



**CAMBER DIAGRAM**

**\*TOP OF GIRDER WEB ELEVATIONS (E.B.)**

Location	℄ Brg. W. Abut.	℄ Splice 1	℄ Splice 2	℄ Brg. Pier	℄ Splice 3	℄ Splice 4	℄ Brg. E. Abut.
Girder 1	710.10	710.16	710.71	710.94	711.17	711.88	712.20
Girder 2	710.24	710.30	710.85	711.08	711.31	712.02	712.34
Girder 3	710.36	710.42	710.97	711.20	711.43	712.14	712.46
Girder 4	710.26	710.33	710.88	711.11	711.34	712.04	712.37
Girder 5	710.13	710.20	710.74	710.97	711.20	711.91	712.24
Girder 6	709.97	710.04	710.58	710.81	711.04	711.75	712.08

\*For fabrication use only.

**\*TOP OF GIRDER WEB ELEVATIONS (W.B.)**

Location	℄ Brg. W. Abut.	℄ Splice 1	℄ Splice 2	℄ Brg. Pier	℄ Splice 3	℄ Splice 4	℄ Brg. E. Abut.
Girder 7	709.97	710.04	710.58	710.81	711.04	711.75	712.08
Girder 8	710.13	710.20	710.74	710.97	711.20	711.91	712.24
Girder 9	710.26	710.33	710.88	711.11	711.34	712.04	712.37
Girder 10	710.36	710.42	710.97	711.20	711.43	712.14	712.46
Girder 11	710.24	710.30	710.85	711.08	711.31	712.02	712.34
Girder 12	710.10	710.16	710.71	710.94	711.17	711.88	712.20

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INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. 1 or 0.6 Sp. 2	Pier
$I_s$	(in <sup>4</sup> ) 184991	264204
$I_c(n)$	(in <sup>4</sup> ) 309073	404536
$I_c(3n)$	(in <sup>4</sup> ) 239549	323073
$I_c(cr)$	(in <sup>4</sup> )	282916
$S_s$	(in <sup>3</sup> ) 4204	5871
$S_c(n)$	(in <sup>3</sup> ) 5006	6701
$S_c(3n)$	(in <sup>3</sup> ) 4624	6279
$S_c(cr)$	(in <sup>3</sup> )	6656
DC1	(k/ft) 1.366	1.529
M <sub>DC1</sub>	(k) 4189.2	8340.7
DC2	(k/ft) 0.173	0.173
M <sub>DC2</sub>	(k) 541.7	1044.9
DW	(k/ft) 0.383	0.383
M <sub>DW</sub>	(k) 1199.2	2313.2
M <sub>℄ + IM</sub>	(k) 3902.3	4210.0
M <sub>u</sub> (Strength I)	(k) 14541.5	22569.2
$\phi_r M_n$	(k) 24475.9	26246.9
$f_s$ DC1	(ksi) 12.0	17.0
$f_s$ DC2	(ksi) 1.4	1.9
$f_s$ DW	(ksi) 3.1	4.2
$f_s$ (℄ + IM)	(ksi) 9.4	7.6
$f_s$ (Service II)	(ksi) 28.6	33.0
0.95R <sub>n</sub> F <sub>y</sub>	(ksi) 47.5	47.5
$f_s$ (Total)(Strength I)	(ksi)	43.2
$\phi_r F_n$	(ksi)	50.0
V <sub>r</sub>	(k)	68.4

INTERIOR GIRDER REACTION TABLE		
	Abutments	Pier
R <sub>DC1</sub>	(k) 103.7	375.1
R <sub>DC2</sub>	(k) 13.7	46.9
R <sub>DW</sub>	(k) 30.4	103.9
R <sub>℄ + IM</sub>	(k) 118.9	253.9
R <sub>Total</sub>	(k) 266.7	779.8

- $I_s, S_s$ : 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<sub>DC1</sub>: 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<sub>DC2</sub>: 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<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M<sub>℄ + IM</sub>: Un-factored live load moment plus dynamic load allowance (Impact) (kip-ft.).
- M<sub>u</sub> (Strength I): Factored design moment (kip-ft.).  
1.25 (M<sub>DC1</sub> + M<sub>DC2</sub>) + 1.5 M<sub>DW</sub> + 1.75 M<sub>℄ + IM</sub>
- $\phi_r M_n$ : 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<sub>DC1</sub> / S<sub>nc</sub>
- $f_s$  DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
M<sub>DC2</sub> / S<sub>c(3n)</sub> or M<sub>DC2</sub> / S<sub>c(cr)</sub> 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<sub>DW</sub> / S<sub>c(3n)</sub> or M<sub>DW</sub> / S<sub>c(cr)</sub> as applicable.
- $f_s$  (℄ + 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<sub>℄ + IM</sub> / S<sub>c(n)</sub> or M<sub>DW</sub> / S<sub>c(cr)</sub> as applicable.
- $f_s$  (Service II): Sum of stresses as computed below (ksi).  
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s(\ell + IM)$
- 0.95R<sub>n</sub>F<sub>y</sub>: 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<sub>sDC1</sub> + f<sub>sDC2</sub>) + 1.5 f<sub>sDW</sub> + 1.75 f<sub>s(℄ + IM)</sub>
- $\phi_r F_n$ : Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
- V<sub>r</sub>: Maximum factored shear range in span computed according to Article 6.10.10.