

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 333183-, Meriwether County **OFFICE** Preconstruction
BRST-074-1(51)
SR 85 Alt over CSX Railroad **DATE** June 21, 2007

FROM *John Kumb*
Genetha Rice-Singleton, Assistant Director of Preconstruction

TO *GRS* SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

GRS/cj

Attachment

DISTRIBUTION:

Brian Summers
Harvey Keeper
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Thomas Howell
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE **BRST-074-1(51) MERIWETHER COUNTY** OFFICE Atlanta
SR 85 ALT over CSX Railroad
P.I. No. 333183

M. Babs Abubakari

FROM Mohammed (Babs) Abubakari, State Consultant Design Engineer DATE May 29, 2007

TO Genetha Rice-Singleton, 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 original concept will change from a permanent realignment of SR 85 ALT to the east and maintain traffic on the existing bridge during construction to an off-site detour due to historic property impacted by the permanent realignment of SR 85 ALT. The off-site detour report was approved on May 23, 2007.

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

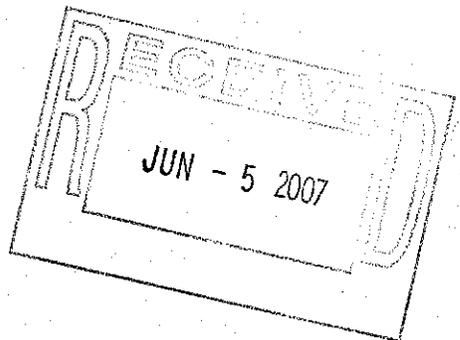
DATE 6-4-07

Genetha J. Rice-Singleton

State Transportation Planning Administrator

Distribution:

Project Review Engineer
State Environment/Location Engineer
State Traffic Safety and Design Engineer
State Transportation Planning Administrator
State Transportation Financial Management Administrator
District 3 Engineer
State Bridge Design Engineer



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

REVISED PROJECT CONCEPT REPORT

Need & Purpose: Bridge project BRST-074-1(51) will replace the structurally deficient bridge located on State Route 85 ALT over CSX Railroad, in Warm Springs, Georgia. The bridge's sufficiency rating is 49.30. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. This project will replace the existing bridge with a structurally adequate bridge.

State Route 85 ALT is functionally classified as a rural minor arterial. The posted speed limit along SR 85 ALT is 45 mph. SR 85 ALT is not part of the Statewide Bicycle Plan. The bridge is located in downtown Warm Springs, Georgia and was constructed in 1941. Trucks represent 7% of the traffic of SR 85 ALT. The Average Daily Traffic (ADT) along this section of highway for 2004 is 3,000. The projected ADT for the year 2004 is 3,000 and the projected (2024) ADT for this section of highway is 4,500.

Replacing this bridge will bring it up to current design standards and in doing so will improve the operation and safety of this roadway.

Project Location: This project consists of SR 85 ALT over CSX Railroad, located in Meriwether County in downtown Warm Springs, in G.M.D 704.

Description of the approved concept: The approved concept is to permanently realign SR 85 ALT to the east and maintain traffic on the existing bridge during construction. The roadway typical section consists of two 12 feet travel lanes, 4 ft bike lanes on both sides and urban shoulders. The shoulder will consist of 2.5 ft curb & gutter and 6 ft sidewalk.

PDP Classification:

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

Functional Classification: Rural Minor Arterial Road

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

State Route Number(s): 85 ALT

Traffic (AADT) as shown in the approved concept:

Current Year: (2004) - 3000

Design Year: (2024) - 4500

Proposed features to be revised: The proposed revision is to delete the permanently realign SR 85 ALT to the east alternate and change to construct the new bridge on the existing alignment by detouring traffic off-site during construction. The reason for the revision is the historic property was impacted by the permanently realign SR 85 ALT to the east alternate. The off-site detour report was approved on May 23, 2007.

Updated Traffic Data (AADT): (2008) – 3000 & (2028) – 4500

Programmed/Schedule:

P.E. 2000

R/W 2007

Construction After 2012

Revised cost estimates:

- | | | |
|----|------------------------------------------------|-------------|
| 1. | Construction cost including inflation and E&C, | \$1,786,100 |
| 2. | Right-of-way, and | \$100,000 |
| 3. | Utilities | \$15,000 |

Is the project located in a non-attainment area? Yes

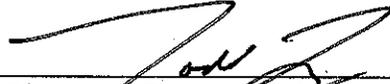
No

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

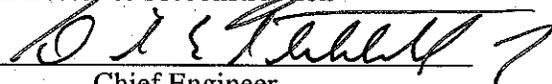
Attachments:

1. Cost Estimates,

Concur: _____


Director of Preconstruction

Approve: _____


Chief Engineer

Estimate Report for file "333183_2007-04-04"

| Section ROADWAY | | | | | |
|---------------------------|----------|-------|------------|--------------------------------------------------------------------------|---------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 150-1000 | 1 | LS | 250000.00 | TRAFFIC CONTROL - BRST-074-1(51) | 250000.00 |
| 210-0100 | 1 | LS | 50000.00 | GRADING COMPLETE - BRST-074-1(51) | 50000.00 |
| 310-1101 | 1615 | TN | 17.72 | GR AGGR BASE CRS, INCL MATL | 28617.80 |
| 318-3000 | 50 | TN | 18.92 | AGGR SURF CRS | 946.00 |
| 402-1812 | 305 | TN | 85.00 | RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME | 25925.00 |
| 402-3121 | 1005 | TN | 85.00 | RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME | 85425.00 |
| 402-3131 | 155 | TN | 85.00 | RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME | 13175.00 |
| 402-3190 | 250 | TN | 85.00 | RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME | 21250.00 |
| 413-1000 | 400 | GL | 2.07 | BITUM TACK COAT | 828.00 |
| 432-5010 | 350 | SY | 2.24 | MILL ASPH CONC PVMT, VARIABLE DEPTH | 784.00 |
| 433-1000 | 163 | SY | 143.76 | REINF CONC APPROACH SLAB | 23432.88 |
| 441-0104 | 500 | SY | 37.79 | CONC SIDEWALK, 4 IN | 18895.00 |
| 441-4020 | 60 | SY | 42.10 | CONC VALLEY GUTTER, 6 IN | 2526.00 |
| 441-6222 | 900 | LF | 17.86 | CONC CURB & GUTTER, 8 IN X 30 IN, TP 2 | 16074.00 |
| 550-1180 | 450 | LF | 42.29 | STORM DRAIN PIPE, 18 IN, H 1-10 | 19030.50 |
| 550-4218 | 2 | EA | 688.02 | FLARED END SECTION 18 IN, STORM DRAIN | 1376.04 |
| 641-1100 | 58 | LF | 53.72 | GUARDRAIL, TP T | 3115.76 |
| 641-1200 | 50 | LF | 18.49 | GUARDRAIL, TP W | 924.50 |
| 641-5000 | 2 | EA | 2200.00 | GUARDRAIL ANCHORAGE, SPCL DES | 4400.00 |
| 641-5001 | 2 | EA | 648.84 | GUARDRAIL ANCHORAGE, TP 1 | 1297.68 |
| 668-1100 | 4 | EA | 2714.66 | CATCH BASIN, GP 1 | 10858.64 |
| 668-2100 | 2 | EA | 4244.06 | DROP INLET, GP 1 | 8488.12 |
| 668-2110 | 10 | LF | 310.14 | DROP INLET, GP 1, ADDL DEPTH | 3101.40 |
| Section Sub Total: | | | | | \$590,471.32 |

| Section TRAFFIC SIGNS AND MARKING | | | | | |
|-----------------------------------|----------|-------|------------|-----------------------------------------------|-------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 636-1020 | 10 | SF | 14.94 | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3 | 149.40 |
| 636-1033 | 60 | SF | 19.27 | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9 | 1156.20 |
| 636-2070 | 40 | LF | 8.29 | GALV STEEL POSTS, TP 7 | 331.60 |
| 653-1501 | 1060 | LF | 0.60 | THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE | 636.00 |
| 653-1502 | 1060 | LF | 0.61 | THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW | 646.60 |
| 653-1704 | 30 | LF | 5.34 | THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE | 160.20 |
| 653-1804 | 150 | LF | 1.86 | THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE | 279.00 |
| 654-1001 | 10 | EA | 3.63 | RAISED PVMT MARKERS TP 1 | 36.30 |
| Section Sub Total: | | | | | \$3,395.30 |

| Section BRIDGE NO - 1 | | | | | |
|---------------------------|----------|-------|------------|------------------------------------------|-----------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 211-0200 | 180 | CY | 75.10 | BRIDGE EXCAVATION, GRADE SEPARATION | 13518.00 |
| 441-0004 | 847 | SY | 51.53 | CONC SLOPE PAV, 4 IN | 43645.91 |
| 500-0100 | 669 | SY | 4.32 | GROOVED CONCRETE | 2890.08 |
| 500-1006 | 320 | LS | 1079.75 | SUPERSTR CONCRETE, CL AA, BR NO - | 345520.00 |
| 500-2110 | 342 | LF | 327.63 | CONCRETE PARAPET, SPCL DESIGN | 112049.46 |
| 500-3101 | 164 | CY | 594.75 | CLASS A CONCRETE | 97539.00 |
| 507-9002 | 409 | LF | 129.24 | PSC BEAMS, AASHTO TYPE II, BR NO - | 52859.16 |
| 507-9003 | 631 | LF | 144.38 | PSC BEAMS, AASHTO TYPE III, BR NO - | 91103.78 |
| 511-1000 | 29686 | LB | 0.94 | BAR REINF STEEL | 27904.84 |
| 511-3000 | 69113 | LS | 0.94 | SUPERSTR REINF STEEL, BR NO - 1 (17962Z) | 64966.22 |
| 520-0573 | 10 | EA | 209.62 | H-PILE POINTS, HP 14 X 73 | 2096.20 |
| 520-1147 | 1350 | LF | 60.75 | PILING IN PLACE, STEEL H, HP 14 X 73 | 82012.50 |
| 520-4147 | 1 | EA | 34.45 | LOAD TEST, STEEL H, HP 14 X 73 | 34.45 |
| 540-1102 | 1 | LS | 195344.47 | REMOVAL OF EXISTING BR, BR NO - | 195344.47 |
| 643-1152 | 337 | LF | 23.14 | CH LK FENCE, ZC COAT, 6 FT, 9 GA | 7798.18 |
| Section Sub Total: | | | | | \$1,139,282.25 |

| Section EROSION CONTROL - TEMPORARY | | | | | |
|--------------------------------------------|-----------------|--------------|-------------------|-------------------------------------------------|--------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 163-0232 | 1 | AC | 564.57 | TEMPORARY GRASSING | 564.57 |
| 163-0240 | 50 | TN | 178.21 | MULCH | 8910.50 |
| 163-0300 | 2 | EA | 2571.07 | CONSTRUCTION EXIT | 5142.14 |
| 163-0520 | 100 | LF | 16.93 | CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN | 1693.00 |
| 163-0530 | 250 | LF | 3.71 | CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK | 927.50 |
| 163-0550 | 6 | EA | 305.97 | CONSTRUCT AND REMOVE INLET SEDIMENT TRAP | 1835.82 |
| 165-0010 | 250 | LF | 0.97 | MAINTENANCE OF TEMPORARY SILT FENCE, TP A | 242.50 |
| 165-0030 | 500 | LF | 1.74 | MAINTENANCE OF TEMPORARY SILT FENCE, TP C | 870.00 |
| 165-0070 | 250 | LF | 2.16 | MAINTENANCE OF BALED STRAW EROSION CHECK | 540.00 |
| 165-0101 | 4 | EA | 677.10 | MAINTENANCE OF CONSTRUCTION EXIT | 2708.40 |
| 165-0105 | 12 | EA | 107.01 | MAINTENANCE OF INLET SEDIMENT TRAP | 1284.12 |
| 167-1000 | 2 | EA | 1363.64 | WATER QUALITY MONITORING AND SAMPLING | 2727.28 |
| 167-1500 | 12 | MO | 1047.62 | WATER QUALITY INSPECTIONS | 12571.44 |
| 171-0010 | 250 | LF | 2.08 | TEMPORARY SILT FENCE, TYPE A | 520.00 |
| 171-0030 | 1000 | LF | 4.06 | TEMPORARY SILT FENCE, TYPE C | 4060.00 |
| Section Sub Total: | | | | | \$44,597.27 |

| Section PROPRIETARY ITEM | | | | | |
|---------------------------------|-----------------|--------------|-------------------|-------------------------------------------------------|-------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 657-1054 | 344 | LF | 4.66 | PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, WHITE, TP PB | 1603.04 |
| 657-6054 | 344 | LF | 4.41 | PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB | 1517.04 |
| Section Sub Total: | | | | | \$3,120.08 |

| Section EROSION CONTROL - PERMANENT | | | | | |
|--------------------------------------------|-----------------|--------------|-------------------|---------------------------------|-------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 603-2181 | 20 | SY | 42.87 | STN DUMPED RIP RAP, TP 3, 18 IN | 857.40 |
| 603-7000 | 20 | SY | 4.98 | PLASTIC FILTER FABRIC | 99.60 |
| 700-6910 | 2 | AC | 971.51 | PERMANENT GRASSING | 1943.02 |
| 700-7000 | 1 | TN | 60.28 | AGRICULTURAL LIME | 60.28 |
| 700-7010 | 5 | GL | 19.81 | LIQUID LIME | 99.05 |
| 700-8000 | 5 | TN | 348.95 | FERTILIZER MIXED GRADE | 1744.75 |
| 700-8100 | 50 | LB | 2.15 | FERTILIZER NITROGEN CONTENT | 107.50 |
| 716-2000 | 250 | SY | 1.23 | EROSION CONTROL MATS, SLOPES | 307.50 |
| Section Sub Total: | | | | | \$5,219.10 |

Total Estimated Cost: \$1,786,085.32

| | |
|-----------------------------------|-----------------------|
| Subtotal Construction Cost | \$1,786,085.32 |
| E&C Rate 10.0 % | \$178,608.53 |
| Inflation Rate 5.0 % @ 0.0 Years | \$0.00 |
| <hr/> | |
| Total Construction Cost | \$1,964,693.85 |
| Right Of Way | \$100,000.00 |
| ReImb. Utilities | \$15,000.00 |
| <hr/> | |
| Grand Total Project Cost | \$2,079,693.85 |