



Project: WEST MIAMI SIX MODEL B
01/24/05 17/07/30

Mark: J16

FORCES IN MEMBERS [kips]									
(THE SHOWN FORCES ARE REALS)									
(FY = 50 KSI U/N)									
Left Reaction = 3.12/ 0.00 kips Right Reaction = 3.12/ 0.00 kips									
Eff. depth = 18.45 in									
REQUIRED WELD									
Eff. Throat-Ea. Side									
Remarks									
REQUIRED MATERIAL									
X = tied at mid-length									
No	Tension	Compres.	Stand.	Util.	Length				
Top Chord									
1.1	0.00	-3.05		0.19	2'-4"				
1.2	0.00	-2.93	Top Hambro	0.18	1'-0 1/2"				
1.3	0.00	-4.09	db	0.25	2'-0"				
1.4	0.00	-4.86	Top Hambro	0.30	2'-0"				
Bottom Chord									
2.1	0.00	0.00	Lt. 1.5 x .109	2 104 0.23	2'-8 1/2"				
2.2	5.12	0.00	db	2 67 0.31	1'-8"				
2.3	6.81	0.00	db	2 81 0.36	2'-0"				
2.4	7.37	0.00	Lt. 1.5 x .109	2 81 0.39	2'-0"				
End Diagonal									
3.1	5.51	0.00	RD 9/16"	2 189 0.74	2'-9 3/8"	.178 - 0 3/4"			
Diagonal Towards End									
4.1	0.00	0.00	RD 9/16"	2 116 0.22	1'-8"	.178 - 0 3/4"			
4.2	0.98	0.00	RD 1/2"	2 131 0.17	1'-8"	.170 - 0 5/8"			
Diagonal Towards Center									
5.1	0.00	-2.18	RD 9/16"	2 105 0.64	1'-5 7/8"	.178 - 0 3/4"			
5.2	0.00	-1.66	RD 1/2"	2 131 0.94	1'-8"	.170 - 0 5/8"			
5.3	0.00	-0.98	RD 1/2"	2 131 0.57	1'-8"	.170 - 0 5/8"			
Secondary Web Member									
7.1	0.00	-0.76	RD 9/16"	2 98 0.20	1'-4 5/8"	.178 - 0 3/4"			
VIBRATION (ALLEN-MURRAY)									
Full height partition between floor = (.09 % a/g)									
Demountable partition on all the surface = (.15 % a/g)									
Without partition = (.15 % a/g)									
The floor does not have a minimum stiffness under a concentrated force of 5.7 kips/in.									
Frequency = 13.05 Hz.									

Maximum spacing between tops of bridging
Top Chord: Roll Bars spaced at 21" C/C (533 mm).
Bottom Chord: ==> 0 Row(s) Minimum

BRIDGING

Keep 1/3 stress increase for wind : No
Fabrication code unless noted
-Lx = 2 angles welded to box. BR = Round bar
-U = 1 U profile.
The welding connections between members is calculated according to non continuous joints.
It is shorter for continuous joints.

Designers: Lois Armandes Shop: Jacksonville (sales)
Projects no.: H4183-021
79 (71.75) / 89 (77.84) Area to Paint: 17.96 p12 Material Sort: Weight

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