

**BRIDGE WIDENING CONSISTS OF**

- 1 - 4 SPAN W30 BEAM COMPOSITE CONTINUOUS UNIT ----- SPECIAL DESIGN (47'-6", 70'-6", 70'-6", 53'-6")
- 2 - STEEL H PILE 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'-10")
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CONCRETE BARRIERS - TEMPORARY ----- GA. STD. 4960 (5-10-07)
- CHAIN LINK WIRE FENCE ----- GA. STD. 9031N (8-13-85)
- 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 INCLUDED
- 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 = 43,100 (2011)  
ADT = 52,500 (2031)
- DESIGN SPEED ----- 35 MPH
- TRUCKS ----- 5.5%
- 24% HR. TRUCKS ----- 5.5%
- DIRECTIONAL ----- 50%

**EXISTING UTILITIES**

- 1 - 6 INCH DIAMETER GAS MAIN ----- ATLANTA GAS LIGHT COMPANY
- 36 - 2" TELEPHONE CONDUITS ----- AT&T
- 12 INCH DIAMETER WATER MAIN ----- CITY OF ATLANTA
- 2 - 4 INCH POWER CONDUITS ----- GEORGIA POWER

**NEW UTILITIES**

- 4 - 4 CONDUITS ----- AGL NETWORKS (AGLN)
- 2 - 4" ATMS CONDUITS ----- GDOT

**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'-6" ABOVE I-285.
- TEMPORARY BARRIERS, METHOD 2 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 TO PROVIDE FOR TRAFFIC LANES AS SHOWN. 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 PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER 1-285-1(17)94.
- 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. REMOVE AND REPLACE PORTIONS OF EXISTING SLOPE PAVING UNDER SPAN 4 THAT HAVE SETTLED. THIS QUANTITY IS INCLUDED IN THE PAY QUANTITY. 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".
- EXISTING BEARING ASSEMBLIES - CLEAN AND PAINT ALL EXISTING BEARING ASSEMBLIES IN ACCORDANCE WITH SECTION 535 OF THE GEORGIA DOT SPECIFICATION. REMOVE AND REPLACE BROKEN ANCHOR BOLTS AT BENTS 1 AND 5 AS DIRECTED BY THE ENGINEER. INCLUDE ALL COSTS FOR THIS WORK IN THE PRICE BID FOR "LUMP - STRUCTURAL STEEL".
- SPALL REPAIRS - REPAIR TWO SPALLS IN THE DECK IN THE NORTHBOUND LANES, MINOR SPALLS IN THE EDGE BEAMS, AND SPALLS ON COLUMNS 1 AND 2 AT BENT 4 AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH SECTION 521 OF THE GEORGIA DOT SPECIFICATION. CLEAN AND RESEAL EXISTING SIGNAL LOOP IN BRIDGE DECK, COSTS FOR THIS WORK TO BE INCLUDED IN THE PRICE BID FOR "SF\_PATCHING CONCRETE BRIDGE"
- CRACK REPAIR - REPAIR CRACKS IN THE TOP OF THE CAP AT BENT 3 BY PRESSURE INJECTING EPOXY IN ACCORDANCE WITH SECTION 528 OF THE GEORGIA DOT SPECIFICATION.
- WAITING PERIOD - NONE REQUIRED.
- PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
- DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENTS 1 & 4.  $\Delta$
- 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.
- POUR STRIP - CONCRETE FOR THE POUR STRIP SHALL BE CLASS AA-1 CONCRETE AND SHALL BE PAID FOR IN "LUMP SUPERSTR CONCRETE, CL AA".
- 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.
- CHAIN LINK FENCE - CHAIN LINK FENCE SHALL BE PAID FOR AS "LF CH LK FENCE, ZC COAT, 6 FT, 9 GA".
- 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.
- 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.

**GENERAL NOTES CONT'D.**

- EXISTING BRIDGE JOINTS - CLEAN EXISTING BRIDGE CONSTRUCTION JOINTS OF ALL DIRT, REFUSE, AND EXISTING SEALANT AS PER SUB-SECTIONS 461.3.05.A OF THE GEORGIA DOT SPECIFICATIONS. SEAL JOINTS USING SILICONE SEALANT (TYPE B, C OR D) AS PER SUB-SECTIONS 461.3.05.C AND 833.2.06 OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE THE COST OF MATERIALS AND INSTALLATION IN THE OVERALL BID SUBMITTED.
- PAINT - CLEAN AND PAINT ALL NEW STRUCTURAL STEEL AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS.
- SALVAGE 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.
- 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 AND INSTALLED BY UTILITY OWNER.
- GDOT ATMS ATTACHMENTS - FURNISH AND INSTALL CONCRETE INSERTS AND HANGER ASSEMBLIES. USE ANVIL FIGURE 282, AAA TECHNOLOGY FIGURE 912 OR APPROVED EQUAL CONCRETE INSERTS. INCLUDE THE COST OF FURNISHING AND INSTALLING CONCRETE INSERTS AND HANGER ASSEMBLIES

**SUMMARY OF QUANTITIES**

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM	
211-0200	61	CY	BRIDGE EXCAVATION, GRADE SEPARATION	$\Delta$
441-0004	383	SY	CONC SLOPE PAV, 4 IN	
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (223)	
500-3002	122.5	CY	CLASS AA CONCRETE $\Delta$ $\Delta$	
501-3000	LUMP	LS	STR STEEL, BR NO - 1 (121917)	
511-1000	19795	LB	BAR REINF STEEL $\Delta$ $\Delta$	
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (25877)	
514-0500	370	LB	EPOXY COATED BAR REINFORCEMENT STEEL	
514-1000	LUMP	LS	EPOXY COATED SUPERSTR REINF STEEL, BR NO - 1 (29318)	
519-0515	1950	SY	SURFACE PREPARATION $\Delta$	
519-0530	1950	SY	POLYMER OVERLAY $\Delta$	
520-1125	395	LF	PILING IN PLACE, STEEL H, HP 12 X 53	
520-1147	420	LF	PILING IN PLACE, STEEL H, HP 14 X 73	$\Delta$
520-4125	1	EA	LOAD TEST, STEEL H, HP 12 X 53 (IF REQD)	
521-3000	20	SF	PATCHING CONCRETE BRIDGE	$\Delta$
				$\Delta$
528-0501	100	LF	EPOXY PRESSURE INJECTION OF CONCRETE CRACKS	
540-1202	LUMP	LS	REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO - 1	
620-0200	242	LF	TEMPORARY BARRIER, METHOD NO 2	
643-1152	238	LF	CH LK FENCE, ZC COAT, 6 FT, 9 GA	

BRIDGE NO. 1



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

GENERAL NOTES  
SR 9 (ROSWELL ROAD) OVER I-285  
FULTON COUNTY  $\Delta$  CSMSL-0009-00(159)

SCALE: NO SCALE AUGUST 2010

DRAWING NO. 35-02	BY JPT	DESIGNED JPT	CHECKED JMA	REVIEWED WMD/WEI
BRIDGE SHEET 2 OF 18	DATE 02/14/11	DRAWN MLF	DESIGN GROUP X	APPROVED PVL

REVISIONS	DATE
JPT PROJ. & SHEET NOS.	02/14/11
GBL VECP INT. BITS. TO PILES	9/14/11
JEL USE ON CONSTRUCTION	12/08/11
MMI QTY'S BY AMENDMENT	02/13/12
MMI REVISION TO QUANTITIES	02/13/12