## TOTAL BILL OF MATERIAL

## GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts  ${}^7_8$  in.  $\phi$ , holes  ${}^6_{16}$  in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 77,060 lb.

All structural steel shall be AASHTO M 270 Grade 50W.

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 (IL Modified). 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  $\frac{1}{6}$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

Layout of slope protection system may be varied in the field to sult 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.

Engineer before ordering the remainder of piles. The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the Contractor's procedures for existing beam removal or placement of new beams involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

TUTAL BILL OF MATERIAL					
ITEM	UNIT	SUPER	SUB	TOTAL	
Removal of Existing Structures	Each			1	
Structure Excavation	Cu. Yd.		146.1	146.1	
Concrete Superstructure	Cu, Yd,	176.5		176.5	
Concrete Structures	Cu. Yd.		147.1	147.1	
Concrete Encasement	Cu. Yd.		11.2	11.2	
Furnishing and Erecting Structural Steel	L. Sum	1		1	
Stud Shear Connectors	Each	2376		2376	
Reinforcement Bars, Epoxy Coated	Pound	36,700	12,210	48,910	
Furnishing Steel Piles HP 12 x 53	Foot		1579	1579	
Driving Piles	Foot		1579	1579	
Test Pile Steel HP 12 x 53	Each		4	4	
Anchor Bolts, 1"	Each		48	48	
Name Plates	Each	1		1	
Bridge Deck Grooving	Sq. Yd.	460		460	
Protective Coat	Sq. Yd.	606		606	
Bar Splicers	Each	434	112	546	
Stone Riprap, Class A4	Sq. Yd.		1034	1034	
Filter Fabric	Sq. Yd.		1034	1034	
Porous Granular Embankment (Special)	Cu. Yd.		241	241	
Geocomposite Wall Drain	Sq. Yd.		67	67	
Pipe Underdrains for Structures, 4''	Foot		146	146	
Underwater Structure Excavtion Protection, Location 1	Each		1	1	
Underwater Structure Excavtion Protection, Location 2	Each		1	1	
Temporary Sheet Piling	Sq. Ft.	1	560	560	
Asbestos Bearing Pad Removal	Each		36	36	
Floor Drains	Each		18	18	

ADUTE NO.	GECTION	COUNTY		TOTAL SHEE78	SHEET NO.	SHEET NO. 2
FAP 840	123BR-2	IROQUOIS		67	19	20 sheets
FED. ROAD DIST	. ND. 7	ILLINGIS	FED. AID PROJECT-			

Contract #66612

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