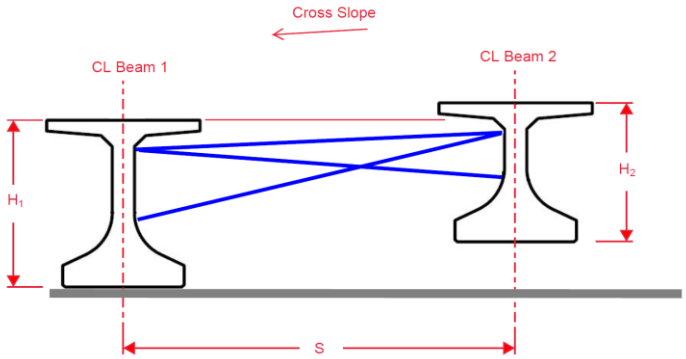
Analysis #2

Bridge 2

A2B ENGINEERING, LLC CONSULTING ENGINEERS	Subject: Girder Bracing Design		
	Comp by: MLS	Date: 09/13/18	Sheet Number: of
	Check by: PRS	Job Number: 135-17-1	



Analysis No. =	2				
Description =	Bridge 2				
Left Girder Height =	54	[in]	Overturning Moment =	60	[ft*kip]
Right Girder Height =	48	[in]	Horizontal Force =	8	[kip]
Girder Spacing =	7.33	[ft]			
Distance from top of left girder to bracing =	12	[in]	Brace E =	29000	[ksi]
Distance from bot. of left girder to bracing =	12	[in]	Brace A =	2	[in^2]
Distance from bot. of right girder to bracing =	12	[in]	Brace I =	2.85	[in^4]
Distance from bot. of right girder to bracing =	12	[in]			
Cross Slope =	0.02				

Brace Type =	HDPB 15'-26'
Lines of horizontal Bracing per brace line =	1
Lines of diagonal bracing per brace line =	1

	Member		
	1	2	3
Tensile Strength	-	-	-
Max Tension	12.248	11.453	-4.225
Lines Required	-	-	-
Compressive Strength	-	-	-
Max Compression	-2.124	-1.986	-24.914
Lines Required	-	-	-

Lines of bracing required = Geometry Error

Stiffness =	29528	[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 =	0.399470881	>1

Check = NG