ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE	P. I. No. 232310-, Lincoln County BRST-076-1(36) SR 47 over Little River-Bridge Replacement	**OFFICE**	Preconstruction
		DATE	September 1, 2006

FROM Genetha Rice-Singleton, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

GRS/cj

Attachment

DISTRIBUTION:

Brian Summers
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Paul Liles
Babs Abubakari
Mike Thomas
BOARD MEMBER

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No. 232310-, Lincoln County
BRST-076-1(36)
SR 47 over Little River Bridge Replacement

OFFICE Preconstruction

DATE August 24, 2006

FROM Genetha Rice-Singleton, Assistant Director of Preconstruction

TO David E. Studstill, Jr., P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a functionally obsolete and structurally deficient bridge on SR 47 over Lake Strom Thurmond/Little River, 10.5 miles southeast of Lincolnton, Georgia. The existing 724' x 29.5' bridge was built in 1952 and has a sufficiency rating of 49. The bridge consists of a steel truss system with a reinforced concrete deck and steel beam underneath. State Route 47 is a two lane highway that connects the cities of Lincolnton and Evans. Traffic is projected to be 4772 VPD and 8637 VPD in the years 2010 and 2030 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 47 approximately 31'-35' east of its existing location, extending a total of 1.64 miles. The proposed new structure will be 724' x 44' and will be located just east of the existing bridge structure. The relocated SR 47 will consist of one, 12' travel lane in each direction with 10' grassed shoulders (4' paved). The shoulders will be widened to 15.5' to accommodate guardrail as needed. Since this portion of SR 47 is located within the boundaries of Lake Thurmond, the project terminus was established using engineering judgement as to what roadway improvements are necessary to relocate SR 47 and meet all AASHTO green book criteria. Also, context sensitive design was considered by designing the new alignment of SR 47 to flow similar to the existing alignment in order for the route to appear the same as it currently does. This will maintain the visual impacts that the bridge has on this area. Traffic will be maintained on the existing alignment during construction.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing open house is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	FUNDING	PROG DATE
Construction (includes E&C and inflation)	$13,896,000	$13,896,000	LICO	LR
Right-of-Way	$ 88,000	$ 88,000	LICO	LR
Utilities*	LGPA	LGPA		

P. I. No. 232310-, Lincoln
August 24, 2006

*Lincoln County signed LGPA for utilities 2-7-06

I recommend this project concept be approved.

GRS:JDQ/cj

Attachment

CONCUR_____
Todd I. Long, P.E., Director of Preconstruction

APPROVE_____
David E. Studstill, Jr., P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

AUG 16 2006

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-076-1(36) Lincoln
P.I. No. 232310
Bridge Replacement SR 47 over Little River

OFFICE: Engineering Services

DATE: August 15, 2006

FROM: Brian K. Summers, P.E., Project Review Engineer

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

SUBJECT: **CONCEPT REPORT**

We have reviewed the Concept Report received August 11, 2006 from Alan Smith, and have the following comments.

The first Need and Purpose paragraph should include the following.

The bridge has a high risk of vulnerability to damage by over-height vehicles that could result in complete bridge failure.

The costs for this project are:

Construction	$12,633,178
E & C	$1,263,317
Right of Way	$87,800

The cost of construction should be increased to include the cost of drilled shafts or cofferdams since this is a large lake bridge. The bridge unit cost should be increased from $100/SF to $150/SF. Inflation costs should also be included at 5% for four years = $2,779,299.

BKS

c: Mike Thomas, Attn.: Alan Smith

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: *BRST-076-1 (36)*
County: *Lincoln*
P. I. Number: *232310*

Federal Route Number: *None*
State Route Number: *47*
County Road Number: *None*

Recommendation for approval:

DATE 8-10-06 _____ Project Manager

DATE 8-10-06 _____ District Engineer

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

DATE _____ _____ State Transportation Planning Administrator

DATE _____ _____ State Transportation Programming Engineer

DATE _____ _____ State Environmental/Location Engineer

DATE _____ _____ State Traffic Safety and Design Engineer

DATE 8/15/06 _____ Project Review Engineer

DATE _____ _____ State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: *BRST-076-1 (36)*
County: *Lincoln*
P. I. Number: *232310*

Federal Route Number: *None*
State Route Number: *47*
County Road Number: *None*

Recommendation for approval:

DATE 8-10-06 _____ Project Manager

DATE 8-10-06 _____ District Engineer

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

DATE _____ _____ State Transportation Planning Administrator

DATE _____ _____ State Transportation Programming Engineer

DATE _____ _____ State Environmental/Location Engineer

DATE 8-29-06 _____ State Traffic Safety and Design Engineer

DATE _____ _____ Project Review Engineer

DATE _____ _____ State Bridge & Structural Design Engineer

SCORING RESULTS AS PER MOG 2440-2

Project Number:	County:	PI No.:
BRST-076-1(36)	Lincoln	232310

Report Date:	Concept By:
August 10, 2006	DOT Office: District 2
☒ Concept Stage	

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

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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: *BRST-076-1 (36)*
County: *Lincoln*
P. I. Number: *232310*

Federal Route Number: *None*
State Route Number: *47*
County Road Number: *None*

Recommendation for approval:

DATE 8-10-06 _____ Project Manager

DATE 8-10-06 _____ District Engineer

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

DATE 8/11/06 _____ State Transportation Planning Administrator

DATE _____ _____ State Transportation Programming Engineer

DATE _____ _____ State Environmental/Location Engineer

DATE _____ _____ State Traffic Safety and Design Engineer

DATE _____ _____ Project Review Engineer

DATE _____ _____ State Bridge & Structural Design Engineer

NOTICE OF LOCATION AND DESIGN APPROVAL

BRST-076-1 (36) Lincoln County
P.I. # 232310

Notice is hereby given in compliance with Georgia Code 22-22-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of location and design approval was SEPTEMBER 1, 2006
Date of Approval

This project consists of the REPLACEMENT OF THE structurally deficient bridge on SR 47 at Little River on the Columbia / Lincoln county line. Traffic will be maintained on the existing bridge while the new bridge is constructed to the west of the existing bridge on new alignment. The roadway typical section will consist of 2 – 12-ft. asphalt travel lanes with 10-ft. grassed shoulders, 4-ft. of each to be paved. Drawings of the proposed project are on file and are available for inspection at the Georgia Department of Transportation.

Scott Stephens
Scott.Stephens@dot.state.ga.us
4260 Frontage Road
Augusta, Georgia 30909

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:

GEORGE M. BREWER
PRECONSTRUCTION ENGINEER
P.O. BOX 8
TENNILLE, GEORGIA 31089
478-552-4629

Any written request or communication in reference to this project **SHOULD** include the Project and PI numbers as noted at the top of this notice.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: *BRST-076-1 (36)*
County: *Lincoln*
P. I. Number: *232310*

Federal Route Number: *None*
State Route Number: *47*
County Road Number: *None*

Recommendation for approval:

DATE 8-10-06 _____ Project Manager

DATE 8-10-06 _____ District Engineer

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

DATE _____ _____ State Transportation Planning Administrator

DATE 8/25/06 _____ State Transportation Programming Engineer

DATE _____ _____ State Environmental/Location Engineer

DATE _____ _____ State Traffic Safety and Design Engineer

DATE _____ _____ Project Review Engineer

DATE _____ _____ State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

Project Number: *BRST-076-1 (36)*
County: *Lincoln*
P. I. Number: *232310*

Federal Route Number: *None*
State Route Number: *47*
County Road Number: *None*

Recommendation for approval:

DATE 8-10-06 _____
Project Manager

DATE 8-10-06 _____
District Engineer

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

DATE _____ _____
State Transportation Planning Administrator

DATE _____ _____
State Transportation Programming Engineer

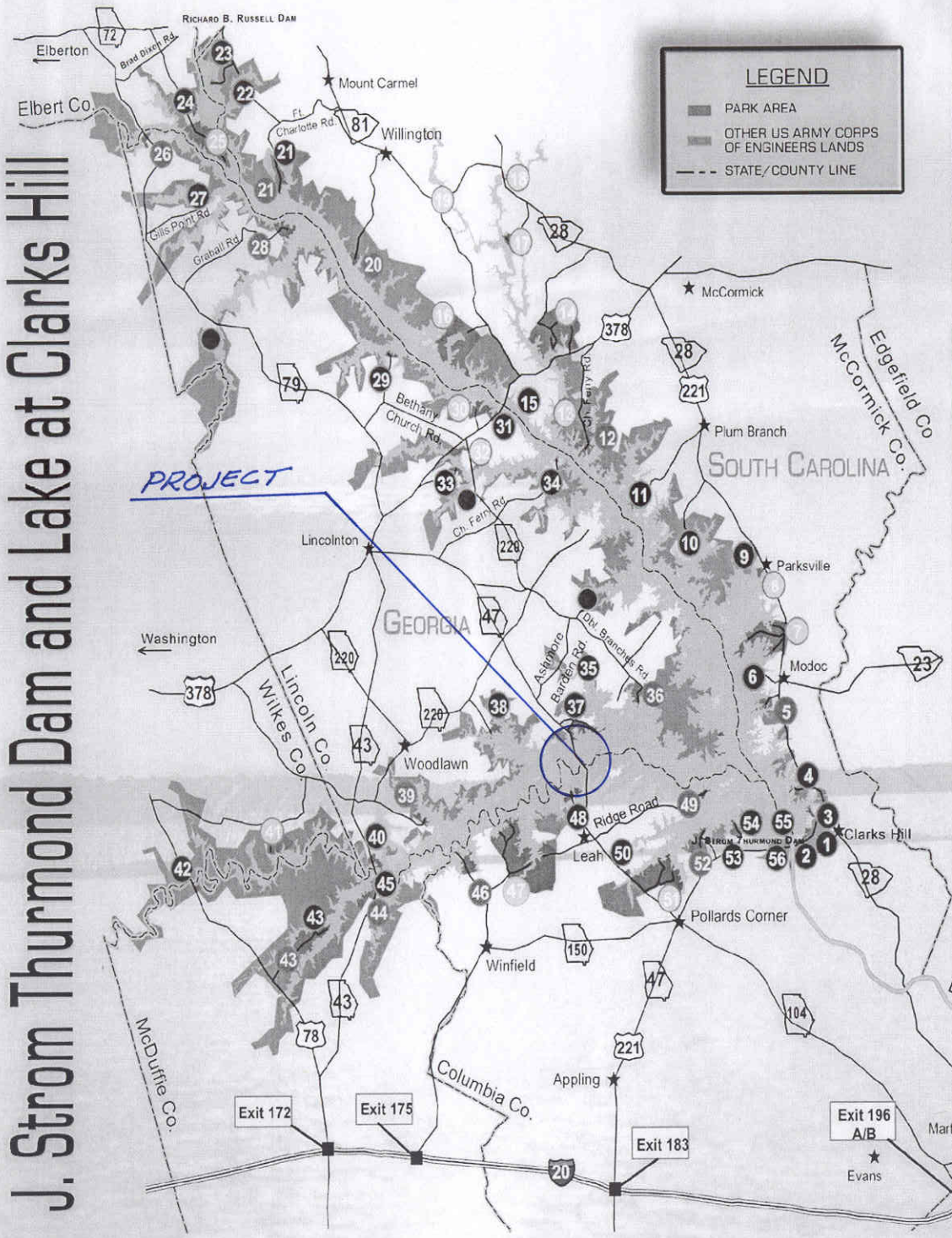
DATE _____ _____
State Environmental/Location Engineer

DATE _____ _____
State Traffic Safety and Design Engineer

DATE _____ _____
Project Review Engineer

DATE _____ _____
State Bridge & Structural Design Engineer

J. Strom Thurmond Dam and Lake at Clarks Hill



LEGEND

- PARK AREA
- OTHER US ARMY CORPS OF ENGINEERS LANDS
- STATE/COUNTY LINE

CORPS CAMPGROUNDS

	South Carolina	Fee Area	Boat Ramp	Group Shelter	Sanitary Dumping Station	Electrical Hookups	Drinking Water	Beach	Playground	Picnic Table	Showers Bathhouse	Pump Out Station
5	Modoc (864) 333-2272	●	●		●	●	●		●		●	
12	Hawe Creek (864) 443-5441	●	●		●	●	●				●	
20	Leroys Ferry	●	●				●					
21	Mount Carmel (864) 391-2711	●	●		●	●	●				●	
	Georgia	>>> FOR CAMPGROUND RESERVATIONS, CALL 1-877-444-6777 <<<										
20	Broad River (706) 359-2053	●	●		●	●	●				●	●
28	Hesters Ferry (706) 359-2746	●	●		●	●	●				●	
33	Bussey Point	●	●				●			●		
35	Clay Hill (706) 359-7495	●	●		●	●	●				●	
36	Big Hart (706) 595-8613	●	●	●	●	●	●	●	●		●	●
37	Raysville (706) 595-6750	●	●		●	●	●				●	●
40	Winfield (706) 541-0147	●	●		●	●	●	●	●		●	
43	Ridge Road (706) 541-0282	●	●		●	●	●	●	●		●	●
45	Petersburg (706) 541-0464	●	●	●	●	●	●	●	●	●	●	●

DAY USE AREAS & BOAT RAMPS

	South Carolina	Fee Area	Boat Ramp	Picnic Grounds	Group Shelter	Fish Cleaning	Fishing Pier	Playground	Hiking Trails	Beach	Restrooms	Country Store
1	Visitor Center										●	
2	Below Dam S.C.	●	●	●	●	●	●	●			●	
3	Clarks Hill Park	●	●	●	●	●	●			●	●	●
4	Scotts Ferry Ramp	●	●								●	●
5	Modoc Ramp	●	●									●
9	Parksville	●	●	●	●	●		●		●	●	●
10	Dordan Creek Ramp	●	●								●	●
21	Mt. Carmel Ramp	●	●								●	
22	Mt. Pleasants Ramp		●								●	
23	Calhoun Falls Ramp		●				●					
	Georgia	>>> ● ADDITIONAL DNR AND COUNTY RAMPS <<<										
26	Merrahs Ramp	●	●								●	●
27	Gill Point	●	●	●	●					●	●	●
28	Murry Creek Ramp		●									
31	Parkway Ramp		●									
34	Chamberlain Ferry Ramp		●									
35	Double Branches Ramp		●									
37	Cherokee	●	●	●	●	●		●		●	●	●
38	Leathersville Ramp		●								●	
40	Amity	●	●	●	●	●	●	●		●	●	●
42	Little River GA		●									
43	Big Hart	●	●	●	●	●		●		●	●	●
50	Keg Creek Ramp	●	●								●	●
54	Lake Springs	●	●	●	●	●	●	●	●	●	●	●
55	West Dam	●		●	●			●	●	●	●	
56	Below Dam G.A.		●								●	

COMMERCIAL MARINAS

11	Plum Branch Yacht Club (864) 443-3000	SC
15	Savannah Lakes Marina (864) 391-3477	SC
41	Little River Marina (706) 541-1358	GA
38	Soap Creek Marina (706) 359-3124	GA
45	Raysville Marina (706) 595-5582	GA
58	Tradewinds Marina (706) 541-1380	GA

US Army Corps of Engineers
Savannah District

Think!

STATE PARKS

7	Hamilton Branch State Park (864) 333-2233	SC
13	Baker Creek State Park (864) 443-5856	SC
19	Hickory Knob State Park (864) 391-2450	SC
29	Bobby Brown State Park (706) 213-2046	GA
39	Elijah Clarke State Park (706) 359-3458	GA
57	Mistletoe State Park (706) 541-0321	GA

COUNTY PARKS

8	Parksville Wayside	SC
16	Dorn Fishing Facility (864) 465-2921	SC
32	Eddie Fletcher Memorial Park	GA
46	Holiday Park	GA
49	Wildwood Park (706) 541-0586	GA

U.S. FOREST SERVICE

17	Long Cane Creek (803) 637-5396	SC
18	Highway 28 Access	SC
14	Little River Quarry	SC

Need and Purpose: *The existing 724-ft x 29.5-ft. bridge at this location was built in 1952 and has a sufficiency rating of 49.79. It is compiled of a steel truss system with a reinforced concrete deck with steel beams underneath. As per GDOT policy, once a bridge has a sufficiency rating of less than 50.00 it is to be evaluated for replacement. This bridge has been deemed functionally obsolete due to the narrow width and structurally deficient.*

SR 47 is a 2-lane highway that connects the Cities of Lincolnton and Evans. It is a medium to heavy state route with a Functional Classification of Rural Arterial. This particular portion of SR 47 is located on Lake Strom Thurmond and the bridge is located over Little River on the Lincoln / Columbia County line. The traffic is comprised of a mixture of light vehicles and trucks with school buses, tractor - trailors and emergency vehicles. SR 47 serves as a commuter route for local traffic as well as recreational users of Lake Thurmond during the summer months. SR 47 has 100-ft of existing right of way (50-ft. each side).

Since this portion of SR 47 is located within the water boundaries of Lake Thurmond, the project terminus was established using engineering judgement as to what roadway improvements are necessary to relocate SR 47 and meet all AASHTO Green Book criteria. Also, context sensitve design was considered by designing the new alignment of SR 47 to flow as similar to the existing alignment in order for the route to appear the same as it currently does. This will maintain the visual impacts that the bridge has to this area.

The need currently exists to replace the structurally deficient bridge and provide a wider bridge at this location. The purpose of this project is to replace this bridge and provide a safer route in this area for all users.

Description of the proposed project: *Alternate "A" - This project consist of the replacement of the structurally deficient bridge on SR 47 over Little River. The roadway will consists of 1-12-ft. asphalt travel lane in each direction with 10-ft. grassed shoulders each side (4-ft. of each to be paved). The shoulders will be widened to 15'6" to accommodate guardrail as needed. The new bridge will be constructed on new alignment approximately 31-ft. to 35-ft. to the east of the existing bridge. Traffic will be maintained on the existing alignment during construction.*

Is the project located in a Non-attainment area? ☐ **Yes** ☒ **No**

PDP Classification: ☒ Minor ☐ Major

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

Functional Classification: *Rural Minor Arterial*

U. S. Route Number(s): *None* **State Route Number(s):** *47*
County Road Number(s): *None*

Traffic (AADT):

Current Year: *4772 (2010)* Design Year: *8637 (2030)*

Existing design features:

- Typical Section: *1 - 12-ft. asphalt travel lane in each direction with 6-ft. grassed shoulders each side (2-ft. of each is paved)*
- Posted speed: *55 MPH* Minimum Radius of curvature: *2800-ft.*
- Maximum grade: *3%*
- Width of right of way: *100-ft. (50-ft. each side of centerline)*
- Major structures: *724-ft. x 29.5-ft. Reinforced Concrete Bridge*
  Sufficiency Rating: 49.79
- Major interchanges or intersections along the project: *None*
- Existing length of roadway: *1.64 Miles*

Proposed Design Features:

- Proposed typical section(s): *1- 12-ft. asphalt travel lane in each direction with 10-ft. grassed shoulders (4-ft. of each to be paved with rumble strips)*
- Proposed Design Speed Mainline: *55 MPH*
- Proposed Maximum grade Mainline: *5%*
- Maximum grade allowable Mainline: *5%*
- Proposed Maximum grade Side Street: *NA*
- Maximum grade allowable on Side Streets: *NA*
- Proposed Maximum grade driveway: *11%*
- Proposed Minimum Radii of curve: *2800-ft.*
- Minimum Radii allowable: *1060-ft.*
- Right of way
  - Width: *An additional 0-ft to 120-ft. of right of way will be required on the east side of SR 47. An additional 25-ft. of right of way will be required on the west side of SR 47 in some areas.*
  - Easements: Temporary ☐, Permanent ☐, Utility ☐, Other ☐.
  - Type of access control: Full ☐, Partial ☐, By Permit ☐, Other ☐.
  - Number of parcels: *2* Number of displacements: *0*
    - Business: *0*
    - Residences: *0*
    - Mobile homes: *0*
    - Other: *0*
- Structures:
  - Bridges: *Proposed 724-ft. x 44-ft. Reinforced Concrete Bridge*
  - Retaining walls: *None*
- Major intersections and interchanges: *None*
- Traffic control during construction: *Alternate "A" - Traffic will be maintained on existing SR 47 during construction.*

- Design Exceptions to controlling criteria anticipated:

	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	☐	☐	☒
ROADWAY WIDTH:	☐	☐	☒
SHOULDER WIDTH:	☐	☐	☒
VERTICAL GRADES:	☐	☐	☒
CROSS SLOPES:	☐	☐	☒
STOPPING SIGHT DISTANCE:	☐	☐	☒
SUPERELEVATION RATES:	☐	☐	☒
HORIZONTAL CLEARANCE:	☐	☐	☒
SPEED DESIGN:	☐	☐	☒
VERTICAL CLEARANCE:	☐	☐	☒
BRIDGE WIDTH:	☐	☐	☒
BRIDGE STRUCTURAL CAPACITY:	☐	☐	☒

- Design Variances: *None Anticipated*
- Environmental concerns: *This project is located on Lake Thurmond which is a Reservoir and a publicly used recreation facility. Also, the existing bridge was built in 1952 which makes it historic. Some endangered species may be in area. All of the right of way required will be acquired from the U.S.C.O.E.*

- Anticipated Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes ☒, No ☐,
  - Categorical exclusion ☒,
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ☐, or
  - Environmental Impact Statement (EIS) ☐.

- Utility involvements:
  - Telephone - *BellSouth Telecommunications, Inc.*
  - *Power – Georgia Power Company*
  - *Water – Columbia County*
  - *Sewer – Columbia County*
  - *Gas – Atlanta Gas Light Company*
  - *Cable TV – Comcast - Knology*

Project responsibilities:

- Design: *GDOT District Two*
- Right of Way Acquisition: *GDOT District Two*
- Relocation of Utilities: *GDOT District Two*
- Letting to contract: *GDOT Contracts Administration*
- Supervision of construction: *GDOT Augusta Area Engineer's Office*
- Providing material pits: *In Contract*
- Providing detours: *NA*

Coordination

- Concept meeting date: *8-9-06*
- P. A. R. meetings: *None Required*
- FEMA, USCG, and/or TVA: *Lincoln County does not participate in the FIRM program. However, Columbia County does*
- Public involvement: *None*

- Local government commitments: *The local governments will be asked to relocate facilities that they own only.*
- Other projects in the area: *232305 Columbia - 231350 Columbia*

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: *1 Year*
- Time to complete preliminary construction plans: *1 Year*
- Time to complete right of way plans: *6 Months*
- Time to complete the Section 404 Permit: *1 Year*
- Time to complete final construction plans: *6 Months*
- Time to complete to purchase right of way: *1 Year*

Other alternates considered:

1. *Alternate "B" - Off Site Detour - This alternate was studied and it was found that there is not another bridge crossing Lake Thurmond within a reasonable distance for an off-site detour. The long travel distances would greatly hinder emergency vehicle response and commuter traffic which would cause local support to be diminished.*
2. *Alternate "C" - Realignment w/o Staging - This alternate was considered and found to be cost prohibitive ($26,967,901.00) because the project length would be increased to 1.32 miles in order to properly tie into existing SR 47 and cause a great deal of Rock Embankment to be required.*
3. *Alternate "D" - Realignment w/o Staging and 3600-ft. Long Bridge - This alternate was studied to compare a longer bridge cost vs. rock embankment with the same alignment as stated in Alternate "C". This alternate was also found to be cost prohibitive ($34,891,000.00) due to increased bridge costs.*

Comments: *This office recommends that Alternate "A" of this Concept Report be approved for implementation as written.*

Attachments:

1. Cost Estimates:
    a. Construction including E&C,
    b. Utilities
    c. Right of Way
2. Typical section
3. Location and Design Notice

Estimate Report for file "232310-AltA"

Section Roadway - Project Length 1.64 Miles

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	500000.00	TRAFFIC CONTROL - BRST-076-1(36)	500000.00
201-1500	1	LS	90000.00	CLEARING & GRUBBING -	90000.00
205-0001	8800	CY	3.18	UNCLASS EXCAV	27984.00
206-0002	101812	CY	5.19	BORROW EXCAV, INCL MATL	528404.28
208-0200	180345	CY	29.06	ROCK EMBANKMENT	5240825.70
310-1201	29655	TN	20.99	GR AGGR SUBBASE CRS, INCL MATL	622458.45
318-3000	250	TN	15.84	AGGR SURF CRS	3960.00
400-3101	3725	TN	55.00	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL,	204875.00
402-1812	300	TN	46.00	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	13800.00
402-3111	4965	TN	50.00	RECYCLED ASPH CONC 19 MM MIX, GP 1 OR 2, INCL BITUM MATL &	248250.00
402-3121	9928	TN	52.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	516256.00
413-1000	3615	GL	1.09	BITUM TACK COAT	3940.35
433-1100	294	SY	107.71	REINF CONC APPROACH SLAB, INCL CURB	31666.74
436-1000	8642	LF	7.96	ASPHALTIC CONCRETE CURB -	68790.32
441-0303	4	EA	1749.17	CONC SPILLWAY, TP 3	6996.68
446-1100	400	LF	5.31	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	2124.00
500-3101	106	CY	411.37	CLASS A CONCRETE (FOR FLUMES)	43605.22
511-1000	616	LB	0.61	BAR REINF STEEL (FOR FLUMES)	375.76
540-0001	1	LUMP	3185600.00	CONSTR OF BRIDGE COMPLETE (724X44X$100)	3185600.00
540-1102	1	LS	962280.00	REMOVAL OF EXISTING BR, BR NO - 1 (729X24X$55)	962280.00
550-1180	72	LF	34.02	STORM DRAIN PIPE, 18 IN, H 1-10	2449.44
550-2180	72	LF	25.43	SIDE DRAIN PIPE, 18 IN, H 1-10	1830.96
550-3418	2	EA	559.14	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	1118.28
550-4218	2	EA	506.91	FLARED END SECTION 18 IN, STORM DRAIN	1013.82
603-2024	1226	SY	39.38	STN DUMPED RIP RAP, TP 1, 24 IN	48279.88
603-7000	1226	SY	3.14	PLASTIC FILTER FABRIC	3849.64
634-1200	16	EA	80.40	RIGHT OF WAY MARKERS	1286.40
641-1100	84	LF	41.57	GUARDRAIL, TP T	3491.88
641-1200	7444	LF	9.10	GUARDRAIL, TP W	67740.40
641-5001	2	EA	401.71	GUARDRAIL ANCHORAGE, TP 1	803.42
641-5012	2	EA	1263.48	GUARDRAIL ANCHORAGE, TP 12	2526.96
				Section Sub Total:	**$12,436,583.58**

Section Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0240	300	TN	213.84	MULCH	64152.00
700-6910	15	AC	749.98	PERMANENT GRASSING	11249.70
700-7000	15	TN	51.52	AGRICULTURAL LIME	772.80
700-7010	48	GL	18.43	LIQUID LIME	884.64
700-8000	16	TN	236.56	FERTILIZER MIXED GRADE	3784.96
				Section Sub Total:	**$80,844.10**

Section Temporary Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	16	AC	435.70	TEMPORARY GRASSING	6971.20
163-0240	130	TN	213.84	MULCH	27799.20
163-0300	4	EA	1074.69	CONSTRUCTION EXIT	4298.76
163-0520	500	LF	10.50	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	5250.00
163-0530	3500	LF	1.83	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	6405.00
165-0010	1700	LF	1.06	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	1802.00
165-0030	1700	LF	1.29	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	2193.00
165-0070	1700	LF	1.17	MAINTENANCE OF BALED STRAW EROSION CHECK	1989.00
165-0101	4	EA	336.19	MAINTENANCE OF CONSTRUCTION EXIT	1344.76
167-1000	2	EA	3742.84	WATER QUALITY MONITORING AND SAMPLING	7485.68
167-1500	24	MO	594.20	WATER QUALITY INSPECTIONS	14260.80
171-0010	3500	LF	1.76	TEMPORARY SILT FENCE, TYPE A	6160.00
171-0030	3500	LF	3.06	TEMPORARY SILT FENCE, TYPE C	10710.00

700-7000	9	TN	51.52	AGRICULTURAL LIME	463.68
700-7010	22	GL	18.43	LIQUID LIME	405.46
700-8000	10	TN	236.56	FERTILIZER MIXED GRADE	2365.60
				Section Sub Total:	**$99,904.14**

Section Signing and Marking

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	54	SF	14.82	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	800.28
636-1031	54	SF	17.19	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	928.26
636-2080	84	LF	8.15	GALV STEEL POSTS, TP 8	684.60
653-1501	20000	LF	0.24	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	4800.00
653-1502	15000	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	3450.00
654-1001	250	EA	3.39	RAISED PVMT MARKERS TP 1	847.50
657-3054	730	GLF	1.97	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	1438.10
657-6054	730	LF	3.97	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	2898.10
				Section Sub Total:	**$15,846.84**

Total Estimated Cost: $12,633,178.66

Subtotal Construction Cost	**$12,633,178.66**
E&C Rate 10.0 %	$1,263,317.87
Inflation Rate 0 % @ 4.0 Years	$0.00
Total Construction Cost	**$13,896,496.53**
Right Of Way	$87,800.00
ReImb. Utilities	$0.00
Grand Total Project Cost	**$13,984,296.53**

Preliminary Right of Way Cost Estimate

Jerry Milligan

Phil Copeland
Right of Way Administrator
By: Jerry Milligan

Date: July 18, 2006
Project: BRST-076-1(36)Lincoln
Existing/Required R/W: Varies/Varies
Project Termini: Bridge Replacement on SR 47 over Little River on Clark Hill
Project Description: Bridge Replacement on SR 47 over Little River

P.I. Number: 231310
No. Parcels: 1

Land:
Res/Agri : Permanent Esmt. 14.87 acres @ $ 3,400 / acre @ 50% $ 25,279

Improvements : None 0

Relocation: Residential (0)
Commercial (0) 0

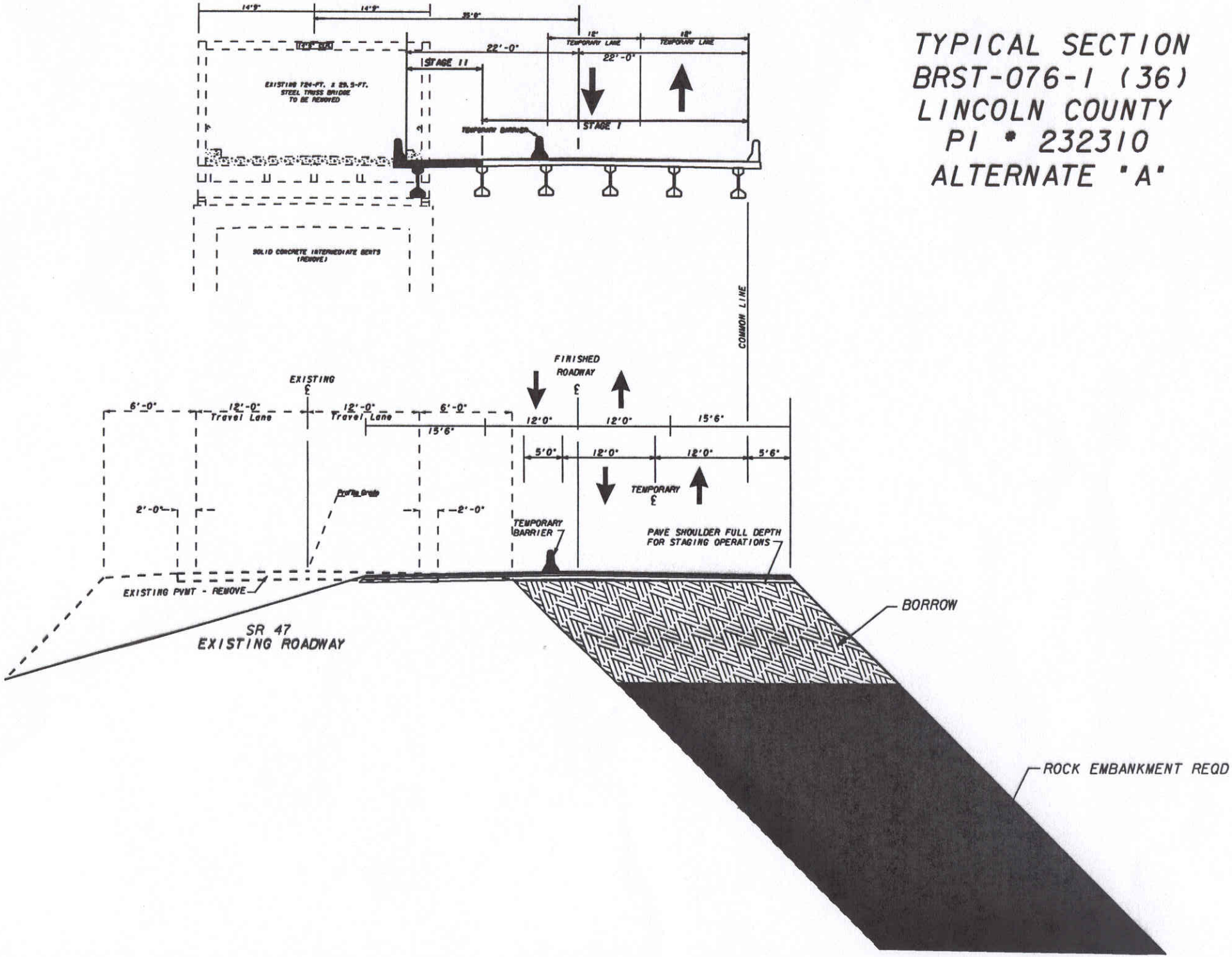
Damage : Cost to Cures (0) parcel 0

Net Cost $ 25,279

Net Cost		$ 25,279
Scheduling Contingency	55 %	13,903
Adm/Court Cost	60 %	23,509
Inflation Factor	40 %	25,076
		$ 87,767

Total Cost $ 87,800

TYPICAL SECTION
BRST-076-1 (36)
LINCOLN COUNTY
PI # 232310
ALTERNATE "A"



NOTICE OF LOCATION AND DESIGN APPROVAL

BRST-076-1 (36) Lincoln County
P.I. # 232310

Notice is hereby given in compliance with Georgia Code 22-22-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of location and design approval was _____
Date of Approval

This project consists of the structurally deficient bridge on SR 47 at Little River on the Columbia / Lincoln county line. Traffic will be maintained on the existing bridge while the new bridge is constructed to the west of the existing bridge on new alignment. The roadway typical section will consist of 2 – 12-ft. asphalt travel lanes with 10-ft. grassed shoulders, 4-ft. of each to be paved. Drawings of the proposed project are on file and are available for inspection at the Georgia Department of Transportation.

Scott Stephens
Scott.Stephens@dot.state.ga.us
4260 Frontage Road
Augusta, Georgia 30909

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:

GEORGE M. BREWER
PRECONSTRUCTION ENGINEER
P.O. BOX 8
TENNILLE, GEORGIA 31089
478-552-4629

Any written request or communication in reference to this project **SHOULD** include the Project and PI numbers as noted at the top of this notice.