

Ltr. 31/11/88
 25. 1. 89

S. S. Bonaccord

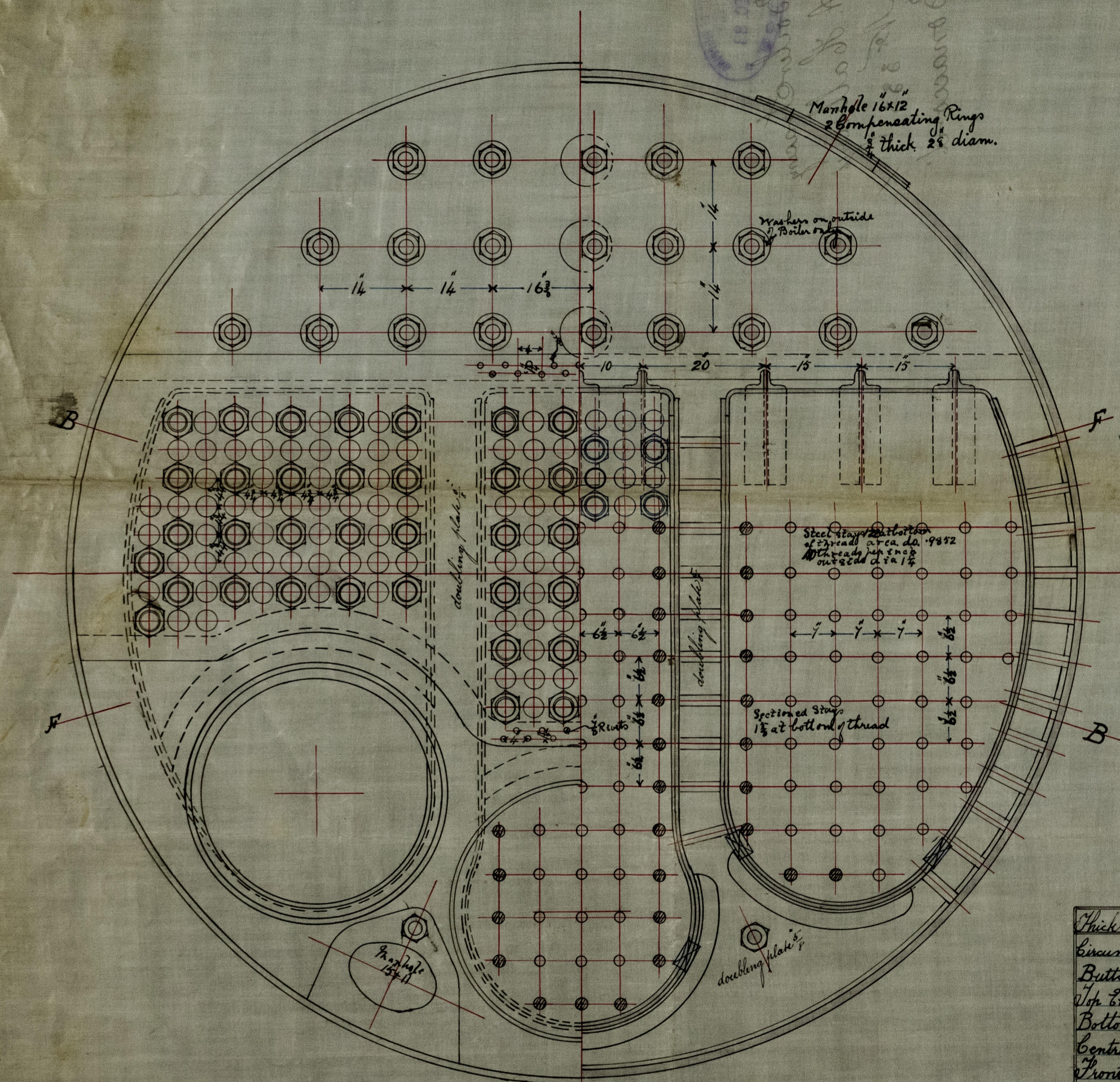
BOILERS N° 16 & 17

DIA 13.6" - LENGTH 10.0"

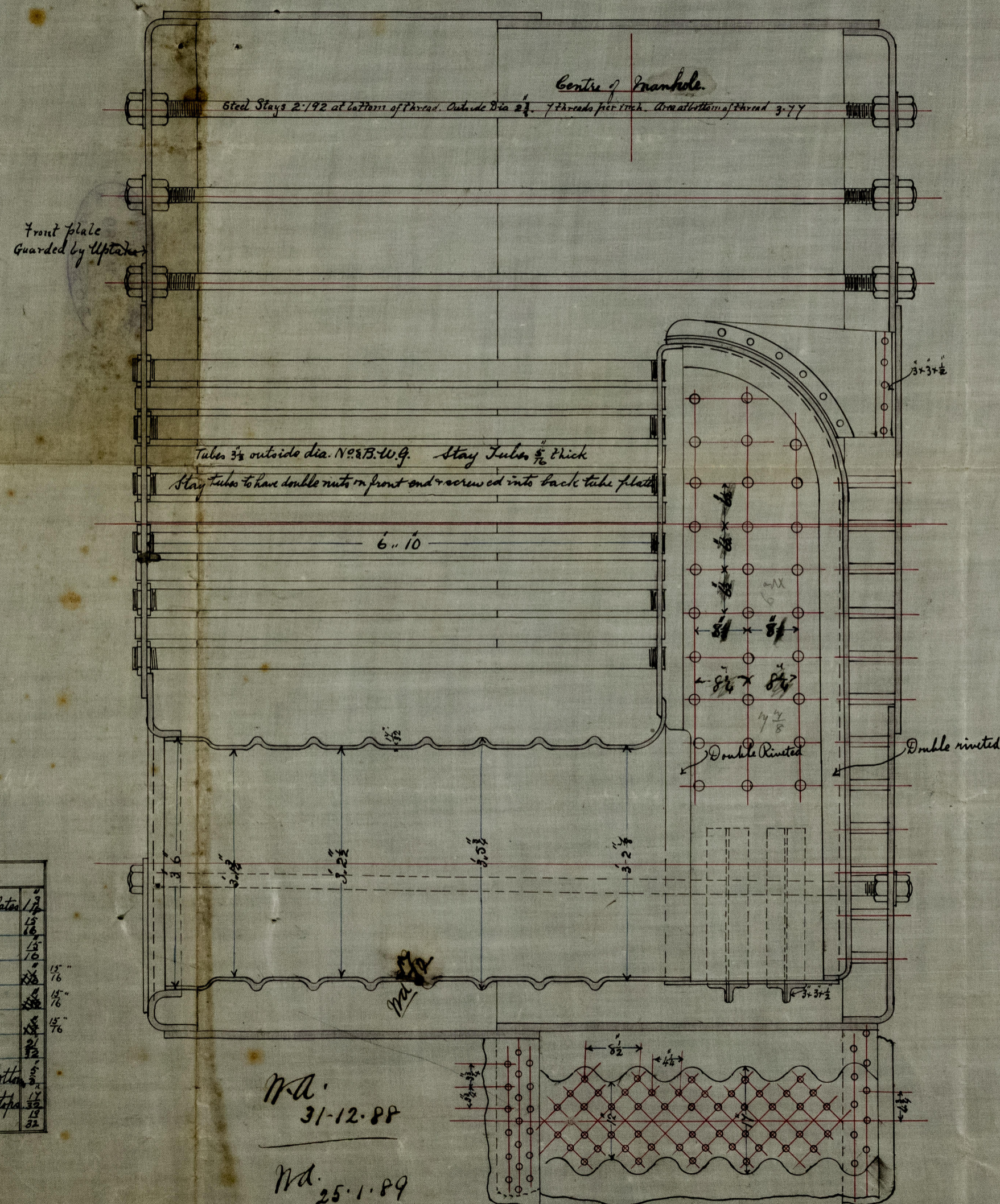
Working Pressure 160 lbs per sq"

Scale $\frac{3}{8}'' = 1 \text{ foot.}$

All steel except tubes



Thickness of Plating	"
Circumferential shell plates	1/2
Butt straps on do.	13/16
Top End plates	13/16
Bottom " " do.	13/16
Centre Back plate	13/16
Front Stile plate	13/16
Back " "	1/2
Combustion & Ham. Litter	5/8
" chamber & back top	13/16
" " sides	3/4



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Lloyd's Working Pressures

Plate Sections $\frac{8.5 - 1.25}{8.5} \times 100 = 85\%$

Rivet Section $\frac{5 \times 1.2271 \times 1.75}{8.5 \times 1.1875} \times 85 = 85\%$

Circumferential Shell plates $\frac{260 \times 1/8 \times 5 \times 85}{162} = 161.96 \text{ lbs.}$

Top end plates $\frac{140 \times 13^2}{196} = 7607 \text{ lbs}$

Centre back plate $\frac{120 \times 16.5^2}{196} = 1668 \text{ lbs}$

Front tube plate $\frac{140 \times 18^2}{11^2} = 1441 \text{ lbs}$

Back " " $\frac{140 \times 10.5^2}{9.5^2} = 170.09 \text{ lbs}$

Bottom End plates $\frac{140 \times 14^2}{16} = 161.93 \text{ lbs}$

Furnaces $\frac{1000 \times (9-2)}{40.75} = 171 \text{ lbs}$

Combustion Chamber bottoms.

Do Backs + Tops $\frac{120 \times 8.5^2}{49} = 176.93 \text{ lbs}$

Longitudinal Stays $\frac{3.77 \times 9000}{14^2} = 173 \text{ lbs}$

Combustion Chamber Stays $\frac{.9852 \times 8000}{7} = 160 \text{ lbs}$

Do " Sides $\frac{120 \times 9.5^2}{64} = 169.2$



Lloyd's Register
Foundation

ABN20-0154

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