

ROUTE NO.	SECTION	QUANTITY	DATE	SHEET	SHEET NO. 2 12 SHEETS
F.A.S. 960	38 B-1	JOHNSON	23	13	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Contract # 98890

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructure	Each	1	-	1
**Bridge Deck Grooving	Sq. Yd.	251	-	251
**Protective Coat	Sq. Yd.	281	-	281
Precast Concrete Bridge Slab	Sq. Ft.	299	-	299
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1735	-	1735
Reinforcement Bars, Epoxy Coated	Pound	3390	-	3390
Bar Splicers	Each	60	-	60
Steel Railing, Type SM	Foot	185	-	185
Name Plates	Each	1	-	1
Epoxy Crack Injection	Foot	-	33	33
Concrete Wearing Surface, 5"	Sq. Yd.	271	-	271
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	-	19.6	19.6
Portland Cement Concrete Pavement (10")	Sq. Yd.	33.2	-	33.2
Pavement Fabric	Sq. Yd.	33.2	-	33.2
Expansion Bolts, 3/4" φ	Each	48	-	48
*Removal of Existing Precast Concrete Units	Sq. Ft.	299	-	299

\* Includes removal of the attached bridge railing and removal of portion of existing approach pavement.

\*\* Includes area of Concrete Wearing Surface on approach shoulders.

**GENERAL NOTES**

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

Reinforcement bars designated (E) shall be epoxy coated.

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.

The minimum thickness of Concrete Overlay is 5" and varies as required to adjust for the profile grade and beam camber.

A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the fascia deck beam on the side exposed to view, and the adjacent side underneath for a distance extending 9 in. Cost included with PPC Deck Beams (21" Depth).

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 to the exterior face and 9" in on the underside of the fascia 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.

No instream work will be allowed on this project.

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.

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 shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

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8/16/2007

**REVISIONS**

NAME	DATE

**Lin Engineering, Ltd.**  
Consulting Engineers  
Chatham, Illinois

Designed By: DL S    Checked By: MTH    Drawn By: AJP  
Date: 03/2007    File: 044-0010.dgn

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL DATA**  
U.S. ROUTE 45 OVER  
CAVE CREEK  
F.A.S. ROUTE 960 - SECTION 38 B-1  
JOHNSON COUNTY  
STA. 213+64.78  
STRUCTURE NO. 044-0010