STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRST-165-1(70)	310	449

BRIDGE CONSISTS OF

3 - 87'-0" BULB TEE, 54 IN, PSC BEAM SPANS ..... SPECIAL DESIGN
1 - 130'-0" BULB TEE, 72 IN, PSC BEAM SPAN ..... SPECIAL DESIGN
2 - PILE END BENTS ..... SPECIAL DESIGN
3 - CONCRETE INTERMEDIATE BENTS ..... SPECIAL DESIGN
4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ..... GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 2'-8")
(L = 5'-0"; W = 1'-1"; H = 2'-8")

BAR BENDING DETAILS ..... GA. STD. 3901 (8-69)

TYPICAL FILL DETAIL AT END OF BRIDGE ..... GA. STD. 9037 (9-99)

DESIGN DATA

SPECIFICATIONS ..... AASHTO 17TH EDITION 2002
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)
TYPICAL HS20-44 AND/OR MILITARY LOADING ..... IMPACT ALLOWED
FUTURE PAVING ALLOWANCE ..... 30 LBS PER SQ FT
CONCRETE: SUPERSTRUCTURE ..... CLASS AA, f'_c = 3,500 PSI
PSC BEAMS ..... CLASS AAA, SEE BEAM SHEETS
PSC BEAM ALLOWABLE TENSION ..... SEE BEAM SHEETS
SUBSTRUCTURE ..... CLASS AA, f'_c = 3,500 PSI
REINFORCEMENT STEEL: ..... GRADE 60, f_y = 60,000 PSI
PRETENSIONING STRANDS: ..... f'_s = 270,000 PSI

TRAFFIC DATA

TRAFFIC ..... ADT = 12,650 (2007)
..... ADT = 22,800 (2027)
..... DHV 2508
DESIGN SPEED ..... 55 MPH
TRUCKS 8%
24 HR TRUCKS 10%
DIRECTIONAL 60%

DRAINAGE DATA

DRAINAGE AREA ..... 55.5 SQ MI

FLOOD FREQUENCY	DISCHARGE	VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	7660 CFS	4.62 FPS	1658 SQ FT	0.15 FT
100 YEAR	9018 CFS	4.65 FPS	1938 SQ FT	0.17 FT
500 YEAR	12630 CFS	4.85 FPS	2601 SQ FT	0.20 FT

EXISTING UTILITIES

16"D.I.P. WATER MAIN-----TO BE RELOCATED BY HENRY COUNTY WATER & SEWERAGE AUTHORITY

PROPOSED UTILITIES

NONE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

WORKING DRAWINGS - WHEN SUBMITTING SHOP DRAWINGS FOR THIS PROJECT TO THE DOT GENERAL OFFICE, SUBMIT THEM TO THE OFFICE OF CONSULTANT DESIGN.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES ¾" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 656-5401. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER S-0866(2).

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILE POINTS - REINFORCE ALL PILE TIPS WITH PRUYN POINT NO. 75750 OR AN APPROVED EQUAL POINT AT BENTS 1 AND 5.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 1 AND 5.

SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

STANDARD PLAN MODIFICATION - MODIFY THE APPROACH SLAB STANDARD TO INCREASE THE ¾" EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1¼". SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	1825	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (625)
500-2110	770	LF	CONCRETE PARAPET, SPCL DESIGN
500-3002	199	CY	CLASS AA CONCRETE
507-9030	1541	LF	PSC BEAMS, AASHTO, BULB TEE, 54 IN, BR NO - 1
507-9032	774	LF	PSC BEAMS, AASHTO, BULB TEE, 72 IN, BR NO - 1
511-1000	53907	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (138897)
520-0573	16	EA	H-PILE POINTS, HP 14 X 73
520-1147	380	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
524-0010	94	LF	DRILLED CAISSON - 48 IN.
524-0010	94	LF	DRILLED CAISSON - 54 IN.
540-1101	LUMP		REMOVAL OF EXISTING BR, STA NO - 59+15

BRIDGE NO. 1

PB 100 YEARS
3340 PEACHTREE ROAD, NE
SUITE 2400, TOWER PLACE 100
ATLANTA, GA 30326-1001

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES
SR 155 OVER
BIG COTTON INDIAN CREEK
HENRY COUNTY BRST-165-1(70)

SCALE: NONE APRIL 2006

BY	REVISIONS	DATE

DESIGNED SDH	CHECKED DWH	REVIEWED MTC
DRAWN SDH	DESIGN GROUP EJC	APPROVED PVL

BRIDGE SHEET 2 OF 23

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