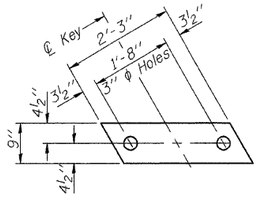
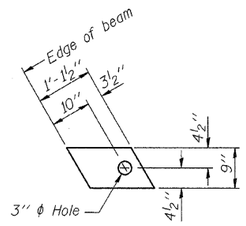


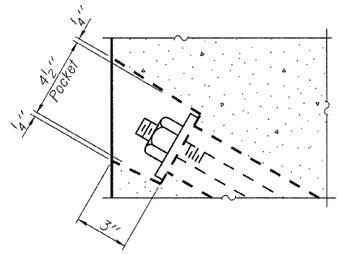
FABRIC BEARING PAD
(Interior)
(32 Required)



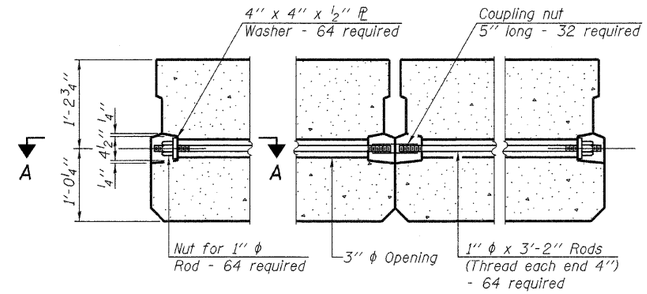
FABRIC BEARING PAD
(Exterior)
(8 Required)

FIXED

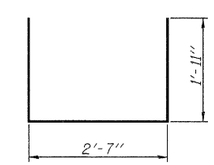
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.



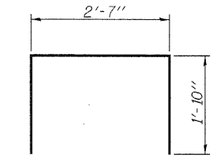
SECTION A-A



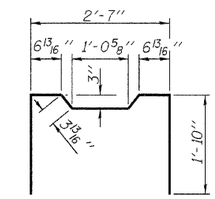
TYPICAL TRANSVERSE TIE ASSEMBLY



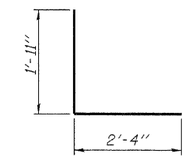
BAR S(E)



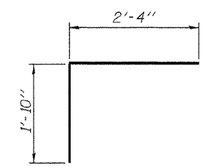
BAR S_1(E)



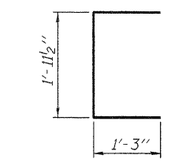
BAR S_2(E)



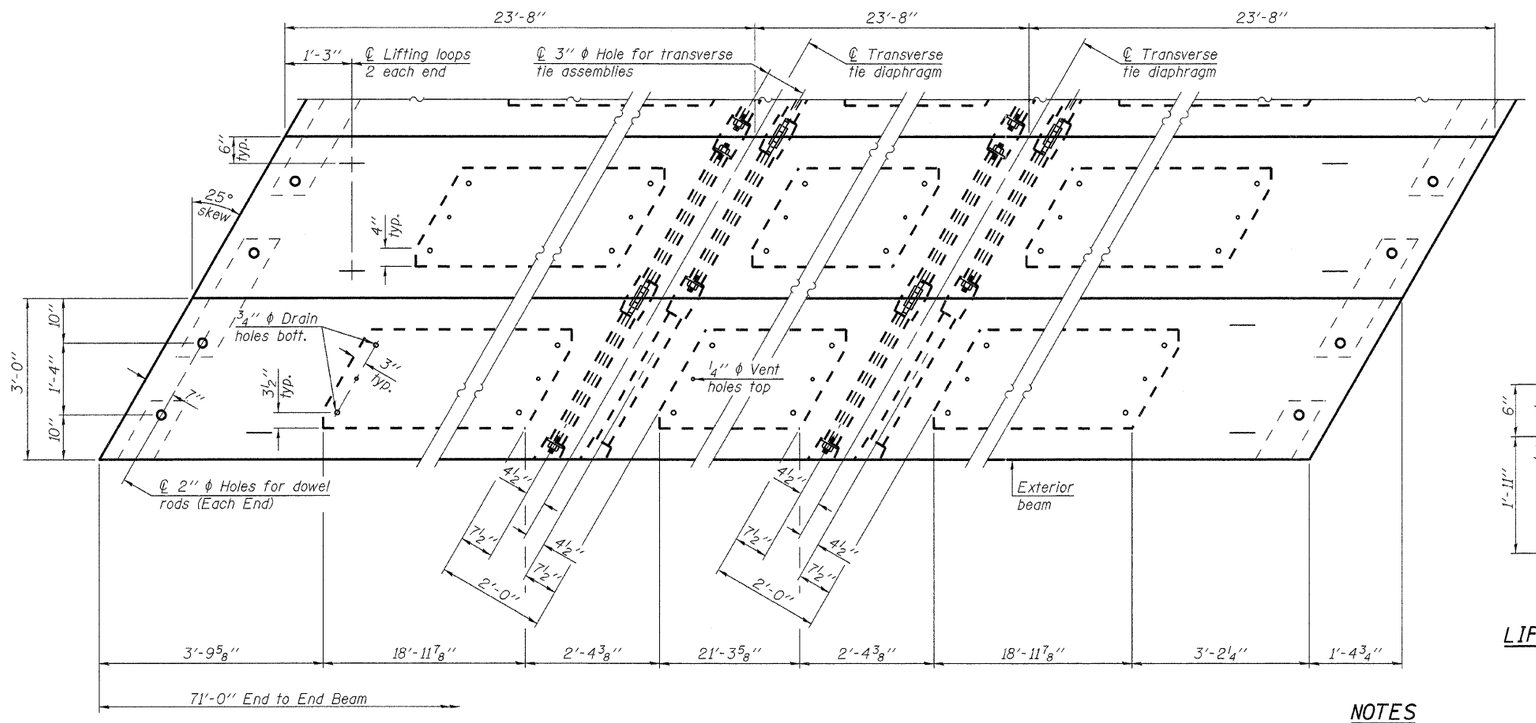
BAR S_3(E)



BAR S_4(E)

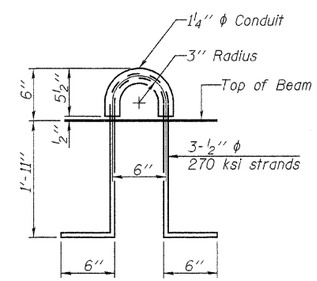


BAR U(E)

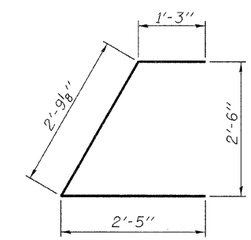


Note: Connect beams in pairs with the transverse tie configuration shown.

PLAN VIEW



LIFTING LOOP DETAIL



BAR U_1(E)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. (80 Required)

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.07 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.

Rail post inserts, specified elsewhere, shall be cast into the exterior face of the outside beams.

See Special Provisions for review and distribution of shop drawings.

BILL OF MATERIAL - SPANS 1 & 2

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	3,834

Estimated Total Weight (One Beam) = 48,910 Pounds

PD-2736-LD 7-1-10

FILE NAME = 11-540_SUPER.DGN	USER NAME = S.A.P.	DESIGNED - A.L.S.	REVISED -
		CHECKED - A.R.K. & J.A.M.	REVISED -
	PLOT SCALE = XXX	DRAWN - S.A.P.	REVISED -
	PLOT DATE = 01/26/12	CHECKED - A.R.K.	REVISED -

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL

27" x 36" PPC DECK BEAM DETAILS – SPANS 1 & 2
S.N. 021-4546

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
151	07-02122-01-BR	DOUGLAS	23	9
		CONTRACT NO. 91473		
	ILLINOIS	BOURBON ROAD DISTRICT		

#11-540