

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. All new fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Holes shall be subpunched or subdrilled $\frac{3}{4}$ " diameter and reamed in the field to $\frac{7}{8}$ " diameter for $\frac{3}{4}$ " diameter bolts, unless otherwise noted.
2. Calculated weight of Structural Steel = 5,430 lbs.
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. 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 surfaces 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 qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding $\frac{1}{4}$ inch 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.
7. Plan dimensions and details relative to existing plans are subject to nominal construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
8. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
9. All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost for painting included with Furnishing and Erecting Structural Steel.
10. 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".
11. Stage construction shall be utilized to maintain traffic during construction.
12. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams and diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
13. Protective Coat shall be applied to the new Latex Concrete Overlay on the deck and approach slabs. Protective Coat shall also be applied to the existing bridge deck median, sidewalks, parapets and wingwall parapets.
14. Concrete sealer shall be applied to the abutment seats, abutment backwalls and all vertical and horizontal faces of the piers that are adjacent to traffic. All surfaces to be sealed shall be cleaned thoroughly prior to sealer application. Cost included with Concrete Sealer.
15. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
16. In the event that Structural Repair of Concrete takes place at a light pole foundation, the Contractor may be required to temporarily shore or remove and reinstall the light pole if deemed necessary by the Engineer. If necessary, this work shall be performed according to Article 109.04 of the Standard Specifications.
17. There is a potential for interference from existing telephone cables attached to the deck during deck repairs. The Contractor shall coordinate construction activities with the telephone company prior to beginning work.
18. For Maintenance of Lighting System and Protection and Maintenance of Existing Underpass Lighting, see Special Provisions. See Existing Lighting Plans for locations and details of existing underpass lighting.
19. The final grades and cross-slopes for the Latex Concrete Overlay and expansion joint reconstruction shall conform to the existing grades plus the net increase in deck thickness specified in the plans. Any preliminary survey required for the Contractor to conform to these grades and to fabricate the preformed joint strip seal expansion joints shall not be paid for separately but shall be included in the cost of the major items of work involved.

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	21.2		21.2
Protective Shield	Sq Yd	1,284		1,284
Concrete Superstructure	Cu Yd	23.4		23.4
Bridge Deck Grooving	Sq Yd	1,832		1,832
Protective Coat	Sq Yd	2,655		2,655
Furnishing and Erecting Structural Steel	Pound	5,430		5,430
Jack and Remove Existing Bearings	Each	28		28
Reinforcement Bars, Epoxy Coated	Pound	3,350		3,350
Bar Splicers	Each	30		30
Preformed Joint Strip Seal	Foot	182.0		182.0
Elastomeric Bearing Assembly, Type I	Each	28		28
Anchor Bolts, 1"	Each	52		52
Concrete Sealer	Sq Ft		5,695	5,695
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq Yd	1,911		1,911
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq Ft		18	18
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft	14	1,087	1,101
Cleaning and Painting Exposed Rebar (Special)	Sq Ft	50		50
Clean and Reseal Relief Joint	Foot	129		129
Approach Slab Repair (Full Depth)	Sq Yd	33.2		33.2
Bridge Deck Hydro-Scarification, 1/2"	Sq Yd	1,911		1,911
Deck Slab Repair (Full Depth, Type I)	Sq Yd	5.0		5.0
Deck Slab Repair (Full Depth, Type II)	Sq Yd	5.5		5.5

DESIGNED -	JLS
CHECKED -	KWS
DRAWN -	RMG
CHECKED -	KWS

benesch

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SHEET NO. 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	1010.1-I-2	COOK	37	14
17 SHEETS	CONTRACT NO. 60J30				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

**GENERAL NOTES, BILL OF MATERIAL
AND INDEX OF SHEETS
STRUCTURE NO. 016-0536**