BRIDGE CONSISTS OF

3 - 40'-0" REINFORCED CONCRETE DECK GIRDER 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")

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

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

DRAINAGE DATA

DRAINAGE AREA ---------- 10.35 SQ MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	2764.0 CFS	5.56 FPS	497 SQ FT	0.16 FT
100 YEAR	3265.0 CFS	6.11 FPS	534 SQ FT	0.26 FT
500 YEAR	4603.0 CFS	7.37 FPS	625 SQ FT	0.52 FT

TRAFFIC DATA

TRAFFIC ---------- ADT = 3,100 (2014)
ADT = 4,400 (2034)

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

TRUCKS ---------- 10 %

24 HR TRUCKS ---------- 10 %

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

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.

TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.

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-147(1).

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

DRIVING DATA PILES-ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 1 AND BENT 3.

△1 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 645.60 OR 2'-0" ABOVE GROUND, WHICHEVER IS HIGHER. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA DOT SPECIFICATIONS.

1013 DOWEL BARS - CAST 1013 DOWEL BARS IN PLACE OR PLACE DOWELS 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. AT FIXED ENDS, EFFECTIVELY WRAP 1013 DOWEL BARS TO PREVENT BOND WITH BEAM CONCRETE. AT EXPANSION ENDS, FORM 1 1/2" X 3" X 7" DEEP SLOT IN BEAM FOR 1013 DOWEL BARS.

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.

BOTTOM OF BEAM ELEVATIONS - BOTTOM OF THE BEAMS SHALL NOT BE BELOW ELEVATION 649.96.

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 WITH SPECIAL PROTECTIVE COATING NO. 2P IN ACCORDANCE WITH SECTIONS 520 AND 535 OF THE GEORGIA DOT SPECIFICATIONS.

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.

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
SUBSTRUCTURE ---------- CLASS A, f'_c = 3,000 PSI

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

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	560	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (246)
500-2100	228	LF	CONCRETE BARRIER
500-3101	52	CY	CLASS A CONCRETE
△1 501-2100	1720	LB	STR STEEL, SWAYBRACING
511-1000	6071	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (73322)
520-1104	700	LF	PILING IN PLACE, STEEL H, HP 10 X 42
520-1125	700	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)
540-1102	LUMP	LS	REMOVAL OF EXISTING BR, BR NO - 1
547-2012	57	LF	PILE ENCASEMENT, 12 IN PILE
603-2024	732	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	732	SY	PLASTIC FILTER FABRIC

URS
URS CORPORATION
400 NORTHPARK TOWN CENTER
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SUITE 900
ATLANTA, GA 30328
TEL: (678) 808-8800
FAX: (678) 808-8400

REVISIONS

BY	DESCRIPTION	DATE	Δ
URS	PER AMENDMENT	02-14-12	1

DESIGNED	CAV
DRAWN	CAV
CHECKED	RSC
GDOT LIAISON	EJC
REVIEWED	WEI/WMD
APPROVED	PVL
NO SCALE	
JULY 2011	

BRIDGE NO. 1

GEORGIA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION - OFFICE OF BRIDGES AND STRUCTURES

GENERAL NOTES
SR 100 OVER CLEAR CREEK
BRSTO-2797-00(004)
HEARD COUNTY

BRIDGE SHEET 2 OF 10

DRAWING No. 35-0002

1 INCH WHEN PRINTED FULL SIZE

X.DGN