

GENERAL NOTES:

DESIGN SPECIFICATIONS
 2002 - ASHTO 17TH EDITION
 LOAD FACTOR DESIGN
 SEISMIC PERFORMANCE CATEGORY A
 ACCELERATION COEFFICIENT = 0.096

DESIGN LOADING:
 HS20-44
 35K/250 FT. FUTURE WEARING SURFACE
 EARTH 20M/CU FT. EQUIVALENT FLUID PRESSURE 45#/CU FT.
 SUPERSTRUCTURE SIMPLY SUPPORTED.

DESIGN UNIT STRESSES:
 CLASS 1 CONCRETE (SUBSTRUCTURES) $f_c = 3,000$ psi
 CLASS B-2 CONCRETE (SUPERSTRUCTURE) $f_c = 4,000$ psi
 CLASS B-2 CONCRETE (COMPRESSION) $f_c = 4,000$ psi
 REINFORCING STEEL (GRADE 60) $f_y = 60,000$ psi
 STRUCTURAL STEEL (ASTM A572 GRADE 50) $f_y = 50,000$ psi
 FOR PRECAST, CONNECTIONS SEE THE SPECIFICATIONS.
 STEEL PILE (ASTM A572 GRADE 50) $f_y = 50,000$ psi

FABRICATED STEEL CONNECTIONS:
 FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER HIGH STRENGTH BOLTS AND 3/8" DIAMETER HOLES, EXCEPT AS NOTED.

JOINT FILLER:
 ALL JOINT FILLER SHALL MEET THE REQUIREMENTS OF SECTION 1002.4 OF THE MISSOURI STANDARD SPECIFICATIONS, EXCEPT AS NOTED.

REINFORCING STEEL:
 MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1/2", UNLESS OTHERWISE SHOWN.

NEW STEEL STRUCTURES - WEATHERING STEEL:
 PROTECTIVE COATING SYSTEM H BY THE CONTRACTOR (SEE SPECIAL PROVISIONS).
 PORTIONS OF THE STRUCTURAL STEEL EMBEDDED IN OR IN CONTACT WITH CONCRETE, INCLUDING BUT NOT LIMITED TO THE TOP FLANGE OF CHANNELS, SHALL BE COATED WITH NOT LESS THAN 2.0 MILS OF THE PRIME COAT FOR SYSTEM H.
 PRIME COAT, THE PRIME COAT SHALL BE APPLIED IN THE FABRICATION SHOP. THE COST OF THE PRIME COAT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF THE FABRICATED STRUCTURAL STEEL.

MISCELLANEOUS:
 HIGH STRENGTH BOLTS, NUTS AND WASHERS WILL BE SAMPLED FOR QUALITY ASSURANCE AS SPECIFIED IN STANDARD SPECIFICATION 106 AND FIELD SECTION 95-112 FROM MATERIALS MANUAL.

INTEGRAL END BENTS:
 ALL CONCRETE BETWEEN THE UPPER AND LOWER CONSTRUCTION JOINTS IN THE END BENTS IS INCLUDED IN THE ESTIMATED QUANTITIES FOR SLAB ON STEEL.
 ALL REINFORCEMENT IN THE END BENTS IS INCLUDED IN THE ESTIMATED QUANTITIES FOR SLAB ON STEEL.
 FOR STANDARD SPECIFICATIONS, SEE THE SPECIFICATIONS/CONTRACT DOCUMENTS PACKAGE.
 FOR ACCEPTANCE OF PRECAST OR PREFABRICATED MEMBERS SEE THE SPECIFICATIONS/CONTRACT DOCUMENTS PACKAGE.

FOR SOIL BORING DATA AND SOIL BORING LOGS:
 SEE REPORT NO. 055930101, PREPARED BY
 GEOTECHNOLOGY, INC., MAY 15, 2002.

MINIMUM ENERGY REQUIRED OF HAMMER IS BASED ON PILE LENGTH AND DESIGN BEARING VALUE OF PILES.

ALL PILES SHALL BE DRIVEN TO PRACTICAL REFUSAL.

MANUFACTURED PILE POINT REINFORCEMENT SHALL BE USED ON ALL PILES IN THIS STRUCTURE.

ESTIMATED QUANTITIES			
ITEM	SUBSTR.	SUPERSTR.	TOTAL
CLASS 1 EXCAVATION	CY	130	130
BRIDGE APPROACH SLAB (BRIDGE)	SY	289	289
STRUCTURAL STEEL PILES (1/2 IN.)	LF	423	423
PILE POINT REINFORCEMENT	EACH	18	18
CLASS B CONCRETE (SUBSTR.)	CY	40	40
PROTECTIVE COATING - CONCRETE BENTS (WEATHERING STEEL)	LS	1	1
SLAB ON STEEL	SF	672	642
*SAFETY BARRIER CURB	LF	271	271
SIDEWALK (BRIDGES)	SF	253	253
PLAIN NEOPRENE BEARING PAD	EACH	12	12
FABRICATED STRUCTURAL LOW ALLOY STEEL (I-BEAM) ASTM A572 GRADE 50	LB	23672	23672
SLAB DRAIN	EACH	6	6
VERTICAL DRAIN AT END BENTS	EACH	2	2

INDEX OF DRAWINGS:

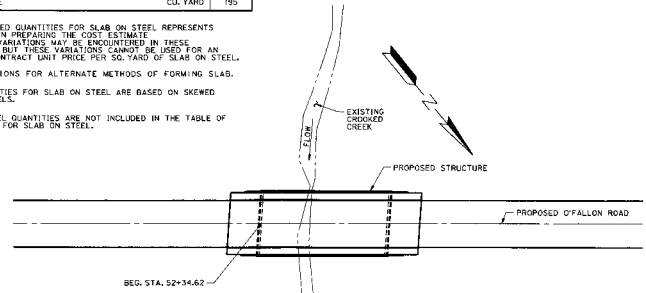
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ALL CONCRETE ABOVE THE LOWER CONSTRUCTION JOINT IN THE END BENTS IS INCLUDED WITH THE SUPERSTRUCTURE QUANTITIES.
 ALL CONCRETE AND REINFORCING STEEL IN SIDEWALK IS INCLUDED IN THE CONTRACT UNIT PRICE FOR SIDEWALK (BRIDGES), INCLUDES APPROXIMATELY 54 C.Y. OF CONCRETE AND 3745 LBS OF EPOXY COATED REINFORCING STEEL.
 THE COST OF FURNISHING, FABRICATING AND INSTALLING NEOPRENE BEARING PADS, COMPLETE-IN-PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR PLAIN NEOPRENE BEARING PADS PER EACH.
 * SAFETY BARRIER CURB SHALL BE CAST-IN-PLACE OPTION OR SLIP-FORM OPTION, INCLUDES APPROXIMATELY 35 C.Y. OF CONCRETE AND 10000 LBS OF EPOXY COATED REINFORCING STEEL.

ESTIMATED QUANTITIES FOR SLAB ON STEEL		
ITEM		TOTAL
REINFORCING STEEL	POUND	7620
REINFORCING STEEL (EPOXY COATED)	POUND	29038
** CLASS B-2 CONCRETE	CU. YARD	195

THE TABLE OF ESTIMATED QUANTITIES FOR SLAB ON STEEL REPRESENTS THE QUANTITIES USED IN PREPARING THE COST ESTIMATE FOR CONCRETE. SLAB VARIATIONS MAY BE ENCOUNTERED IN THESE ESTIMATED QUANTITIES BUT THESE VARIATIONS CANNOT BE USED FOR AN ADJUSTMENT IN THE CONTRACT UNIT PRICE PER SQ. YARD OF SLAB ON STEEL.
 SEE SPECIAL PROVISIONS FOR ALTERNATE METHODS OF FORMING SLAB.
 THE ESTIMATED QUANTITIES FOR SLAB ON STEEL ARE BASED ON SKEWED PRESTRESSED END PANELS.
 ** THE (PRESTRESS) PANEL QUANTITIES ARE NOT INCLUDED IN THE TABLE OF ESTIMATED QUANTITIES FOR SLAB ON STEEL.

PILE DATA			
BENT NO.		1	2
FILE TYPE AND SIZE		HP12X53	HP12X53
BEARING	NUMBER	9	9
APPROXIMATE LENGTH	FT	24	23
DESIGN BEARING	TONS	70	70
HAMMER ENERGY REQUIRED	FT.-LBS.	25,000	25,000



GENERAL NOTES AND ESTIMATED QUANTITIES

PLAN
 PROFILE
 PLOT DATA

PLAN
 PROFILE
 PLOT DATA

PLOT DATA

LOCATION SKETCH