



Project: WEST MIAMI SIX MODEL B  
01/24/05 17:07:29

Mark: 103

| FORCES IN MEMBERS [kips]     |         |                   |                        |            |                  |               |      |                      |               |
|------------------------------|---------|-------------------|------------------------|------------|------------------|---------------|------|----------------------|---------------|
| (THE SHOWN FORCES ARE REALS) |         |                   |                        |            |                  |               |      |                      |               |
| (Fy = 50 Ksi U/N)            |         |                   |                        |            |                  |               |      |                      |               |
| (Eff. depth = 18.42 in)      |         |                   |                        |            |                  |               |      |                      |               |
| Left Reaction =              |         | 2.59/             | 0.00                   | kips       | Right Reaction = | 2.59/         | 0.00 | kips                 | REQUIRED WELD |
|                              |         | REQUIRED MATERIAL |                        |            |                  |               |      | Eff. Throat-Pa. Side | Remarks       |
| No                           | Tension | Compress.         | x = tied at mid-length | Stand.     | Ue11.            | Length        |      |                      |               |
| Top Chord                    |         |                   |                        |            |                  |               |      |                      |               |
| 1.1                          | 0.00    | -2.22             | Top Hambro             | 0 0.14     | 2'-4"            |               |      |                      |               |
| 1.2                          | 0.00    | -2.18             | do                     | 0 0.13     | 0'-9 3/4"        |               |      |                      |               |
| 1.3                          | 0.00    | -3.00             | do                     | 0 0.18     | 2'-0"            |               |      |                      |               |
| 1.4                          | 0.00    | -3.38             | Top Hambro             | 0 0.21     | 2'-0"            |               |      |                      |               |
| Bottom Chord                 |         |                   |                        |            |                  |               |      |                      |               |
| 2.1                          | 0.00    | 0.00              | LL 1.5 x .109          | Z 95 0.17  | 2'-5 3/4"        |               |      |                      |               |
| 2.2                          | 3.83    | 0.00              | do                     | Z 67 0.22  | 1'-8"            |               |      |                      |               |
| 2.3                          | 4.95    | 0.00              | LL 1.5 x .109          | Z 81 0.26  | 2'-0"            |               |      |                      |               |
| End Diagonal                 |         |                   |                        |            |                  |               |      |                      |               |
| 3.1                          | 4.10    | 0.00              | RD 1/2"                | Z 198 0.70 | 2'-6 7/8"        | .170 - 0 5/8" |      |                      |               |
| Diagonal Towards End         |         |                   |                        |            |                  |               |      |                      |               |
| 4.1                          | 1.08    | 0.00              | RD 1/2"                | Z 131 0.18 | 1'-8"            | .170 - 0 5/8" |      |                      |               |
| 4.2                          | 0.00    | -0.81             | RD 1/2"                | Z 131 0.47 | 1'-8"            | .170 - 0 5/8" |      |                      |               |
| Diagonal Towards Center      |         |                   |                        |            |                  |               |      |                      |               |
| 5.1                          | 0.00    | -1.64             | RD 1/2"                | Z 118 0.78 | 1'-5 7/8"        | .170 - 0 5/8" |      |                      |               |
| 5.2                          | 0.00    | -1.08             | RD 1/2"                | Z 131 0.63 | 1'-8"            | .170 - 0 5/8" |      |                      |               |
| Secondary Web Member         |         |                   |                        |            |                  |               |      |                      |               |
| 7.1                          | 0.00    | -0.68             | RD 1/2"                | Z 107 0.26 | 1'-4 1/8"        | .170 - 0 5/8" |      |                      |               |

Maximum spacing between rows of bridging  
@ Top Chord: Not less than 24" (610 mm)  
@ Bottom Chord: ==> 0 Row(s) Minimum

VI.6.3.1

Keep 1/2 stress tension for wind : No  
Fabrication notes noted  
-1L = 2 angles short legs back to back, BL = 2 angles welded in box, BR = Round bar  
-U = 2 U profiles short legs back to back, BU = 2 U profiles welded in box, BR = Round bar  
-W = 1 W profile.  
The welding length of web members is calculated according to the continuous joints.  
It is shortest for continuous joints.

Projects No.: H4181-021 Designer: Lois Avramides Shop: Jacksonville [Sales] Material Sort: Weight

64 ( 63.03 ) / 73 ( 66.70 ) Area to Paint: 14.77 sq2