STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BR000-0005-00(572)	72	155

BRIDGE CONSISTS OF

5 - 40'-0" TYPE I MOD PSC BEAM SPANS ---------- SPECIAL DESIGN

2 - PSC PILE END BENTS ---------- SPECIAL DESIGN

4 - PSC PILE INTERMEDIATE BENTS ---------- SPECIAL DESIGN

2 - END POST AND GUARDRAIL ATTACHMENT DETAIL -------- GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 2'-8")

2 - END POST AND GUARDRAIL ATTACHMENT DETAIL -------- GA. STD. 3054 (9-30-02)
(L = 5'-6"; W = 1'-1"; H = 2'-8")

SQUARE PRESTRESSED CONCRETE PILES ---------- GA. STD. 3215 (2-22-84)

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, f'_c = 6,000 PSI
PSC BEAM ALLOWABLE TENSION ---------- 465 PSI
SUBSTRUCTURE ---------- CLASS A, f'_c = 3,000 PSI

REINFORCEMENT STEEL: ---------- GRADE 60, f_y = 60,000 PSI

PRETENSIONING STRANDS: ---------- f'_s = 270,000 PSI

DRAINAGE DATA

DRAINAGE AREA ---------- 17.9 SQ MILES

FLOOD FREQUENCY	DISCHARGE	AREA OF OPENING UNDER FLOODSTAGE	MEAN VELOCITY	BACKWATER
50 YEAR	1740 CFS	369 SQ FT	4.72 FPS	0.51 FT
100 YEAR	2080 CFS	416 SQ FT	5.00 FPS	0.62 FT
500 YEAR	2940 CFS	517 SQ FT	5.69 FPS	0.92 FT

TRAFFIC DATA

TRAFFIC ---------- ADT = 1,700 (2014)
ADT = 2,600 (2034)

DESIGN SPEED ---------- 55 MPH

TRUCKS ---------- 14 %

24 HR TRUCKS ---------- 16 %

DIRECTIONAL ---------- 65 %

UTILITIES

NONE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

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 3/4" UNLESS OTHERWISE NOTED.

DETOUR BRIDGE - PROVIDE A DETOUR BRIDGE AT THIS SITE, SEE SECTION 541 OF THE GEORGIA DOT SPECIFICATIONS. THE MINIMUM BOTTOM OF BEAM ELEVATION FOR THE DETOUR BRIDGE SHALL BE 104.52.

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) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER S-1143(1).

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PDA TESTING - PILE DATA ANALYZER WILL BE UTILIZED BY THE GEORGIA DOT DURING THE PILE DRIVING OPERATION. NOTIFY THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH AT (404) 363-7546 TWO WEEKS PRIOR TO DRIVING PILES.

PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATIONS SHOWN, ALLOW PILES TO FREEZE A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER.

BENT NUMBER	PILE TIP ELEVATION
1	55.0
2	51.0
3	51.0
4	74.0
5	60.0
6	60.0

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:
ONE 16 IN SQ PSC X 61 FT AT BENT 1
ONE 16 IN SQ PSC X 43 FT AT BENT 4

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.

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.

RIDING QUALITY - THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDING QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.

PSC BEAMS - PRESTRESSED CONCRETE AASHTO TYPE I MODIFIED BEAMS SHALL BE PAID FOR AS "LF PSC BEAMS, AASHTO TYPE I".

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.

GENERAL NOTES, CONT.

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	845	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (254)
500-2100	387	LF	CONCRETE BARRIER
500-3101	88	CY	CLASS A CONCRETE
507-9001	966	LF	PSC BEAMS, AASHTO TYPE I, BR NO - 1
511-1000	9134	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (74093)
520-2216	1495	LF	PILING, PSC, 16 IN SQ
520-3216	2	EA	TEST PILE, PSC, 16 IN SQ
520-4216	1	EA	LOAD TEST, PSC, 16 IN SQ (IF REQD)
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 25+50
541-0001	LUMP	LS	DETOUR BRIDGE - 24 FT X 140 FT, STA - 65+20
603-2024	550	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	550	SY	PLASTIC FILTER FABRIC

35.02

DATE	REVISIONS	BY

BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES
SR 203 OVER DRY CREEK
WAYNE COUNTY BR000-0005-00(572)

NO SCALE SEPTEMBER 2010

JOB NO. 7174-020 | BRIDGE SHEET 2 OF 11

DESIGNED JLA | CHECKED LSW | REVIEWED WEI/WMD
DRAWN RAR | DESIGN GROUP | APPROVED PVL

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