

BRIDGE CONSISTS OF

- 1 - 141'-6" BULB TEE, 74 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - PSC PILE END BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)  
(L = 4'-6"; W = 1'-1"; H = 3'-6")  
(L = 4'-3"; W = 1'-1"; H = 3'-6")
- SQUARE PRESTRESSED CONCRETE PILES ----- GA. STD. 3215 (2-22-84)
- ONE PIPE ALUMINUM HANDRAILING ----- GA. STD. 3626 (10-22-85)
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)

TRAFFIC DATA

- TRAFFIC ----- ADT = 15060 (2010)  
ADT = 25932 (2030)
- DESIGN SPEED ----- 45 MPH
- TRUCKS ----- 4%
- 24 HR TRUCKS ----- 6%
- DIRECTIONAL ----- 50/50

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.

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 S.R. II (INDUSTRIAL HWY).

WAITING PERIOD - DO NOT BEGIN WORK AT BENTS 1 AND 2 UNTIL THE COMPLETED END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 30 DAYS.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

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

BENT NUMBER	PILE TIP ELEVATION
1	261.00
2	261.00

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:  
ONE 24 IN SQ PSC X 65 FT AT BENT 1, BEAM 2  
ONE 24 IN SQ PSC X 60 FT AT BENT 2, BEAM 10

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. AT FIXED END, EFFECTIVELY WRAP 1013 DOWEL BARS TO PREVENT BOND WITH BEAM CONCRETE. AT EXPANSION END, FORM 1/2" X 3" X 7" DEEP SLOT IN BEAM FOR 1013 DOWEL BARS.

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 2 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 AND END POST AT BENT 1 TO 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.

RIDING QUALITY - THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDE QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTIONS 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.

HIGH PERFORMANCE CONCRETE (HPC) - PRESTRESSED CONCRETE BEAMS FOR SPAN 1 OF 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."

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<sub>c</sub> = 3,500 PSI  
PSC BEAMS ----- CLASS AAA f<sub>c</sub> = SEE BEAM SHEET  
PSC BEAM ALLOWABLE TENSION ----- SEE BEAM SHEET  
SUBSTRUCTURE ----- CLASS A, f<sub>c</sub> = 3,000 PSI

REINFORCEMENT STEEL: ----- GRADE 60, f<sub>y</sub> = 60,000 PSI

PRETENSIONING STRANDS: ----- f<sub>p</sub> = 270,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	1163	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2 (568)
500-3101	94	CY	CLASS A CONCRETE
507-9033	1533	LF	PSC BEAMS, AASHTO, BULB TEE, 74 IN, BR NO - 2
511-1000	10140	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 2 (98011)
516-1100	269	LF	ALUM HANDRAIL, STD 3626
520-2214	460	LF	PILING, PSC, 14 IN SQ
520-2224	1140	LF	PILING, PSC, 24 IN SQ
520-3224	2	EA	TEST PILE, PSC, 24 IN SQ
520-4214	1	EA	LOAD TEST, PSC, 14 IN SQ (IF REQ'D)
520-4224	1	EA	LOAD TEST, PSC, 24 IN SQ (IF REQ'D)

BRIDGE NO.2



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SUITE 220, 2 SUN COURT  
NORCROSS, GA 30092-2865

GEORGIA  
DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES  
SARDIS CHURCH ROAD EXT OVER  
SR II (INDUSTRIAL HWY)  
BIBB COUNTY STP00-0000-00(566)

NO SCALE FEBRUARY 2012

DRAWING NO. 35 - 17	DESIGNED AEN	CHECKED DLS	REVIEWED WMD/WEI
BRIDGE SHEET B2 - 2 OF II	DRAWN AEN	DESIGN GROUP SWW	APPROVED BFR

DATE  
REVISIONS  
BY