

BRIDGE CONSISTS OF

- 6 - 40'-0" REINFORCED CONCRETE DECK GIRDER SPANS ----- SPECIAL DESIGN
- 2 - PSC PILE END BENTS ----- SPECIAL DESIGN
- 5 - PSC 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")
- 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)

DRAINAGE DATA

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	2364 CFS	3.37 FPS	702 SQ FT	0.42 FT
100 YEAR	2819 CFS	3.59 FPS	786 SQ FT	0.47 FT
500 YEAR	3997 CFS	4.18 FPS	956 SQ FT	0.62 FT

TRAFFIC DATA

TRAFFIC ----- ADT = 850 (2008)  
ADT = 1200 (2028)

DESIGN SPEED ----- 55 MPH

TRUCKS ----- 8%

24 HR TRUCKS ----- 10%

DIRECTIONAL ----- 55%

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 3/8" 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 RRPR 2211(1).

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILING - JETTING OR SPUDDING OF PSC PILING MAY BE NECESSARY AT THIS SITE TO ACHIEVE THE INDICATED PLAN DRIVING OBJECTIVE. AT CONTRACTOR'S OPTION, USE PREDRILLING IN LIEU OF JETTING OR SPUDDING AT BENTS 2-6. THE EXTENT OF PREDRILLING SHALL BE TO 3 FEET ABOVE MINIMUM TIP ELEVATIONS. SEE SECTION 520 OF THE GEORGIA DOT SPECIFICATIONS.

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	283.00
2	280.00
3	280.00
4	279.00
5	276.00
6	281.00
7	277.00

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:  
ONE 14 IN SQ PSC X 47 FT AT BENT 1  
ONE 16 IN SQ PSC X 56 FT AT BENT 5

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.

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

BOTTOM OF BEAM ELEVATIONS - BOTTOM OF THE BEAMS SHALL NOT BE BELOW ELEVATION 322.49.

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.

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	960	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (406)
500-2100	468	LF	CONCRETE BARRIER
500-3101	70	CY	CLASS A CONCRETE
511-1000	8387	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (128031)
520-2214	430	LF	PILING, PSC, 14 IN SQ
520-2216	1130	LF	PILING, PSC, 16 IN SQ
520-3214	1	EA	TEST PILE, PSC, 14 IN SQ
520-3216	1	EA	TEST PILE, PSC, 16 IN SQ
520-4214	1	EA	LOAD TEST, PSC, 14 IN SQ (IF REQD)
520-4216	1	EA	LOAD TEST, PSC, 16 IN SQ (IF REQD)
540-1102	LUMP		REMOVAL OF EXISTING BR, BR NO - 1
603-2024	500	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	500	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1

 <b>Browder + LeQuizamon and Associates, Inc.</b> ENGINEERS 174 WEST WELICA ROAD ATLANTA, GEORGIA 30342 (404) 521-9550	 <b>URS</b> 225 PEACHTREE STREET, NORTH TOWER, SUITE 2000 ATLANTA, GEORGIA 30303 TEL: (404) 888-9800 FAX: (404) 876-7777

GENERAL NOTES S.R. 329 OVER HOGCRAWL CREEK MACON COUNTY BRST-2025(5)	
SCALE: AS NOTED JUNE 2006	
DESIGNED P.A.L. DRAWN R.B.H.	CHECKED C.L. DESIGN GROUP E.J.C.
REVIEWED F.E.J. APPROVED P.V.L.	

BRIDGE SHEET  
2 OF 10

DATE

REVISIONS

BY