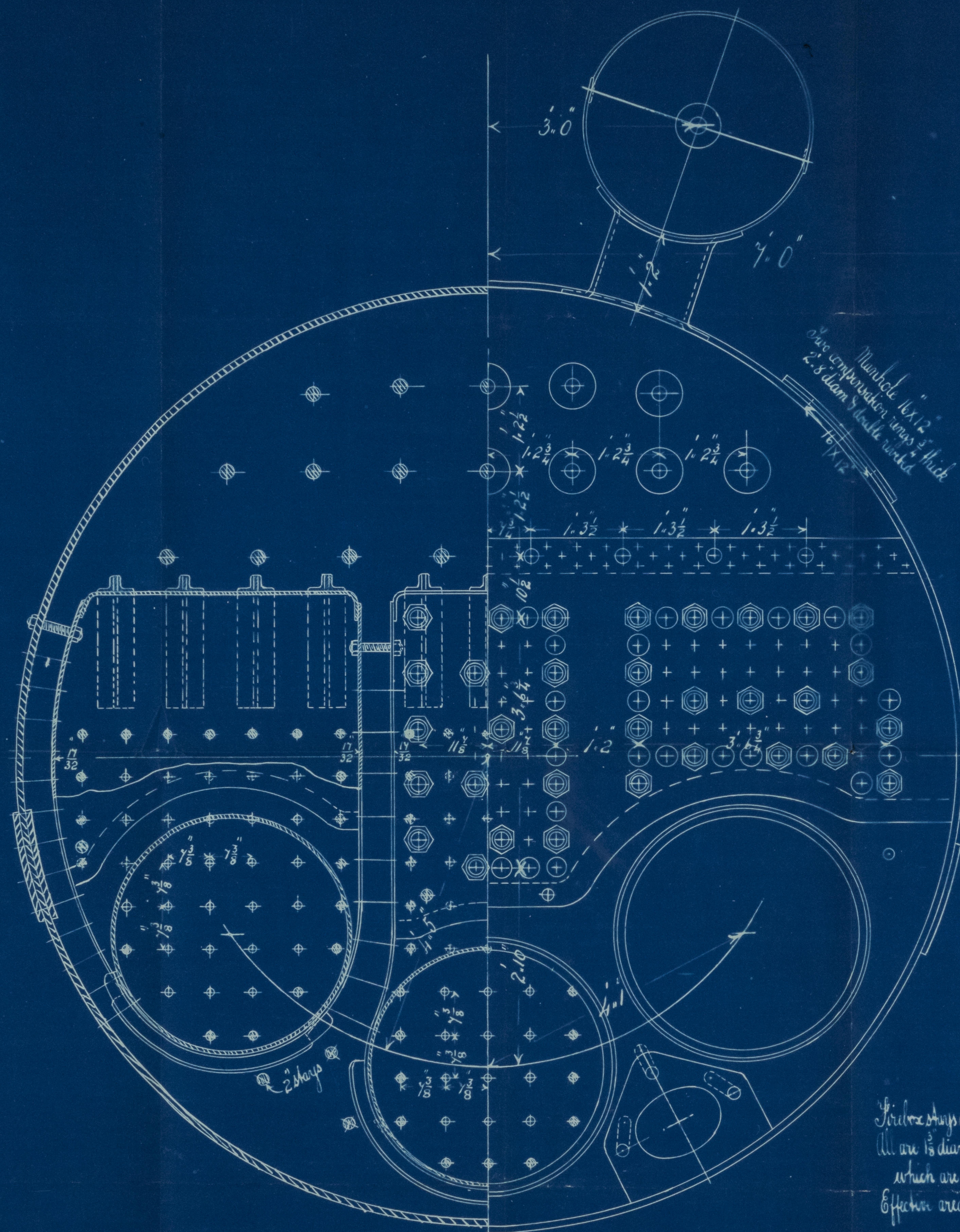


Abu Rep^t 3914-

Working pressure

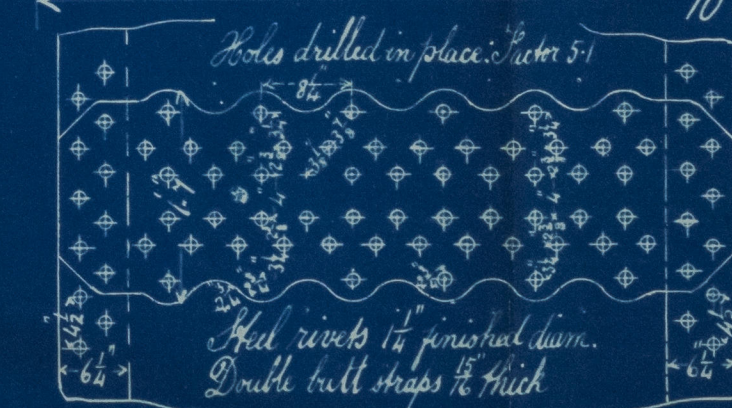
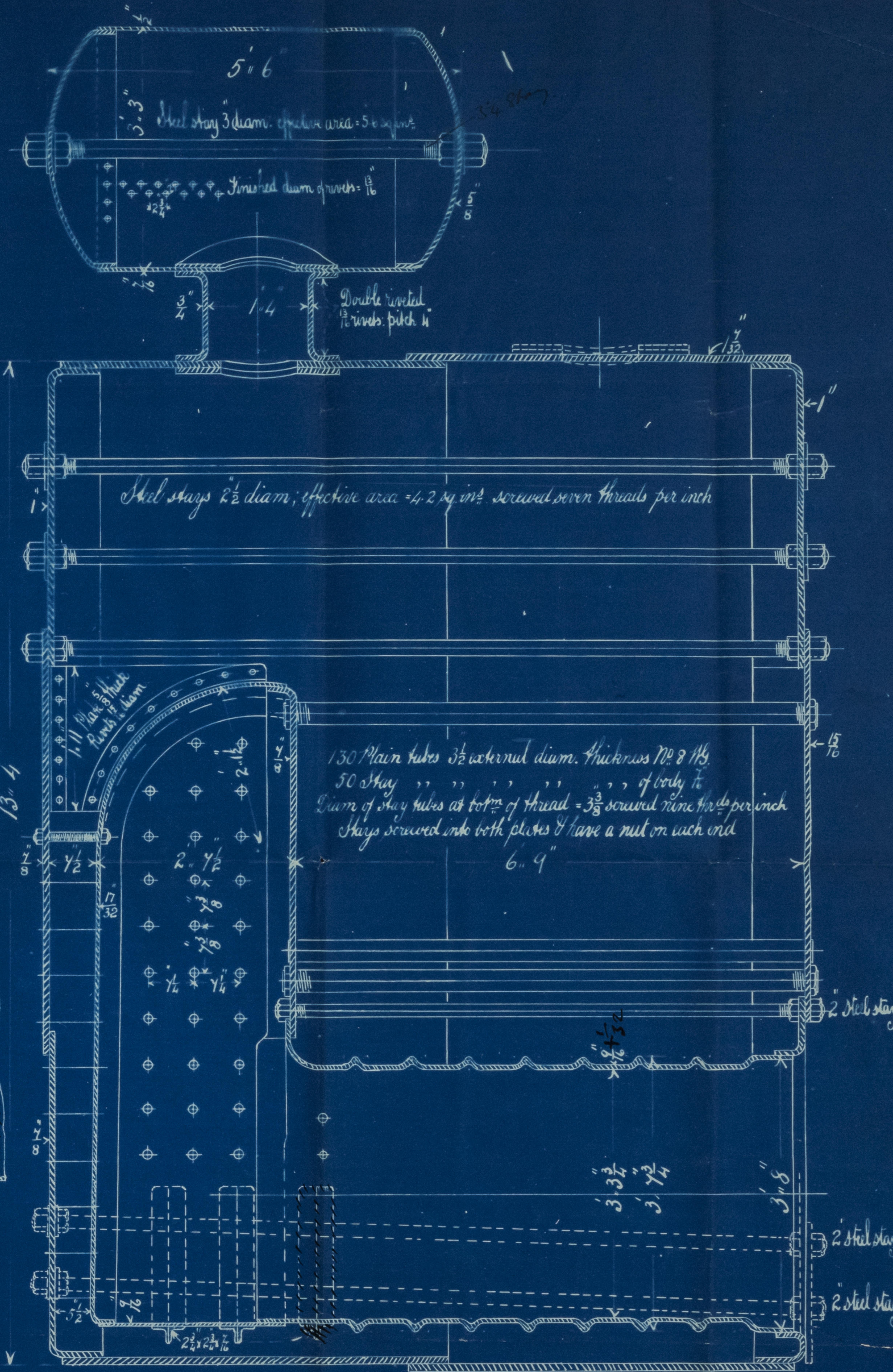
Plate section	100 $\frac{8.25-1.25}{8.25}$ = 84.84 %
Rivet	85 $\frac{5.1 \times 2.27 \times 1.75}{8.25 \times 1.27 \times 1.75}$ = 41 %
Circumferential shell	260 $\frac{1.21815 \times 84.84}{160}$ = 163 lb
End upper plates	$\frac{140 \times 16^2}{14.75^2}$ = 164.7
Stays	$\frac{4.2 \times 9000}{14.75 \times 14.5}$ = 176
Outer tube plate	$\frac{140 \times 15^2}{14^2}$ = 160
Inner	$\frac{120 \times 14^2}{11.875^2}$ = 166
Stay tubes	$\frac{(8.94-5.1) \times 5000}{(14.125 \times 4.5) - (4 \times 4.42)}$ = 184
Combustion chamber backs	$\frac{120 \times 8.5^2}{7.375^2}$ = 160
sides	$\frac{120 \times 8.5^2}{7.375^2}$ = 160
Stays (ordinary)	$\frac{1.22 \times 8000}{7.375^2}$ = 174
back (marginal)	$\frac{1.48 \times 9000}{9.5 \times 7.5}$ = 166
Furnaces	$\frac{1000(9-2)}{4.3-7.5}$ = 160
Steam receiver plate section	100 $\frac{2.75-8.125}{2.75}$ = 70 %
rivet	85 $\frac{2 \times 5.18}{2.75 \times 1.375}$ = 73.3 %
circular shell	215 $\frac{1.375 \times 70}{38.125}$ = 173 lb



Arrangement of stays on outer sides of wing fire boxes



Firebox stays of steel screwed ten threads per inch. All are 1 1/2 diam except those rows next to water space which are 1 1/8 diam. & are shown sectioned. Effective area of 1 1/2 stay = 1.22 sq in. of 1 1/8 stay = 1.08 sq in.



Thickness of plating.					
Circumferential shell.	Steel	$1\frac{7}{32}$ thick	Fireboxes backs	Steel	$1\frac{17}{32}$ thick
Stays for d ₂	"	$\frac{15}{16}$ "	" sides	"	$\frac{17}{32}$ "
End upper plates	"	1 "	" bot ^m (of mid)	"	$\frac{9}{16}$ "
Back mid	"	$\frac{7}{8}$ "	Furnaces	"	$\frac{9}{16} + \frac{1}{32}$ "
Back lower	"	$\frac{7}{8}$ "	Steam receiver connecting pipe	"	$\frac{3}{4}$ "
Front "	"	$\frac{13}{16}$ "	" " bot ^m plate	"	$\frac{7}{16}$ "
Front tube	"	$\frac{15}{16}$ "	" " top plate	"	$\frac{1}{2}$ "
Inner tube	"	$\frac{7}{8}$ "	" " ends	"	$\frac{5}{8}$ "

- BOILERS. N^o 4-88 -

- S. J. "Dabulamamji" -

- Diam=13.14: Length=10.0: Pressure=160 lb -

Scale=3/4 of an inch to the foot

P. S. Dabulamaizi

HR & Co 4-88 Boilers

160 H.

38

Lloyd's List.

320

L.H.

24-9-88



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