

EACH BRIDGE CONSISTS OF:

- 2 - 71'-10" TYPE III PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - CONCRETE END BENT ----- SPECIAL DESIGN
- 1 - CONCRETE INTERMEDIATE BENT ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
- (L = 4'-0"; W = 1'-1"; H = 2'-8")
- (L = 6'-6"; 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 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, $f_c = 5,500$ PSI
- PSC BEAM ALLOWABLE TENSION ----- 445 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 = 21,050 (2004)
- ADT = 35,200 (2024)
- % 24 HR TRUCKS ----- 8%
- % TRUCKS ----- 6%
- DIRECTIONAL DIST ----- 55%/45%
- SPEED DESIGN ----- 55 MPH

EXISTING UTILITIES

- GAS MAIN ----- ATLANTA GAS LIGHT COMPANY
- TELEPHONE CONDUITS ----- BELLSOUTH

UTILITIES

- 4 TELEPHONE CONDUITS ----- BELLSOUTH

DRAINAGE DATA

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER HIGHWATER
50 YEAR	3722 CF/S	7.35 FT/S	506 SF
100 YEAR	4393 CF/S	7.78 FT/S	565 SF
500 YEAR	6181 CF/S	8.87 FT/S	697 SF

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 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.
- TEMPORARY SHORING - THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.
- 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 PR-657(3); THE EXISTING BRIDGE WAS WIDENED UNDER PROJECT NUMBER S.1424(1).
- WAITING PERIOD - NONE REQUIRED.
- END BENT EXCAVATION - COST OF EXCAVATION FOR BENTS 1 AND 3 SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.
- INTERMEDIATE BENT EXCAVATION - WHEN EXCAVATING, CARE SHALL BE TAKEN NOT TO DISTURB THE EXISTING FOOTINGS.
- FOOTING ELEVATIONS - FOOTING ELEVATIONS, AS SHOWN ON THE PLANS, SHALL NOT BE LOWERED MORE THAN THREE FEET WITHOUT THE APPROVAL OF THE STATE BRIDGE ENGINEER.
- COFFERDAMS - COFFERDAMS ARE TO BE LOCATED AT BENTS 2 LEFT AND 2 RIGHT.
- 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.
- UTILITY HANGERS - INSERTS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. INSERTS SHALL BE GRINNELL FIGURE 282 OR APPROVED EQUAL. COST OF FURNISHING AND INSTALLING INSERTS SHALL BE INCLUDED IN OVERALL BID SUBMITTED. ALL OTHER COMPONENTS OF HANGER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY UTILITY OWNER.
- 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.
- 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.
- WATERPROOFING - WATERPROOFING SHALL BE PLACED BETWEEN THE SUPERSTRUCTURE AND SUBSTRUCTURE AND AT SUBSTRUCTURE EXPANSION AND CONSTRUCTION JOINTS. INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING WATERPROOFING IN THE PRICE BID FOR SQUARE YARDS OF WATERPROOFING.
- 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 JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

CONSTRUCTION SEQUENCE

- STAGE 1: MAINTAIN TRAFFIC ON EXISTING BRIDGE. CONSTRUCT LEFT BRIDGE AND LEFT PORTION OF MEDIAN WALL. SHIFT TRAFFIC TO THE LEFT BRIDGE.
- STAGE 2: REMOVE THE EXISTING BRIDGE.
- STAGE 3: CONSTRUCT RIGHT BRIDGE AND REMAINDER OF MEDIAN WALL AND OPEN 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.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITIES		UNIT	PAY ITEM
	LEFT BRIDGE	RIGHT BRIDGE		
211-0300	21	21	CY	BRIDGE EXCAVATION, STREAM CROSSING
500-0100	575	575	SY	GROOVED CONCRETE
500-1006	LUMP	----	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 LT (208)
500-1006	----	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 RT (208)
500-2100	272	272	LF	CONCRETE BARRIER
500-3101	414	582	CY	CLASS A CONCRETE
507-9003	694	---	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 1 LT
507-9003	---	694	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 1 RT
511-1000	37984	68555	LB	BAR REINF STEEL
511-3000	LUMP	----	LS	SUPERSTR REINF STEEL, BR NO - 1 LT (46507)
511-3000	----	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 RT (46668)
525-1000			EA	COFFERDAM
530-1004	51	52	SY	WATERPROOFING, COMPOSITE
540-1101	----	LUMP		REMOVAL OF EXISTING BR, STA NO - 389+17
603-2024	330	330	SY	STN DUMPED RIPRAP, TP 1, 24 IN
603-7000	330	330	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1 LEFT & RIGHT

Heath & Lineback Engineers
INCORPORATED
12 POWDER SPRINGS STREET, SUITE 240
MARIETTA, GEORGIA 30064

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES
S.R. 34 OVER SHOAL CREEK

COWETA COUNTY BHF-164-(37)

NO SCALE JANUARY 2003

DESIGNED	KJK	CHECKED	MS	REVIEWED	JPT/MCD
DRAWN	BJ	DESIGN GROUP	IAB	APPROVED	PVL

BRIDGE SHEET
2 OF 17

REVISIONS	DATE
BY	DATE
MS	12-02-03
MS	12-02-03
MS	12-02-03

15-00163-0001 CREEK BRIDGE S.34 CR 300