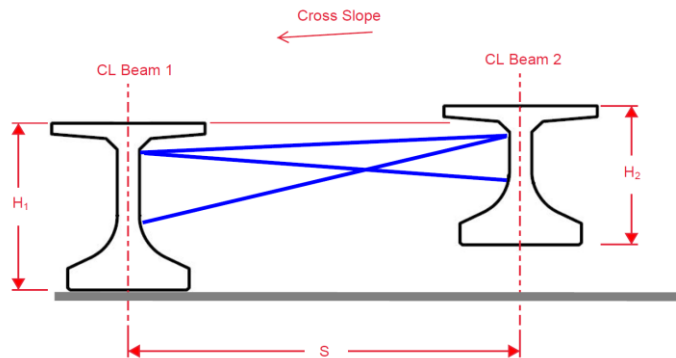


Analysis #4

E



Analysis No. = 4

Description = E

Left Girder Height = 54 [in]

Right Girder Height = 54 [in]

Girder Spacing = 9 [ft]

Distance from top of left girder to bracing = 12.96 [in]

Distance from bot. of left girder to bracing = 25.56 [in]

Distance from bot. of right girder to bracing = 12.96 [in]

Distance from bot. of right girder to bracing = 25.56 [in]

Cross Slope = 0

Overturning Moment = 85.8 [ft*kip]

Horizontal Force = 18.9 [kip]

Brace E = 29000 [ksi]

Brace A = 2 [in²]

Brace I = 2.85 [in⁴]

Brace Type = MB 8'-14'

Lines of horizontal Bracing per brace line = 1

Lines of diagonal bracing per brace line = 1

	Member		
	1	2	3
Tensile Strength	14.371	14.371	14.371
Compressive Strength	14.371	14.371	14.371
Member Force (Stage 2 H)	-1.429	-1.398	-16.264
Member Force (Stage 3 OM)	30.534	29.878	-60.744
Member Force Per Brace (Stage 2 H)	-1.429	-1.398	-16.264
Member Force Per Brace (Stage 3 OM)	30.534	29.878	-60.744
Bracing lines Multiplier (stage 2 H)	1	1	2
Bracing Lines Multiplier (Stage 3 OM)	3	3	5

Bracing Lines Multiplier Required = 5

Stiffness = 7191 [kip-ft/rad]

Span Length = 131 [ft]

Bracing Point Type = Mid-Span Bracing

Empirical Scale Factor = 1.4

P_u = 75 [psf]

P_{avg} = 37.5 [psf]

Beam Weight = 971.4375 [plf]

C_0 = 3.045672807

C = 0.797631529 > 1

Check = NG