STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	EDS00-0545-00(018)	274	431

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 3/4" UNLESS OTHERWISE NOTED.

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

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER S.N.F.A.P.417-D(3).

WAITING PERIOD - DO NOT BEGIN WORK AT BENTS I AND II UNTIL THE COMPLETED END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 60 DAYS.

COFFERDAMS - PROVIDE COFFERDAMS AT BENTS 7, 8 AND 9 ON THE LEFT BRIDGE AND AT BENTS 7 AND 8 ON THE RIGHT BRIDGE.

FOUNDATION BACKFILL MATERIAL - PLACE 1'-0" OF TYPE II FOUNDATION BACKFILL MATERIAL UNDER EACH FOOTING AT BENTS 6, 7, 8 AND 9. THE QUANTITY IS BASED ON THE PLAN FOOTING DIMENSIONS PLUS 2'-0".

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PDA TESTING - PILE DATA ANALYZER WILL BE UTILIZED BY THE GEORGIA DOT DURING THE PILE DRIVING OPERATION. NOTIFY THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH AT 404-608-4720 TWO WEEKS PRIOR TO DRIVING PILES.

PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATIONS SHOWN, ALLOW PILES TO FREEZE A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER.

BENT NUMBER	PILE TIP ELEVATION
1 - 3	77.0
4 & 5	69.0
6	62.0
7 & 8	67.0
9 & 10	69.0
11	77.0

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 1, 4, 7 AND 10.

PILE ENCASEMENT - ENCASE PILES AT BENTS 2 THRU 5 AND BENT 10 IN CONCRETE FROM 2'-0" BELOW THE EXISTING GROUND UP TO 2'-0" ABOVE GROUND OR 2'-0" ABOVE NORMAL WATER, WHICHEVER IS GREATER. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA DOT SPECIFICATIONS.

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 FORMED HOLES.

STANDARD PLAN MODIFICATION - MODIFY THE APPROACH SLAB STANDARD TO INCREASE THE 3/4" EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1" AT END BENT 1. SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

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.

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.

SPECIAL PROTECTIVE COATING - CLEAN AND PAINT PILES WITH SPECIAL PROTECTIVE COATING NO. 2P IN ACCORDANCE WITH SECTIONS 520 AND 535 OF THE GEORGIA DOT SPECIFICATIONS.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.

GENERAL NOTE (CON'T.)

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.

EACH BRIDGE CONSISTS OF

5 - 58'-0" TYPE II PSC BEAM SPANS ---------- SPECIAL DESIGN

3 - 70'-0" TYPE III PSC BEAM SPANS ---------- SPECIAL DESIGN

2 - 60'-0" TYPE II PSC BEAM SPANS ---------- SPECIAL DESIGN

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

5 - STEEL H PILE INTERMEDIATE BENTS ---------- SPECIAL DESIGN

4 - 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 (9-99)

CONSTRUCTION SEQUENCE

1. MAINTAINING TRAFFIC ON EXISTING BRIDGE.

2. BUILD RIGHT BRIDGE ACCORDING TO PLANS.

3. SHIFT TRAFFIC TO RIGHT BRIDGE.

4. BUILD LEFT BRIDGE ACCORDING TO PLANS.

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.

DRAINAGE DATA

DRAINAGE AREA ---------- 620 SQ MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	DISCHARGE THROUGH BRIDGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	17,900 CFS	15,176 CFS	4.29 FPS	2,662 SQ FT	0.13 FT
100 YEAR	21,600 CFS	18,045 CFS	4.73 FPS	3,951 SQ FT	0.18 FT
500 YEAR	32,000 CFS	25,818 CFS	5.84 FPS	4,604 SQ FT	0.21 FT

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 = SEE BEAM SHEETS
PSC BEAM ALLOWABLE TENSION ---------- SEE BEAM SHEETS
SUBSTRUCTURE ---------- CLASS AA, f'_c = 3,500 PSI

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

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

UTILITIES

NONE

TRAFFIC DATA

TRAFFIC ---------- ADT = 4,500 (2013)
ADT = 6,400 (2033)

DESIGN SPEED ---------- 65 MPH

TRUCKS ---------- 27 %

24 HR TRUCKS ---------- 22 %

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

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	LEFT BRIDGE	RIGHT BRIDGE	UNIT	PAY ITEM
207-0203	27	27	CY	FOUND BKFILL MATL, TP II
211-0300	190	190	CY	BRIDGE EXCAVATION, STREAM CROSSING
500-0100	2342	2342	SY	GROOVED CONCRETE
500-1006	LUMP	****	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2 (680)
500-1006	****	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2 (680)
500-2100	1228	1228	LF	CONCRETE BARRIER
500-3002	203	203	CY	CLASS AA CONCRETE
507-9002	2023	2023	LF	PSC BEAMS, AASHTO TYPE II, BR NO - 2
507-9003	1041	1041	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 2
511-1000	36733	36733	LB	BAR REINF STEEL
511-3000	LUMP	****	LS	SUPERSTR REINF STEEL, BR NO - 2 (180882)
511-3000	****	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 2 (180882)
520-1125	2970	2970	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-1147	2955	2955	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4125	1	1	EA	LOAD TEST, STEEL H, HP 12 X 53 (IF REQD)
520-4147	1	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
525-1000	6	4	EA	COFFERDAM
540-1102	LUMP	****	LS	REMOVAL OF EXISTING BR, BR NO - 2
547-2014	100	100	LF	PILE ENCASEMENT, 14 IN PILE
603-2024	455	455	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	455	455	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 2 LEFT AND RIGHT

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES SHEET
SR 4 (US 1) OVER OHOOPEE RIVER
EMANUEL COUNTY EDS00-0545-00(018)

DATE | REVISIONS | BY

DRAWING NO. 35-13
BRIDGE SHEET 2 OF 23

NO SCALE JULY 2009

DESIGNED WMD | DRAWN WMC | CHECKED DLC | DESIGN GROUP -- | REVIEWED WEI | APPROVED PVL

FILENAME: E22191GB2.DGN

...\E22191GB2.dgn 12/2/2010 4:18:35 PM macintosh