

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	NH000-0085-02(153)	320	623

BRIDGE CONSISTS OF

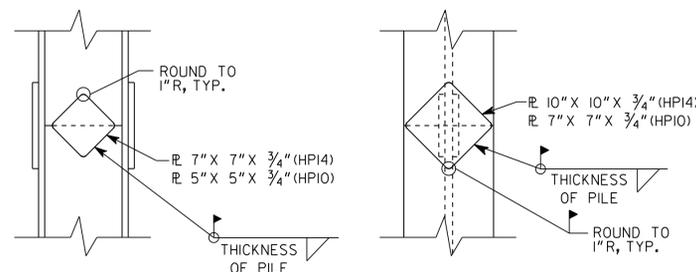
- 1 - 40'-0" TYPE II PSC BEAM SPAN ----- SPECIAL DESIGN WITH 72" BULB TEE FASCIA BEAMS
- 1 - 55'-0" TYPE II PSC BEAM SPAN ----- SPECIAL DESIGN WITH 72" BULB TEE FASCIA BEAMS
- 1 - 137'-0" BULB TEE, 74 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 2 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

TRAFFIC DATA

TRAFFIC -----	ADT = 16,100 (2015)
	ADT = 19,700 (2035)
DESIGN SPEED -----	45 MPH
TRUCKS -----	5.5 %
24 HR TRUCKS -----	6.3 %
DIRECTIONAL -----	100%

UTILITIES

NONE



SPLICE DETAILS FOR PILES

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.
- PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 16'-6" ABOVE BUFORD HIGHWAY.
- TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.
- WAITING PERIOD - NONE REQUIRED.
- FOOTING ELEVATIONS - DO NOT LOWER FOOTING ELEVATIONS, AS SHOWN ON THE PLANS, MORE THAN 3'-0" WITHOUT THE APPROVAL OF THE STATE BRIDGE ENGINEER.
- PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
- PDA TESTING - PILE DATA ANALYZER WILL BE UTILIZED BY THE CONTRACTOR DURING THE PILE DRIVING OPERATION AT BENT 2. FORWARD RESULTS TO THE GEOTECHNICAL ENGINEERING BUREAU.
- PILOT HOLES - DRILL 24" DIAMETER PILOT HOLES IF THE MINIMUM TIP ELEVATIONS CANNOT BE ATTAINED AT BENTS 1 AND 4.
- PILE POINTS - REINFORCE ALL PILE TIPS AT BENT 2 IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATION.
- DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 2.
- 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 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.
- 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.
- 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 WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

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
- STEEL PILES: ----- f_y = 50,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0200	105	CY	BRIDGE EXCAVATION, GRADE SEPARATION
441-0004	558	SY	CONC SLOPE PAV, 4 IN
500-0100	669	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2 (243)
500-2100	463	LF	CONCRETE BARRIER
500-3002	190	CY	CLASS AA CONCRETE
507-9002	182	LF	PSC BEAMS, AASHTO TYPE II, BR NO - 2
507-9032	182	LF	PSC BEAMS, AASHTO, BULB TEE, 72 IN, BR NO - 2
507-9033	541	LF	PSC BEAMS, AASHTO, BULB TEE, 74 IN, BR NO - 2
511-1000	33571	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 2 (27952)
514-1000	LUMP	LS	EPOXY COATED SUPERSTR REINF STEEL, BR NO - 2 (29094)
520-0597	4	EA	H-PILE POINTS, HP 14 X 117
520-1104	590	LF	PILING IN PLACE, STEEL H, HP 10 X 42
520-1179	110	LF	PILING IN PLACE, STEEL H, HP 14 X 117
520-4104	1	EA	LOAD TEST, STEEL H, HP 10 X 42 (IF REQD)
520-4179	1	EA	LOAD TEST, STEEL H, HP 14 X 117 (IF REQD)
520-5000	543	LF	PILOT HOLES

PROJECT P.I. NO. 762380
BRIDGE NO.2

RELEASED FOR CONSTRUCTION
MARCH 15, 2012

		GEORGIA DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES	
		GENERAL NOTES I-85 SOUTHBOUND TO SR 400 NORTHBOUND OVER BUFORD HIGHWAY SR 400/I-85 CONNECTOR RAMPS FULTON COUNTY NH000-0085-02(153)	
DRAWING NO. 35.2 - 2		SCALE: NONE FEBRUARY 2012	
BRIDGE SHEET 2 OF 21		DESIGNED: BKA DRAWN: DRB	CHECKED: MS/KAK DESIGN GROUP:
REVISIONS		REVIEWED:	APPROVED: