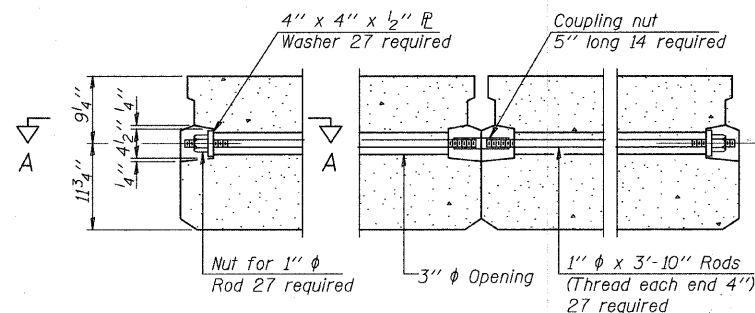
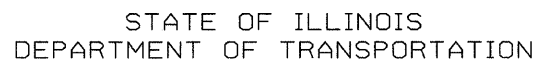
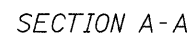




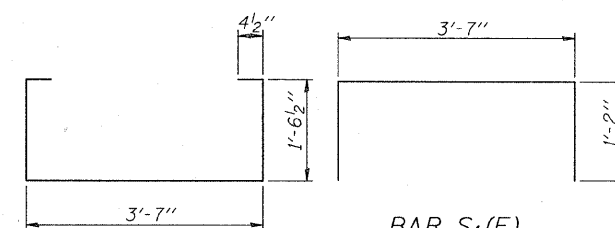
FIXED

Notes:

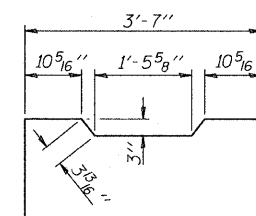
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.
Exterior Fabric Bearing Pad shall be used for the beams
along the stage construction line.



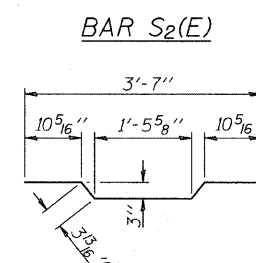
TYPICAL TRANSVERSE TIE ASSEMBLY

BAR $S_1(E)$

BAR S(E)



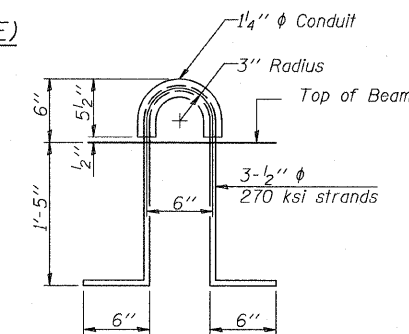
BAR $U(E)$



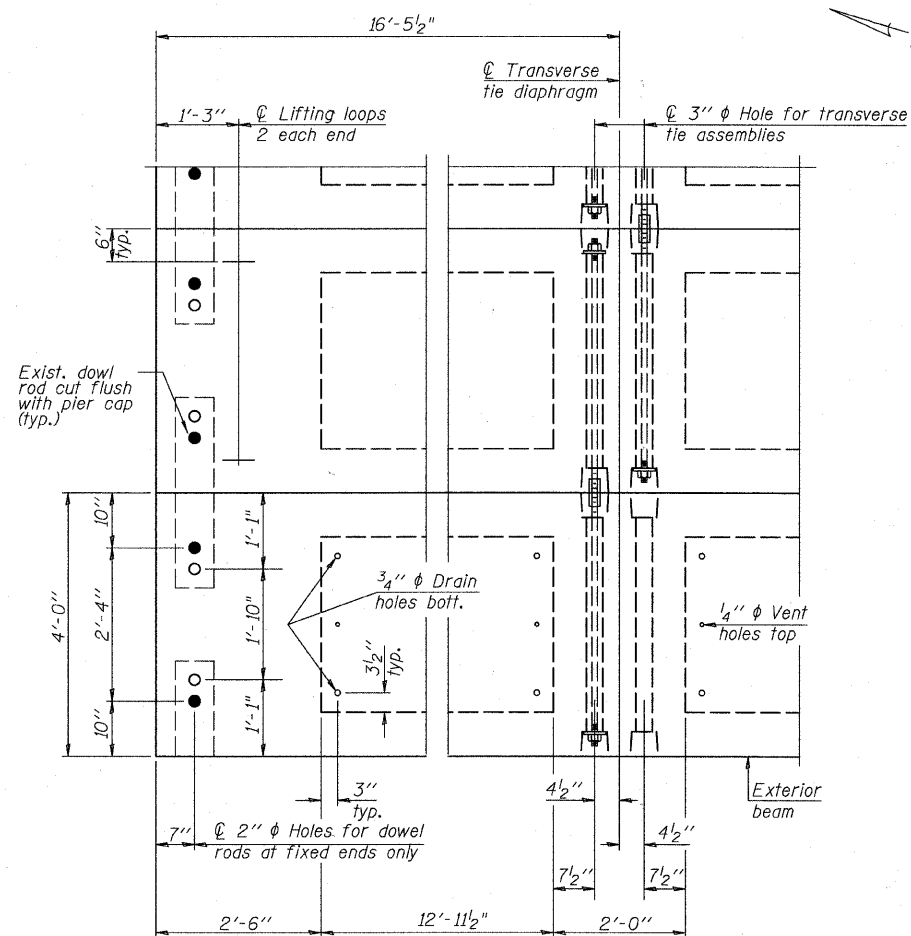
BAR $S_2(E)$

BAR $U_1(E)$

BAR $A_1(E)$



LIFTING LOOP DETAIL



PLAN VIEW

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

Verify existing 1"Ø dowel spacing and existing dimensions in field prior to ordering 21"x48" PPC deck beams.

DESIGNED	L. LAWS
CHECKED	J.P.B.
DRAWN	L. LAWS
CHECKED	J.P.B.

Technical drawing of a bridge deck cross-section. The drawing shows a rectangular cross-section with a total width of 56'-0" and a total height of 28'-0". The cross-section is divided into three main sections: End Span (32'-3 1/2"), Center Span (43'-11"), and End Span (32'-3 1/2"). The drawing includes reinforcement bars (rebar) and stirrups. The reinforcement layout is detailed with dimensions and bar numbers. The drawing is labeled with dimensions and bar numbers.

Bar Number	End Span (32'-3 1/2")	Center Span (43'-11")	End Span (32'-3 1/2")
1		15	29
2		16	30
3		17	31
4		18	32
5		19	33
6		20	34
7		21	35
8		22	36
9		23	37
10		24	38
11		25	39
12		26	40
13		27	41
14		28	42

PLAN
(Showing Beam Numbers)

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 2" 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. (See Special Provisions).

Two 3/4" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" ϕ 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

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	3,617
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URS
100 South Wacker Drive, Suite 500
Chicago, IL 60606
Tel: 312.939.1000
Fax: 312.939.4198

SUPERSTRUCTURE DETAILS
21"x48"- 14SS PPC DECK BEAM DETAILS-END SPAN
STRUCTURE NO. 099-3322
BEAMS 1 THRU 14 & 29 THRU 42

SHEET NO. S-9 18 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0856	08-00050-00-BR	WILL	26	15
				CONTRACT NO. 63576	
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT		