

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 232260-, Baldwin County **OFFICE** Preconstruction
BRST-004-2(39)
Extend Project South on Tattnall Street **DATE** September 19, 2006

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO  SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

GRS/cj

Attachment

DISTRIBUTION:

Brian Summers
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Babs Abubakari
Mike Thomas
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE **BRST-004-2(39), Baldwin County** OFFICE Atlanta
SR 22 @ CS 558/Tattnall Street
P.I. No. 232260

FROM *M. Babs Abubakari*
Mohammed (Babs) Abubakari, State Consultant Design Engineer DATE August 22, 2006

TO Meg Pirkle, Assistant Director of Preconstruction

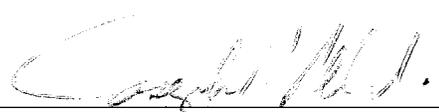
SUBJECT **REVISED PROJECT CONCEPT REPORT**

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

The proposed revision is to extend the project south along Tattnall Street from Macintosh Street to SR 49. The reason for the revision is due to a recently added driveway, discovered during PFPR inspection, preventing an originally planned drainage outfall near Macintosh Street. The project will be extended approximately 520 feet to an alternate drainage outfall near SR 49. Construction cost for this project increases by \$1,110,033 due in part to the increased project scope and in part to recent increases in estimated unit prices.

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

DATE 9/14/06


State Transportation Planning Administrator

Distribution:

Project Review Engineer
State Environmental/Location Engineer
State Traffic Operations Engineer
State Transportation Planning Administrator
State Transportation Financial Management Administrator
District 2 Engineer
State Bridge Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

REVISED PROJECT CONCEPT REPORT

Need & Purpose: Bridge Project BRST-004-2(39) will replace the structurally deficient bridge located on State Route 22 at Tattnall Street (CS 558) in West Milledgeville. The bridge's sufficiency rating is 49.31. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. In addition, this bridge provides only eleven feet of vertical clearance and has been struck by vehicles several times.

Along the subject section, SR 22 is a four lane facility and is functionally classified as a connecting link to a Rural Minor Arterial. The posted speed limit is 35 mph. The bridge was first constructed in 1955 and has not been reconstructed; however, it has been repaired due to vehicles on Tattnall Street striking the bridge's steel beams. SR 22 in the project area is a school bus route and is part of the Statewide Bicycle Plan.

The Average Daily Traffic (ADT) for the section of SR 22 at CS 588 in 2000 was 7200. The projected ADT for this section of highway in 2006 is 7,800 and the projected traffic in 2026 is 9900. Trucks represent an average of five percent of traffic during a twenty-four hour traffic count and an average of four percent of traffic during peak hour traffic counts. Currently no roadway improvements are in the Construction Work Program for SR 22 in the vicinity of Tattnall Street (CS 558).

Tattnall Street (CS 558) is located in West Milledgeville and passes under SR 22 at mile point 10.94. Tattnall Street is functionally classified as a local road. Tattnall Street is a two-lane street with a posted speed limit of 35 mph. As noted above, vehicles on Tattnall Street have struck SR 22 bridge beams because it provides only eleven feet of vertical clearance.

Replacing the SR 22 bridge above Tattnall Street will bring it up to current design standards and in doing so will improve the operation and safety of SR 22 and Tattnall Street.

Project Location: This project consists of SR 22 over Tattnall Street (CS 558), located in Baldwin County in West Milledgeville, in G.M.D 320.

Description of the approved concept: The approved concept is to build the proposed bridge at the same location as the existing bridge by closing both SR 22 and Tattnall Street and detouring traffic off-site during construction. The roadway typical section for SR 22 consists of four 12 foot travel lanes with 10 foot wide urban shoulders and two 12 foot lanes with 10 foot wide urban shoulders for Tattnall Street. The project length along Tattnall Street is from McIntosh Street to W. Thomas Street. The approved construction cost is \$918,537.

PDP Classification:

Full Oversight (), Exempt (X), SF (), Other ()

Functional Classification (SR 22): FAP Connecting Link to a Rural Minor Arterial Road

Functional Classification (Tattnall Street): Local Street

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

State Route Number(s): 22

Traffic (AADT) as shown in the approved concept (SR 22):

Current Year: (2006) - 7800

Design Year: (2026) - 9900

Traffic (AADT) as shown in the approved concept (Tattnall Street):

Current Year: (2006) - 1000

Design Year: (2026) - 1800

Proposed features to be revised: The proposed revision is to extend the project south along Tattnall Street from Macintosh Street to SR 49. The reason for the revision is due to a recently added driveway, discovered during PFPR inspection, preventing an originally planned drainage outfall near Macintosh Street. The project will be extended approximately 520 feet to an alternate drainage outfall near SR 49. Construction cost for this project increases by \$1,110,033 due in part to the increased project scope and in part to recent increases in estimated unit prices.

Updated Traffic Data (AADT): No change from approved concept

Programmed/Schedule:

P.E. 2000

R/W 2007

Construction After 2009

Revised cost estimates:

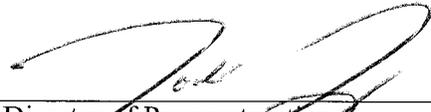
- | | | |
|----|--|-------------|
| 1. | Construction cost including inflation and E&C, | \$2,028,570 |
| 2. | Right-of-way, and | \$23,000 |
| 3. | Utilities | \$15,000 |

Is the project located in a non-attainment area? Yes X No

Recommendation: The Consultant Design Office recommends that the proposed revision to the concept be approved for implementation.

Attachments:

1. Cost Estimate,

Concur: 
 Director of Preconstruction

Approve: 
 Chief Engineer

Estimate Report for file "232260_2005-12-07_2006-01-25_2006-08-07"

Section ROADWAY					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	40000.00	TRAFFIC CONTROL - BRST-004-2(39)	40000.00
210-0100	1	LS	30110.00	GRADING COMPLETE - BRST-004-2(39)	30110.00
318-3000	750	TN	17.79	AGGR SURF CRS	13342.50
433-1000	364	SY	151.20	REINF CONC APPROACH SLAB	55036.80
441-0016	438	SY	31.82	DRIVEWAY CONCRETE, 6 IN TK	13937.16
441-0104	1808	SY	29.04	CONC SIDEWALK, 4 IN	52504.32
441-0301	4	EA	1732.16	CONC SPILLWAY, TP 1	6928.64
441-4020	443	SY	33.11	CONC VALLEY GUTTER, 6 IN	14667.73
441-6022	3105	LF	17.23	CONC CURB & GUTTER, 6 IN X 30 IN, TP 2	53499.15
500-3200	1	CY	439.27	CLASS B CONCRETE	439.27
550-1180	1320	LF	34.16	STORM DRAIN PIPE, 18 IN, H 1-10	45091.20
550-2182	45	LF	24.45	SIDE DRAIN PIPE, 18 IN, H 15-20	1100.25
550-3418	2	EA	569.44	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	1138.88
641-1100	58	LF	35.92	GUARDRAIL, TP T	2083.36
641-1200	50	LF	15.20	GUARDRAIL, TP W	760.00
641-5001	2	EA	533.74	GUARDRAIL ANCHORAGE, TP 1	1067.48
641-5012	2	EA	1672.57	GUARDRAIL ANCHORAGE, TP 12	3345.14
668-1100	13	EA	1857.04	CATCH BASIN, GP 1	24141.52
668-1110	15	LF	203.88	CATCH BASIN, GP 1, ADDL DEPTH	3058.20
668-2100	1	EA	2813.68	DROP INLET, GP 1	2813.68
668-4300	2	EA	1920.85	STORM SEWER MANHOLE, TP 1	3841.70
Section Sub Total:					\$368,906.98

Section REQUIRED PAVEMENT					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
310-1101	1665	TN	16.02	GR AGGR BASE CRS, INCL MATL	26673.30
402-1812	393	TN	75.00	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	29475.00
402-3113	60	TN	75.00	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	4500.00
402-3121	1092	TN	75.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	81900.00
402-3131	237	TN	75.00	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	17775.00
402-3190	338	TN	75.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	25350.00
413-1000	350	GL	2.00	BITUM TACK COAT	700.00
432-5010	500	SY	1.86	MILL ASPH CONC PVMT, VARIABLE DEPTH	930.00
Section Sub Total:					\$187,303.30

Section EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	3	AC	521.16	TEMPORARY GRASSING	1563.48
163-0240	150	TN	203.73	MULCH	30559.50
163-0300	4	EA	1807.21	CONSTRUCTION EXIT	7228.84
163-0520	100	LF	13.93	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	1393.00
163-0530	150	LF	2.96	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	444.00
163-0550	20	EA	273.70	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	5474.00
165-0010	250	LF	1.08	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	270.00
165-0030	1500	LF	1.31	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	1965.00
165-0070	150	LF	1.72	MAINTENANCE OF BALED STRAW EROSION CHECK	258.00
165-0101	4	EA	470.63	MAINTENANCE OF CONSTRUCTION EXIT	1882.52
165-0105	20	EA	96.44	MAINTENANCE OF INLET SEDIMENT TRAP	1928.80
167-1000	2	EA	1685.16	WATER QUALITY MONITORING AND SAMPLING	3370.32
167-1500	12	MO	911.79	WATER QUALITY INSPECTIONS	10941.48
171-0010	250	LF	1.98	TEMPORARY SILT FENCE, TYPE A	495.00
171-0030	3000	LF	3.36	TEMPORARY SILT FENCE, TYPE C	10080.00
700-6910	6	AC	840.46	PERMANENT GRASSING	5042.76
700-7000	5	TN	58.74	AGRICULTURAL LIME	293.70
700-7010	10	GL	18.75	LIQUID LIME	187.50

700-8000	10	TN	283.53	FERTILIZER MIXED GRADE	2835.30
700-8100	120	LB	1.66	FERTILIZER NITROGEN CONTENT	199.20
716-2000	3650	SY	1.13	EROSION CONTROL MATS, SLOPES	4124.50
Section Sub Total:					\$90,536.90

Section TRAFFIC SIGNS AND MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	15	SF	14.14	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	212.10
636-1031	18	SF	21.08	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	379.44
636-2070	51	LF	7.31	GALV STEEL POSTS, TP 7	372.81
652-5451	3000	LF	0.15	SOLID TRAFFIC STRIPE, 5 IN, WHITE	450.00
652-5452	3000	LF	0.15	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	450.00
652-6501	418	GLF	0.14	SKIP TRAFFIC STRIPE, 5 IN, WHITE	58.52
654-1001	35	EA	3.59	RAISED PVMT MARKERS TP 1	125.65
654-1003	9	EA	3.77	RAISED PVMT MARKERS TP 3	33.93
657-1054	240	LF	3.56	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, WHITE, TP PB	854.40
657-3054	240	GLF	2.75	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	660.00
657-6054	240	LF	3.79	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	909.60
Section Sub Total:					\$4,506.45

Section BRIDGE NO - 1

Item Number	Quantity	Units	Unit Price	Item Description	Cost
211-0200	306	CY	57.03	BRIDGE EXCAVATION, GRADE SEPARATION	17451.18
441-0004	532	SY	41.55	CONC SLOPE PAV, 4 IN	22104.60
500-0100	773	SY	4.34	GROOVED CONCRETE	3354.82
500-1008	675	LS	833.33	SUPERSTR CONCRETE, CL AA-1, BR NO - 1 (675)	562497.75
500-3002	190	CY	724.26	CLASS AA CONCRETE	137609.40
511-1000	45448	LB	0.83	BAR REINF STEEL	37721.84
511-3000	179622	LS	0.84	SUPERSTR REINF STEEL, BR NO - 1 (179622)	150882.48
516-1100	228	LF	52.05	ALUM HANDRAIL, STD 3626	11867.40
520-1104	1320	LF	35.30	PILING IN PLACE, STEEL H, HP 10 X 42	46596.00
520-4104	1	EA	0.85	LOAD TEST, STEEL H, HP 10 X 42 (IF REQD)	0.85
540-1101	1	LS	114997.71	REMOVAL OF EXISTING BR, STA NO - 115+45	114997.71
Section Sub Total:					\$1,105,084.03

Total Estimated Cost: \$1,756,337.66

Subtotal Construction Cost	\$1,756,337.66
E&C Rate 10.0 %	\$175,633.77
Inflation Rate 5.0 % @ 1.0 Years	\$96,598.57
Total Construction Cost	\$2,028,570.00
Right Of Way	\$20,000.00
ReImb. Utilities	\$15,000.00
Grand Total Project Cost	\$2,063,570.00