

EACH WIDENED BRIDGE CONSISTS OF

- 1 - 4 SPAN W BEAM COMPOSITE CONTINUOUS UNIT ----- SPECIAL DESIGN
(65'-6", 88'-0", 88'-0", 50'-6")
- 2 - CONCRETE END BENTS ----- SPECIAL DESIGN
- 3 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
(L = 4'-0", W = 1'-1", H = 2'-8")
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CONCRETE BARRIERS - TEMPORARY ----- GA. STD. 4960 (5-10-07)
- DETAILS OF PRECAST TEMPORARY BARRIERS-----GA. STD. 4961 (9-8-06)
- 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

CONCRETE: SUPERSTRUCTURE ----- CLASS AA, $f'_c = 3,500$ PSI
SUBSTRUCTURE ----- CLASS AA, $f'_c = 3,500$ PSI

STRUCTURAL STEEL BEAMS ----- LOAD FACTOR DESIGN

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

TRAFFIC DATA

TRAFFIC ----- ADT= 38,800 (2015)
ADT= 52,180 (2035)

DESIGN SPEED ----- 45 MPH

TRUCKS ----- 7%

24 HR TRUCKS ----- 7%

DIRECTIONAL ----- 59%

EXISTING UTILITIES

8" Ø GAS MAIN ----- ATLANTA GAS LIGHT COMPANY

12-4" Ø TELEPHONE DUCTS ----- AT&T

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 $\frac{3}{4}$ " 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'-8" ABOVE SR 166.

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

GENERAL NOTES (CON'T)

TEMPORARY BARRIERS, METHOD 1 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 AND 4961 TO PROVIDE FOR TWO 12'-0" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SPECIAL PROVISION SECTION 620.

TEMPORARY BARRIERS, METHOD 2 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 AND 4961 TO PROVIDE FOR TWO 12'-0" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SPECIAL PROVISION SECTION 620.

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

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER DP-RF-021-1 (8) LOOP.

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 THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF 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 LAP POSSIBLE OR AS SHOWN ON THE PLANS. THOROUGHLY CLEAN EXISTING REINFORCEMENT OF CONCRETE SCALE AND RUST BEFORE BONDING INTO NEW CONSTRUCTION.

EXISTING SLOPE PAVING - TAKE CARE TO PREVENT DAMAGING THE EXISTING SLOPE PAVING. REPAIR ANY DAMAGE THAT OCCURS TO THE SLOPE PAVING, OTHER THAN THAT REQUIRED TO BE REMOVED FOR SUBSTRUCTURE EXCAVATION AND TO TIE NEW SLOPE PAVING INTO EXISTING SLOPE PAVING. MATCH THE NEW SLOPE PAVING TO EXISTING SLOPE PAVING. INCLUDE THE COST FOR REMOVAL OF SLOPE PAVING IN PRICE BID FOR "LUMP REMOVAL OF PARTS OF EXISTING BR".

WAITING PERIOD - NONE REQUIRED.

INTERMEDIATE BENT EXCAVATION - WHEN EXCAVATING, TAKE CARE NOT TO DISTURB THE EXISTING FOOTINGS. BLASTING WILL NOT BE ALLOWED.

FOOTING ELEVATIONS - DO NOT LOWER FOOTING ELEVATIONS, AS SHOWN ON THE PLANS, MORE THAN 3'-0" WITHOUT THE APPROVAL OF THE STATE BRIDGE ENGINEER.

ANCHOR BOLTS - PLACE ANCHOR BOLTS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE AS PER SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR ANCHOR BOLT HOLES.

UTILITY HANGERS - FURNISH AND INSTALL CONCRETE INSERTS. USE ANVIL FIGURE 282, AAA TECHNOLOGY FIGURE 912 OR APPROVED EQUAL CONCRETE INSERTS. INCLUDE THE COST OF FURNISHING AND INSTALLING CONCRETE INSERTS IN THE OVERALL BID SUBMITTED. ALL OTHER COMPONENTS OF HANGER ASSEMBLIES SHALL BE FURNISHED BY THE UTILITY OWNER. TELEPHONE HANGER ASSEMBLIES SHALL BE INSTALLED BY THE CONTRACTOR. ALL OTHER HANGER ASSEMBLIES SHALL BE INSTALLED BY THE UTILITY OWNER.

STANDARD PLAN MODIFICATION - MODIFY THE APPROACH SLAB STANDARD TO INCREASE THE $\frac{3}{4}$ " EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1 $\frac{1}{4}$ ". SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

POUR STRIP - CONCRETE FOR THE POUR STRIP SHALL BE CLASS AA-1 CONCRETE AND SHALL BE PAID FOR IN "LUMP SUPERSTR CONCRETE, CL AA".

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. GROOVE BRIDGE DECK UNDER RAISED MEDIAN.

CHARPY V-NOTCH TEST - ALL W-BEAMS ARE MAIN LOAD CARRYING MEMBERS SUBJECT TO TENSILE STRESS AND SHALL MEET THE CHARPY V-NOTCH TEST REQUIREMENTS AS SPECIFIED BY SECTION 851 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.

GENERAL NOTES (CON'T)

PAINT - CLEAN AND PAINT ALL NEW AND EXISTING STRUCTURAL STEEL AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS.

SALVAGE MATERIAL - ALL ALUMINUM HANDRAIL AND POSTS SHALL BE SALVAGED FOR USE BY THE DEPARTMENT OF TRANSPORTATION AND SHALL BE REMOVED AND DELIVERED TO THE DISTRICT 6 STORAGE AREA LOCATED IN CARTERSVILLE, GEORGIA. THE HANDRAIL AND POSTS SHALL NOT BE CUT. THE DISTRICT MOTOR POOL SUPERVISOR (WAYNE EVANS) SHALL BE NOTIFIED TWO WEEKS PRIOR TO DELIVERY TO ALLOW FOR ARRANGEMENT OF UNLOADING THESE MATERIALS BY THE CONTRACTOR.

BRIDGE PATCHING - PATCH SPALLS IN THE EXISTING BRIDGE IN ACCORDANCE WITH SPECIAL PROVISIONS, AS DIRECTED BY THE ENGINEER. INCLUDE THE COST FOR THIS WORK IN THE PRICE BID FOR "PATCHING CONCRETE BRIDGE".

FIBER REINFORCED POLYMER - FURNISH AND INSTALL CARBON FIBER REINFORCED POLYMER IN ACCORDANCE WITH SPECIAL PROVISION 590.

SPECIAL PROTECTIVE COATING - CLEAN AND APPLY TYPE III SPECIAL SURFACE COATING FINISH TO EXISTING EXPOSED CONCRETE SURFACES OF INTERMEDIATE BENT COLUMNS AND CAPS, END BENT CAPS, AND WINGWALLS TO REMAIN IN ACCORDANCE WITH SECTION 500.3.05.AB OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE THE COST FOR THIS WORK IN THE OVERALL BID SUBMITTED.

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.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITIES		UNIT	PAY ITEM
	LEFT BRIDGE	RIGHT BRIDGE		
211-0200	117	117	CY	BRIDGE EXCAVATION, GRADE SEPARATION
500-0100	2160	2160	SY	GROOVED CONCRETE
500-1006	LUMP	----	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 LT (632)
500-1006	----	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 RT (632)
500-2100	286	286	LF	CONCRETE BARRIER
500-3002	119	119	CY	CLASS AA CONCRETE
501-3000	LUMP	----	LS	STR STEEL, BR NO - 1 LT (175,600)
501-3000	----	LUMP	LS	STR STEEL, BR NO - 1 RT (175,600)
511-1000	21087	21087	LB	BAR REINF STEEL
511-3000	LUMP	----	LS	SUPERSTR REINF STEEL, BR NO - 1 LT (157428)
511-3000	----	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 RT (157428)
521-3000	----	10	SF	PATCHING CONCRETE BRIDGE
535-1005	LUMP	LUMP	LS	PAINT EXIST STEEL STRUCTURE, STA. NO - 18+52.00
540-1201	LUMP	LUMP	LS	REMOVAL OF PARTS OF EXISTING BR, STA NO - 18+52.00
590-1000	26	---	SY	FIBER REINFORCED POLYMER (CARBON) BR NO - 1
620-0100	300	300	LF	TEMPORARY BARRIER, METHOD NO. 1
620-0200	300	300	LF	TEMPORARY BARRIER, METHOD NO. 2

BRIDGE NO. 1LT. & RT.



GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES
WIDENING SR 1/US 27 OVER SR 166

CARROLL COUNTY NH000-0017-01(022)

SCALE: NO SCALE U.N.O. MARCH 2011

DRAWING NO. 35-02	DESIGNED LS	CHECKED GLE	REVIEWED WMD/WEI
BRIDGE SHEET 2 OF 18	DRAWN LS	DOT LIAISON CB	APPROVED BFR

DATE	7-05-11
REVISIONS	7-21-12
UTILITY HANGERS NOTE	
REMOVE PAT ITEM	