

STATE	PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
GEORGIA	BRZLB-77(38)	96	113

**GENERAL NOTES**

**SPECIFICATIONS:**  
 GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION AS MODIFIED BY CONTRACT DOCUMENTS.

**REINFORCING STEEL:**  
 ALL REINFORCING STEEL SHALL BE PLACED AND TIED IN ACCORDANCE WITH GEORGIA D.O.T. SPECIFICATIONS. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.

**CHAMFER:**  
 ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

**TRAFFIC CONTROLS:**  
 ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. SEE ROADWAY PLANS FOR DETOUR, TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

**EXISTING BRIDGE:**  
 PLANS FOR EXISTING BRIDGE ARE NOT AVAILABLE.

**WAITING PERIOD:**  
 NO WORK SHALL BEGIN AT BENTS 1 AND 5 UNTIL THE COMPLETED END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 30 DAYS.

**PLAN DRIVING OBJECTIVE:**  
 SEE SUBSTRUCTURE DETAILS.

**PILOT HOLES:**  
 A 24" DIAMETER PILOT HOLE SHALL BE DRILLED TO A MINIMUM ELEVATION OF 731 AT BENT 2 & 721 AT BENTS 3 & 4 FOR EACH PILE.

**PILE POINTS:**  
 REINFORCE ALL PILE TIPS WITH PRUYN POINT NO. 75750 OR AN APPROVED EQUAL POINT AT BENTS 1 & 5.

**DRIVING DATA PILES:**  
 ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 1.

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

**PILE ENCASEMENT:**  
 PILES AT BENTS 2, 3 AND 4 SHALL BE ENCASED IN CONCRETE UP TO ELEVATION 747.00 OR 2'-0" ABOVE GROUND, WHICHEVER IS HIGHER. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA D.O.T. SPECIFICATIONS.

**SMOOTH DOWEL BARS:**  
 SMOOTH DOWEL BARS SHALL BE PLACED IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUTED IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA D.O.T. SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

**PROTECTIVE SURFACE TREATMENT:**  
 PROTECTIVE SURFACE TREATMENT WILL BE REQUIRED AT THIS SITE AS PER SUB-SECTION 500.3.05. AD OF THE GEORGIA D.O.T. SPECIFICATIONS.

**GROOVED CONCRETE:**  
 THE ENTIRE LENGTH OF THE BRIDGE SHALL BE GROOVED TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.3 OF THE GEORGIA D.O.T. 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 D.O.T. PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE GEORGIA D.O.T. OFFICE OF MATERIALS AND RESEARCH. ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING.

**SPECIAL PROTECTIVE COATING:**  
 PILES AND SWAYBRACING SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH SECTION 520 OF THE D.O.T. SPECIFICATIONS. PORTIONS OF THE PILES AND SWAYBRACING WITHIN THE PILE ENCASEMENT SHALL NOT BE PAINTED. PAINT SHALL BE SYSTEM VI EXCEPT THE TOP COAT SHALL BE BLACK, FEDERAL STANDARD NO. 595 COLOR 27040.

**SALVAGE MATERIAL:**  
 NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DEPARTMENT OF TRANSPORTATION.

**INCIDENTAL ITEMS:**  
 COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED. THIS INCLUDES WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

**BRIDGE CONSISTS OF:**

- 4 - 37'-0" AASHTO TYPE I MOD PSC BEAM SPANS ----- SPECIAL DESIGN
- 3 - STEEL H PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (5-89)  
 (L=4'-0"; W=1'-1"; H=2'-8")  
 (L=4'-3"; W=1'-1"; H=2'-8")  
 (L=5'-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 (10-20-97)

**DESIGN DATA**

SPECIFICATIONS ----- AASHTO 1996 W/97 & 98 INTERIMS  
 (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)  
 TYPICAL HS 20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED

CONCRETE: SUPERSTRUCTURE ----- CLASS AA, f<sub>c</sub> = 3,500 PSI  
 PSC BEAMS ----- CLASS AAA, f<sub>c</sub> = 6,500 PSI  
 PSC BEAMS ALLOWABLE TENSION ----- 484 PSI  
 SUBSTRUCTURE ----- CLASS A, f<sub>c</sub> = 3,000 PSI

REINFORCEMENT STEEL ----- GRADE 60, f<sub>y</sub> = 60,000 PSI  
 FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT  
 PRETENSIONING STRANDS ----- f<sub>p</sub> = 270,000 PSI

**TRAFFIC DATA**

TRAFFIC ----- ADT = 850 (2000)  
 ADT = 1400 (2020)

DESIGN SPEED ----- 35 MPH  
 DIRECTIONAL DISTRIBUTION ----- 60/40  
 PEAK HOUR TRUCK ----- 1%  
 24 HOUR TRUCK ----- 2%

**DRAINAGE DATA**  
 DRAINAGE AREA = 26.4 SQ. MILES

FLOOD FREQUENCY	DISCHARGE	VELOCITY	AREA OF OPENING UNDER HIGHWATER
50 YEAR	5794 CFS	7.36 FPS	787 SQ FT
100 YEAR	6826 CFS	8.00 FPS	853 SQ FT
500 YEAR	9653 CFS	9.48 FPS	1019 SQ FT

**UTILITIES**  
 NONE

**CONSTRUCTION SEQUENCE**

1. CLOSE ROAD DURING CONSTRUCTION
2. REMOVE EXISTING BRIDGE
3. CONSTRUCT NEW BRIDGE

**SUMMARY OF QUANTITIES**

PAY ITEM NUMBER	QTY	UNIT	PAY ITEM
500-0100	493	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CLASS AA, BR NO-1 (173)
500-2100	284	LF	CONCRETE BARRIER
500-3101	67	CY	CLASS A CONCRETE
501-2100	3000	LB	STR STEEL, SWAYBRACING
507-9001	573	LF	PSC BEAMS, AASHTO TYPE I, BR NO-1
511-1000	6887	LB	BAR REINF. STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO-1 (47320)
520-0242	12	EA	H-PILE POINTS, HP 10 X 42
520-1104	374	LF	PIILING IN PLACE, STEEL H, HP 14 X 102
520-1173	436	LF	PIILING IN PLACE, STEEL H, HP 10 X 42
520-4104	1	EA	LOAD TEST, STEEL H, HP 10 X 42 (IF REQD)
520-4173	1	EA	LOAD TEST, STEEL H, HP 14 X 102 (IF REQD)
520-5000	265	LF	PILOT HOLES
540-1101	LUMP		REMOVAL OF EXISTING BRIDGE, STA 11+1
547-2014	49	LF	PILE ENCASEMENT, 14 IN PILE
603-2024	1490	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	1490	SY	PLASTIC FILTER FABRIC



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DESIGNED BY	NAME	DRAWN BY	NAME	QUANTITIES BY	NAME
RYS	RYS	SSB	SSB	RYS	RYS
CHECKED BY	FEJ	CHECKED BY	FEJ	CHECKED BY	FEJ
SUPERVISED BY	HISHAM H. DEEB, P.E.	DATE	JULY 2002		

DEPARTMENT OF TRANSPORTATION  
 STATE OF GEORGIA

DATE	BY	REVISIONS

BRIDGE NO-1  
 GENERAL NOTES  
 C.R. 14 (JIM STARR ROAD) OVER CEDAR CREEK  
 COWETA COUNTY  
 BRZLB-77(38)

DRAWING NUMBER  
 2 OF 15