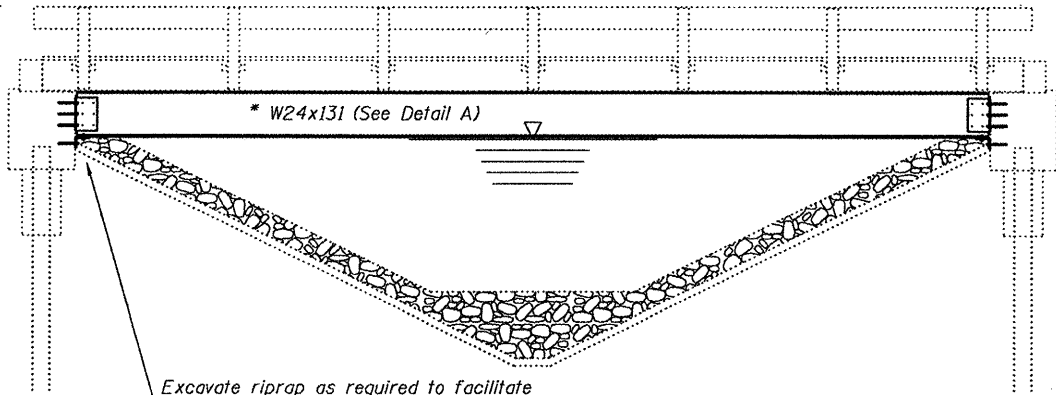


\* Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Girder depth = 24". No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans. (Min Sx = 329 in<sup>3</sup>)

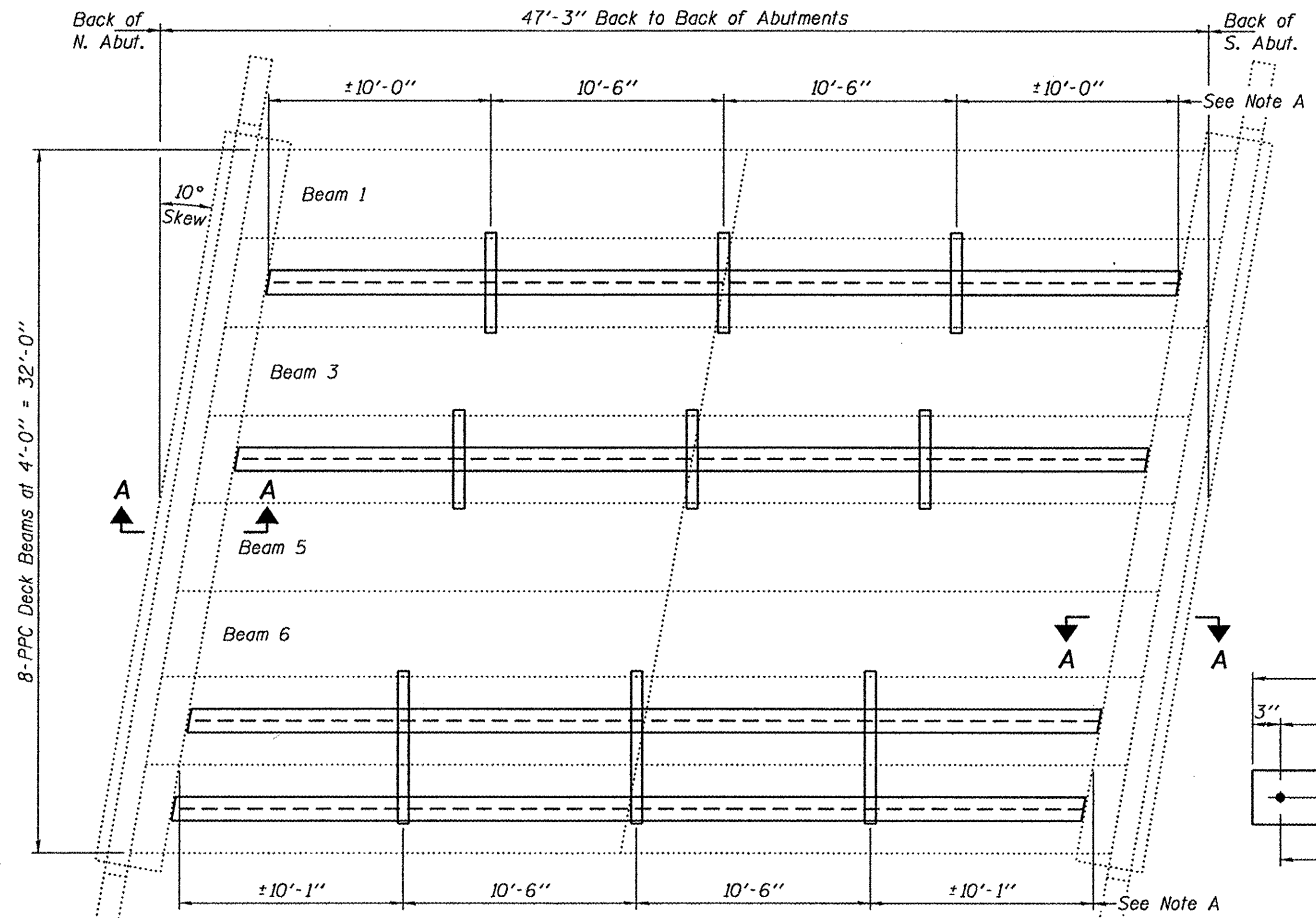
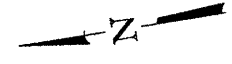


Excavate riprap as required to facilitate installation of W24x131 Support Beam. Cost included with Furnishing & Erecting Structural Steel. (Typical at each abutment.)

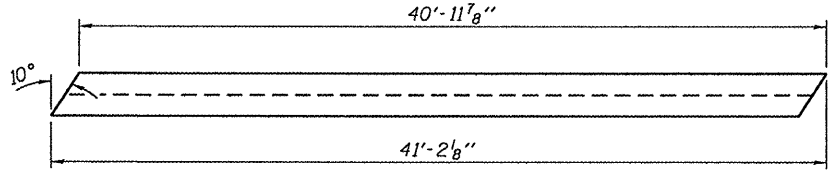
Note A:  
 @ Transverse Tie R's (3 per span). Place additional shims at midpoints between Tie R's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.

**GENERAL NOTES**

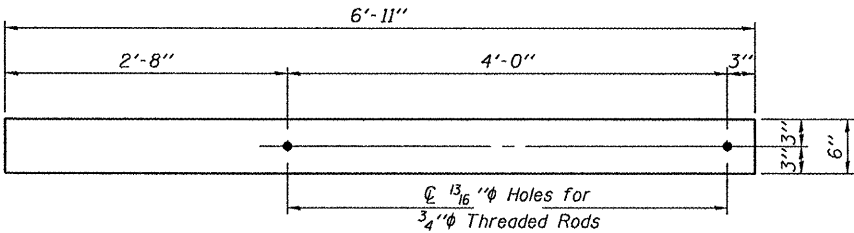
All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and 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 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.  
 See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods; Minimum embedment 9".  
 If the contractor's procedure for placement of 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 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.  
 The cost of epoxy grouting threaded rods on the pier cap, abutments and beams shall be included with Furnishing and Erecting Structural Steel.  
 The Contractor has the option of using used steel. See Special Provisions.



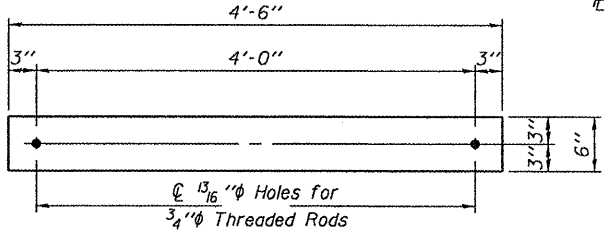
**PLAN**  
 Place W24x131 Bracing Beams under Existing Deck Beams 2, 4, 7 & 8



**DETAIL A**  
 W24x131 x 41'-2 1/8" (4 Req'd)



**TRANSVERSE TIE R B**  
 R 1/2" x 6'-11" x 6" (3 Req'd)



**TRANSVERSE TIE R A**  
 R 1/2" x 4'-6" x 6" (6 Req'd)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	23,630



DESIGNED: <i>M. G. G.</i>	EXAMINED: <i>Jay F. Schuff</i>	DATE: JANUARY 27, 2011
CHECKED: <i>Kyle M. Steffen</i>	PASSED: <i>David Carl Puzey</i>	
DRAWN: <i>Kyle M. Steffen</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES	
CHECKED: <i>FL</i>		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
 SN 038-0184  
 SHEET NO. 1 OF 2 SHEETS

F.A.S. RTE. 1324	SECTION (38-BR1)	COUNTY IROQUOIS	TOTAL SHEETS 6	SHEET NO. 5
CONTRACT NO. 66A70			ILLINOIS FED. AID PROJECT	

OLD U.S. ROUTE 45  
 OVER LANGAN CREEK