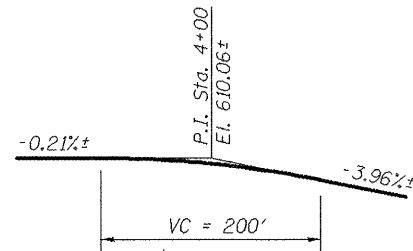
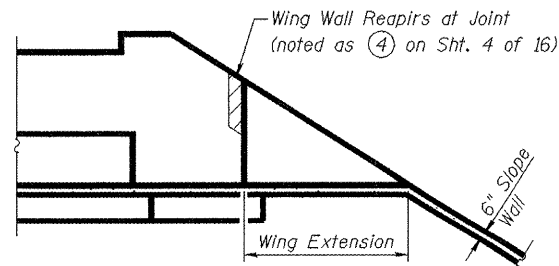


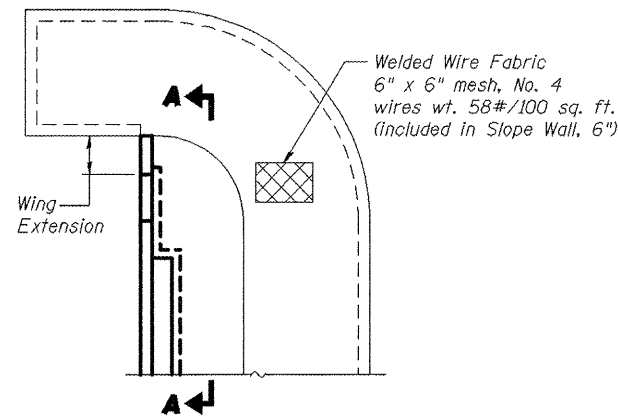
SECTION THRU EXISTING 6\"/>



PROPOSED PROFILE



SECTION A-A WINGWALL DETAIL



PART PLAN OF EXISTING SLOPE WALL

SLOPE WALL QUANTITIES

Item	Unit	Quantity
Slope Wall, 6"	Sq. Yd.	28
Slope Wall Removal	Sq. Yd.	28
Routing and Sealing Cracks	Foot	1,450
Stone Dumped Riprap, A3	Sq. Yd.	67
Porous Granular Embankment, Special	Ton	14

DESIGNED	PJL
CHECKED	LLV
DRAWN	MGM
CHECKED	PJL

GENERAL NOTES

- 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.
- The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc.
- Sloped wall repairs shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- Repair of the piers and abutments 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 and stability of hammerhead piers when developing construction procedures for removal and replacement of the superstructure. See Special Provisions for "Demolition Plans for Removal of Existing Structures".
- 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.
- 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.
- Concrete Sealer shall be applied to the designated areas of the abutments.

SPOON RIVER
REBUILT 200_ BY
PEORIA COUNTY
SECTION 08-00092-01-BR
STATION 2+25
STR. NO. 072-3101 LOADING HS20

NAME PLATE

See Std. 515001
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

**DESIGN STRESSES
NEW PRESTRESSED BEAMS**

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f'_s = 270,000$ psi (7/16" ϕ Strands)
 $f'_{si} = 189,000$ psi (7/16" ϕ Strands)

EXISTING CAST IN PLACE UNITS

$f_c = 1,200$ psi (Abut.) 1,400 psi (Pier)
 $V_c = 75$ psi (Footings) 90 psi (Caps)
 $f_s = 20,000$ psi (Reinforcement)
 $n = 10$

DESIGN SPECIFICATIONS

Proposed Deck Beams
2007 AASHTO LRFD Bridge Design Specifications
Existing Design Specifications AASHTO 1973

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

**BRIDGE GENERAL NOTES &
SLOPE WALL REPAIRS
SPOON RIVER ROAD
STATION 2+25.00**

	HWY	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH R15	08-00092-01-BR	PEORIA	16	5
	STRUCTURE NO. 072-3101				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT BROS-143(050)		

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