



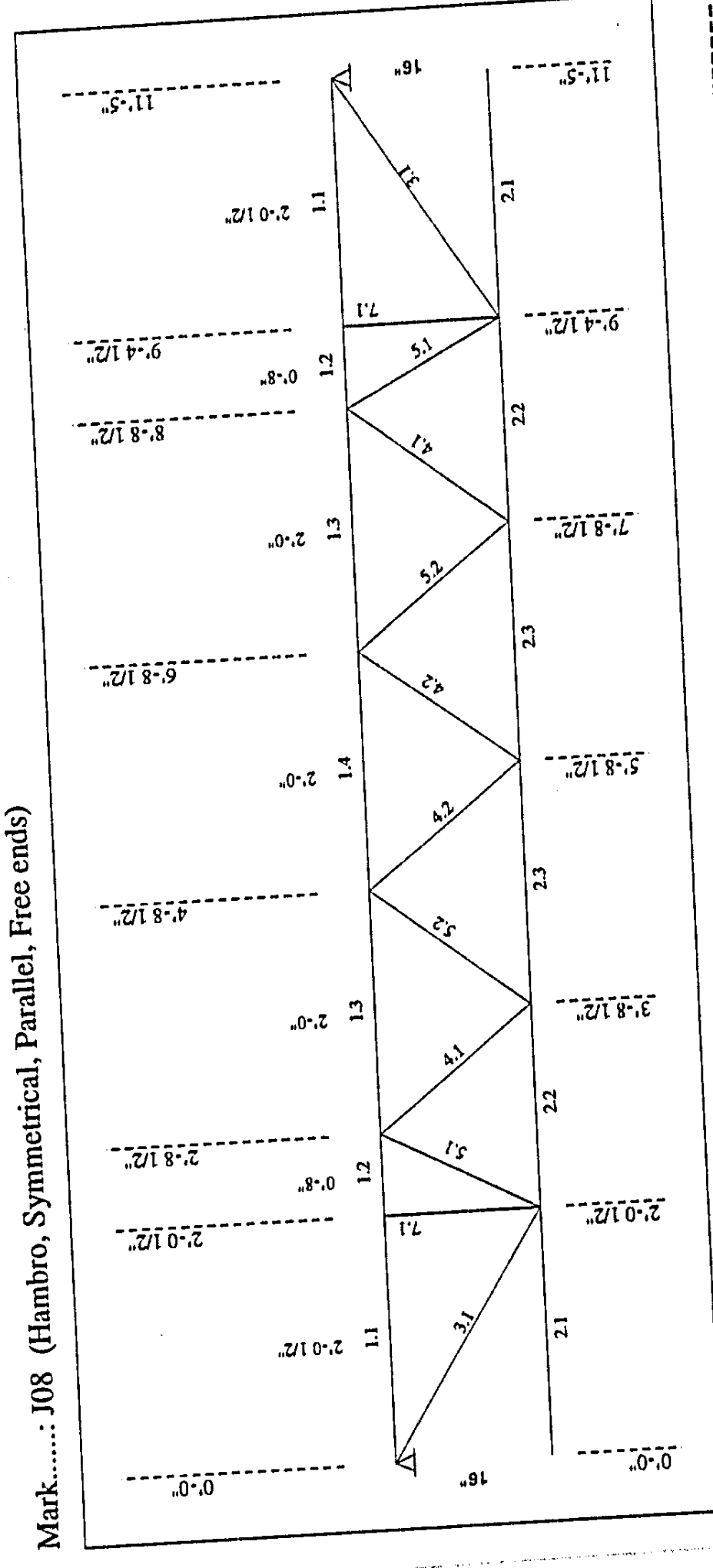
Mark: 108

Project: WEST MIAMI SIX MODEL B
01/24/03 1730730

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JOIST CALCULATION ACCORDING TO HAMBRO SPECIFICATIONS

Mark: 108 Hambro, Symmetrical, Parallel, Free ends)



LOADING CONDITIONS
(THE SHOWN VALUES ARE REAL)

TOTAL LOAD ...: 430.94 lb/ft H16 LIVE LOAD ...: 164.17 lb/ft
105.00 lb/ft² x 4'-1 1/4" 40.00 lb/ft² x 4'-1 1/4"

HAMBRO

Total thickness of the Slab. = 3.00 in
Reinforcing Joist. = N
Length of the Extension of the Slab. = 0.00 in
Concrete Density. = 145.00 lb/ft³
Concrete Density (f.c). = 182.02 in⁴
Concrete Inertia. = 568.52 PLF
Composite Maximum Capacity. = DL = 72.14 lb/in
Non-Composite Maximum Capacity. = (0.092)
Non-Composite Maximum Capacity. = N
Utilization of the Slab. = 0.028
Utilization of the Slab. = N
Type of Hambro (presence of reinforcing)

DEFLECTION

Allowed deflection under live load = 0.37 in (L/ 890)
Calculated deflection under service live load = 0.02 in (L/ 890)
NB: Hambro deflection: Beam Formula * 1.3 with Composite Inertia
Required camber = 73.51 in⁴
Required camber = 0.06 in