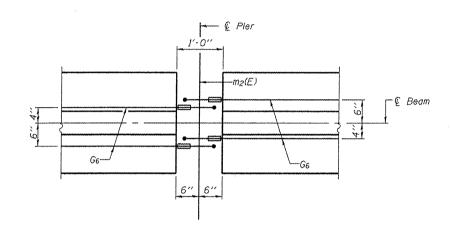
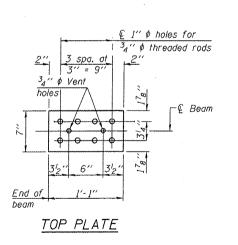
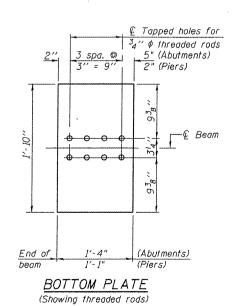


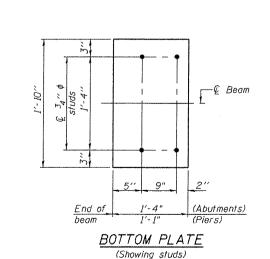
ELEVATION OF BEAM AT PIER



PLAN OF BEAM AT PIER







See bearing details for pintle hole locations when required.

-3" Radius -1'₄'' ¢ Conduit Top of Beam 270 ksi strands 6"

LIFTING LOOP DETAIL

Inserts for $\frac{3}{4}$ " 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,

Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). A minimum 2^l_2 " ϕ lifting pin shall be used to engage the lifting loops during handling. Tilt G_6 bars when necessary to maintain 1^l_2 " clearance.

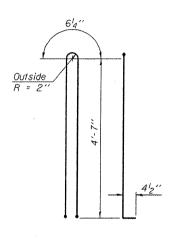
The top and bottom plates shall be AASHTO M270 Grade 50.

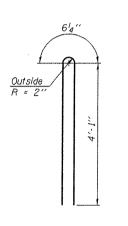
The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.

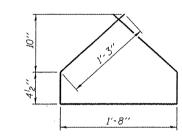
Threaded rods shall be ASTM F 1554 Grade 55.

The G₆ bar assembly shall be capable of developing 125 percent of the yield strength 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 the entire coupler can be threaded onto the hook bar.

Beams requiring G₆ bar assemblies shall not be released from the fabricator until they have attained 45 days of age or older.



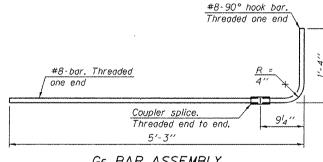


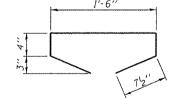


BAR GI

BAR G2

BAR G4





G6 BAR ASSEMBLY

BAR G5

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54''	Ft.	2,814

PI-4-54D

7 - 1 - 10

USER NAME	=	dheberling	DESIGNED	~	BRD/FLL	REVISED	-		Γ
FILE NAME	2	0550083-68482.dgn	CHECKED	-	SDS/JHP	REVISED	-		
PLOT DATE	Ξ	12/21/2010	DRAWN	-	DLH	REVISED	-		
PLOT TIME	=	10:30:53 AM	CHECKED	-	CWC/SDS	REVISED	-		L

WHKS a co.

7018 KINGSMILL CT., SPRINGFIELD, IL (217) 483-9457 ENGINEERING DESIGN FIRM #184001036

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 54" PPC I-BEAM DETAILS S.N. 055--0083 SHEET NO. 22 OF 41 SHEETS

COUNTY TOTAL SHEE SHEETS NO. SECTION MCDONOUGH 117 62 542 105BR-1 CONTRACT NO. 68482