



DEAD LOAD DEFLECTION DIAGRAM

NOTES:
 1. ENCIRCLED NUMBERS INDICATE ANTICIPATED DEFLECTION DUE TO CONCRETE ONLY.

2. DEFLECTIONS ARE IN INCHES.

		MOMENT AND REACTION TABLE											
		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*	209	196	249	231	470	438	21	20	72	67	
DC2	0.14	0.14	36	36	51	51	63	63	3	3	11	11	
DW	0.15	0.15	38	38	53	53	65	66	3	3	11	11	
LIVE LOAD + IMPACT HL-93	DISTRIBUTION FACTOR	MOMENT	MOMENT	745	806	792	935	549	623	-	-	-	-
		REACTION	REACTION	-	-	-	-	-	-	75	66	111	98
		0.772	0.681	-	-	-	-	-	-	102	92	205	187
TOTAL													

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

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES OCTOBER, 2014
		BEAM DEFLECTIONS 200'-0 BRIDGE
		RS40-063-14