

***TOP OF BEAM ELEVATIONS**

Beam Number	CL Brg. W. Abut	CL Brg. E. Abut
1	610.80	610.77
2	610.94	610.94
3	611.04	611.06
4	611.04	611.06
5	610.89	610.97
6	610.72	610.83

*For fabrication only

INTERIOR GIRDER MOMENT TABLE	
	0.5 Sp.
I_s	(in ⁴) 12,100
$I_c(n)$	(in ⁴) 36,010
$I_c(3n)$	(in ⁴) 25,244
S_s	(in ³) 664
$S_c(n)$	(in ³) 1,061
$S_c(3n)$	(in ³) 937
Z	(in ³) 767
$DC1$	(k') 1,003
M_{DC1}	(k') 982
$DC2$	(k') 0.150
M_{DC2}	(k') 147
DW	(k') 0.375
M_{DW}	(k') 367
$M_L + IM$	(k') 1,459
M_u (Strength I)	(k') 4,505
$\phi_f M_n$	(k') 5,072
$f_s DC1$	(ksi) 17.6
$f_s DC2$	(ksi) 1.88
$f_s DW$	(ksi) 4.7
$f_s 1.3(L+IM)$	(ksi) 21.45
f_s (Service II)	(ksi) 45.62
f_s (Total)(Strength I)	(ksi) -
V_f	(k) 60.20

* Compact sections

INTERIOR GIRDER REACTION TABLE	
	Abut.
R_{DC1}	(k) 45.32
R_{DC2}	(k) 6.64
R_{DW}	(k) 16.59
$R_L + IM$	(k) 99.85
R_{Total}	(k) 168.40

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.⁴ and in.³).

$I_c(n)$, $S_c(n)$: 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) due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n)$, $S_c(3n)$: 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) due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

Z : Plastic Section Modulus of the steel section in non-composite areas. Omit line in Moment Table if not used in design calculations (in.³).

$DC1$: 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 (kip-ft.).

f_s (Service II): Sum of stresses as computed from the moments below (ksi).

$M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_L + IM$

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

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

V_f : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.