STATE OF ILLINOIS



PARTIAL PLAN Remove existing Neoprene Expansion Joint at Piers 3 and 9 and replace with Finger Plate Joint,

Existing structural steel that will be in contact with new structural steel shall

All structural steel shall be shop painted with the inorganic zinc rich primer per

be cleaned and painted prior to erection as required by the Special Provision

AASHTO M300, Type 1. Cost included with Finger Plate Expansion Joint, 41/2"

Existing reinforcement bars extending into the removal area shall

be cleaned, straightened and incorporated into the new construction.

Any reinforcement bars that are damaged during concrete removal

shall be replaced with an approved bar splicer or anchorage system.

Load carrying components designated "NTR" shall conform to the

The deck surface shall have its final finish tined according to Article

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.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill

may remain unless otherwise noted. Removal shall be accomplished by methods

420.09(e)(1) of the Standard Specifications. Cost included with Concrete

scale, and other loose or potentially detrimental foreign material shall be

removed from the surfaces in contact with concrete. Tightly adhered paint

that will not damage the steel and the cost will be included in the pay item

Supplemental Requirements for Notch Toughness, Zone 2.

Calculated weight of new structural steel = 22,250 lbs.

or Furnishing and Erecting Structural Steel.

Cost included with Concrete Removal.

covering removal of the existing concrete.

"Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All structural steel shall conform to AASHTO Classification M-270 Gr. 50. unless otherwise noted.

Fasteners shall be high strength bolts. Bolts ${}^{3}_{4}$ " ϕ , open holes ${}^{13}_{16}$ " ϕ , unless otherwise noted.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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.

Finger Plate Expansion Joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

Tapered shims shall be added under the stools, as required by the Engineer, to make a smooth finger joint. Cost shall be included with Finger Plate Expansion Joint.

The finger plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Diaphragm connection holes shall be ${}^{15}_{16}$ " ϕ for ${}^{3}_{4}$ " ϕ bolts. Two hardened

washers shall be required at diaphragm connections.





Superstructure.

NOTES

Expires: November 30, 2010

DESIGN STRESSES

FIELD UNITS f'c = 3,500 psi fy = 60,000 psi (Reinforcement) fy = 50,000 psi (M270 Grade 50)

SHEET 5 s

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	18.7
Concrete Superstructure	Cu. Yd.	19.8
Reinforcement Bars, Epoxy Coated	Pound	2,630
Finger Plate Expansion Joint, 4 ¹ 2"	Foot	64
Fabric Reinforced Elastomeric Trough	Foot	74
Bar Splicers	Each	44
Mechanical Splice	Each	140
Structural Steel Removal	Pound	1,790
Furnishing and Erecting Structural Steel	Pound	1,210
running and Ereening Structural Steel	1 00110	1,210

PLAN AND ELEVATION SN 065-0003

			<u>3N 063-0003</u>								
NO. 1 SHEETS		F.A.P. RTE.		SECTION				COUNTY	TOTAL SHEETS	SHEET NO.	
		34		(2)	Deido	a Dahah		Ι	Menard	29	23
				(2) Bridge Rehab					CONTRACT	NO.	72C71
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						D PROJECT					
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