

BRIDGE CONSISTS OF

GENERAL NOTES (CONTINUED)

RELEASED FOR CONSTRUCTION: 08/02/2013
 USE ON CONSTRUCTION: 08/01/2014
 USE ON CONSTRUCTION: 10/07/2015
 DESIGN DATA

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSMSL-0008-00(690)	510	730

- 3 - 81'-9" TYPE III PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - PSC PILE END BENTS ----- SPECIAL DESIGN
- 2 - PSC PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
 - 2 - (L = 4'-0"; W = 1'-1"; H = 3'-6")
 - 1 - (L = 6'-3"; W = 1'-1"; H = 3'-6")
 - 1 - (L = 6'-9"; W = 1'-1"; H = 3'-6")
- SQUARE PRESTRESSED CONCRETE PILES ----- SPECIAL DESIGN
 SEE DRAWING NO. 37-01 TO 37-05
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (10-20-97)

DYNAMIC PILE TESTING - PERFORM PILE TESTING USING THE PILE DRIVING ANALYZER (PDA) IN ACCORDANCE WITH SPECIAL PROVISION SECTION 523 ON EACH TEST PILE. NOTIFY THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS AT 404-608-4720 TWO WEEKS PRIOR TO DRIVING PILES.

WAVE EQUATION - PERFORM WAVE EQUATION ANALYSIS (WEAP) IN ACCORDANCE WITH SPECIAL PROVISION 520. PROVIDE RESULTS OF THE WEAP TO THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT FOR REVIEW AND APPROVAL TWO WEEKS PRIOR TO DRIVING PILES.

PILING - PREDRILLING MAY BE NECESSARY AT BENT 1 TO ACHIEVE THE INDICATED PLAN DRIVING OBJECTIVE. THE EXTENT OF PREDRILLING SHALL BE TO ELEVATION -2. SEE SECTION 520 OF THE GEORGIA DOT SPECIFICATIONS.

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:

- ONE 16 IN SQ PSC X 54 FT AT BENT 1
- ONE 20 IN SQ PSC X 57 FT AT BENT 3
- ONE 16 IN SQ PSC X 65 FT AT BENT 4

DRIVING RESISTANCE - DETERMINE DRIVING RESISTANCE FOR PILES USING DYNAMIC PILE TESTING IN ACCORDANCE WITH SPECIAL PROVISION 520.

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 ENDPPOST STANDARD TO INCREASE THE NUMBER OF P401 AND P701 BARS TO PROVIDE 8 OF EACH BAR IN THE 6'-9" ENDPPOST.

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-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.

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. 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 WATERPROFFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN BUILD PROJECT - THIS IS A DESIGN BUILD PROJECT AND QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

SPECIFICATIONS ----- AASHTO LRFD 5TH EDITING, 2010
 (DESIGNED FOR SEISMIC PERFORMANCE ZONE 2)

TYPICAL HL-93 LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE ----- CLASS D, $f'_c = 4,000$ PSI
 BARRIER ----- CLASS D, $f'_c = 4,000$ PSI
 PSC BEAMS ----- CLASS AAA, $f'_c = 9,000$ PSI
 PSC BEAM ALLOWABLE TENSION ----- 285 PSI
 SUBSTRUCTURE ----- CLASS AA, $f'_c = 3,500$ PSI

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

PRETENSIONING STRANDS: ----- $f_p = 270,000$ PSI

TRAFFIC DATA

- TRAFFIC ----- ADT = 23,360 (2012)
 ADT = 30,880 (2032)
- DESIGN SPEED ----- 55 MPH
- TRUCKS ----- 60 %
- 24 HR TRUCKS ----- 55 %
- DIRECTIONAL ----- 54 %

UTILITIES

NO UTILITIES ON BRIDGE

DRAINAGE DATA

DRAINAGE AREA ----- 1.02 SQ MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
25 YEAR	581.0 CFS	1.76 FPS	1,441 SQ FT	0.00 FT
100 YEAR	788.0 CFS	2.00 FPS	1,710 SQ FT	0.00 FT
500 YEAR	1,116.0 CFS	1.99 FPS	2,060 SQ FT	0.00 FT

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

SHOP DRAWINGS - SUBMIT SHOP DRAWINGS TO ENGINEER OF RECORD (EOR) FOR INITIAL REVIEW AND APPROVAL. ONCE APPROVED AND STAMPED BY EOR, EOR SHALL SUBMIT 6 STAMPED SETS TO THE GEORGIA DOT OFFICE OF BRIDGES AND STRUCTURES FOR REVIEW AND APPROVAL.

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.

WAITING PERIOD - DO NOT BEGIN WORK AT BENTS 1 AND 4 UNTIL THE COMPLETED END FILLS ARE IN PLACE AND SETTLEMENT IS COMPLETE. ESTABLISH SETTLEMENT MONITORING POINTS AT EACH BRIDGE BENT LOCATION. SETTLEMENTS ARE TO BE READ BY A SURVEYOR AT LEAST TWICE WEEKLY. ONCE THE CUMULATIVE SETTLEMENT, OVER A PERIOD OF 3 WEEKS, DOES NOT EXCEED 1/4 OF AN INCH, THE SETTLEMENT IS CONSIDERED TO HAVE CEASED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	2375	SY	GROOVED CONCRETE
500-1011	LUMP	LS	SUPERSTR CONCRETE, CL D, BR NO - 5 (814)
500-2100	481	LF	CONCRETE BARRIER
△ 500-3002	217	CY	CLASS AA CONCRETE
507-9003	2412	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 5
△ 511-1000	31513	LB	BAR REINF STEEL
△ 511-3000	29566	LS	SUPERSTR REINF STEEL, BR NO - 5 (194066)194302
520-2216	1,285	LF	PILING, PSC, 16 IN SQ
520-2220	1,725	LF	PILING, PSC, 20 IN SQ
520-3216	2	EA	TEST PILE, PSC, 16 IN SQ
520-3220	1	EA	TEST PILE, PSC, 20 IN SQ
520-4216	1	EA	LOAD TEST, PSC, 16 IN SQ (IF REQD)
520-4220	1	EA	LOAD TEST, PSC, 20 IN SQ (IF REQD)
603-2024	1712	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	1712	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 5



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

GENERAL NOTES
 JIMMY DELOACH CONNECTOR
 OVER TRIBUTARY TO ST. AUGUSTINE CREEK
 CHATHAM COUNTY CSMSL-0008-00(690)

SCALE: NONE AUGUST 2013

DRAWING NO. 35-039	BRIDGE SHEET 2 OF 16	DESIGNED JCW	CHECKED JPS/ANZ	REVIEWED DLC/WMD
		DRAWN JCW/BSB	DESIGN GROUP SKG	APPROVED BFR