

J Blumenthal No 174
 J Dickerson & Louis No 591
 Plate 85-3% Rivets 92-4%
 $\frac{21(19\frac{1}{2} - 2) \times 85.3 \times 28}{27 \times 180} = 180 \text{ lbs shell}$

$$\frac{1}{2} \frac{185 \times 19\frac{1}{2}^2}{(18\frac{1}{4}^2 + 16\frac{1}{2}^2)} = 187 \text{ lbs top shell ends}$$

$$\frac{140 \times (14 + \frac{10}{2})^2}{15\frac{1}{4}^2} = 218 \text{ lbs front tube plate}$$

$$\frac{140 \times 14^2}{12^2} = 190 \text{ lbs back tube plate}$$

$$\frac{135 \times 14^2}{\frac{1}{2}(13\frac{3}{4}^2 + 10^2)} = 183 \text{ lbs back bottom}$$

$$\frac{135 \times 11^2}{\frac{1}{2}(10^2 + 9^2)} = 180 \text{ lbs @ plates}$$

$$\frac{10000 \times 5.57}{18\frac{1}{4} \times 16\frac{1}{2}} = 186 \text{ lbs longitudinal stays}$$

$$\frac{9000 \times 2.35}{11\frac{3}{8} \times 10} = 186 \text{ lbs}$$

$$\frac{9000 \times 2.03}{11\frac{3}{8} \times 10\frac{3}{4}} = 203 \text{ lbs}$$

Screw stays 10 x 9

$$\frac{9900 \times 7\frac{3}{8} \times 2}{(30\frac{13}{16} - 10) \times 30\frac{13}{16}} = 187 \text{ lbs girders}$$

$$\frac{50 \times 300 \times 49}{42} - 77\frac{5}{8} = 18 \text{ lbs Register Foundation}$$