



Project: WEST MIAMI SIX MODEL B
01/24/05 1707/30

Mark: J06

Allowed deflection under live load = 1.11 in (L/ 360)
Calculated deflection under service live load = 0.57 in (L/ 697)
NB: Hambro Deflection: Beam Formula * 1.3 with = 97.74 in*4
Joint inertia = 1.71 in
Required camber

FORCES IN MEMBERS [kips]

(THE SHOWN FORCES ARE REALS)									
(fy = 50 KSI U/N)									
Left Reaction = 5.76/ 0.00 kips Right Reaction = 6.20/ 0.00 kips									
REQUIRED MATERIAL									
x = tied at mid-length									
No	Tension	Compres.	Slend.	Util.	Length	REQUIRED WELD	Remarks		
x = tied at mid-length									
Top Chord									
1.1	0.00	-4.63		0 0.28	2'-0 1/2"				
1.2	0.00	-8.29		0 0.28	2'-0"				
1.3	0.00	-12.35		0 0.76	do				
1.4	0.00	-15.99		0 0.98	do				
1.5	0.00	-19.20		0 0.81	2'-0"				
1.6	0.00	-21.97		0 0.71	2'-0"				
1.7	0.00	-24.33		0 0.79	2'-0"				
1.8	0.00	-26.25		0 0.85	2'-0"				
1.9	0.00	-27.75		0 0.90	2'-0"				
1.10	0.00	-27.11		0 0.88	2'-0"				
1.11	0.00	-24.35		0 0.79	2'-0"				
1.12	0.00	-21.16		0 0.69	2'-0"				
1.13	0.00	-17.55		0 0.74	2'-0"				
1.14	0.00	-13.50		0 0.83	2'-0"				
1.15	0.00	-9.63		0 0.55	2'-0"				
1.16	0.00	-5.03		0 0.31	2'-0 1/2"				
1.17	0.00	0.00		0 0.31	2'-0 1/2"				
1.18	0.00	0.00		0 0.31	2'-0 1/2"				
Bottom Chord									
2.1	0.00	0.00		0 0.31	2'-0 1/2"				
2.2	0.00	0.00		0 0.31	2'-0"				
2.3	0.00	0.00		0 0.31	2'-0"				
2.4	0.00	0.00		0 0.31	2'-0"				
2.5	0.00	0.00		0 0.31	2'-0"				
2.6	0.00	0.00		0 0.31	2'-0"				
2.7	0.00	0.00		0 0.31	2'-0"				
2.8	0.00	0.00		0 0.31	2'-0"				
2.9	0.00	0.00		0 0.31	2'-0"				