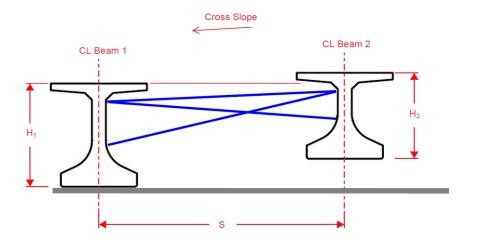


Subject: Girder Bracing Design									
Comp by:	MLS	Date:	09/13/18	Sheet Number:	of				
Check by:	PRS	Job Number:	135-17-1						



[in]

12

Analysis No. = 4
Description = Bridge 4

Left Girder Height = 48 [in] Right Girder Height = 36 [in] Girder Spacing = 7 [ft] Distance from top of left girder to bracing = 12 [in] Distance from bot. of left girder to bracing = 12 [in] Distance from bot. of right girder to bracing = 12 [in]

Tensile Strength ning Moment = 50 [ft*kip]

Max Tension rizontal Force = 8 [kip]

Lines Required

Processive Strength Reace F = 29000 [ksil]

Compressive Strength Brace E = 29000 [ksi] Max Compression Brace A = 0.944 $[in^2]$ Lines Required Brace I = 0.742 $[in^4]$

Brace Type = HDPB 5'-9'
Lines of horizontal Bracing per brace line = 1

Lines of diagonal bracing per brace line = 1

Distance from bot. of right girder to bracing =

Member							
1	2	3					
10.300	10.335	10.335					
8.017	7.888	2.427					
1	1	1					
9.980	10.300	10.214					
-2.565	-2.524	-0.777					
1	1	1					

1

Lines of bracing required =



S	ubject: Gird	der Bracing Design				
C	omp by:	MLS	Date:	09/13/18	Sheet Number:	of
	heck by:	PRS	Job Number:	135-17-1		

Stiffness = 912474 [kip-ft/rad]

Span Length = 150 [ft]

Bracing Point Type = End Points only

Empirical Scale Factor = 1

Pu = 75 [psf]

Pavg = 37.5 [psf]

Beam Weight = 971 [plf]

C0 = 2.213540411 C = 4.454904289 >1

Check = OK