

BRIDGE CONSISTS OF

- 1 - 33'-0" W BEAM SIMPLE SPANS ----- EXISTING
- 3 - 43'-0" W BEAM SIMPLE SPANS ----- EXISTING
- 2 - STEEL H PILE END BENTS ----- EXISTING
- 3 - CONCRETE INTERMEDIATE BENTS ----- EXISTING
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 4'-3")
- 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)
- CHAIN LINK WIRE FENCE ----- GA. STD. 9031N (8-13-85)

DESIGN DATA

- SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
- TYPICAL HS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED
- FUTURE PAVING ALLOWANCE ----- 0 LBS PER SQ FT
- REINFORCEMENT STEEL: ----- GRADE 60, $f_y = 60,000$ PSI
- DECK PANELS: PRECAST CONCRETE DECK ----- $f_c = 4,000$ PSI
- REINFORCING STEEL ----- GRADE 60, $f_y = 60,000$ PSI
- STRUCTURAL STEEL ----- ASTM A992, GRADE 50, GALVANIZED
- CONCRETE: EDGE BEAMS ----- 24 HOUR ACCELERATED STRENGTH $f_c = 3,500$ PSI
- ENDWALLS ----- 24 HOUR ACCELERATED STRENGTH $f_c = 3,500$ PSI
- CLOSURE POURS ----- 24 HOUR ACCELERATED STRENGTH $f_c = 3,500$ PSI
- SIDEWALKS AND PARAPETS ----- CLASS AA, $f_c = 3,500$ PSI
- SUPERSTRUCTURE ----- CLASS AA, $f_c = 3,500$ PSI
- STRUCTURAL STEEL BEAMS RATING ----- LOAD FACTOR DESIGN
- STRUCTURAL STEEL ----- ASTM A709, GRADE 36

UTILITIES

NONE

PAINTING NOTES

1. CLEAN AND PAINT ALL NEW AND EXISTING STRUCTURAL STEEL IN ACCORDANCE WITH SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS, PAINTING STRUCTURES. SYSTEM VI PAINT SHALL BE USED ON ALL EXPOSED SUPERSTRUCTURE STEEL.
2. THE STRUCTURES ARE 162 FT. LONG +/- WITH A TOTAL ESTIMATED AREA OF STEEL TO BE PAINTED OF 15,200 SF. PRIOR TO BIDDING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEASURE AND VERIFY THE AREA OF STEEL TO BE PAINTED.
3. THE EXISTING PAINT ON THE BRIDGE STRUCTURAL STEEL IS A LEAD-BASED PAINT SYSTEM.
4. AFTER THE PAINTING IS COMPLETED, STENCIL THE SERIAL NUMBER (067-0013-0) OF THE BRIDGE ON THE INSIDE FACE OF THE WEB OF THE FAR RIGHT BEAM NEAR BOTH THE FIRST AND THE LAST BENT (BOTH ENDS OF BRIDGE). USE A 5" HIGH NUMBER STENCIL AND BLACK PERMANENT PAINT. COSTS ASSOCIATED WITH THIS WORK, INCLUDING MATERIALS AND LABOR, ARE TO BE INCLUDED IN THE OVERALL BID SUBMITTED.
5. NO MODIFICATION OF THE STRUCTURAL STEEL IS ALLOWED, INCLUDING BUT NOT LIMITED TO PUNCTURING, CUTTING, WELDING, OR OTHER OPERATIONS WHICH MODIFY THE STRUCTURAL INTEGRITY OF THE BRIDGE. REPAIR ANY DAMAGES TO THE STRUCTURAL STEEL CAUSED BY THE BLAST CLEANING OR ANY OTHER RELATED OPERATIONS, AT NO CHARGE TO THE DEPARTMENT. ALL REPAIRS ARE TO BE APPROVED BY THE ENGINEER.
6. ALL CONCRETE AND DECK WORK SHALL BE COMPLETED PRIOR TO BEGINNING PAINTING WORK.
7. THE COST OF PAINTING NEW AND EXISTING STRUCTURAL STEEL SHALL BE INCLUDED IN THE PRICE BID FOR PAINT EXISTING STEEL STRUCTURE.

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 SR 280 (DELK ROAD).
- TEMPORARY BARRIERS, METHOD 2 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 TO PROVIDE FOR TWO 11'-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 D-AD-F-6(2).
- 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 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".
- INTERMEDIATE BENT EXCAVATION - WHEN EXCAVATING, TAKE CARE NOT TO DISTURB THE EXISTING FOOTINGS. BLASTING WILL NOT BE ALLOWED.
- 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.
- PAINT - CLEAN AND PAINT ALL NEW AND EXISTING STRUCTURAL STEEL AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS.
- SALVAGE OF EXISTING BRIDGE MATERIALS - HANDRAILS AND ALL HARDWARE ARE TO BE SALVAGED, DISASSEMBLED, AND TRANSPORTED TO THE BRIDGE MAINTENANCE SHOP. UNLOAD THE SALVAGED COMPONENTS AS DIRECTED BY GEORGIA DOT PERSONNEL. NOTIFY THE ASSISTANT DISTRICT ENGINEER, MAINTENANCE, DISTRICT 7 TWO WEEKS PRIOR TO DELIVERY.
- REMOVAL OF PARTS OF EXISTING BRIDGE - INCLUDE THE COST FOR REMOVAL OF PORTIONS OF EXISTING DECK SLAB, PARAPET, HANDRAIL, EDGE BEAMS, DIAPHRAGMS AND ENDWALLS IN THE PRICE BID FOR ITEM 540 REMOVAL OF PARTS OF EXISTING BRIDGE.
- CONCRETE CRACKS - SEAL CRACKS IN CONCRETE IN ACCORDANCE WITH THE SPECIAL PROVISIONS, AS DIRECTED BY THE ENGINEER. INCLUDE THE COST IN THE PRICE BID FOR PAY ITEM 528 - EPOXY SEALING OF CONCRETE CRACKS.
- PATCHING CONCRETE - PATCH SPALLS IN CONCRETE IN ACCORDANCE WITH THE SPECIAL PROVISIONS, AS DIRECTED BY THE ENGINEER. INCLUDE THE COST IN THE PRICE BID FOR PAY ITEM 521 - PATCHING CONCRETE BRIDGE STRUCTURES.
- BACKFILL OF APPROACH SLAB -BACKFILL ANY VOIDS UNDER THE APPROACH SLABS IN ORDER TO MEET SUBGRADE REQUIREMENTS AND ELEVATIONS PRIOR TO PLACING THE APPROACH SLAB SUBBASE. INCLUDE THE COST FOR THIS WORK IN THE OVERALL BID SUBMITTED.
- DECK PANELS - FURNISH AND INSTALL DECK PANELS, INCLUDING ALL STEEL GRID DECK COMPONENTS, LEVELING DEVICES, AND ALL CONCRETE ABOVE THE TOP FLANGE OF THE GIRDERS, IN ACCORDANCE WITH THE SPECIAL PROVISIONS. INCLUDE COST FOR THIS WORK IN THE PRICE BID FOR COMPOSITE STEEL GRID DECK WITH PRECAST CONCRETE SLAB.
- DECK GRINDING - FURNISH DECK PANELS WITH AN ADDITIONAL $\frac{1}{4}$ " OF OVERFILL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. AFTER ALL CLOSURE POURS ARE CURED, GRIND SMOOTH THE NEW SECTIONS OF THE DECK IN ACCORDANCE WITH THE SPECIAL PROVISIONS. ALL CONCRETE DIMENSIONS AND REINFORCEMENT CLEARANCES SHOWN ARE THE MINIMUM REQUIRED AFTER DECK GRINDING IS COMPLETE.
- POLYMER OVERLAY - AFTER ALL DECK PANEL AND EDGE BEAM WORK IS COMPLETE, OVERLAY THE ENTIRE SURFACE OF THE BRIDGE DECK WITH A TWO-PART EPOXY-URETHANE POLYMER BRIDGE DECK OVERLAY. FURNISH AND INSTALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

GENERAL NOTES (CONT.)

- SHEAR CONNECTORS - REMOVE EXISTING SHEAR CONNECTORS. FURNISH AND INSTALL NEW SHEAR CONNECTORS IN ACCORDANCE WITH SECTION 512 OF THE GEORGIA DOT SPECIFICATIONS. PROVIDE SHEAR CONNECTORS MEETING THE MINIMUM REQUIREMENTS OF THE STEEL GRID DECK MANUFACTURER AND THE MINIMUM SIZE AND SPACING AS SHOWN ON PLANS. INCLUDE COST FOR THIS WORK IN THE PRICE BID FOR COMPOSITE STEEL GRID DECK WITH PRECAST CONCRETE SLAB.
- 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.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
449-1620	70	LF	LOW-DENSITY, CLOSED-CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-1, BENT NO-1
449-1620	70	LF	LOW-DENSITY, CLOSED-CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-1, BENT NO-2
449-1620	70	LF	LOW-DENSITY, CLOSED-CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-1, BENT NO-3
449-1620	70	LF	LOW-DENSITY, CLOSED-CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-1, BENT NO-4
500-1006		LUMP LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (90)
501-3000		LUMP LS	STR STEEL, BR NO - 1 (10080)
504-0600	30	CY	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC
505-1100	11070	SF	COMPOSITE STEEL GRID DECK WITH PRECAST CONCRETE SLAB
511-3000		LUMP LS	SUPERSTR REINF STEEL, BR NO -1 (14900)
519-0515	954	SY	SURFACE PREPARATION
519-0530	954	SY	POLYMER OVERLAY
521-3000	100	SF	PATCHING CONCRETE BRIDGE
528-0750	20	LF	EPOXY SEALING OF CONCRETE CRACKS
535-1105		LUMP LS	PAINT EXIST STEEL STRUCTURE, BR ID - 067-00003D-005.21N
540-1202		LUMP LS	REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO - 1
643-1152	325	LF	CH LK FENCE, ZC COAT, 6 FT, 9 GA

BRIDGE NO. 1

 Hatch Mott MacDonald 2550 Heritage Ct, SE, Suite 250 Atlanta GA 30339-3062 (770) 952-1022		GEORGIA DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION-OFFICE OF BRIDGE AND STRUCTURES	
		GENERAL NOTES BRIDGE DECK REPLACEMENT - SR 3/US 41 (COBB PARKWAY) OVER SR 280 (DELK ROAD)	
COBB COUNTY		CSSTP-M003-00(071)	
SCALE: NO SCALE		OCTOBER 2010	
DESIGNED	PJC	CHECKED	SHG
DRAWN	PJC	DESIGN GROUP	BMU
REVIEWED	CBB	APPROVED	MLC

DRAWING NO.	35-02
BRIDGE SHEET	2 OF 14

DATE	
REVISIONS	
BY	