

BRIDGE CONSISTS OF

- 2 - 102'-6" BULB TEE, 54 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
- 4 - 50'-0" TYPE I MOD PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 3 - STEEL H PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 2 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
(L = 4'-3"; W = 1'-1"; H = 2'-8")
(L = 5'-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)

DRAINAGE DATA

DRAINAGE AREA ----- 65 SQ MILES

FLOOD FREQUENCY	DISCHARGE	VELOCITY	AREA OF OPENING UNDER HIGHWATER	BACKWATER
50 YEAR	8431 CFS	2.74 FPS	3,077 SQ FT	0.50 FT
100 YEAR	9923 CFS	2.66 FPS	3,737 SQ FT	0.74 FT
500 YEAR	13887 CFS	2.54 FPS	5,460 SQ FT	1.61 FT

TRAFFIC DATA

TRAFFIC ----- ADT = 2,500 (2010)
ADT = 3,600 (2030)

DESIGN SPEED ----- 55 MPH

TRUCKS ----- 5 %

24 HR TRUCKS ----- 7.5 %

DIRECTIONAL ----- 60 %

UTILITIES

NONE

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 AA, $f'_c = 3,500$ PSI

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

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

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 697.30.

TRAFFIC CONTROLS - ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. SEE ROADWAY PLANS FOR DETOUR, 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 SAP-895-B.

WAITING PERIOD - DO NOT BEGIN WORK AT BENT 7 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 AT BENTS 2, 3, AND 4.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 3, AND 7.

PILE BENT SWAYBRACING - SWAYBRACING REQUIRED AT INTERMEDIATE BENTS 2, 3, AND 4.

PILE ENCASUREMENT - ENCASE PILES AT BENTS 2, 3 AND 4 IN CONCRETE UP TO ELEVATION 690.84 OR 2'-0" ABOVE GROUND, WHICHEVER IS HIGHER. ENCASUREMENT 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.

STANDARD PLAN MODIFICATION - MODIFY THE APPROACH SLAB STANDARD TO INCREASE THE 3/4" EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1 1/4" AT BENT 1 AND BENT 7. 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.

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 AND 535 OF THE GEORGIA DOT SPECIFICATIONS. PAINT SHALL BE SPECIAL PROTECTIVE COATING NO. 2P.

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	1710	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (495)
500-2100	796	LF	CONCRETE BARRIER
500-3002	168	CY	CLASS AA CONCRETE
501-2100	2830	LB	STR STEEL, SWAYBRACING
507-9001	1170	LF	PSC BEAMS, AASHTO TYPE I, BR NO - 1
507-9030	1213	LF	PSC BEAMS, AASHTO, BULB TEE, 54 IN, BR NO - 1
511-1000	19649	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (121585)
520-0353	18	EA	H-PILE POINTS, HP 12 X 53
520-1104	230	LF	PILING IN PLACE, STEEL H, HP 10 X 42
520-1125	730	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-1147	330	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4104	1	EA	LOAD TEST, STEEL H, HP 10 X 42 (IF REQ'D)
520-4125	1	EA	LOAD TEST, STEEL H, HP 12 X 53 (IF REQ'D)
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQ'D)
524-0010	149	LF	DRILLED CAISSON - 54 IN
540-1101	LUMP		REMOVAL OF EXISTING BR, STA NO - 516+00
541-0001	LUMP		DETOUR BRIDGE, 260 FT X 24 FT, STA - 515+86.50
547-2012	72	LF	PILE ENCASUREMENT, 12 IN PILE
603-2024	950	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	950	SY	PLASTIC FILTER FABRIC

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSTO-0005-0K032	49	135

VOID

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 18 OVER POTATO CREEK

LAMAR COUNTY BRSTO-0005-0K032

SCALE: NONE DECEMBER 2008

DRAWING NO.
35-02
BRIDGE SHEET
2 OF 16

DATE	
REVISIONS	
BY	

DESIGNED GJM	CHECKED RSC	REVIEWED WEJ/WMD
DRAWN GJM	DESIGN GROUP YT	APPROVED PVL

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