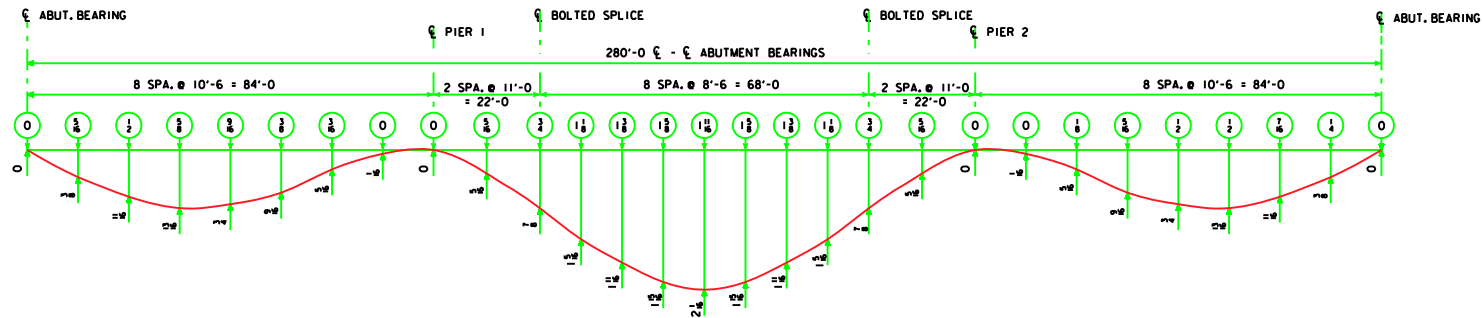


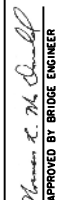


DEAD LOAD DEFLECTION DIAGRAM

- 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				
				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	INTERIOR	EXTERIOR	
D.L. NO. 1		0.74*	0.72*	428	419	496	485	951	930	29	28	104	101	
D.L. NO. 2		0.29	0.29	140	136	192	180	263	275	9	9	32	32	
LIVE LOAD +IMPACT HS20-44 DISTRIBUTION FACTOR	TRUCK LANE	MOMENT	MOMENT	880	822	983	897	-	-	59	50	-	-	
		1.35	1.27											
		REACTION	REACTION	-	-	-	-	690	684	-	-	81	76	
		1.65	1.05											
TOTAL		-	-	-	-	-	-	1904	1889	97	87	216	209	

* 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 280'-0 BRIDGE	RS40-52-04