STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	NH000-0085-02(153)	341	623

BRIDGE CONSISTS OF

1 - 125'-0 15/16", 130'-4 1/8" & 149'-6 15/16" BULB TEE, 74 IN, PSC BEAM SPANS - 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)

FOUNDATION AND POST DETAILS ---------- N-1B (8-08)

TRAFFIC DATA

TRAFFIC ---------- ADT = 16,100 (2015)
ADT = 19,700 (2035)

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

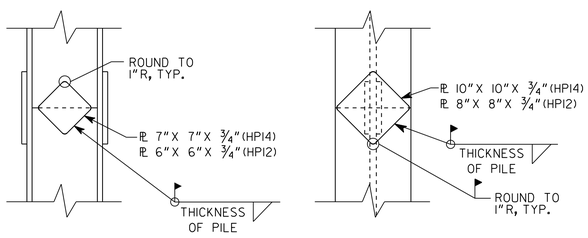
TRUCKS ---------- 5.5%

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 SIDNEY MARCUS BLVD.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PDA TESTING - PILE DATA ANALYZER WILL BE UTILIZED BY THE CONTRACTOR DURING THE PILE DRIVING OPERATION AT BENT 3. FORWARD RESULTS TO THE GEOTECHNICAL ENGINEERING BUREAU.

PILE POINTS - REINFORCE ALL PILE TIPS AT BENTS 2 & 3 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.

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

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

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 1/2". 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 THE COST OF 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	94	CY	BRIDGE EXCAVATION, GRADE SEPARATION
500-0100	1170	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 3 (445)
500-2100	814	LF	CONCRETE BARRIER
500-3002	142	CY	CLASS AA CONCRETE
507-9033	1611	LF	PSC BEAMS, AASHTO, BULB TEE, 74 IN, BR NO - 3
511-1000	29145	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 3 (51586)
514-1000	LUMP	LS	EPOXY COATED SUPERSTR REINF STEEL, BR NO - 3 (52248)
520-0597	8	EA	H-PILE POINTS, HP 14 X 117
520-1125	130	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-1147	220	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-1179	220	LF	PILING IN PLACE, STEEL H, HP 14 X 117
520-4179	1	EA	LOAD TEST, STEEL H, HP 14 X 117 (IF REQD)

RELEASED FOR CONSTRUCTION
MARCH 15, 2012

BRIDGE NO. 3

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

GENERAL NOTES
I-85 SOUTHBOUND TO SR 400 NORTHBOUND
OVER SIDNEY MARCUS BLVD.
SR 400/I-85 CONNECTOR RAMPS
FULTON COUNTY NH000-0085-02(153)

NO SCALE FEBRUARY 2012

DRAWING NO. 35.3 - 2
BRIDGE SHEET 2 OF 19

REVISIONS: BY | DATE

DESIGNED GBL | CHECKED MS/KAK | REVIEWED
DRAWN JRL | DESIGN GROUP | APPROVED

1 INCH WHEN PRINTED FULL SIZE

J:/2011026/BRIDGE/BRIDGE 3/3-2_GN.DGN