

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET
		Jackson	10	6
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 1
3 SHEETS

Contract Number: 78036

GENERAL NOTES

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to 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 each fascia beam. 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.

Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of Removal of Existing PPC Deck Beams.

The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

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.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, 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 or existing beams. To distribute load to multiple beams and protect the existing surface, 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. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys.

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

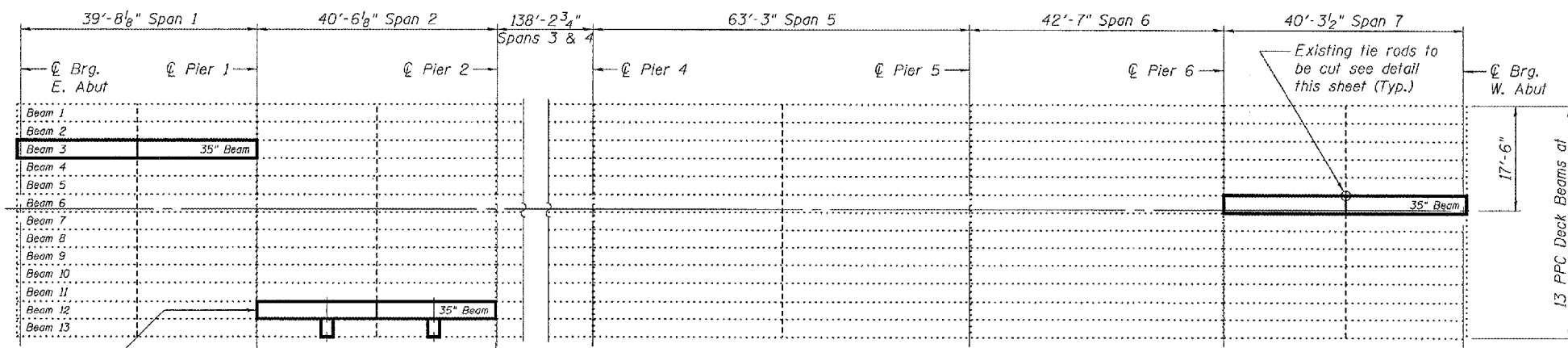
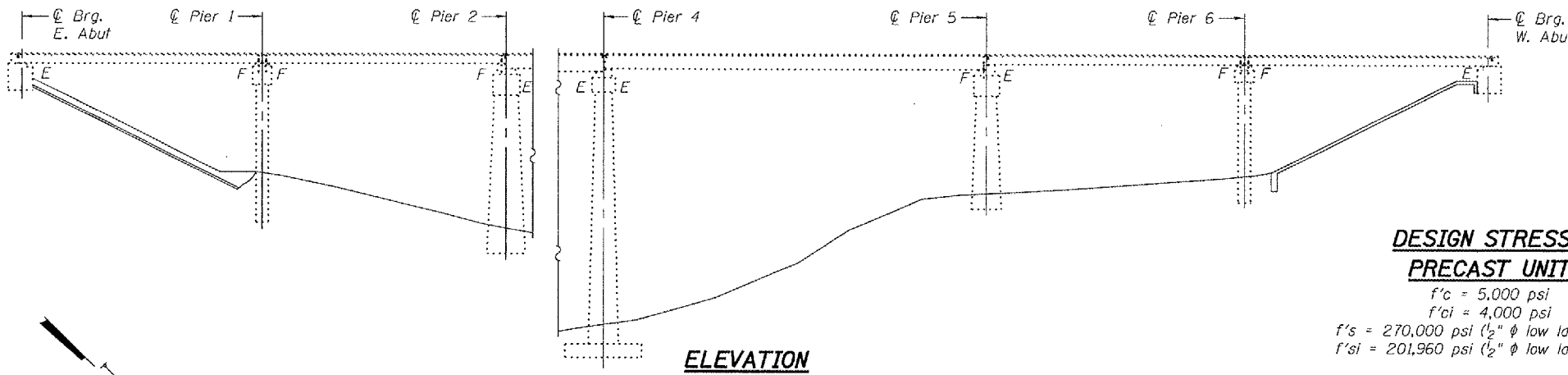
Reinforcement bars designated (E) shall be epoxy coated.

TOTAL BILL OF MATERIAL

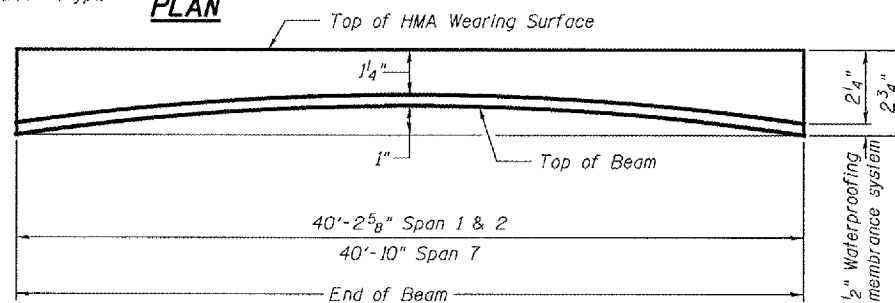
ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sq. Ft.	364
Concrete Removal	Cu. Yd.	3.7
Hot Mix Asphalt Surface Removal	Sq. Yd.	11.3
PPC Deck Beams 17" Depth	Sq. Ft.	354
Concrete Superstructure	Cu. Ft.	3.9
Hotmix Asphalt Surface Course Mix "D" N90	Ton	4.2
Waterproofing Membrane System	Sq. Ft.	392.8
PC Mortar Fairing Course	Foot	202.3
Furnishing and Erecting Structural Steel	Pound	320
Reinforcement Bars, Epoxy Coated	Pound	190
Silicone Joint Sealer, 1 1/4"	Foot	117

**DESIGN STRESSES
PRECAST UNITS**

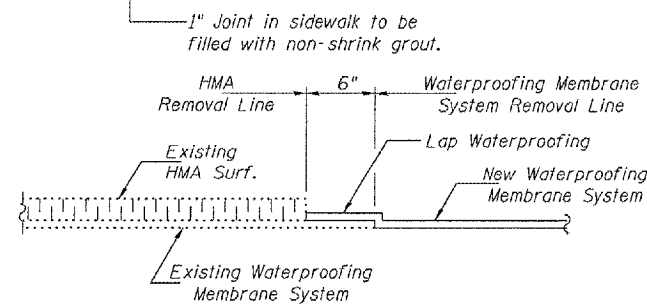
$f'_c = 5,000$ psi
 $f'_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ low lax strands)
 $f'_{si} = 201,960$ psi (1/2" ϕ low lax strands)



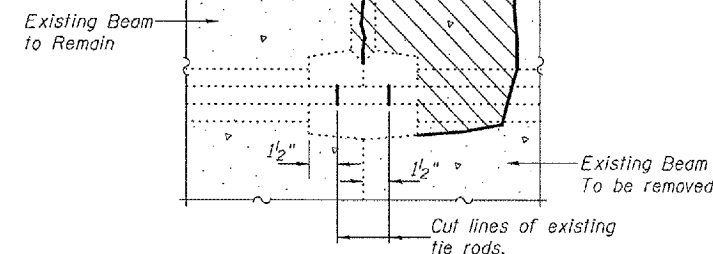
PLAN



ANTICIPATED INITIAL CAMBER DIAGRAM



WATERPROOFING TREATMENT



**BEAM REMOVAL DETAIL
AT TRANSVERSE TIES**



DESIGNED: Adrian T. Hallway
CHECKED: [Signature]
DRAWN: [Signature]
CHECKED: [Signature]

January 15, 2008
EXAMINED: [Signature]
PASSED: [Signature]

Expires: November 30, 2008

**PLAN AND ELEVATION
F.A. RT. 9669
JACKSON COUNTY
SN 039-0036**