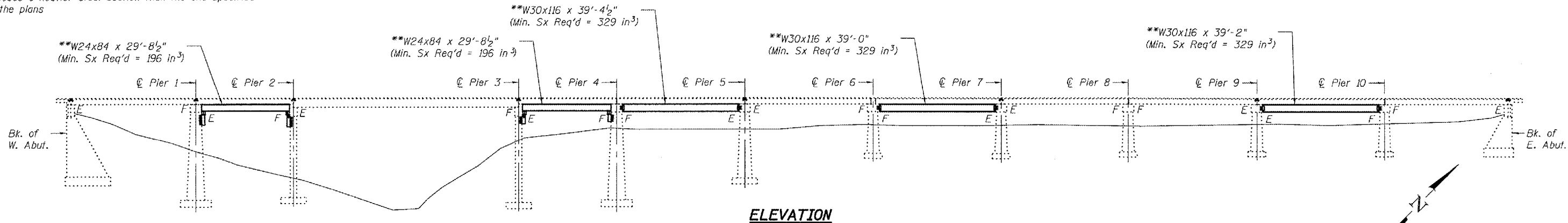


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

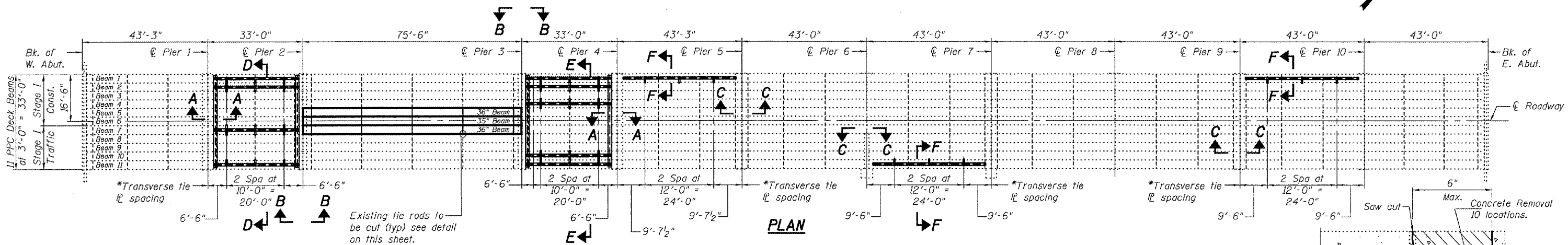
ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET NO.	SHEET NO. 1 4 SHEETS
		Schuyler	12	9	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		Contract Number: 72B65

**Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Girder depth Spans 1 & 4 = 27', Spans 5, 7 & 10 = 33'. No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans

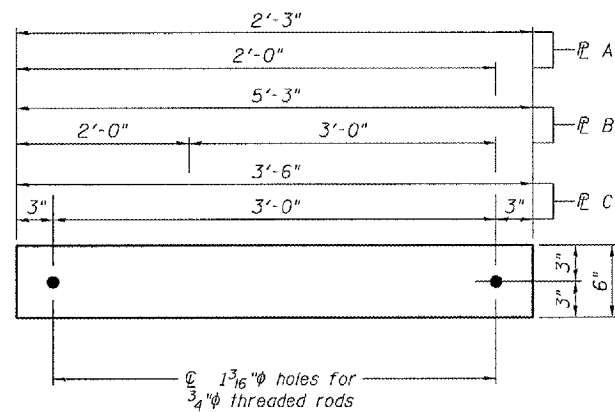
*Transverse tie R's (3 per span). Place additional shims at midpoints between tie R's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.



ELEVATION



PLAN



TRANSVERSE TIE R'S

- R A 1/2" x 2'-3" x 6" (12 Req'd)
- R B 1/2" x 5'-3" x 6" (9 Req'd)
- R C 1/2" x 3'-6" x 6" (6 Req'd)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	1.3
Removal of Existing PPC Deck Beams	Sq. Ft.	679
Concrete Wearing Surface	Sq. Yd.	83.6
PPC Deck Beams (33" Depth)	Sq. Ft.	673
Protective Coat	Sq. Yd.	83.6
Mechanical Splicers	Each	154
Asbestos Bearing Pad Removal	Each	3
Reinforcement Bars, Epoxy Coated	Pound	1860
Furnishing and Erecting Structural Steel	Pound	56620

*At Pier 2

DESIGN STRESSES

(New Construction)
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
PRECAST PRESTRESSED UNITS
f'c = 5,000 psi
f'cl = 4,000 psi
f's = 270,000 (1/2" low relaxation strands)
f'si = 201,960 (1/2" low relaxation strands)

GENERAL NOTES

For stage construction details see Roadway Plans.
The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Wearing Surface.
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.

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.

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

See Section 584 of the Standard Specifications for epoxy grouting of threaded rods; Minimum embedment 9".

The cost of epoxy grouting threaded rods shall be included with Furnishing and Erecting Structural Steel.

The Contractor has the option of using used steel. See Special Provisions.

BEAM REMOVAL DETAIL AT TRANSVERSE TIES

Concrete Removal locations.

Existing Beam To Remain

Existing Beam To be removed.

Cut lines of existing tie rods.

PLAN AND ELEVATION
IL 101
SCHUYLER COUNTY
SN 085-0016



Expires: November 30, 2008

DESIGNED	Victor H. Yelk
CHECKED	[Signature]
DRAWN	[Signature]
CHECKED	VHV AJS

EXAMINED	January 8, 2007
PASSED	[Signature]