

INTERIOR BEA	M MOME	NT TABLE
		0.5 Sp.
Is	(in4)	9040
I _c (n)	(in4)	23395
Ic(3n)	(in4)	16947
Ss	(in ³)	504
Sc(n)	(in ³)	737
Sc(3n)	(in ³)	661
DC1	(k/′)	0.814
M DC1	(′k)	500
DC2	(k/′)	0.130
M DC2	('k)	80
DW	(k/′)	0,313
Mow	(′k)	192
M4 + IM	(′k)	884
Mu (Strength I)	(′k)	2560
Øf Mn	(′k)	3752
fs DC1	(ksi)	11.9
fs DC2	(ksi)	1.5
fs DW	(ksi)	3.5
fs 1.3(4+IM)	(ksi)	18.7
fs (Service II)	(ksi)	35.6
Vf	(k)	26.4

	INTERIOR	BEAM
R	PEACTION	TABLE
		Abuts.
RDCI	(k)	28,5
R DC2	(k)	4.6
Row	(k)	11.0
R4 + 1	т (k)	82.1
RTotal	(k)	126.2

Notes:	All diaphragms shall be installed as steel is erected and
	secured with erection pins and bolts except as otherwise
	noted. Individual diaphragms at supports may be temporarily
	disconnected to install bearing anchor rods.
	Two hardened washers required for each set of oversized
	holes in diaphragms.

**TOP OF BEAM ELEVATIONS

Location	€ Brg. W. Abut.	© Brg. E. Abut.		
Beam 1	467.94	468.71		
Beam 2	468.23	468.86		
Beam 3	468.49	468.98		
Beam 4	468.75	469.10		
Beam 5	468.97	469.16		
Beam 6	469.18	469.19		
Beam 7	469.37	469.20		

**For fabrication use only.

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DESIGNED - Stephen M. Ryan	EXAMINED	Thomas Newsallb:	DATE - MARCH 20, 2012		STRUCTURAL STEEL DETAILS	F.A.S.	SECTION	COUNTY TOTAL SHEET
CHECKED - Fess Teklehaimanot		ENGINEER OF BRIDGE DESIGN		STATE OF ILLINOIS		770	64-1BR	MADISON 137 92
DRAWN - h.t. duong	PASSED	Callman	REVISED	DEPARTMENT OF TRANSPORTATION	SIRUCIURE NU. 060-0204			CONTRACT NO. 76401
CHECKED - GRA/SMR/FT		ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 18 OF 26 SHEETS		ILLINOIS FED.	AID PROJECT

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).
10(11), 30(11);	and deck based upon the modular ratio, "n", used for computing $f_{\rm s}({\rm Total-Strength \ I, \ and \ Service \ II)}$ due to short-term composite live loads (in. ⁴ and in. ³).
Ic(3n), Sc(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).
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.).
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.).
M _{DW} :	Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M4 + IM:	Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
Mu (Strength I):	Factored design moment (kip-ft.).
	1.25 (Mdc1 + Mdc2) + 1.5 Mdw + 1.75 M4 + IM
$\phi_f M_n$:	Compact composite positive moment capacity computed
	according to Article 6.10.7.1 (kip-ft.).
fs (Service II):	Sum of stresses as computed from the moments below (ksi).
17	MDC1 ' MDC2 ' MDW ' 1.J M4 + IM
Vf:	maximum raciorea snear range in span computea according to



Article 6.10.10.