

**BRIDGE CONSISTS OF**

- 3 - 80'-0" TYPE III PSC BEAM SPANS ----- SPECIAL DESIGN
- 1 - 115'-0" BULB TEE, 63 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 3 - CONCRETE 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 (10-20-97)

**DESIGN DATA**

- SPECIFICATIONS ----- AASHTO 1996 INCLUDING 1997 THROUGH 2002 INTERIMS  
(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, SEE BEAM DETAIL SHEET
- PSC BEAMS ALLOWABLE TENSION ----- SEE BEAM DETAIL SHEET
- SUBSTRUCTURE ----- CLASS A,  $f_c = 3,000$  PSI
- REINFORCEMENT STEEL ----- GRADE 60,  $f_y = 60,000$  PSI
- PRETENSIONING STRANDS -----  $f_p = 270,000$  PSI

**TRAFFIC DATA**

- TRAFFIC ----- ADT = 3000 (2004)
- ADT = 4500 (2024)
- DESIGN SPEED ----- 55 MPH
- TRUCKS ----- 7%
- 24% HR. TRUCKS ----- 9%
- DIRECTIONAL ----- 60%

**DRAINAGE DATA**

DRAINAGE AREA ----- 144 SQ MI

**(CREEK FLOODS)**

FLOOD FREQUENCY	DISCHARGE	VELOCITY	AREA OF OPENING UNDER HIGHWATER
50 YEAR	13663 CFS	3.66 FPS	3735 SQ FT
100 YEAR	16056 CFS	3.66 FPS	4389 SQ FT
500 YEAR	22400 CFS	3.83 FPS	5855 SQ FT

**(ABNORMAL FLOODS)**

FLOOD FREQUENCY	DISCHARGE	VELOCITY	AREA OF OPENING UNDER HIGHWATER
50 YEAR	13663 CFS	3.04 FPS	4498 SQ FT
100 YEAR	16056 CFS	3.11 FPS	5162 SQ FT
500 YEAR	22400 CFS	3.78 FPS	5921 SQ FT

**EXISTING UTILITIES**

- TELEPHONE CONDUITS ----- BELL SOUTH
- TELEPHONE CONDUITS ----- ALLTELL

**PROPOSED UTILITIES**

NONE

**GENERAL NOTES**

- SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.
- WORKING DRAWINGS - WHEN SUBMITTING SHOP DRAWINGS FOR THIS PROJECT TO THE D.O.T. GENERAL OFFICE FOR REVIEW, THEY SHALL BE SENT TO THE OFFICE OF CONSULTANT DESIGN.
- REINFORCING STEEL - ALL REINFORCING STEEL SHALL BE PLACED AND TIED IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.
- DETOUR BRIDGE - DETOUR BRIDGE SHALL BE REQUIRED AT THIS SITE, SEE SECTION 541 OF THE GEORGIA DOT SPECIFICATIONS. THE MINIMUM BOTTOM OF BEAM ELEVATION FOR THE DETOUR BRIDGE SHALL BE 690.52.
- CHAMFER - ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/8 INCH UNLESS OTHERWISE NOTED.
- TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.
- EXISTING BRIDGE PLANS - PLANS FOR EXISTING BRIDGE MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 656-5401. THE EXISTING BRIDGE WAS BUILT UNDER PROJECT NUMBER F-2709(2).
- WAITING PERIOD - NONE REQUIRED.
- PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
- DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 1 AND 5.
- 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 DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.
- STANDARD PLAN MODIFICATION - THE APPROACH SLAB STANDARD SHALL BE MODIFIED AT BENT 5 TO INCREASE THE 3/8 INCH EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND THE ENDPPOST TO 1 INCH. SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.
- GROOVED CONCRETE - THE ENTIRE LENGTH OF THE BRIDGE SHALL BE GROOVED TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.
- 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 GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH. ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING.
- 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 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	1657	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (486)
500-2100	698	LF	CONCRETE BARRIER
500-3101	129	CY	CLASS A CONCRETE
507-9003	1419	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 1
507-9031	685	LF	PSC BEAMS, AASHTO, BULB TEE, 63 IN, BR NO - 1
511-1000	21187	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (117671)
520-1147	610	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
524-0010	81	LF	DRILLED CAISSON - 42 IN
524-0010	140	LF	DRILLED CAISSON - 48 IN
540-1101	LUMP		REMOVAL OF EXISTING BR, STA NO-117+53
541-5438	LUMP		DETOUR BRIDGE, 24 FT X 200 FT, STA-118+06
603-2024	2740	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	2740	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1



**J.B. Trimble, Inc.**  
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GEORGIA

**DEPARTMENT OF TRANSPORTATION**  
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES  
SR 74 & 85 OVER RED OAK CREEK

MERIWETHER COUNTY

BRST-074-1(52)

SCALE: NO SCALE U.N.O.

MAY 2004

BRIDGE SHEET 2 OF 14	BY	DESIGNED JKM	CHECKED GLE	REVIEWED RJS
		DRAWN SHG	DESIGN GROUP EJC	APPROVED PVL