

**DRAINAGE DATA**

DRAINAGE DATA OBTAINED FROM EXISTING PLANS

DRAINAGE AREA ----- 9.80 SQ MILES

FLOOD FREQUENCY	DISCHARGE	VELOCITY	AREA OF OPENING UNDER HIGHWATER
50 YEAR	4829 CFS	5.20 FPS	929 SQ FT
100 YEAR	5622 CFS	4.99 FPS	1126 SQ FT
500 YEAR	7375 CFS	6.52 FPS	1150 SQ FT

**DESIGN DATA**

SPECIFICATIONS ----- AASHTO 1996 AND 1997, 1998 AND 1999 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,  $f'_c = 5,000$  PSI  
PSC BEAM ALLOWABLE TENSION ----- 100 PSI  
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 = 19600 (2005)  
ADT = 37400 (2020)

DESIGN SPEED ----- 45 MPH

TRUCKS ----- 5 %

DIRECTIONAL ----- 55 %

**UTILITIES**

NONE

**CONSTRUCTION SEQUENCE**

- BUILD BRIDGE NO. 1 LEFT ACCORDING TO PLANS.
- SHIFT SOUTHBOUND TRAFFIC TO BR. NO. 1 LT. MAINTAINING TWO 12'-0" TRAFFIC LANES.
- REMOVE EXISTING BARRIER AND END POSTS.
- COMPLETE SIDEWALK OVERHANG CONSTRUCTION ACCORDING TO PLANS.
- OPEN COMPLETED BRIDGE TO TRAFFIC.

THE AFOREMENTIONED SEQUENCE SHALL BE COORDINATED WITH ROADWAY OPERATIONS, SEE ROADWAY PLANS. IN LIEU OF THE ABOVE CONSTRUCTION SEQUENCE, THE CONTRACTOR MAY SUBMIT A PROPOSED CONSTRUCTION SEQUENCE FOR APPROVAL.

**GENERAL NOTES**

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

REINFORCING STEEL - ALL REINFORCING STEEL SHALL BE PLACED AND TIED ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.

CHAMFER - ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4 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 BRF-189-1(27).

DIMENSIONS AND ELEVATIONS - ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR BUILDING FORMS. LIGHT LINES INDICATE THE EXISTING STRUCTURE AND HEAVY LINES INDICATE THE NEW STRUCTURE.

EPOXY RESIN ADHESIVE - EPOXY RESIN ADHESIVE TYPE II SHALL BE APPLIED TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF THE GEORGIA DOT SPECIFICATIONS. COST OF EPOXY ADHESIVE AND ITS APPLICATION SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

EXISTING REINFORCEMENT - EXISTING REINFORCEMENT TO BE UTILIZED IN NEW CONSTRUCTION SHALL BE BENT IN A MANNER TO PROVIDE THE MAXIMUM LAP POSSIBLE OR AS SHOWN ON THE PLANS. EXISTING REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF CONCRETE SCALE AND RUST BEFORE BONDING INTO NEW CONSTRUCTION.

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 4.

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. FOOT.

PROTECTIVE SURFACE TREATMENT - PROTECTIVE SURFACE TREATMENT WILL BE REQUIRED AT THIS SITE AS PER SUB-SECTION 500.3.05.AD 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 OR MORE LANES.

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.

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 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.

**VOID**

IDENTICAL ITEMS - ONLY IDENTICAL 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 CLEANING AND BENDING OF EXISTING REINFORCEMENT, WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

**SUMMARY OF QUANTITIES**

PAY ITEM NUMBER	QUANTITIES		UNIT	PAY ITEM
	LEFT BRIDGE	RIGHT BRIDGE		
500-0100	436	----	SY	GROOVED CONCRETE
500-1006	LUMP	----	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 LT (221)
500-1006	----	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 RT (87)
500-2100	134	----	LF	CONCRETE BARRIER
500-3101	113	----	CY	CLASS A CONCRETE
507-9001	202	----	LF	PSC BEAMS, AASHTO TYPE I, BR NO - 1 LT
507-9003	481	----	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 1 LT
511-1000	14472	----	LB	BAR REINF STEEL
511-3000	LUMP	----	LS	SUPERSTR REINF STEEL, BR NO - 1 LT (47870)
511-3000	----	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 RT (14449)
516-1400	134	134	LF	ALUM HANDRAIL, STD 3632
520-1104	405	----	LF	PILING IN PLACE, STEEL H, HP 10 X 42
520-4104	1	----	EA	LOAD TEST, STEEL H, HP 10 X 42 (IF REQD)
524-0010	184	----	LF	DRILLED CAISSON - 54 IN
524-0300	1	----	EA	LOAD TEST, CAISSON - 54 IN
540-1202	----	LUMP		REMOVAL OF PARTS OF EXISTING BR, BR NO - 1 RT
603-2024	881	----	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	881	----	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1 - LT. & RT.

DATE		REVISIONS		BY	
GEORGIA <b>DEPARTMENT OF TRANSPORTATION</b> PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN					
<b>GENERAL NOTES</b> STATE BRIDGE RD. OVER JOHN'S CREEK FULTON COUNTY      BRF-189-1(27) CO. CT. 2					
NO SCALE			SEPTEMBER 2002		
DESIGNED LA II	CHECKED JBK	REVIEWED JPT/MCD	DESIGNED LA II	CHECKED JBK	REVIEWED JPT/MCD
DRAWN WRW	DESIGN GROUP LA II	APPROVED PVL	DRAWN WRW	DESIGN GROUP LA II	APPROVED PVL

BRIDGE SHEET  
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