STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRMLB-9004-00(008)	497	701

BRIDGE CONSISTS OF

1 - 150'-0" BULB TEE, 74 INCH, PSC BEAM SPAN ---------- SPECIAL DESIGN

2 - STEEL H PILE END BENTS ---------- SPECIAL DESIGN

3 - END POST AND GUARDRAIL ATTACHMENT DETAIL ------- GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 2'-10")

BAR BENDING DETAILS ---------- GA. STD. 3901 (8-69)

CONCRETE BARRIERS - TEMPORARY ---------- GA. STD. 4960 (2-1-01)

CHAIN LINK WIRE FENCE ---------- GA. STD. 9031N (8-13-85)

TYPICAL FILL DETAIL AT END OF BRIDGE ---------- GA. STD. 9037 (9-99)

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
PSC BEAMS ---------- CLASS AAA, f'_c = 10,000 PSI
PSC BEAM ALLOWABLE TENSION ---------- 600 PSI
SUBSTRUCTURE ---------- CLASS A, f'_c = 3,000 PSI

REINFORCEMENT STEEL ---------- GRADE 60, f_y = 60,000 PSI

PRETENSIONING STRANDS ---------- f'_s = 270,000 PSI

TRAFFIC DATA

TRAFFIC ---------- ADT = 12,842 (2008)
ADT = 15,134 (2028)

DESIGN SPEED ---------- 45 MPH

TRUCKS ---------- 5 %

DIRECTIONAL ---------- 50 %

UTILITIES

2 INCH DIAMETER GAS MAIN ---------- ATLANTA GAS LIGHT COMPANY

12 - 4" CONDUITS ---------- AT&T

10 INCH DIAMETER WATER MAIN ---------- COBB CO. WATER & SEWER

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS 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 ¾" UNLESS OTHERWISE NOTED.

PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 15'-0" ABOVE SR 3.

TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.

TEMPORARY BARRIERS, METHOD 2 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 TO PROVIDE FOR 2 - 11'-4½" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SECTION 620 OF THE GEORGIA DOT SPECIFICATIONS.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS ARE NOT AVAILABLE.

EPOXY RESIN ADHESIVE - APPLY EPOXY RESIN ADHESIVE TYPE II 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. INCLUDE THE COST OF EPOXY ADHESIVE AND ITS APPLICATION IN THE OVERALL BID SUBMITTED.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

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

SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS 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 ANCHOR BOLT HOLES.

ABUTMENT SOIL REINFORCING DEVICE INSERTS - INCLUDE THE COST OF FURNISHING AND INSTALLING INSERTS FOR SOIL REINFORCING DEVICES AT ABUTMENT IN THE OVERALL BID SUBMITTED.

UTILITY CASING - ENCASE GAS AND WATER MAINS WITHIN THE LIMITS OF THE WALL BACKFILL IN A CONCRETE PIPE EXTENDING FROM THE BACK FACE OF THE BRIDGE END WALL TO 2'-0" BEYOND THE LIMIT OF THE MSE WALL BACKFILL MATERIAL. THE PIPE SHALL BE SUPPLIED AND PLACED BY THE UTILITY OWNER DURING CONSTRUCTION OF THE WALL; TAKE CARE NOT TO DAMAGE WALL BACKFILL STABILIZING DEVICES.

TELEPHONE CONDUIT AND GAS MAIN HANGERS - FURNISH AND INSTALL INSERTS. INSERTS SHALL BE ANVIL INTL. FIGURE 282, AAA TECHNOLOGY FIGURE 912, OR APPROVED EQUAL. INCLUDE THE COST OF FURNISHING AND INSTALLING INSERTS IN THE OVERALL BID SUBMITTED. ALL OTHER COMPONENTS OF HANGER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY UTILITY OWNER.

WATER MAIN HANGERS - PIPE ROLL SUPPORT ASSEMBLIES AND KEEPER STRAPS SHALL BE FURNISHED AND INSTALLED BY THE UTILITY OWNER. FURNISH AND INSTALL ALL OTHER COMPONENTS OF HANGER ASSEMBLIES AND INCLUDE THE COST IN THE OVERALL BID SUBMITTED.

HIGH PERFORMANCE CONCRETE (HPC) - PRESTRESSED CONCRETE BEAMS FOR THIS BRIDGE UTILIZE HIGH PERFORMANCE CONCRETE. SPECIAL REQUIREMENTS ARE REQUIRED AS DETAILED IN SPECIAL PROVISIONS SECTIONS 500 AND 865. HPC PSC BEAMS WILL BE PAID FOR AS "PSC BEAMS."

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.

CHAIN LINK FENCE - CHAIN LINK FENCE SHALL BE PAID FOR AS "LF CH LK FENCE, ZC COAT, 6 FT, 9 GA".

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.

SALVAGE - THE FIVE (5) STRUCTURAL STEEL BEAMS SHALL BE SALVAGED FROM THE EXISTING BRIDGE AS A PART OF THIS CONSTRUCTION PROJECT. THE RESULTING BEAM LENGTHS FOR SINGLE SPAN WILL BE APPROXIMATELY 50 FEET. THE SALVAGED MATERIALS FROM THIS BRIDGE SHALL BE DELIVERED TO THE DISTRICT 6 STORAGE AREA LOCATED IN CARTERSVILLE, GEORGIA. THE DISTRICT MOTOR POOL SUPERVISOR (WAYNE EVANS) SHALL BE CONTACTED 2 WEEKS PRIOR TO DELIVERY TO ALLOW FOR ARRANGEMENT OF UNLOADING THESE MATERIALS. THE CONTRACTOR IS TO LOAD, TRANSPORT, AND UNLOAD BEAMS.

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.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	633	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2 (362.5)
500-3101	57	CY	CLASS A CONCRETE
507-9033	1334	LF	PSC BEAMS, AASHTO, BULB TEE, 74 IN, BR NO - 2
511-1000	65711	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 2 (56515)
520-1151	1813	LF	PILING IN PLACE, STEEL H, HP 14 X 89
520-4151	1	EA	LOAD TEST, STEEL H, HP 14 X 89 (IF REQD)
540-1102	LUMP		REMOVAL OF EXISTING BR, BR NO - 2
620-0200	150	LF	TEMPORARY BARRIER, METHOD NO 2
643-1152	284	LF	CH LK FENCE, ZC COAT, 6 FT, 9 GA

BRIDGE NO. 2

ARCADIS
2849 PACES FERRY ROAD, SUITE 400
ATLANTA, GEORGIA 30339
TEL: 770/431-8666 FAX: 770/435-2666

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES
CR 4455 (CANTON ROAD) OVER SR 3

COBB COUNTY BRMLB-9004-00(008)

SCALE: NO SCALE JULY 2010

DATE	REVISIONS	BY

DRAWING NO. 35-22
BRIDGE SHEET 3 OF 13

DESIGNED	MDM	CHECKED	JPT	REVIEWED	WEI/WMD
DRAWN	MLF	DESIGN GROUP	RAG	APPROVED	PVL

User Name: kbaker Date: 2/8/2011 Time: 5:07:57 PM Filename: gi\tr-0\6237i-62\bridge\drawings\new canton rd\canton-gn.dgn