

BRIDGE CONSISTS OF

- 3 - 110'-0" BULB TEE, 63 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - METAL SHELL PILE END BENTS ----- SPECIAL DESIGN
- 2 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CHAIN LINK WIRE FENCE ----- GA. STD. 903IN (8-13-85)

TRAFFIC DATA

- TRAFFIC ----- ADT = 20,100 (2013)
ADT = 28,600 (2033)
- DESIGN SPEED ----- 35 MPH
- TRUCKS ----- 11.5 %
- 24 HR TRUCKS ----- 11.5 %
- DIRECTIONAL ----- 55 %

UTILITIES

NONE

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.
- ABUTMENT SOIL REINFORCING DEVICE INSERTS - INCLUDE THE COST OF FURNISHING AND INSTALLING INSERT FOR SOIL REINFORCING DEVICES AT ABUTMENT IN THE OVERALL BID SUBMITTED.
- CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

GENERAL NOTES CONT.

- RAIL ELEVATIONS - THE ELEVATIONS OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE NORFOLK SOUTHERN CHIEF ENGINEER OF BRIDGES AND STRUCTURES.
- RAILROAD SIDE DITCHES - PRIOR TO THE BEGINNING OF CONSTRUCTION, CLEAN THE RAILROAD SIDE DITCHES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE. MAINTAIN THE RAILROAD SIDE DITCHES FREE OF SILT AND DEBRIS UNTIL FINAL ACCEPTANCE. SEE ROADWAY PLANS FOR EROSION CONTROL AND PAYMENT.
- PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 22'-0" ABOVE THE TOP OF THE HIGH RAIL.
- TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.
- VIBRATION MONITORING - THE PROJECT ENGINEER SHOULD CONTACT THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH AT 404-363-7546 TWO WEEKS PRIOR TO DRIVING PILES.
- WAITING PERIOD - NONE REQUIRED.
- PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
- METAL SHELL PILES - THE MINIMUM SHELL THICKNESS FOR PILES HAVING AN OUTSIDE DIAMETER OF 18" SHALL BE 5/16". THE MINIMUM SHELL THICKNESS FOR PILES HAVING AN OUTSIDE DIAMETER OF 24" SHALL BE 3/8". USE THESE SHELL THICKNESSES IN LIEU OF THOSE CALLED FOR IN SUB-SECTION 520.3.05.M AND SUB-SECTION 855.2.01.A.1 OF THE GEORGIA DOT SPECIFICATIONS.
- FILL SETTLEMENT - PROTECT PILES DRIVEN AT BENTS 1 AND 4 FROM NEGATIVE SKIN FRICTION WHEN USED IN CONJUNCTION WITH MECHANICALLY STABILIZED EARTH WALLS, SEE SECTION 551 OF THE GEORGIA DOT SPECIFICATIONS. DRIVE PILES AT END BENTS BEFORE WALL LEVELING PADS ARE CONSTRUCTED.
- PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATIONS SHOWN, ALLOW PILES TO FREEZE FOR A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER. PILES ARE NOT TO BE OVERDRIVEN.

BENT NUMBER	PILE TIP ELEVATION
1,2,& 3	182
4	183

- DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENTS 2 AND 4.
- 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 PARAPET AT BENT 1 ONLY TO 1 1/4". 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.
- CHAIN LINK FENCE - CHAIN LINK FENCE SHALL BE PAID FOR AS "LF CH LK FENCE, ZC COAT, 6 FT, 9 GA".
- 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.

VOID

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_p = 270,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0200	360	CY	BRIDGE EXCAVATION, GRADE SEPARATION
500-0100	1834	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (969)
500-3002	336	CY	CLASS AA CONCRETE
507-9031	2608	LF	PSC BEAMS, AASHTO, BULB TEE, 63 IN, BR NO - 1
511-1000	64940	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (166270)
520-1318	1155	LF	PILING IN PLACE, METAL SHELL, 18 IN OD
520-1324	780	LF	PILING IN PLACE, METAL SHELL, 24 IN OD
520-4318	1	EA	LOAD TEST, METAL SHELL, 18 IN OD (IF REQD)
520-4324	1	EA	LOAD TEST, METAL SHELL, 24 IN OD (IF REQD)
643-1152	660	LF	CH LK FENCE, ZC COAT, 6 FT, 9 GA

BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

GENERAL NOTES
S.R. 38 (U.S. 84) WEST HILL AVENUE
OVER NORFOLK SOUTHERN RAILWAY
LOWNDES COUNTY STPN0-0007-03(033)

NO SCALE JUNE 2011

DRAWING NO.
35-02
BRIDGE SHEET
2 OF 14

DATE	06/27/12
BY	
DESIGNER	J.H.L.-D.
CHECKED	J.H.L.-D.
REVIEWED	W.E.L./W.M.D.
DRAWN	E.M.M.
DESIGN GROUP	E.M.M.
APPROVED	B.F.R.