

S.N. 055-0080

INTERIOR GIRDER MOMENT TABLE		
0.5 Sp. 1		
$I_s$	(in <sup>4</sup> )	25,563
$I_c(n)$	(in <sup>4</sup> )	66,184
$I_c(3n)$	(in <sup>4</sup> )	47,084
$S_s$	(in <sup>3</sup> )	1,185
$S_c(n)$	(in <sup>3</sup> )	1,642
$S_c(3n)$	(in <sup>3</sup> )	1,493
DC1	(k/')	1.048
MDC1	('k)	1,732
DC2	(k/')	0.129
MDC2	('k)	213
DW	(k/')	0.357
MDW	('k)	590
$M\ell + IM$	('k)	2,053
$M_u$ (Strength I)	('k)	6,909
$\phi_r M_n$	('k)	8,261
$f_s$ DC1	(ksi)	17.5
$f_s$ DC2	(ksi)	1.7
$f_s$ DW	(ksi)	4.7
$f_s$ ( $\ell + IM$ )	(ksi)	15.0
$f_s$ (Service II)	(ksi)	43.4
$0.95R_n F_y$	(ksi)	47.5
$V_r$	(k)	66.5

\*Compact Sections

INTERIOR GIRDER REACTION TABLE		
Abut.		
$R_{DC1}$	(k)	61.2
$R_{DC2}$	(k)	7.4
$R_{DW}$	(k)	20.5
$R_{\ell + IM}$	(k)	118.4
$R_{Total}$	(k)	207.5

S.N. 055-0081

INTERIOR GIRDER MOMENT TABLE		
0.5 Sp. 1		
$I_s$	(in <sup>4</sup> )	25,563
$I_c(n)$	(in <sup>4</sup> )	65,169
$I_c(3n)$	(in <sup>4</sup> )	46,247
$S_s$	(in <sup>3</sup> )	1,185
$S_c(n)$	(in <sup>3</sup> )	1,636
$S_c(3n)$	(in <sup>3</sup> )	1,485
DC1	(k/')	1.005
MDC1	('k)	1,661
DC2	(k/')	0.150
MDC2	('k)	248
DW	(k/')	0.333
MDW	('k)	551
$M\ell + IM$	('k)	1,974
$M_u$ (Strength I)	('k)	6,667
$\phi_r M_n$	('k)	8,118
$f_s$ DC1	(ksi)	16.8
$f_s$ DC2	(ksi)	2.0
$f_s$ DW	(ksi)	4.4
$f_s$ ( $\ell + IM$ )	(ksi)	14.5
$f_s$ (Service II)	(ksi)	42.1
$0.95R_n F_y$	(ksi)	47.5
$V_r$	(k)	64.8

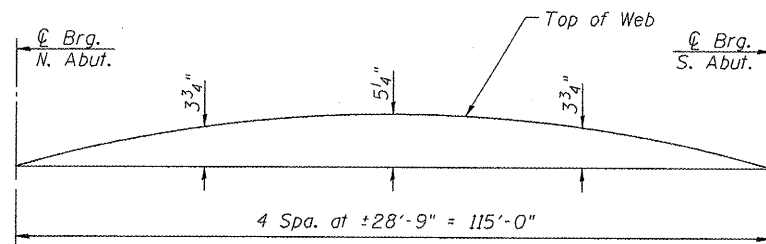
\*Compact Sections

INTERIOR GIRDER REACTION TABLE		
Abut.		
$R_{DC1}$	(k)	58.7
$R_{DC2}$	(k)	8.6
$R_{DW}$	(k)	19.2
$R_{\ell + IM}$	(k)	114.1
$R_{Total}$	(k)	200.6

- $I_s, S_s$ : 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>).
- DC1: Un-factored non-composite dead load (kips/ft.).
- MDC1: 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.).
- MDC2: 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.).
- MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- $M\ell + IM$ : Un-factored live load moment plus dynamic load allowance (impact) ((kip-ft.).
- $M_u$  (Strength I): Factored design moment (kip-ft.).  
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\ell + IM}$
- $\phi_r M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 (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.
- $f_s$  ( $\ell + IM$ ): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).  
 $M_{\ell + IM} / S_c(n)$  or  $M_{\ell + IM} / S_c(cr)$  as applicable.
- $f_s$  (Service II): Sum of stresses as computed below (ksi).  
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s(\ell + IM)$
- $0.95R_n F_y$ : Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- $V_r$ : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

TOP OF WEB ELEVATIONS		
Girder No.	© Brg. N. Abut.	© Brg. S. Abut.
1	683.368	683.718
2	683.548	683.908
3	683.698	684.048
4	683.748	684.098
5	683.648	683.998
6	683.558	683.908
7	683.448	683.798
8	683.668	684.018
9	683.818	684.178
10	683.958	684.308
11	683.918	684.268
12	683.818	684.168
13	683.688	684.048

Ⓞ For fabrication only.



CAMBER DIAGRAM