

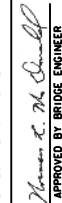
DEAD LOAD DEFLECTION DIAGRAM

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

2. DEFLECTIONS ARE IN INCHES.

MOMENT - foot-kips			MOMENT AND REACTION TABLE						REACTION - kips			
LOAD NAME	LOAD - k/ft		POSITIVE MOMENT				NEGATIVE MOMENT		REACTION			
	INTERIOR	EXTERIOR	0.4 PT. END SPAN		0.5 PT. CENTER SPAN		PIER	PIER	ABUTMENT	ABUTMENT	PIER	PIER
			INTERIOR	EXTERIOR	INTERIOR	EXTERIOR						
D.L. NO. 1	0.74*	0.72*	360	352	411	402	810	792	26	26	94	92
D.L. NO. 2	0.29	0.29	121	117	166	155	226	237	8	8	29	29
LIVE LOAD + IMPACT HS20-44 DISTRIBUTION FACTOR	TRUCK	MOMENT	810	756	907	827	-	-	59	50	-	-
		1.35										
	REACTION	REACTION										
		1.65					611	605	-	-	77	73
TOTAL	-	-	-	-	-	-	1647	1634	93	84	200	194

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

03-07 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES FEBRUARY, 2004
		BEAM DEFLECTIONS 260'-0 BRIDGE

RS40-51-04