

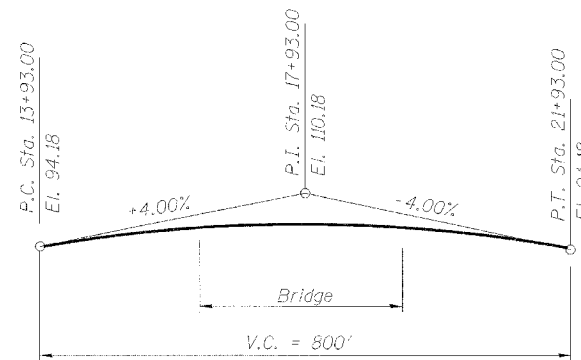
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 368	1919 VB-R-1	Cook	47	28
FED. ROAD EST. NO. 7	ILLINOIS	FED. AID PROJECT 986		

Contract # 60C11

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PROFILE GRADE

N.B. Pulaski Rd.
(Use for Bridge CWS only)

STATION 17+81.60
REBUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RTE. 368
LOADING HS20
STR. NO. 016 1020

NAME PLATE

See Sta. 515001

Relocate existing name plate next to rebuilt name plate,
cost included in Name Plates.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Protective Coat	Sq. Yd.	1420		1420
Removal of Existing Superstructures	Each	1		1
Bridge Deck Grooving	Sq. Yd.	903		903
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	7328		7328
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	4310		4310
Reinforcement Bars, Epoxy Coated	Pound	23,110		23,110
Name Plates	Each	1		1
Concrete Wearing Surface, 5"	Sq. Yd.	981		981
Asbestos Bearing Pad Removal	Each	182		182
Bar Splicers	Each	328		328
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.		33	33
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.		16	16
Epoxy Crack Injection	Foot		109	109
Preformed Joint Strip Seal	Foot	307		307
Removing and Re-erecting Existing Railing	Foot	297		297
Concrete Superstructure	Cu. Yd.	160.1		160.1
Preformed Joint Seal, 1 1/2"	Foot	324		324
Concrete Sealer	Sq. Ft.		2460	2460
Conduit Embedded in Structures, 2" Dia. PVC	Foot	332		332
Portland Cement Mortar Fairing Course	Foot	210		210
Removal of Existing Precast Prestressed Concrete Deck Beams	Sq. Ft.	316		316
Furnishing and Erecting Structural Steel	Pound	490		490
Hot-Mix Asphalt Surface Course, Mix "D", N70	Ton	27		27

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A706 GR 60 (IL Modified). See special provisions.
2. Plan dimensions and details relative to existing plans are subject to routine variations. The contractor shall field verify existing dimension 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.
3. The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.
4. Repair of the pier caps and abutment shall be completed prior to placement of the new deck beams.
5. 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.
6. 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 after 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.
7. The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirement of ASTM A780. 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.
8. The three existing light poles on the bridge shall be removed and stored as directed by the Engineer.
9. The contractor shall coordinate all construction work with railroad prior to commencing work.
10. Concrete Sealer shall be applied to the designated areas of the abutments and piers.

LOADING HS20-44

No Allowance for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

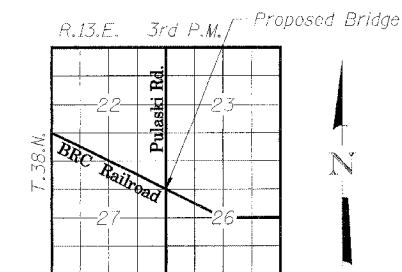
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 5,000$ psi
 $f'_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ low lax strands)
 $f'_{si} = 201,960$ psi (1/2" ϕ low lax strands)

DESIGNED	DDB
CHECKED	LLV
DRAWN	MGM
CHECKED	DDB



LOCATION SKETCH

**GENERAL NOTES AND
TOTAL BILL OF MATERIAL
F.A.P. 368 (PULASKI ROAD)
OVER BRC RAILROAD,
SECTION 1919 VB-R-1,
COOK COUNTY, STA. 17+81.60
STRUCTURE NO. 016-1020**

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