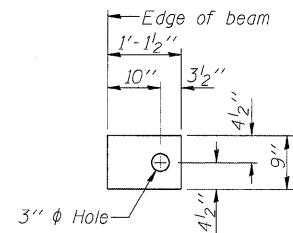


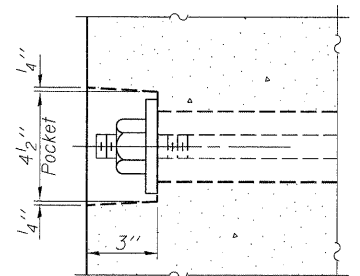
**FABRIC BEARING PAD**  
(Interior)



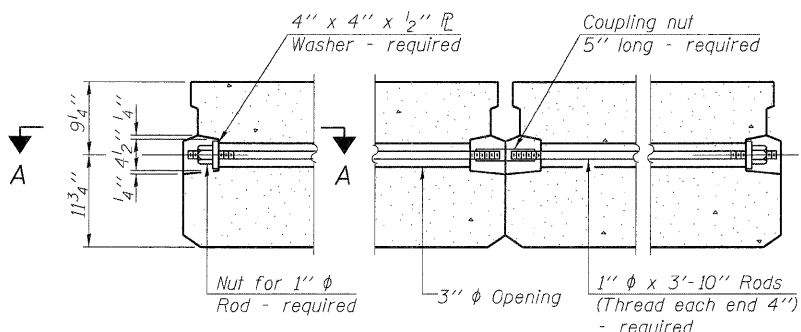
**FABRIC BEARING PAD**  
(Exterior)

**FIXED**

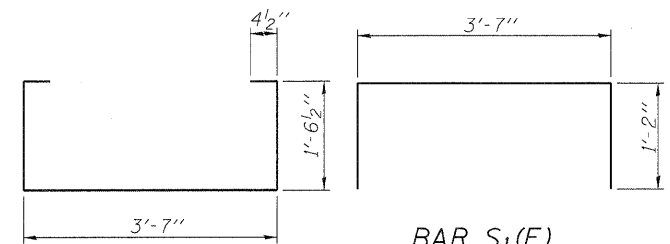
Notes:  
All bearing pads shall be 1" thick.  
See table on this sheet for steel shim plate thickness.



**SECTION A-A**

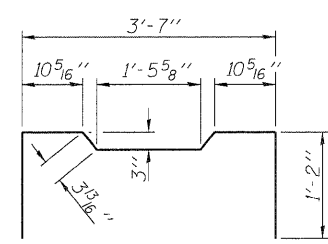


**TYPICAL TRANSVERSE TIE ASSEMBLY**



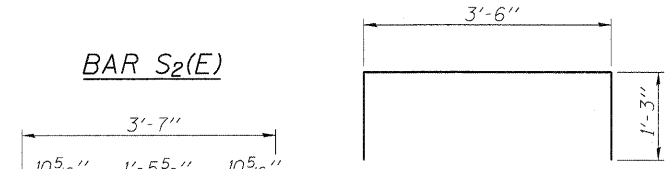
**BAR S(E)**

**BAR S<sub>1</sub>(E)**

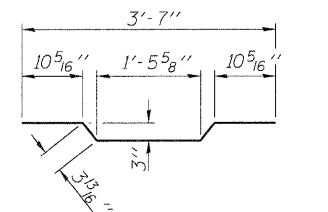


**BAR S<sub>2</sub>(E)**

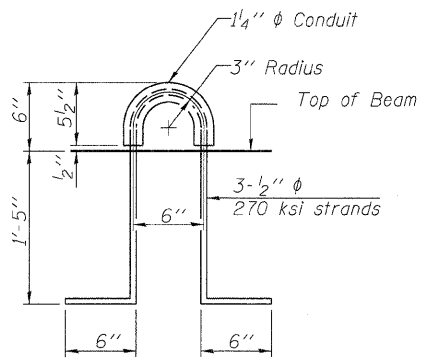
**BAR U(E)**



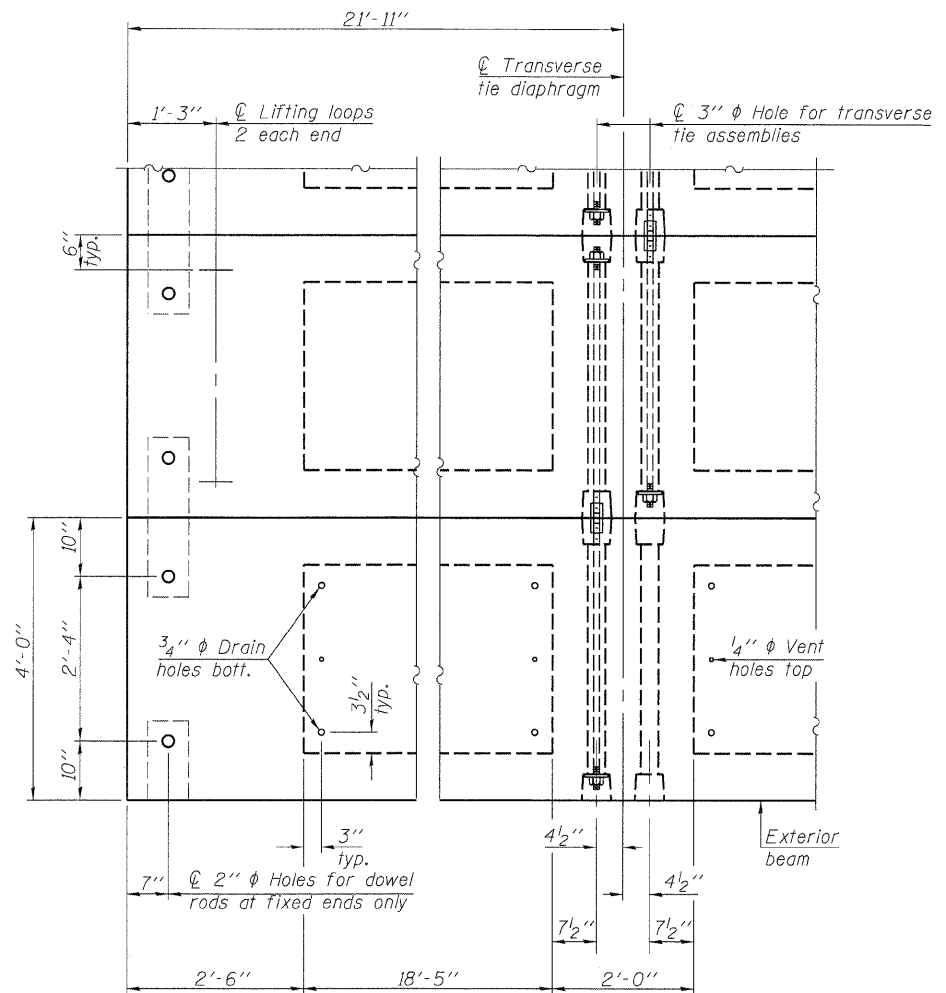
**BAR U<sub>1</sub>(E)**



**BAR A<sub>1</sub>(E)**



**LIFTING LOOP DETAIL**



**PLAN VIEW**

Note: Connect beams in pairs with the transverse tie configuration shown.

**STEEL SHIM PLATE THICKNESS**

	End Bm. 1	Bms. 1-2 Key	Bms. 2-3 Key	Bms. 3-4 Key	Bms. 4-5 Key	Bms. 5-6 Key	Bms. 6-7 Key	End Bm. 7
⊘ Brg. W. Abut.	1/4"	3/8"	1/2"	5/8"	5/8"	1/2"	3/8"	1/4"
⊘ W. Brg. Pier 1	3/4"	7/8"	1"	1 1/8"	1 1/8"	1"	7/8"	3/4"
⊘ E. Brg. Pier 1	3/4"	7/8"	1"	1 1/8"	1 1/8"	1"	7/8"	3/4"
⊘ W. Brg. Pier 2	3/4"	7/8"	1"	1 1/8"	1 1/8"	1"	7/8"	3/4"
⊘ E. Brg. Pier 2	3/4"	7/8"	1"	1 1/8"	1 1/8"	1"	7/8"	3/4"
⊘ Brg. E. Abut.	1/4"	3/8"	1/2"	5/8"	5/8"	1/2"	3/8"	1/4"

Notes:  
Steel shim plates of the dimensions of the fabric bearing pads and the thickness of the above table shall be provided beneath the fabric bearing pads.  
Steel shim plates shall be galvanized according to AASHTO M111.

**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.  
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).  
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.  
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.  
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

**BILL OF MATERIAL**

Material	Quantity	Unit
Precast Prestressed Conc. Deck Bms. (21' depth)	Sq. Ft.	3,780
Furnishing and Erecting Structural Steel	Pound	2,220

PLOT DATE: 12/16/2011  
 FILE NAME: X:\P\113-2245-8080 Prairie Street\CAD\Drawings\PPC Deck Beam Details.dgn  
 USER NAME: smartin



DESIGNED - LM	REVISED -
CHECKED - GG	REVISED -
DRAWN - LM	REVISED -
CHECKED - DSB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**21" x 48" PPC DECK BEAM DETAILS**  
**STRUCTURE NO. 045-3094**

SHEET NO. 9 OF 17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3895	08-15104-01-BR	KANE	38	22
CONTRACT NO. 63661				ILLINOIS FED. AID PROJECT