WEB MEMBER #4 Distance from End Panel = 3.04 ft.

Applicable Shear $V_x$ = 20,340 lbs. $f_y$ = 50,000 psi

Slope = 1.162 $f_s$ = — psi

$\ell$ = 29.5 in. $f_{sc}$ = 15,850 psi

Reqd. Area = 1.71 sq. in. Use 2-1.14" DIA Area = 2.04 sq. in.

WEB MEMBER #5 Distance from End Panel = 3.0 ft.

Applicable Shear $V_x$ = 22,940 lbs. $f_y$ = 50,000 psi

Slope = 2.20 $f_s$ = 30,000 psi

$\ell$ = — in. $f_{sc}$ = — psi

Reqd. Area = 1.68 sq. in. Use 2-1.14" DIA Area = 2.04 sq. in.

CHORD MEMBER #6 Consists of 4-2"x1½"x0.25" Angles

Construction Load Design Area = 3.60 sq. in.

Applicable Moment = 1,740,000 in. lbs. $f_y$ = 50,000 psi

$\ell$ = 33.375 in. $f_s$ = — psi

$r_x$ = 0.44 in. $f_{sc}$ = 19,380 psi

$r_z$ = 0.31 in. (with fillers in middle 60% of span)

$\frac{\ell}{r_x}$ = 75.8

$\frac{\ell}{2r_z}$ = 53.8 $\frac{f_a}{F_a} + \frac{f_b C_m}{F_b(1-\frac{f_a}{F'_e})}$ = 0.949 less than 1

$f_a$ = 17,250 psi

$F_a$ = 19,380 psi

$f_b$ = 810 psi

$F_b$ = 30,000 psi

$F'_e$ = 25,950 psi

Use 4-2"x1½"x0.25" L's Area = 3.60 sq. in.

CHORD MEMBER #7 Consists of 4-5"x2"x0.37" Angles

Total Load Design Area = 7.52 sq. in.