Bridge Median Height: 0
Width: 0

* 230 Guardrail Loc Dir Rear: 3
Fwrd: 3
Oppo Dir Rear: 0
Fwrd: 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: 31
Sewer: 00

247 Lighting Street: 0
Navigation: 0
Aerial: 0

* 248 County Continuity No: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 043-0015-0 **Candler County** SUFF. RATING: 44.5

Programming Data

201 Project No: SAP 342 (1)
202 Plans Available: 0
249 Prop. Proj No: BRST-0729 (12)
250 Approval Status: 0000
251 P.I. No: 542402
252 Contract Date: 02/01/2004
260 Seismic No: 00000
75 Type Work: 34 1
94 Bridge Imp. Cost: $ 117
95 Roadway Imp. Cost: $ 44
96 Total Imp. Cost: $ 222
76 Imp. Length: 000346
97 Imp. Year: 1990
114 Future ADT: 001950 Year: 2019

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: 00.7 Br Height: 16.6
222 Slope Protection: 6
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No Barrels: 0
Width: 0.0
Height: 0.0
Length: 0
Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No: 043-00129D-004.83N
* XReferen I.D. No: 000-000000-000.000

Measurements

* 29 ADT: 001300 Year: 1999
109 % Trucks: 10
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0027
* 49 Structure Length: 135
51 Br. Rdwy. Width: 23.7
52 Deck Width: 30.1
* 47 Tot. Horz. Cl: 23.7
50 Curb/Sdewlk Width: 2.0/2.0
32 Approach Rdwy Width: 26
* 229 Shlder Width:
Rear Lt: 2.0 Type: 2 Rt: 2.0
Fwrd Lt: 2.0 Type: 2 Rt: 2.0
Pvment Width:
Rear: 22.0 Type: 2
Fwrd: 22.0 Type: 2
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 2
Transition: 2
App. G. Rail: 2
App. Rail End: 2
53 Minimum Cl. Over: 99' 99"
Under: N 00' 00"
* 228 Min. Vert. Cl
Act. Odm. Dir: 99' 99"
Oppo. Dir: 99' 99"
Posted Odm. Dir: 00' 00"
Oppo. Dir: 00' 00"
55 Lateral Undercl. Rt: N 99.9
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: 7.0
Deck Thick Approach: 0.0
246 Overlay Thickness: 0.0
211 Tons Structural Steel: 19.0
212 Year Last Painted: Sup: 1994 Sub: 1994

Ratings

66 Inventory Type: 2 Rating: 13
64 Operating Type: 2 Rating: 29
231 Calculated Loads
H-Modified: 15 1
HS-Modified: 25 0
Type 3: 27 1
Type 3s2: 40 0
Timber: 32 1
Piggyback: 00 0
261 H Inventory Rating: 10
262 H Operating Rating: 15
67 Structural Evaluation: 2
58 Deck Condition: 7
59 Superstructure Condition: 7
* 227 Collision Damage: 0
60A Substructure Condition: 6
60B Scour Condition: 7
60C Underwater Condition: N
71 Waterway Adequacy: 8
61 Channel Protection Cond: 7
68 Deck Geometry: 3
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 7
62 Culvert: N

Posting Data

70 Bridge Posting Required: 3
41 Struct Open, Posted, Cl: P
* 103 Temporary Structure: T

232 Posted Loads H-Modified: 15
HS-Modified: 00
Type 3: 27
Type 3S2: 00
Timber: 32
Piggyback: 00
253 Notification Date: 0000
253 Fed Notify Date: 0000 0

PRECONSTRUCTION STATUS REPORT
FROM TII

PI NUMBER / PROJECT	COUNTY	DESCRIPTION	READY TO LET
542402-	CANDLER	SR 129 @ CANOOCHEE RIVER O/F 4 MI S OF METTER	0207
BRST-0729(12)	US:		

PROJ MGR: T. CASHIN	APPROVED DATES	PE DATE:	9910	RW DATE:	2002	CST DATE:	2003
PROG TYPE: REPLACEMENT	PROPOSED DATES	TII PE DATE:	9910	TII RW DATE:	2002	TII CST DATE:	2003
CONCEPT:	APPROVED COSTS	PES:	$5,000	RW COST:	$10,000	CST EST:	$593,000
P.E. PROJECT: BRST-0729(12)	PROPOSED COSTS	TII PES:	$5,000	TII RWS:	$10,000	TII CSTS	$593,000
		REF PROJ:		TWIN PROJ:		EST DATE:	4/15/99

LENGTH: 0.22 NN: 65.9 FIELD DIST: 5 STATUS: PRECST TIP #: UAC: 0 FUND I: Q10

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		DEFINE CONCEPT RPT:			00	
		CONCEPT MEETING:				
		SUB RTP TO ENG SERVICES:				
		REC ENG SERV APPROVAL:				
		MGT APPROV CPT REPORT:			00	
		ENVIRONMENTAL:	7/1/01	12/31/01	00	
		PUBLIC HEARING:				
		PHOTO MAPPING:			01	
		FIELD SURVEY:			00	
		FINAL ALT APPRV:				
		PRELIM FPR HELD:				
		PREL RDWY RW PLANS:			00	
		SECURE 404 PROCESS:			00	
		LOC DZN APPRV:			00	
		FINAL CST PLANS:			00	
		APPRV RW PLANS:			00	
		STAKE RW:			00	
		FINAL FPR HELD:				
		LAB RECV SOIL REQUEST:				
		PREL HYDR PLANS:			00	
		LAB BFI REQUEST:			00	
		BRIDGE PLANS:			00	
		U.S.T.s:			00	
					00	

BIKE PROVISIONS INCLUDED?: MEASUREMENT SYSTEM: CONSULTANT: C UT EST: $0.00

PDD : 4/99 BOARD ADDITION: ASSIGNED TO CONSULTANT TASK FORCE 4/30/99

PLANNING:

DZN CMT:

UTIL CMT:

LGPA: CANDLER SGN UTILITIES 7-14-99.

LOC CMT: BRIDGE

EIS: BS| AIELLO - CONSULT TASK FORCE

404: CONSULTANT TASK FORCE-NW 23 EXPECTED

TS: NO SIGN & MKG PLANS REQ'D KRA 4/29/99 #

ROW:

RR

PITS:

UST CMT:

BR CMT: 3-28 3-27 BRIDGE REQUIRED

R/W INFORMATION:

RW STATUS: PRECST NUMBER OF PARCELS TO BE ACQUIRED: 4 ACQUIRED BY: DOT ACQMGR:

UNDER-REVIEW: 0 RELEASED 0 OPT-PEND: 0 DEEDS 0 COND-PEND 0 COND-FILED: 0

RWCERT:

FLEXIBLE PAVEMENT DESIGN ANALYSIS

Project: BRST-0729(13) **County:** Candler
P.I. no.: 542401
Description: Bridge replacement for 2 lane rural SR129 over Canoochee River

Traffic Data (NOTE: AADTs are one-way)
24-hour Truck Percentage: 7.00%
AADT initial year of design period: 875 vpd (2005)
AADT final year of design period: 1,500 vpd (2025)
Mean AADT (one-way): 1,188 vpd

Design Loading

Mean AADT		LDF		Trucks		18-K ESAL		Total Daily Loads
1,188	*	1.00	*	0.070	*	0.95	=	80

Total predicted design period loading = 80 * 20 * 365 = 584,000

Design Data
Terminal Serviceability Index: 2.50
Soil Support: 4.00
Regional Factor: 1.40

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness mm	Thickness (in.)	Structural Coefficient	Structural Value
12.5 mm Superpave	40	(1.57)	0.0173	0.69
19 mm Superpave	50	(1.97)	0.0173	0.86
25 mm Superpave	24	(0.94)	0.0173	0.42
	51	(2.01)	0.0118	0.60
Graded Aggregate Base	200	(7.87)	0.0063	1.26

Required SN = 3.33 Proposed SN = 3.83

>>> Proposed pavement is 15.0% Overdesign <<<

Remarks:

Prepared by Carol A. Bowler, P.E. Director of Transportation Design
March 19, 2001
Date

Recommended _____
State Road Design Engineer **Date**

Approved _____
Chief Engineer **Date**

Project: BRST-0729(12) **County:** Candler
P.I. no.: 542402
Description: Bridge replacement for 2 lane rural SR129 over Canoochee R O/flow

Traffic Data (NOTE: AADTs are one-way)
24-hour Truck Percentage: 7.00%
AADT initial year of design period: 875 vpd (2005)
AADT final year of design period: 1,500 vpd (2025)
Mean AADT (one-way): 1,188 vpd

Design Loading

Mean AADT		LDF		Trucks		18-K ESAL		Total Daily Loads
1,188	*	1.00	*	0.070	*	0.95	=	80

Total predicted design period loading = 80 * 20 * 365 = 584,000

Design Data
Terminal Serviceability Index: 2.50
Soil Support: 4.00
Regional Factor: 1.40

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness mm	Thickness (in.)	Structural Coefficient	Structural Value
12.5 mm Superpave	40	(1.57)	0.0173	0.69
19 mm Superpave	50	(1.97)	0.0173	0.86
25 mm Superpave	24	(0.94)	0.0173	0.42
	51	(2.01)	0.0118	0.60
Graded Aggregate Base	200	(7.87)	0.0063	1.26

Required SN = 3.33 Proposed SN = 3.83

>>> Proposed pavement is 15.0% Overdesign <<<

Remarks:

Prepared by Carol A. Bowler, P.E. Director of Transportation Design
March 19, 2001
Date

Recommended _____
State Road Design Engineer **Date**

Approved _____
Chief Engineer **Date**

NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. BRST-0729(13) ~~& (12)~~
P.I. No. 542401 and ~~542402~~

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 S.R. 129 over Canoochee River and Overflow, located in Candler County, Georgia Military Districts 1685 and 1737. The improvement project includes replacing the existing bridges over the Canoochee River and Overflow.

Date of Location Approval: MAY 29, 2001

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. Any interested party may obtain a copy of the drawings or maps or plats by writing to the Georgia Department of Transportation, No. 2 Capital Square, Atlanta, Georgia 30334 and paying a nominal cost thereof.

Any written request in reference to this Notice SHOULD include the PROJECT AND P.I. NUMBERS AS NOTED AT THE TOP OF THIS NOTICE AND may by referenced to:

James R. Chambers
Georgia Department of Transportation
No. 2 Capital Square
Atlanta, Georgia 30334

Concept Team Meeting Minutes
Project No. BRST-0729(13) & (12) Candler County
SR 129 Bridge over Canoochee River and Overflow Bridge Replacements
P.I. No. 542401 & 542402

Meeting Date: 12 April 2001

Persons in Attendance:

Donnie Boyd	GDOT - District 5	(912) 370-2712
Dennis Odom	GDOT - Jesup Road Design	(912) 427-5716
Howell Clements	GDOT - Utilities Office	(912) 427-5779
Franklin Lama	GDOT - District 5	
Stephen Thomas	GDOT - Utilities Office	(912) 427-5754
Tony Collins	GDOT - District 5	(912) 427-5715
Teresa Scott	GDOT - District 5	(912) 427-5788
Jerome Sheffield	GDOT - District 5	(912) 427-5733
Brad Saxon	GDOT - Statesboro	(912) 871-1108
Ted Cashin	GDOT - OCD	(404) 463-6135
Carol Bowler	Wilbur Smith Associates	(770) 936-8650
Matthew Goette	Wilbur Smith Associates	(770) 936-8650

Purpose:
The purpose of BRST-0729(13)&(12) is to replace the structurally deficient bridges over Canoochee River and Overflow with structurally adequate bridges to improve the operation and safety of this section of SR 129.

The following comments were made:

GDOT Utilities: Stephen Thomas and Howell Clements both commented on the possibility of moving the proposed alignment to the west side of the existing alignment. The comments spawned from a concern over the expense and process of moving the power poles located on the east side of SR 129. It was added that each pole would cost $7,000 to move and that more poles would have to be installed due to a decrease in maximum allowable span of an overhead power line. Also noted was the fact that clearing would have to occur in order to relocate the poles. The poles will have to be relocated before bridge construction. Howell Clements also inquired to the existence of any utility line running under the bridge. This matter was investigated and it was found that there are indeed 2 telephone cables running underneath the west side of the bridge.
GDOT District 5: Jerome Sheffield pointed out that there will be a conflict between the existing guardrail and the construction of the proposed guardrail before the Canoochee River and after the Overflow Bridge. A suggestion of taking out the existing guardrail and placing temporary barrier wall in its place during the construction phase was offered as a solution. Mr. Sheffield pointed out concerns both about safety and staging issues due to the temporary barrier. Also noted was that shifting the road alignment would involve more of the wetland area. If the bridge hydraulics allow, simply replacing the bridge would prove to be cheaper, more environmentally friendly, and just all around a better

plan of action. Mr. Sheffield's last comment was that the alternative of a detour bridge was not to be considered due to the expense of the detour bridge and that it extends construction time by six months or more. Donnie Boyd made the suggestion that shifting the alignment to the west side would clear up all access issues. This shift would result in extending the job in order to flatten out the horizontal curve at the north end of the project. Also, the implementation of the west alignment would reduce the utility cost considerably. (No power pole relocations necessary.) Tony Collins made an observation about the typical section. The slope control table should be referenced properly on the typicals. The typical section was approved by all in attendance.

GDOT – Jesup Road Design: Dennis Odom made the comment to ensure that there is adequate tangent length in the area of the road where there is superelevation.

GDOT-OCD: Ted Cashin made the comment that the shift of the alignment to the west side of the existing alignment may not be justifiable due to the extra cost of the added length of the project. Also, the comment was made to procure a copy of the detail for state routes and county road resurfacing if there is to be a detour on such roads during the construction phase.

GDOT – Statesboro: No Comment

CONCEPT MEETING SIGN-IN SHEET

Project No. BRST-0729(13) & (12) Candler County
SR 129 over Canoochee River and Overflow Bridge Replacements
P.I. No. 542401 & 542402
12-Apr-01

Name	Organization	Phone No.
Donnie Boyd	D.O.T	912-370-2712
Dennis Odom	D.O.T. Jesup Road Design	912-427-5716
Howell Clements	" Utilities Office	912-427-5779
Franklin Lama	DOT	
Stephen Thomas	GDOT - Utilities	427-5754
Tony Collins	DOT	427-5715
Teresa Scott	DOT	427-5788
Jerome Sheffield	DOT	427-5733
Brad Saxon	DOT - Statesboro	912-871-1108
Ted Cashin	DOT - OCD	404-463-6135
Carol A Bowler	Wilbur Smith Assoc.	770-936-8650
Matthew E. Goette	Wilbor Smith Assoc.	(770)936-8650

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design
Project Concept Report

Project Number: BRST-0729 (13) & (12)
County: Candler
P. I. Number: 542401 and 542402

Federal Route Number: N/A
State Route Number: 129

Recommendation for approval

DATE May 4, 2001 _____
Ted Cashin, P.E. Project Manager

DATE _____ _____
State Consultant Design Engineer

The concept as presented here in 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 Transportation Programming Engineer

DATE _____ _____
State Environmental/Location Engineer

DATE _____ _____
State Traffic Operations Engineer

DATE _____ _____
District Engineer

DATE 5/10/01 _____
Project Review Engineer

DATE _____ _____
Other Offices as required such as; Bridge Design

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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design
Project Concept Report

Project Number: BRST-0729 (13) & (12)
County: Candler
P. I. Number: 542401 and 542402

Federal Route Number: N/A
State Route Number: 129

Recommendation for approval

DATE May 4, 2001 _____
Ted Cashin, P.E. Project Manager

DATE _____
State Consultant Design Engineer

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DATE _____
State Transportation Planning Administrator

DATE _____
State Transportation Programming Engineer

DATE _____
State Environmental/Location Engineer

DATE 5/11/01
Marion Hubbard
State Traffic Operations Engineer

DATE _____
District Engineer

DATE _____
Project Review Engineer

DATE _____
Other Offices as required such as; Bridge Design

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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design
Project Concept Report

Project Number: BRST-0729 (13) & (12)
County: Candler
P. I. Number: 542401 and 542402

Federal Route Number: N/A
State Route Number: 129

Recommendation for approval

DATE May 4, 2001 _____
Ted Cashin, P.E. Project Manager

DATE _____ _____
State Consultant Design Engineer

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DATE _____ _____
State Transportation Planning Administrator

DATE _____ _____
State Transportation Programming Engineer

DATE _____ _____
State Environmental/Location Engineer

DATE _____ _____
State Traffic Operations Engineer

DATE _____ _____
District Engineer

DATE _____ _____
Project Review Engineer

DATE May 17, 2001 Paul V. Liles Jr.
Other Offices as required such as; Bridge Design

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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design
Project Concept Report

Project Number: BRST-0729 (13) & (12)
County: Candler
P. I. Number: 542401 and 542402

Federal Route Number: N/A
State Route Number: 129

Recommendation for approval

DATE May 4, 2001 _____ Ted Cashin, P.E. Project Manager

DATE _____ _____ State Consultant Design Engineer

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DATE _____ _____ State Transportation Planning Administrator

DATE _____ _____ State Transportation Programming Engineer

DATE _____ _____ State Environmental/Location Engineer

DATE _____ _____ State Traffic Operations Engineer

DATE 5/15/01 Gary A. Pitt _____ District Engineer

DATE _____ _____ Project Review Engineer

DATE _____ _____ Other Offices as required such as; Bridge Design

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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design
Project Concept Report

Project Number: BRST-0729 (13) & (12)
County: Candler
P. I. Number: 542401 and 542402

Federal Route Number: N/A
State Route Number: 129

Recommendation for approval

DATE May 4, 2001 _____ _____
Ted Cashin, P.E. Project Manager

DATE _____ _____
State Consultant Design Engineer

The concept as presented here in 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 5-30-01 Marta V. Koonce
State Transportation Planning Administrator

DATE _____ _____
State Transportation Programming Engineer

DATE _____ _____
State Environmental/Location Engineer

DATE _____ _____
State Traffic Operations Engineer

DATE _____ _____
District Engineer

DATE _____ _____
Project Review Engineer

DATE _____ _____
Other Offices as required such as; Bridge Design

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