

F.A.P. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 B-1-2	LAKE	26	11
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
Contract No. 60091				

### GENERAL NOTES

Fasteners shall be AASHTO M164 Type I, mechanically galvanized bolts. Bolts  $\frac{3}{4}$ "  $\phi$ , holes  $\frac{13}{16}$ "  $\phi$ , unless otherwise noted.

All structural steel shall be AASHTO M 270 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.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surface in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by an individual acceptable to the Engineer. Any cracks that cannot be removed by grinding  $\frac{1}{4}$  in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans and are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing structural steel shall only be cleaned and painted as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures." Cleaning and field painting of remaining existing structural steel shall be done under a separate painting contract.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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 of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures."

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

Quantities for deck slab repair are approximate. Quantity of Deck Slab Repair (Full Depth, Type I) is assumed to be equal to 10% of the quantity of Deck Slab Repair (Full Depth, Type II). Locations will be determined by the Resident Engineer following removal of the existing Hot-Mix Asphalt Surface Course. Actual repair locations shall be shown on the as-built plans. Contractor will be paid for the quantity furnished.

### TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ. YD.	889
CONCRETE REMOVAL	CU. YD.	210
PROTECTIVE SHIELD	SQ. YD.	105
CONCRETE SUPERSTRUCTURE	CU. YD.	210
BRIDGE DECK GROOVING	SQ. YD.	877
PROTECTIVE COAT	SQ. YD.	1,240
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	6,780
JACK AND REMOVE EXISTING BEARINGS	EACH	16
REINFORCEMENT BARS, EPOXY COATED	POUND	3,340
BAR SPLICERS	EACH	24
PREFORMED JOINT STRIP SEAL	FOOT	146
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	16
ANCHOR BOLTS, 1"	EACH	32
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 $\frac{1}{2}$ "	SQ. YD.	889
STRUCTURAL REPAIR OF CONCRETE (DEPTH-<5")	SQ. FT.	63
BRIDGE DECK HYDRO-SCARIFICATION, $\frac{1}{2}$ "	SQ. YD.	889
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	5
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	42

DESIGNED	S.D.H.
CHECKED	J.A.Z.
DRAWN	M.S.M.
CHECKED	S.D.H.

GENERAL NOTES & TOTAL  
BILL OF MATERIAL  
IL RTE. 137 (BUCKLEY ROAD)  
OVER DES PLAINES RIVER  
FAP 352 (IL 137), SECTION 56 B-1-2  
LAKE COUNTY  
STATION 64+63.88  
S.N. 049-0063  
DATE: 01-14-09  
GRAEF, ANHALT, SCHLOEMER & ASSOCIATES INC  
CHICAGO ILLINOIS

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1/12/2009