



Project: WEST MIAMI SIX MODEL B
01/24/05 170730

Mark: 107

FORCES IN MEMBERS [kips]									
(THE SHOWN FORCES ARE REALS) (FY = 50 KSI U/N)									
Left Reaction = 4.70/ 0.00 kips Right Reaction = 4.70/ 0.00 kips									
REQUIRED WELD									
Eff. Throat-Ea. side									
Remarks									
No	Tension	Compres.	REQUIRED MATERIAL	Slend.	Util.	Length	REQUIRED WELD	Eff. Throat-Ea. side	Remarks
x = tied at mid-length									
Top Chord									
1.1	0.00	-4.24	Top Hambro	0	0.26	2'-4"			
1.2	0.00	-4.22	do	0	0.26	0'-8 1/2"			
1.3	0.00	-6.64	do	0	0.41	2'-0"			
1.4	0.00	-8.94	do	0	0.54	do			
1.5	0.00	-10.47	do	0	0.64	do			
1.6	0.00	-11.24	Top Hambro	0	0.69	2'-0"			
Bottom Chord									
2.1	0.00	0.00	LL 1.5 x .109	z 91	0.35	2'-4 1/2"			
2.2	7.72	0.00	do	z 67	0.53	1'-8"			
2.3	11.64	0.00	do	z 81	0.65	2'-0"			
2.4	14.44	0.00	do	z 81	0.76	do			
2.5	16.12	0.00	do	z 81	0.85	do			
2.6	16.86	0.00	LL 1.5 x .109	z 91	0.68	2'-0"			
End Diagonal									
3.1	7.88	0.00	RD 5/8 (40)	z 153	0.86	2'-5 7/8"	.185	- 1"	
Diagonal Towards End									
4.1	3.77	0.00	RD 5/8 (40)	z 104	0.41	1'-8"	.185	- 0 3/4"	
4.2	2.69	0.00	do	z 104	0.29	do			
4.3	1.47	0.00	do	z 104	0.18	do			
4.4	1.47	0.00	RD 5/8 (40)	z 104	0.16	1'-8"	.185	- 0 3/4"	
Diagonal Towards Center									
5.1	0.00	-2.62	do	z 94	0.82	1'-5 7/8"	.185	- 0 3/4"	
5.2	0.00	-3.77	do	z 104	0.90	2'-8"	do		
5.3	0.00	-2.69	do	z 104	0.64	do	do		
5.4	0.00	-1.61	RD 5/8 (40)	z 104	0.39	do	do		
5.5	0.00	-1.47	do	z 104	0.35	1'-8"	.185	- 0 3/4"	
Secondary Web Member									
7.1	0.00	-0.67	RD 5/8 (40)	z 85	0.12	1'-4"	.185	- 0 3/4"	
VIBRATION (ALLEN-MURRAY)									
Full height partition between floor									
Removable partition on all the surface									
Without partition									
Frequency									
BRIDGING									
Maximum spacing between rows of bridging									
Top Chord: Rail Bars spaced at 21" C/C (533 mm).									
Bottom Chord: Rail Bars spaced at 21" C/C (533 mm).									
Bottom Chord									
11'-0 1/2"									

POSITION

Keep 1/3 stress increase for wind : No

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