



### DEAD LOAD DEFLECTION DIAGRAM

- NOTES:  
 1. ENCIRCLED NUMBERS INDICATE ANTICIPATED DEFLECTION DUE TO CONCRETE ONLY.  
 2. DEFLECTIONS ARE IN INCHES.

		MOMENT - foot-kips						REACTION - kips					
LOAD NAME	LOAD - k/ft	POSITIVE MOMENT				NEGATIVE MOMENT		REACTION					
		0.4 PT. END SPAN		0.5 PT. CENTER SPAN		PIER	PIER	ABUTMENT	ABUTMENT	PIER	PIER		
		INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR		
DC1	0.74* 0.72*	542	511	606	567	1189	1117	35	33	121	114		
DC2	0.14 0.14	79	78	107	106	148	149	5	5	17	17		
DW	0.15 0.15	82	82	112	111	155	156	5	5	17	17		
LIVE LOAD + IMPACT HL-93	DISTRIBUTION FACTOR	MOMENT	MOMENT										
		0.609	0.681	1272	1420	1370	1669	1083	1269	86	76	154	135
		REACTION	REACTION	-	-	-	-	-	-	-	-	-	-
TOTAL		-	-	-	-	2575	2691	131	119	309	283		

\* LOAD VALUES DO NOT INCLUDE GIRDER WEIGHT.  
 MOMENT AND REACTION VALUES DO INCLUDE GIRDER WEIGHT.  
 MOMENTS AND REACTIONS SHOWN ARE UNFACTORED.

LATEST REVISION DATE	<i>Thomas E. Mc Donald</i> APPROVED BY BRIDGE ENGINEER		
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010	
		BEAM DEFLECTIONS 300'-0 BRIDGE	RS40-068-10