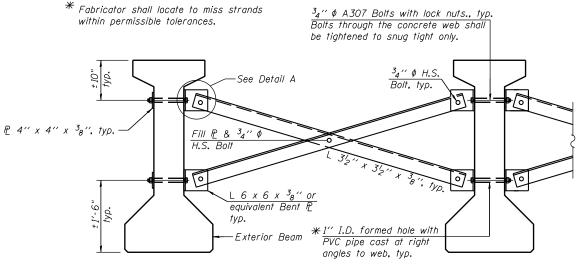
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). A minimum $2^l_{2'}$ $^{\prime\prime}$ $^{\prime\prime}$ lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50.

The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.

Threaded rods shall be ASTM F 1554 Grade 55.



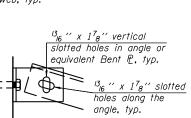
PERMANENT BRACING DETAILS FOR 48" PPC I-BEAMS

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of

oversized holes. All holes shall be 1516 "\$\phi\$ unless otherwise noted.

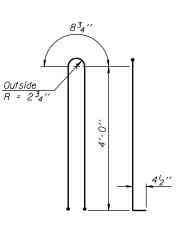
5₁₆ " x 3" x 3" plate washers are required over all slotted holes.

All bolts shall be galvanized according to AASHTO M232. Bracing shall be installed as beams are erected and tightened as soon as possible during erection.



DETAIL A

LIFTING LOOP DETAIL

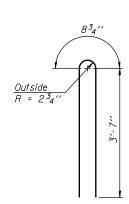


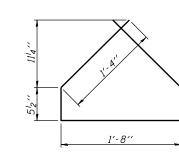
-3'' Radius

·1½′′ ¢ Conduit

Top of Beam

270 ksi strands

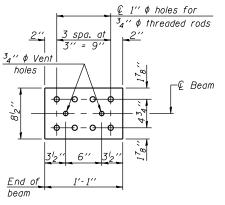




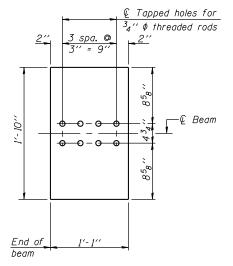
BAR GI

BAR G2

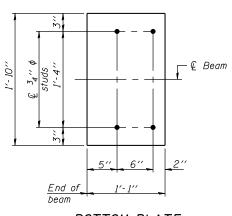
BAR G4



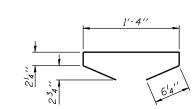




BOTTOM PLATE (Showing threaded rods)



BOTTOM PLATE (Showing studs)



BAR G5

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 48 In.	Ft.	1,081



0	USER NAME = brianf	DESIGNED KDH	REVISED -
		CHECKED AJS	REVISED -
	PLOT SCALE =	DRAWN BJF	REVISED -
	PLOT DATE = 5/1/2012	CHECKED KDH	REVISED -
_			

48" PPC I-BEAM DETAILS	
STRUCTURE NO. 047-0301	
SHEET NO. 20 OF 27 SHEETS	

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
349	11 WRS-3		KENDALL	527	308
			CONTRAC	T NO. 6	50132
	ILLINOIS	FED. A	ID PROJECT		