

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
I_s	(in ⁴)	23,837	65,936	18,011
$I_c(n)$	(in ⁴)	62,972	---	49,618
$I_c(3n)$	(in ⁴)	44,309	---	35,506
$I_c(cr)$	(in ⁴)	---	71,539	---
S_s	(in ³)	1,274	2,548	912
$S_c(n)$	(in ³)	1,693	---	1,268
$S_c(3n)$	(in ³)	1,559	---	1,163
$S_c(cr)$	(in ³)	---	2,608	---
DC1	(k/')	0.93	1.15	0.89
M _{DC1}	('k)	1325	-2925	635
DC2	(k/')	0.38	0.38	0.38
M _{DC2}	('k)	532	-1,003	291
DW	(k/')	0.30	0.30	0.30
M _{DW}	('k)	418	-789	229
$M_{\xi + IM}$	('k)	1,916	-2,270	1,568
M_u (Strength I)	('k)	6,302	---	4,245
$\phi_r M_n$	('k)	7,984	---	6,283
f_s DC1	(ksi)	12.48	13.77	8.36
f_s DC2	(ksi)	4.09	4.61	3.00
f_s DW	(ksi)	3.22	3.63	2.36
f_s ($\xi + IM$)	(ksi)	13.59	10.44	14.84
f_s (Service II)	(ksi)	37.45	35.59	33.00
0.95R _h F _{yr}	(ksi)	47.50	47.50	47.50
f_s (Total)(Strength I)	(ksi)	---	46.70	---
$\phi_r F_n$	(ksi)	---	50.00	---
V _r	(k)	61.5	61.5	61.5

INTERIOR GIRDER REACTION TABLE				
		S. Abut.	Pier	N. Abut.
R _{DC1}	(k)	51.9	177.7	37.1
R _{DC2}	(k)	20.0	65.3	15.2
R _{DW}	(k)	15.8	51.4	11.9
R $\xi + IM$	(k)	94.5	189.0	89.5
R _{Total}	(k)	182.2	483.4	153.7

MOMENT TABLE FOR GIRDERS 10 & 11				
		0.4 Sp. 1	Pier	0.6 Sp. 2
I_s	(in ⁴)	34,594	72,812	34,594
$I_c(n)$	(in ⁴)	83,208	---	83,208
$I_c(3n)$	(in ⁴)	57,827	---	57,827
$I_c(cr)$	(in ⁴)	---	78,243	---
S_s	(in ³)	1,922	2,814	1,922
$S_c(n)$	(in ³)	2,431	---	2,431
$S_c(3n)$	(in ³)	2,244	---	2,244
$S_c(cr)$	(in ³)	---	2,873	---
DC1	(k/')	0.95	1.14	0.95
M _{DC1}	('k)	1432	-2734	789
DC2	(k/')	0.02	0.02	0.02
M _{DC2}	('k)	30	-50	17
DW	(k/')	0.30	0.30	0.30
M _{DW}	('k)	439	-737	249
$M_{\xi + IM}$	('k)	3,855	-3,908	3,235
M_u (Strength I)	('k)	9,232	---	7,042
$\phi_r M_n$	('k)	9,298	---	9,298
f_s DC1	(ksi)	8.94	11.66	4.93
f_s DC2	(ksi)	0.16	0.21	0.09
f_s DW	(ksi)	2.35	3.08	1.33
f_s ($\xi + IM$)	(ksi)	19.03	16.32	15.97
f_s (Service II)	(ksi)	36.19	36.16	27.11
0.95R _h F _{yr}	(ksi)	47.50	47.50	47.50
f_s (Total)(Strength I)	(ksi)	---	48.01	---
$\phi_r F_n$	(ksi)	---	50.00	---
V _r	(k)	99.0	100.5	102.0

REACTION TABLE FOR GIRDERS 10 & 11				
		S. Abut.	Pier	N. Abut.
R _{DC1}	(k)	54.1	178.6	41.2
R _{DC2}	(k)	1.1	3.4	0.8
R _{DW}	(k)	16.1	50.6	12.3
R $\xi + IM$	(k)	134.6	263.1	128.6
R _{Total}	(k)	205.9	495.7	182.9

- 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 (in⁴ and in³).
- $I_c(n), S_c(n)$: 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 (in⁴ and in³).
- $I_c(3n), S_c(3n)$: 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 (in⁴ and in³).
- $I_c(cr), S_c(cr)$: 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 (in⁴ and in³).
- 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.).
 $M_{\xi + IM}$: 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 $M_{\xi + IM}$
 $\phi_r M_n$: 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 ($\xi + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
 $M_{\xi + IM}$ / S_{c(3n)} or $M_{\xi + IM}$ / S_{c(cr)} as applicable.
- f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s(\xi + IM)$
- 0.95R_hF_{yr}: 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 $f_s(\xi + IM)$
- $\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7.2 or 6.10.8 (ksi).
- V_r: Maximum factored shear range in span computed according to Article 6.10.10.