



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]
Distance from bot. of right girder to bracing = 12 [in]

Tensile Strength in Moment = 50 [ft*kip]
Max Tension rizontal Force = 8 [kip]

Lines Required

Compressive Strength Brace E = 29000 [ksi]
Max Compression Brace A = 0.944 [in²]
Lines Required Brace I = 0.742 [in⁴]

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

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

Lines of bracing required = 1



Subject: Girder Bracing Design

Comp by: MLS

Date: 09/13/18

Sheet Number: of

Check 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