

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts.
Bolts $\frac{7}{8}$ in. ϕ , holes $\frac{15}{16}$ in. ϕ unless otherwise noted.
Calculated weight of Structural Steel = 57,100 lbs. of Grade 50 and 8,130 lbs. of Grade 36.

No field welding is permitted except as specified in the contract documents.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.
Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate green, Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

The Contractor is advised that the existing superstructure is in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the superstructure when developing construction procedures for removal and replacement of the superstructure.

In lieu of the hammer selection criteria and use of the FHWA Modified Gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.

Slipforming of parapets is not allowed.

If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		84	84
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		223	223
Floor Drains	Each	14		14
Concrete Structures	Cu. Yd.		153.2	153.2
Concrete Superstructure	Cu. Yd.	149.3		149.3
Bridge Deck Grooving	Sq. Yd.	420		420
Concrete Encasement	Cu. Yd.		10.7	10.7
Protective Coat	Sq. Yd.	518		518
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2286	192	2478
Reinforcement Bars, Epoxy Coated	Pound	34,510	13,520	48,030
Bar Splicers	Each	429	92	521
Furnishing Steel Piles HP 12x53	Foot		560	560
Furnishing Steel Piles HP 14x89	Foot		580	580
Driving Piles	Foot		1140	1140
Test Pile Steel HP 12x53	Each		2	2
Test Pile Steel HP 14x89	Each		2	2
Pile Shoes	Each		24	24
Temporary Sheet Piling	Sq. Ft.		686	686
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		48	48
Geocomposite Wall Drain	Sq. Yd.		61	61
Pipe Underdrains for Structures 4"	Foot		140	140
Underwater Structure Excavation Protection, Location 1	Each		1	1
Underwater Structure Excavation Protection, Location 2	Each		1	1
Asbestos Bearing Pad Removal	Each	16		16
Mechanical Splice	Each		96	96
Stone Riprap, Class A4	Sq. Yd.		126	126
Filter Fabric	Sq. Yd.		126	126
Steel Railing (Temporary)	Foot	126		126

DESIGNED - CJW
CHECKED - CLS
DRAWN - JLR
CHECKED - CJW

GENERAL STRUCTURE DATA
IL ROUTE 242 OVER
SHELTON CREEK
STATION 470+76

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	776	(102)B-1	HAMILTON	53	29
26 SHEETS	S.N. 033-0053		CONTRACT NO. 78016		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

