

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAP 301	28BR-1	JO DAVIESS	53	10
FED. AID DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2

27 SHEETS

Contract # 64A49

GENERAL NOTES

Expansion guards which are not cast in the precast unit shall be fabricated and erected according to Article 503.10(c) of the Standard Specifications.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 for the work.

Attach new Name Plate to the backside of 8" rail element. Existing name plate is to be removed, cleaned and relocated adjacent to new name plate. Cost included in the cost of Name Plates.

All Construction joints shall be bonded.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and actual beam camber.

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.

Repair of the pier and abutment caps shall be completed prior to placement of the new deck beams.

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 dowels 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 to prevent movement of the beams.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
* Removal of Existing PPC Deck Beam	Sq. Ft.	161.3	-	161.3
* Mechanical Splice	Each	54	-	54
* PPC Deck Beam (21" Depth) Special	Sq. Ft.	156.2	-	156.2
Asbestos Bearing Pad Removal	Each	110	-	110
Cofferdam Excavation	Cu. Yd.	-	180	180
Cofferdam (Pier 2)	Each	-	1	1
Temporary Support System	L. Sum	-	1	1
Removal of Existing Superstructure	Each	1	-	1
Concrete Removal	Cu. Yd.	-	13.0	13.0
Concrete Structures	Cu. Yd.	-	16.6	16.6
Bridge Deck Grooving	Sq. Yd.	1056	-	1056
Protective Coat	Sq. Yd.	1056	-	1056
Concrete Wearing Surface, 5"	Sq. Yd.	1043	-	1043
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	-	19.5	19.5
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	-	107.5	107.5
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	5301	-	5301
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	4084	-	4084
Reinforcement Bars, Epoxy Coated	Pound	13,670	3,020	16,690
Steel Bridge Rail, Type SM	Foot	570	-	570
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	99.0	-	99.0
Bar Splicers	Each	306	26	332

*See Sheets 23 and 24 for Beam Replacement prior to Stage 1 Removal.

STATION 1434+57.61
BUILT 200 BY
STATE OF ILLINOIS
FAP ROUTE 301 SEC 28BR-1
LOADING HS20
STR. NO. 043-0010

NAME PLATE
See Std. 515001

INDEX OF BRIDGE SHEETS

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6. Superstructure
- 7-10. Superstructure Details
- 11-12. Preformed Joint Strip Seal
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24. PPC Deck Beam (21" Depth) Special
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DESIGNED	DF
CHECKED	CB
DRAWN	MO
CHECKED	DF

GENERAL NOTES, BILL OF MATERIAL
INDEX OF SHEETS, NAME PLATE

U.S. 20 OVER APPLE RIVER
F.A.P. ROUTE 301 - SEC. 28BR-1
JO DAVIESS COUNTY
STATION 1434+57.61
S.N. 043-0010