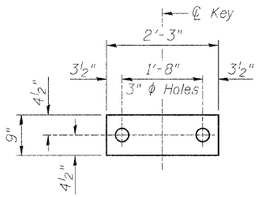
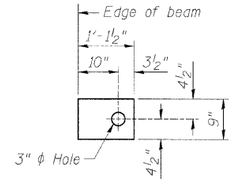


FABRIC BEARING PAD
(Interior)



FABRIC BEARING PAD
(Exterior)

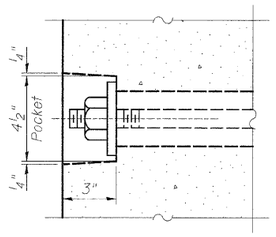
FIXED

NOTE:

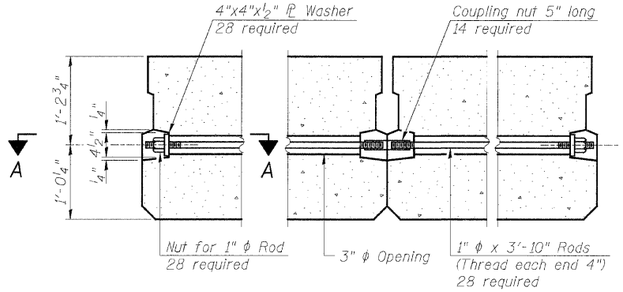
All bearing pads shall be 1" thick.

Exterior bearing pads shall be used at crown break.

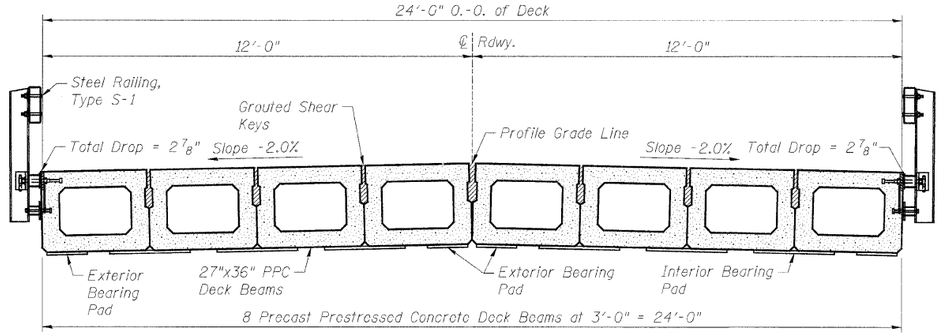
Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.



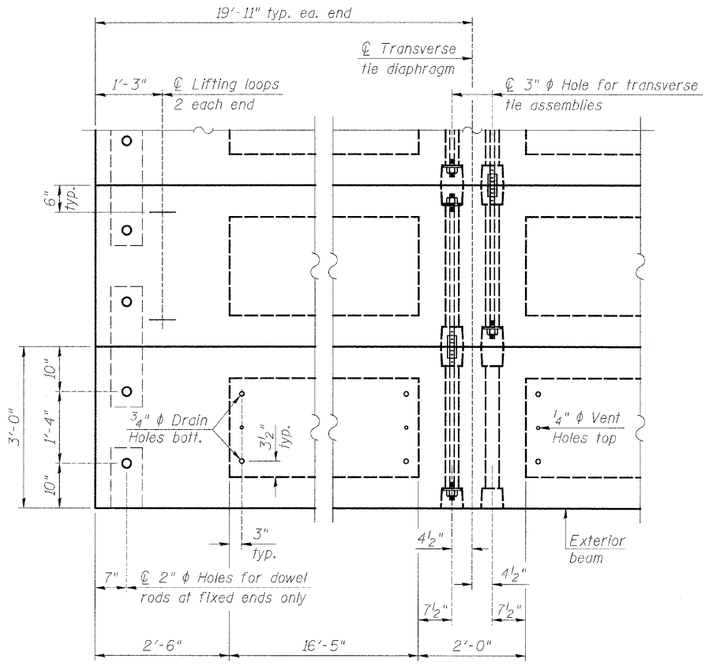
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



CROSS SECTION

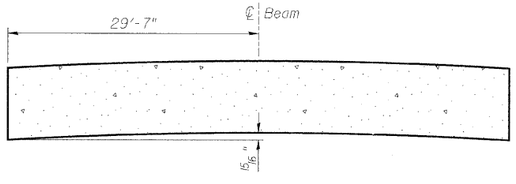


PLAN VIEW

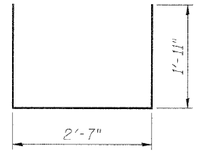
NOTE:

Connect beams in pairs with the transverse tie configuration shown.

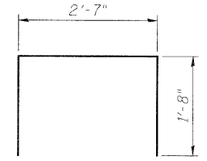
Unused transverse tie hole on exterior beams can be omitted.



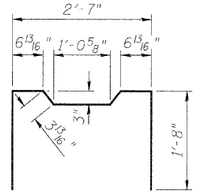
CAMBER DIAGRAM



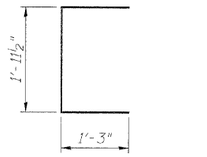
BAR S(E)



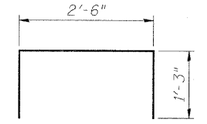
BAR S1(E)



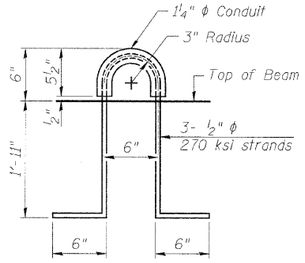
BAR S2(E)



BAR U(E)



BAR U1(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,420

NOTES:

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal ϕ 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.

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 1021.06 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 6,000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5,000 psi.

FILE = S:\PROJECTS\2018\1287D10.Barnacle, TR106\DESIGN\STRUCTURE\3-sauraga\1287D10_27in_DeckBeamDetails.dgn

DESIGNED - MICHAEL WAGNER	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - MEGAN CACKLEY	REVISED -	

BUREAU COUNTY
T.R. 106 (850 E. ST.) OVER HICKORY CREEK
STATION 20+00

27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 006-4218
STRUCTURAL SHEET NO. 4 OF 9 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
106	08-15119-00-BR	BUREAU	18	10
	WHA* 1287D10	CONTRACT NO. 87523		
	ILLINOIS FED. AID PROJECT BROS-0011(086)			