

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 68	102 BR	Livingston	37	12
FED. AID DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2

17 SHEETS

Contract #66666

### GENERAL NOTES

Fasteners shall be high strength bolts (AASHTO M 164, Type 3).  
Bolts  $\frac{7}{8}$ "  $\phi$ , open holes  $\frac{15}{16}$ "  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 63,819 lbs.

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

Field welding of construction accessories will not be permitted to beams.

Anchor bolts shall be set before bolting diaphragms over supports.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate materials.

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

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

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two  $\frac{1}{8}$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

The contractor shall drive a total of two (2) HP 12x53 test piles in a permanent location, one (1) at the west abutment and one (1) at pier 2 as directed by the Engineer before ordering the remainder of piles.

AASHTO M 270 Grade 50W structural steel shall only be painted, at the ends of the beams, 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 an inorganic zinc rich primer per AASHTO M 300, Type 1. 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".

All Construction joints shall be bonded.

### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		296	296
Floor Drains	Each	12		12
Concrete Superstructure	Cu. Yd.	134.8		134.8
Concrete Structures	Cu. Yd.		94.5	94.5
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2448		2448
Reinforcement Bars, Epoxy Coated	Pound	29,360	8870	38,230
Furnishing Steel Piles HP 12x53	Foot		786	786
Driving Piles	Foot		786	786
Test Pile Steel HP 12x53	Each		2	2
Pile Shoes	Each	24		24
Name Plates	Each	1		1
Bridge Deck Grooving	Sq. Yd.	358		358
Protective Coat	Sq. Yd.	472		472
Bar Splacers	Each	68		68
Stone Riprap, Class A4	Sq. Yd.		875	875
Porous Granular Embankment, Special	Cu. Yd.		83	83
Filter Fabric	Sq. Yd.		875	875
Pipe Underdrains for Structures, 4"	Foot		130	130
Underwater Structure Excavation Protection, Location 1	Each		1	1
Underwater Structure Excavation Protection, Location 2	Each		1	1
Geocomposite Wall Drain	Sq. Yd.		43	43
Concrete Encasement	Cu. Yd.		8.4	8.4
Anchor Bolts, 1" $\phi$	Each		48	48
Asbestos Bearing Pad Removal	Each		34	34

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**rjngroup**

Excellence through Ownership

200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND  
TOTAL BILL OF MATERIALS  
IL 23 OVER MOLE CREEK  
FAP RTE 68 - SECTION 102 BR  
LIVINGSTON COUNTY  
STATION 530+05

STRUCTURE NO. 053-0183

DATE: 10/20/2006

DRAWN BY JMT  
CHECKED BY WJV