INTERIOR BEAM MOMENT TABLE						
		0.4 Sp. 1	Pier	0.6 Sp. 2		
Is	(in 4)	10500	10500	10500		
Ic (n)	(in 4)	25037		25037		
Ic (3n)	(in 4)	18057		18057		
Ss	(in 3)	581	581	581		
Sc (n)	(in 3)	819		819		
Sc (3n)	(in 3)	733		733		
Ζ	(in3)		668			
DC1	(k/ft.)	0.789	0.789	0.789		
M DC1	(′k)	544	667	128		
DC2	(k/ft.)	0.15	0.15	0.15		
M DC2	(′k)	117	94	37		
DW	(k/ft.)	0.3	0.3	0.3		
M DW	(′k)	233	188	75		
M&+Imp	(′k)	1028	647	671		
Ma (Strength I)	(′k)	2974	2366	1492		
¢fMn	('k)	4062	2750	4062		
fs DC1	(k <b>.</b> s.i.)	11.3	13.8	2.6		
fs DC2	(k.s.i.)	1.9	1.9	0.6		
fs DW	(k.s.i.)	3.8	3.9	1.2		
fs 1.3 (4+1)	(k.s.i.)	19.6	17.4	12.8		
fs (Service II)	(k.s.i.)	36.6	37.0	17.2		
fs (Total)(Strength I)	(k.s.i.)					
Vsr	(k)	28.3		26.7		

		W. Abut.	Pier	E. Abut.
R DC1	(k)	29.3	79.5	15.1
R DC2+DW	(k)	17.8	42.8	10.2
R4	(k)	68.2	94.0	58.8
R Imp.	(k)	15.9	18.8	14.9
R (Total)	(k)	131.2	235.1	99.0

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs due to non-composite loads.

Ic (n) and Sc (n) are the moment of inertia and section modulus of the composite section used in computing fs due to short-term composite loads.

Ic(3n) and Sc(3n) are the moment of inertia and section modulus of the composite section used in computing fs due to long-term composite loads.

Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

DCI is the dead load acting on the non-composite section. DC2 is the dead load acting on the long-term composite section. DW is the dead load acting on the long-term composite section due to wearing surface.

Ma (Strength I)=1.25 M(DC1+DC2)+1.5M (DW)+1.75 M(4+Imp). 

accordance with appendix D6.1 and 6.10.7. fs (Service II) is the sum of the stresses due

to DC1+DC2+DW+1.3(4+Imp).

fs (Total) (Strength I) (Non-compact section) is the sum of the stresses due to 1.25(DC1+DC2)+1.5DW+1.75(4+Imp). Vsr is the maximum shear range in the span 0.75 ( $\downarrow$  + Imp).



€ 1<sup>3</sup><sub>8</sub>" x 2" Slotted Holes —

-∉ Brg.















## DESIGNED Stephen M. Ryan September 29. 2006 EXAMINED Thomas CHECKED Angela J. Bryant Ralph E. anderso DRAWN R. Sommer PASSED CHECKED S.M.R./F.T.





DIAPHRAGM D (45 Required) All diaphragm material shall be AASHTO M270 Grade 50W.



<sup>7</sup>8″ ¢ H.S. Bolts



SPLICE DETAILS

(6 Required)

\*AASHTO M270 Grade 50W.