

BLANK, WESSELINK, COOK & ASSOCIATES ENGINEERS - CONSULTANTS

HOUTE NO. SECT	0ev CO400		L SHEET	SHEET NO.
758 3BR	-1 MOULT	RIE 24	\$	6 SHEETS
FED. POAD DIST. NO.	ILLINDIS	PED. AID PROJECT-	l	1

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
ap, Class A4	Sq. Yd.		76	76
ic	Sq. Yd.		76	76
Existing Superstructure	Each	1		1
Removal	Cu. Yd.		0.8	0.8
Structures	Cu. Yd.		1.0	- 1.0
ck Grooving	Sq. Yd.	167		167
Coat	Sq. Yd.	183	· ·	183
Vearing Surface , 5¹¹	\$q. Yd.	179		179
restressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1546		1546
nent Bars, Epoxy Coated	Pound	2460	50	2510
ng, Type SM	Foot	97		97
95	Each		1	1

Plan dimensions and details relative to existing plans 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

Removal of existing bridge rail included in the cost of Removal of Existing Superstructures. The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied along the entire length of fascia beams to both the exterior vertical face and 9" in on the underside surface of the beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

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. The Contractor shall temporarily brace the top of abutments prior to the removal of the existing superstructure. The Contractor shall submit the bracing system to the Engineer for approval prior to fabrication or installation. Cost included in the cost of Removal of Existing Superstructure. If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams

Reinforcement bars shall conform to the requirements of ASTM A-706 6R60 (IL Modified) See Special

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ILT 20 BY		
E OF ILLINOIS		
P. ROUTE 758		
TJON 3BR-1		
DING HS20	INDE	<u>X OF S</u>
NO. 070-0033	1	General
IE PLATE	2	Type SM
<u>IL FLATE</u> Std. 515001	3	Superst
Plate shall be cleaned	4-5	Superst
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Bayles, S.E. Date	-	STR
Engineer License No. 081-006042		511
Date: 11/30/2006		: MARCH 2006

SHEETS

Plan M Steel Bridge Rail Side Mounted tructure tructure Details nts

DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

IL ROUTE 32 OVER JONATHÂN BRANCH ROUTE 758 SECTION 3BR-1 MOULTRIE COUNTY STATION 68+26.50 RUCTURE NO. 070-0033

DRAWN BY: MLO CHECKED BY: PBE