

INTERIOR GIRDER MOMENT TABLE				
	0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or Pier 2	0.5 Sp. 2	
$I_s$	(in <sup>4</sup> )	2850	2850	2850
$I_c(n)$	(in <sup>4</sup> )	8992	8992	8992
$I_c(3n)$	(in <sup>4</sup> )	6733	6733	6733
$I_c(cr)$	(in <sup>4</sup> )	-	-	-
$S_s$	(in <sup>3</sup> )	213.5	213.5	213.5
$S_c(n)$	(in <sup>3</sup> )	340.5	340.5	340.5
$S_c(3n)$	(in <sup>3</sup> )	308.1	308.1	308.1
$S_c(cr)$	(in <sup>3</sup> )	-	-	-
$M_{DC1}$	(kip)	0.70	0.70	0.70
$M_{DC2}$	(kip)	56	98	50
$M_{DC2}$	(kip)	0.15	0.15	0.15
$M_{DW}$	(kip)	12	21	10
$M_{DW}$	(kip)	0.27	0.27	0.27
$M_{LL+IM}$	(kip)	24	42	21
$M_{LL+IM}$	(kip)	274	227	259
$M_u$ (Strength I)	(kip)	601	609	560
$\phi_f M_n$	(kip)	1776	1110	1782
$f_s DC1$	(ksi)	3.1	5.5	2.8
$f_s DC2$	(ksi)	0.5	0.8	0.4
$f_s DW$	(ksi)	0.9	1.6	0.8
$f_s (L+IM)$	(ksi)	9.7	8.0	9.1
$f_s$ (Service II)	(ksi)	17.1	18.4	15.9
$0.95R_h F_y r$	(ksi)	47.5	47.5	47.5
$f_s$ (Total)(Strength I)	(ksi)	-	-	-
$\phi_f F_n$	(ksi)	-	-	-
$V_f$	(k)	17.2	17.3	16.9

INTERIOR GIRDER REACTION TABLE				
	S. Abut.	Pier 1	Pier 2	N. Abut.
$R_{DC1}$	(k)	9.5	29.1	29.1
$R_{DC2}$	(k)	1.9	6.2	6.2
$R_{DW}$	(k)	3.4	11.1	11.1
$R_{L+IM}$	(k)	50.1	76.8	76.8
$R_{Total}$	(k)	64.9	123.2	123.2

$I_s$ ,  $S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(n)$ ,  $S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(3n)$ ,  $S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(cr)$ ,  $S_c(cr)$ : Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing  $f_s$  (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$DC1$ : Un-factored non-composite dead load (kips/ft.).

$M_{DC1}$ : Un-factored moment due to non-composite dead load (kip-ft.).

$DC2$ : Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

$M_{DC2}$ : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

$DW$ : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

$M_{DW}$ : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

$M_L + IM$ : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

$M_u$  (Strength I): Factored design moment (kip-ft.).

1.25 ( $M_{DC1} + M_{DC2}$ ) + 1.5  $M_{DW}$  + 1.75  $M_L + IM$

$\phi_f M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

$f_s DC1$ : Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

$M_{DC1} / S_{nc}$

$f_s DC2$ : Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

$M_{DC2} / S_c(3n)$  or  $M_{DC2} / S_c(cr)$  as applicable.

$f_s DW$ : Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

$M_{DW} / S_c(3n)$  or  $M_{DW} / S_c(cr)$  as applicable.

$f_s (L+IM)$ : Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

$M_L + IM / S_c(n)$  or  $M_{LL+IM} / S_c(cr)$  as applicable.

$f_s$  (Service II): Sum of stresses as computed below (ksi).

$f_{SDC1} + f_{SDC2} + f_{SDW} + 1.3 f_s (L+IM)$

$0.95R_h F_y r$ : Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

$f_s$  (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

1.25 ( $f_{SDC1} + f_{SDC2}$ ) + 1.5  $f_{SDW}$  + 1.75  $f_s (L+IM)$

$\phi_f F_n$ : Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

$V_f$ : Maximum factored shear range in span computed according to Article 6.10.10.

Note:

$M_L$  and  $R_L$  include the effects of centrifugal force and superelevation.