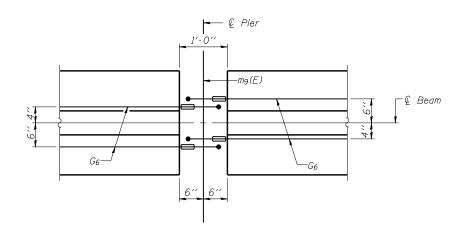
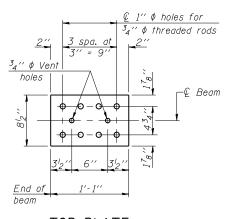
-End of beams Tightly fasten #8 bars together with No. 9 wire ties To outside face of bar, typ. m9(E) Bottom of beam-

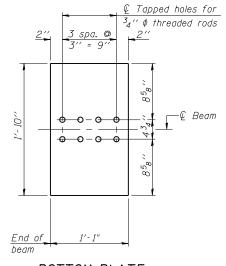
ELEVATION OF BEAM AT PIER



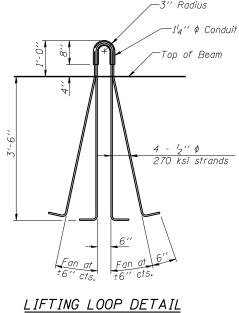
PLAN OF BEAM AT PIER

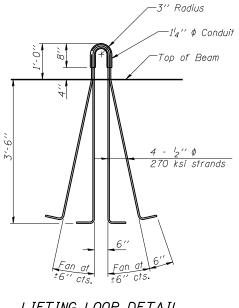


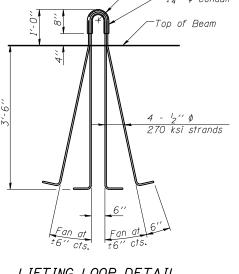


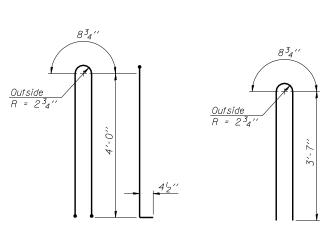




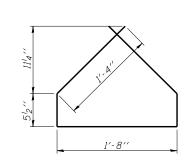








shall be 0.153 sq. in.



BAR GI

BAR G2

<u>NOTES</u> Inserts for ${}^3\!4''$ ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand,

Tilt G_6 bars when necessary to maintain $I_2^{\prime\prime}$ clearance.

plates and threaded rods need not be galvanized. Threaded rods shall be ASTM F 1554 Grade 55.

have attained 45 days of age or older.

the entire coupler can be threaded onto the hook bar.

The top and bottom plates shall be AASHTO M270 Grade 50.

Grade 270. The nominal diameter shall be $l_2^{\prime\prime\prime}$ and the nominal cross-sectional area

The bottom plates and studs shall be galvanized according to AASHTO M111. Top

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).

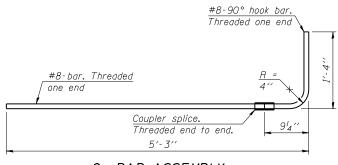
A minimum $2\frac{1}{2}$ " ϕ lifting pin shall be used to engage the lifting loops during handling.

The G_6 bar assembly shall be capable of developing 125 percent of the yield strength

Beams requiring G₆ bar assemblies shall not be released from the fabricator until they

of the grade 60 reinforcement bar components. The assembly shall allow completion of the splice without turning of the hook bar. The hook bar shall be threaded such that

BAR G4



G6 BAR ASSEMBLY

BAR G5

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 48"	Ft.	1,728

PI-4-48D

1-28-11

EFK Moen, LLC Civil Engineering Design 331 Salem Place, Suite 225 Fairview Heights, IL 62208 Phone 618-206-4250

USER NAME = cdl	DESIGNED -	CTW	REVISED -
	CHECKED -	CDL	REVISED -
PLOT SCALE = 0:2 ':' / IN.	DRAWN -	CTW	REVISED -
PLOT DATE = 3/24/2014	DATE -	3/24/2014	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BOTTOM PLATE

(Showing studs)

48" PPC I-BEAM DETAILS (1 OF 2) STRUCTURE NO. 092-0207 SHEET NO. 22 OF 33 SHEETS

SECTION 711 116BR-1 VERMILION 84 52 CONTRACT NO. 70614

— ⊈ Beam