

REHABILITATED BRIDGE CONSISTS OF

SUPERSTRUCTURE REPLACEMENT (4 - PSC BEAMS, SPCL DESIGN) ----- SPECIAL DESIGN  
 BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)

WORK CONSISTS OF

1. REMOVING DECK AND T-BEAMS FROM ORIGINAL SECTION OF BRIDGE.
2. FORMING NEW DOWEL BAR HOLES AT NEW LOCATIONS ON END AND INTERMEDIATE BENTS.
3. REMOVING AND REPLACING PORTION OF APPROACH SLABS.
4. PLACING NEW DECK AND RECTANGULAR PSC BEAMS.
5. REPLACING BEARING PADS UNDER NEW PSC BEAMS.
6. FORMING NEW EDGE BEAMS AND ENDWALLS.
7. CLEANING AND RESEALING JOINTS WITH EVAZOTE MATERIAL AT BENTS 1- 5.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITIES		UNIT	PAY ITEM
	LEFT BRIDGE	RIGHT BRIDGE		
449-1620	67	70	LF	LOW-DENSITY, CLOSED-CELL, CROSS-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-4, BENT NO-1
449-1620	67	70	LF	LOW-DENSITY, CLOSED-CELL, CROSS-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-4, BENT NO-2
449-1620	67	70	LF	LOW-DENSITY, CLOSED-CELL, CROSS-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-4, BENT NO-3
449-1620	67	70	LF	LOW-DENSITY, CLOSED-CELL, CROSS-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-4, BENT NO-4
449-1620	67	70	LF	LOW-DENSITY, CLOSED-CELL, CROSS-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-4, BENT NO-5
500-0100	377	377	SY	GROOVED CONCRETE
500-1006	LUMP	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 4 (174)
507-9240	500	500	LF	PSC BEAMS, SPCL DESIGN, BR NO - 4
511-3000	LUMP	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 4 (38264)
540-1202	LUMP	LUMP	LS	REMOVAL OF PARTS OF EXISTING BR, BR NO - 4
620-0200	130	130	LF	TEMPORARY BARRIER, METHOD 2

DESIGN DATA

SPECIFICATIONS ----- AASHTO 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  
 PSC BEAMS ----- CLASS AA  $f_c = 5,500$  PSI  
 PSC BEAM ALLOWABLE TENSION ----- 445 PSI  
 REINFORCEMENT STEEL: ----- GRADE 60,  $f_y = 60,000$  PSI  
 PRETENSIONING STRANDS: -----  $f_p = 270,000$  PSI

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 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  $\frac{3}{4}$  INCH UNLESS OTHERWISE NOTED.  
 TRAFFIC CONTROLS - TRAFFIC LANES SHALL BE AS SHOWN ON THE CONSTRUCTION SEQUENCE.  
 EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404)656-5401. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER 175-1(28)126 AND WAS WIDENED UNDER PROJECT NUMBER ID-75-1(101) AND IR-75-1(177).  
 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 - THOROUGHLY CLEAN EXISTING REINFORCEMENT OF CONCRETE SCALE AND RUST BEFORE BONDING INTO NEW CONSTRUCTION.  
 SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN DRILLED 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. HOLES SHALL BE DRILLED SO AS TO AVOID DAMAGE TO EXISTING STIRRUPS. SEE MISCELLANEOUS DETAILS SHEET FOR NEW DOWEL BAR HOLE LOCATIONS.  
 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 - IN THE SECTION OF BRIDGE REPLACED, GROOVE THE ENTIRE LENGTH 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 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.  
 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 CLEANING AND BENDING OF EXISTING REINFORCEMENT, WATERPROOFING, JOINT FILLERS, CORE DRILLING, SAW CUTTING, CHIPPING CONCRETE, ANCHOR DOWELS AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

TRAFFIC DATA

TRAFFIC ----- ADT = 55500 (2000)  
 ----- ADT = 83250 (2020)  
 DESIGN SPEED ----- 70 MPH  
 TRUCKS ----- 18 %  
 DIRECTIONAL ----- 50 %

UTILITIES

NONE

BRIDGE NO. 4 LT & RT



GEORGIA  
 DEPARTMENT OF TRANSPORTATION  
 OPERATIONS DIVISION - OFFICE OF MAINTENANCE

GENERAL NOTES  
 DISTRICT 3 BRIDGE DECK REHABILITATION  
 I-75 OVER FLAT CREEK  
 HOUSTON COUNTY CSNHS-M002-00(783)

SCALE: NO SCALE AUGUST 2005

BRIDGE SHEET 2 OF 9	BY FRB	DESIGNED TBS	CHECKED FRB	REVIEWED GBL
	DATE 01-23-06	DRAWN TBS	DESIGN GROUP	APPROVED

DWG. NO. 35-22  
 J5/4019/4019.783/BRIDGE/OVERFLATCREEK/ID153\_GEN.DGN