

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0013367		

EACH BRIDGE CONSISTS OF

- 5 - WIDENED 40'-0" TYPE I MOD PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - WIDENED SPREAD FOOTING END BENTS ----- SPECIAL DESIGN
- 4 - WIDENED PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 2 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
(L=4'-0"; W= 1'-1"; H= 2'-8")
(L=6'-0"; W= 1'-1"; H= 2'-8")
- BAR BENDING DETAILS ----- GA. STD. 3901(8-69)
- CONCRETE BARRIERS - TEMPORARY ----- GA. STD. 4960 (5-10-07)
- TYPICAL FILL DETAIL AT END OF BRIDGE----- GA. STD. 9037 (9-99)

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

TRAFFIC DATA

TRAFFIC ADT = 112,100 (2020)

DESIGN SPEED 65 MPH

TRUCKS 3 %

24 HR TRUCKS 10 %

UTILITIES

NO UTILITIES ON BRIDGE

GENERAL NOTES

BIG CREEK TRAIL - EXISTING CONCRETE TRAIL AND FENCING PASS UNDERNEATH SPANS 4 AND 5 OF EACH BRIDGE. THE CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND ANY PORTIONS OF THE TRAIL OR FENCE DAMAGED DURING CONSTRUCTION. ADJUST ALIGNMENT OF TRAIL AROUND WIDENED SUBSTRUCTURE.

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2013 EDITION, 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 10'-0" ABOVE GREENWAY TRAIL.

TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.

TEMPORARY BARRIERS, METHOD 2 - PLACE TEMPORARY BARRIER AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 TO PROVIDE FOR 2-11'-0" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SECTION 620 OF THE GEORGIA DOT SPECIFICATIONS.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE OBTAINED ON THE GEORGIA DOT WEBSITE AT: [HTTP://WWW.DOT.GA.GOV/BS/PROJECTS/PROJECTSEARCH](http://www.dot.ga.gov/BS/PROJECTS/PROJECTSEARCH) THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER ADP-056-1(15). (PROJECT ID NO. H006996)

GENERAL NOTES

DIMENSIONS AND ELEVATIONS - VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO ORDERING MATERIALS OR BUILDING FORMS. LIGHT LINES INDICATE THE EXISTING STRUCTURE AND HEAVY LINES INDICATE THE NEW STRUCTURE.

EPOXY RESIN ADHESIVE - APPLY EPOXY RESIN ADHESIVE TYPE II TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OR THE GEORGIA DOT SPECIFICATIONS. INCLUDE THE COST OF EPOXY ADHESIVE AND ITS APPLICATION IN THE OVERALL BID SUBMITTED.

EXISTING REINFORCEMENT - BEND EXISTING REINFORCEMENT TO BE UTILIZED IN NEW CONSTRUCTION IN A MANNER TO PROVIDE THE MAXIMUM CAP POSSIBLE OR AS SHOWN ON THE PLANS. THOROUGHLY CLEAN EXISTING REINFORCEMENT OF CONCRETE SCALE AND RUST BEFORE BONDING INTO NEW CONSTRUCTION.

EXISTING RIP RAP - INCLUDE THE COST OF REMOVING, RELAYING, AND/OR REPLACING RIP RAP IN OVERALL BID SUBMITTED.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILE POINTS - REINFORCE ALL PILE TIPS AT BENTS 2, 3, 4, AND 5 IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATIONS. POINTS WILL NOT BE REQUIRED WHERE PILOT HOLES ARE USED.

PILE BENT SWAYBRACING - SWAYBRACING REQUIRED AT INTERMEDIATE BENTS 2, 3, 4, AND 5.

PILE ENCASEMENT - ENCASE PILES AT BENTS 2, 3, 4, AND 5 IN CONCRETE UP TO ELEVATION 1004 OR 2'-0" ABOVE GROUND, WHICHEVER IS HIGHER. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA DOT SPECIFICATIONS.

* PILOT HOLES - DRILL 24" DIAMETER PILOT HOLES TO MINIMUM TIP ELEVATION AT BENTS 3 AND 4 FOR EACH PILE. AT BENTS 3 AND 4, A MINIMUM PENETRATION OF 5 FEET INTO PWR IS REQUIRED.

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.

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.

EXTERIOR BEAM BRACING - THE CONTRACTOR SHALL PROVIDE BRACING BETWEEN THE EXTERIOR BEAM AND THE FIRST INTERIOR BEAM UNTIL THE DECK HAS BEEN POURED AND THE OVERHANG FORMS ARE REMOVED. ALL COSTS FOR DESIGNING, FURNISHING, INSTALLING, AND REMOVING BRACING SHALL BE INCLUDED IN PRICE BID FOR LUMP - SUPERSTRUCTURE CONCRETE.

EXISTING BRIDGE JOINTS - CLEAN EXISTING BRIDGE EXPANSION JOINTS OF ALL DIRT, REFUSE, AND EXISTING SEALANT AND SEAL JOINTS USING LOW DENSITY POLYETHYLENE SEAL AS PER SECTION 449.2.D OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE THE COST OF MATERIALS AND INSTALLATION IN THE OVERALL BID SUBMITTED.

SPECIAL PROTECTIVE COATING - CLEAN AND PAINT PILES AND SWAYBRACING WITH SPECIAL PROTECTIVE COATING NO. 2P IN ACCORDANCE WITH SECTIONS 520 AND 535 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 TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

SLAVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.

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 CLEANING AND BENDING OF EXISTING REINFORCEMENT, WATERPROOFING, JOINT FILLERS AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DRAINAGE DATA

DRAINAGE AREA ----- 42.2 SQ MILES					
FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER	
50 YEAR	6,240 CFS	7.06 FPS	884 SQ FT	2.03 FT	
100 YEAR	7,170 CFS	7.47 FPS	960 SQ FT	2.44 FT	
500 YEAR	9,500 CFS	8.39 FPS	1132 SQ FT	3.27 FT	

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY BRIDGE LEFT	QUANTITY BRIDGE RIGHT	UNIT	PAY ITEM
500-0100	250	250	SY	GROOVED CONCRETE
500-1006	LUMP	---	LS	SUPERSTR CONCRETE, CL AA, BR NO - I LT (105)
500-1006	---	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - I RT (105)
500-2100	191	191	LF	CONCRETE BARRIER
500-3101	48	48	CY	CLASS A CONCRETE
501-2100	2500	2500	LB	STR STEEL, SWAYBRACING
507-8900	384	---	LF	PSC BEAMS, AASHTO TYPE I, BR NO - I LT
507-8900	---	384	LF	PSC BEAMS, AASHTO TYPE I, BR NO - I RT
511-1000	4145	4145	LB	BAR REINF STEEL
511-3000	LUMP	---	LS	SUPERSTR REINF STEEL, BR NO - I LT (26110)
511-3000	---	LUMP	LS	SUPERSTR REINF STEEL, BR NO - I RT (26110)
519-0515	1200	1200	SY	SURFACE PREPARATION
520-0530	1200	1200	SY	POLYMER OVERLAY
520-0353	4	4	EA	H-PILE POINTS, HP 12 X 53
520-0573	4	4	EA	H-PILE POINTS, HP 14 X 73
520-1125	140	152	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-1147	152	152	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-5000	20	20	LF	PILOT HOLES *
521-1000	1	---	SF	PATCHING CONCRETE BRIDGE DECK
540-1201	LUMP	---	LS	REMOVAL OF PARTS OF EXISTING BR, STA. NO. 140+78.69
540-1201	---	LUMP	LS	REMOVAL OF PARTS OF EXISTING BR, STA. NO. 140+28.46
547-2012	120	90	LF	PILE ENCASEMENT, 12 IN PILE
547-2014	40	40	LF	PILE ENCASEMENT, 14 IN PILE
603-2024	81	81	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	81	81	SY	PLASTIC FILTER FABRIC
620-0200	191	191	LF	TEMPORARY BARRIOR, METHOD NO. 2

* PILOT HOLES ONLY REQUIRED IF NEEDED TO MEET BFI REQUIREMENTS.

BRIDGE NO. 1 LEFT AND RIGHT



GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF INNOVATIVE DELIVERY

GENERAL NOTES
S.R. 400 BRIDGES OVER BIG CREEK
FORSYTH COUNTY 0013367

SCALE: 1" = 20'-0" (UNLESS NOTED) AUGUST 2015

DRAWING NO. 35-0002	DESIGNED	MDN	CHECKED	PWG	REVIEWED	DLC
	DRAWN	RMH	DESIGNED	DLC	APPROVED	WMD
BRIDGE SHEET 2 OF 18	DATE	BY	REVISIONS			