STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRST-052-1(14)	60	135

BRIDGE CONSISTS OF

3 - 50'-0" TYPE I MOD PSC BEAM SPANS ---------- SPECIAL DESIGN

2 - STEEL H PILE END BENTS ---------- SPECIAL DESIGN

2 - STEEL H PILE 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 = 4'-3"; 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, f'_c = SEE BEAM SHEETS
PSC BEAM ALLOWABLE TENSION ---------- SEE BEAM SHEETS
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 ---------- 4.98 SQ MILES

FLOOD FREQUENCY	DISCHARGE	VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	1773 CFS	5.90 FPS	301 SQ FT	0.08 FT
100 YEAR	2097 CFS	6.32 FPS	332 SQ FT	0.09 FT
500 YEAR	2966 CFS	7.18 FPS	413 SQ FT	0.12 FT

TRAFFIC DATA

TRAFFIC ---------- ADT = 9,200 (2007)
ADT =15,000 (2027)

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

TRUCKS ---------- 15 %

DIRECTIONAL ---------- 60 %

UTILITIES

NONE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, 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.

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 F.A.P. 148(4).

WAITING PERIOD - DO NOT BEGIN WORK AT BENTS 1 AND 4 UNTIL THE COMPLETED END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 45 DAYS.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILE POINTS - REINFORCE ALL PILE TIPS IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATIONS.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 2.

PILE BENT SWAYBRACING - SWAYBRACING REQUIRED AT INTERMEDIATE BENTS 2 AND 3.

PILE ENCASEMENT - ENCASE PILES AT BENTS 2 AND 3 IN CONCRETE UP TO ELEVATION 756.5± OR 2'-0" ABOVE GROUND, WHICHEVER IS HIGHER. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA DOT SPECIFICATIONS.

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.

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.

SPECIAL PROTECTIVE COATING - CLEAN AND PAINT PILES AND SWAYBRACING IN ACCORDANCE WITH SECTIONS 520, 535 AND 870.2.05 OF THE GEORGIA DOT SPECIFICATIONS. PAINT SHALL BE SPECIAL PROTECTIVE COATING NO. 2P.

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	900	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (264)
500-2100	288	LF	CONCRETE BARRIER
500-3101	69	CY	CLASS A CONCRETE
501-2100	2362	LB	STR STEEL, SWAYBRACING
507-9001	1319	LF	PSC BEAMS, AASHTO TYPE I, BR NO - 1
511-1000	8057	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (63537)
520-0242	18	EA	H-PILE POINTS, HP 10 X 42
520-0353	18	EA	H-PILE POINTS, HP 12 X 53
520-1104	690	LF	PILING IN PLACE, STEEL H, HP 10 X 42
520-1125	780	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-4104	1	EA	LOAD TEST, STEEL H, HP 10 X 42 (IF REQD)
520-4125	1	EA	LOAD TEST, STEEL H, HP 12 X 53 (IF REQD)
540-1101	LUMP		REMOVAL OF EXISTING BRIDGE, STA NO - 517+00
547-2012	90	LF	PILE ENCASEMENT, 12 IN PILE
603-2024	550	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	550	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1

URS
URS CORPORATION
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N. E.
SUITE 900
ATLANTA, GA 30328
TEL: (678) 808-8800
FAX: (678) 808-8400

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES

SR 11 OVER SCOTT CREEK

BARROW COUNTY BRST-052-1(14)

SCALE: NONE JANUARY 2007

DRAWING NO. 35-02
BRIDGE SHEET 2 OF 13

REVISIONS | DATE | BY

DESIGNED CAV | CHECKED RSC | REVIEWED WEI/WMD
DRAWN BM | DESIGN GROUP EJC | APPROVED PVL

X.DGN

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