

Steam Ship "Martin,"

15050 Tons

Rec 6/9/75

Diameter of Boilers = 12' 4",

Thickness of shell plates = $\frac{15}{16}$,

Description of riveting double & double butt strapped,

Pitch of rivets. Horizontal seams = $3\frac{1}{2}$, Circumferential seams $3\frac{3}{4}$,

Lap of plating. butt straps 12" broad " " $4\frac{3}{4}$,

Diameter of rivets $1\frac{1}{4}$,

Number of Furnaces in each Boiler = 3.

Diameter of Furnaces 2' 11",

Length of Furnaces 7' 6",

Thickness of Furnace plates $\frac{1}{2}$ & $\frac{9}{16}$,

Joints of Furnace plate, double butt strapped & single riveted,

Length of Fire grate 5' 8",

Whether furnaces are strengthened with rings, none

Back uptake plates $\frac{1}{2}$ " thick screw stayed $9 \times 8 \times 1\frac{1}{8}$ dia = 4708 lbs.,

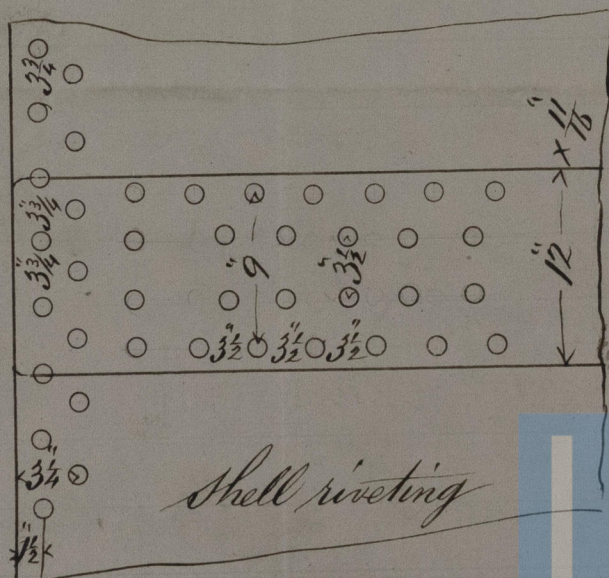
End plates $\frac{5}{8}$ " thick Bolt stayed $16 \times 12 \times 1\frac{1}{8}$ dia = 4521 "

Flat plates when screw stayed 88 lbs working pressure. End plates = 63 + washers

Tube plates $\frac{1}{16}$ " thick, stayed with stay tubes, screwed into back tube plate & nuts inside. Nuts on each side of front tube plate,

Shell $\frac{51520 \times 1\frac{1}{8} \times 65}{1458 \times 6.5} = 66$ lbs working pressure.

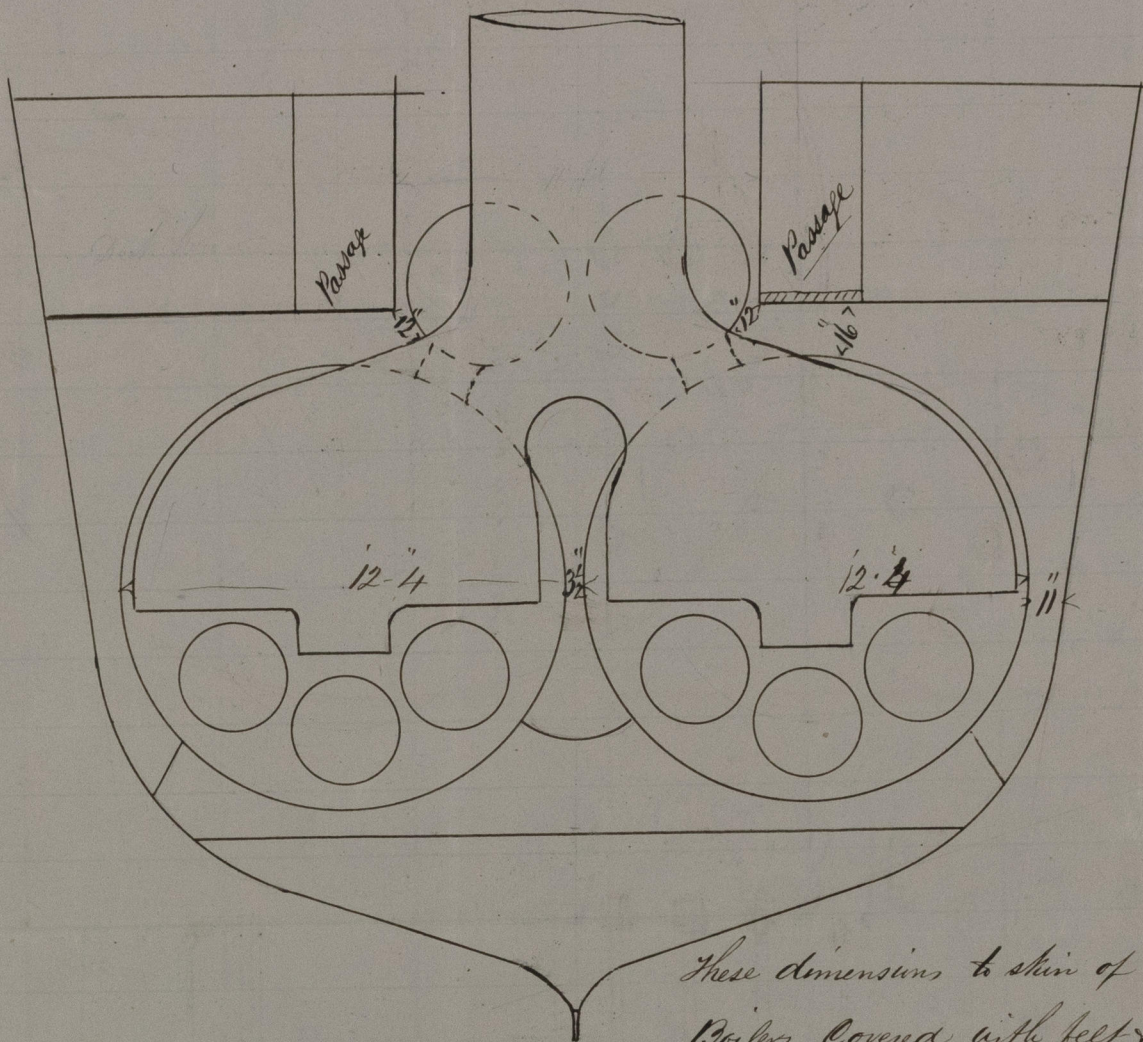
Furnace $\frac{89600 \times \frac{1}{2}^2}{7\frac{1}{2} \times 35} = 80$ lbs working pressure.



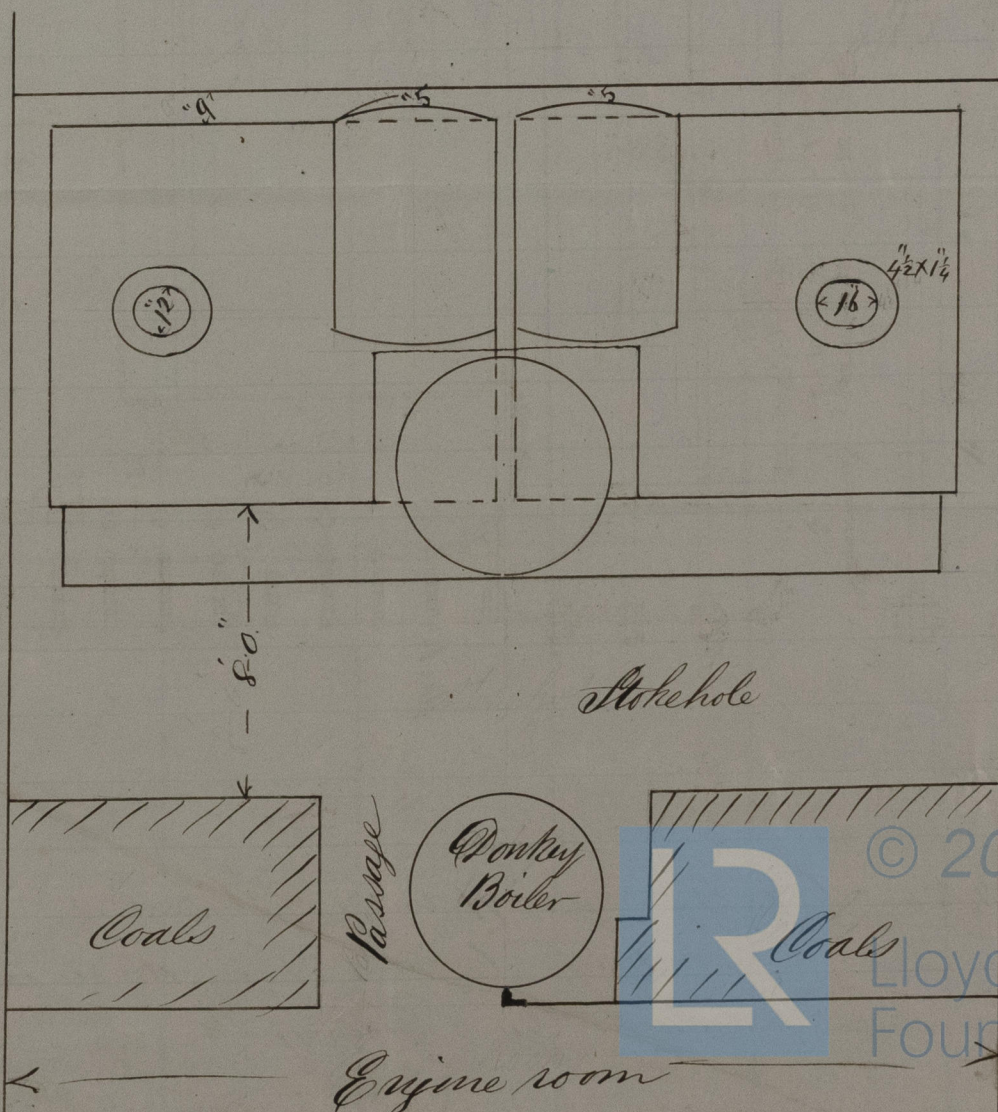
Shell riveting

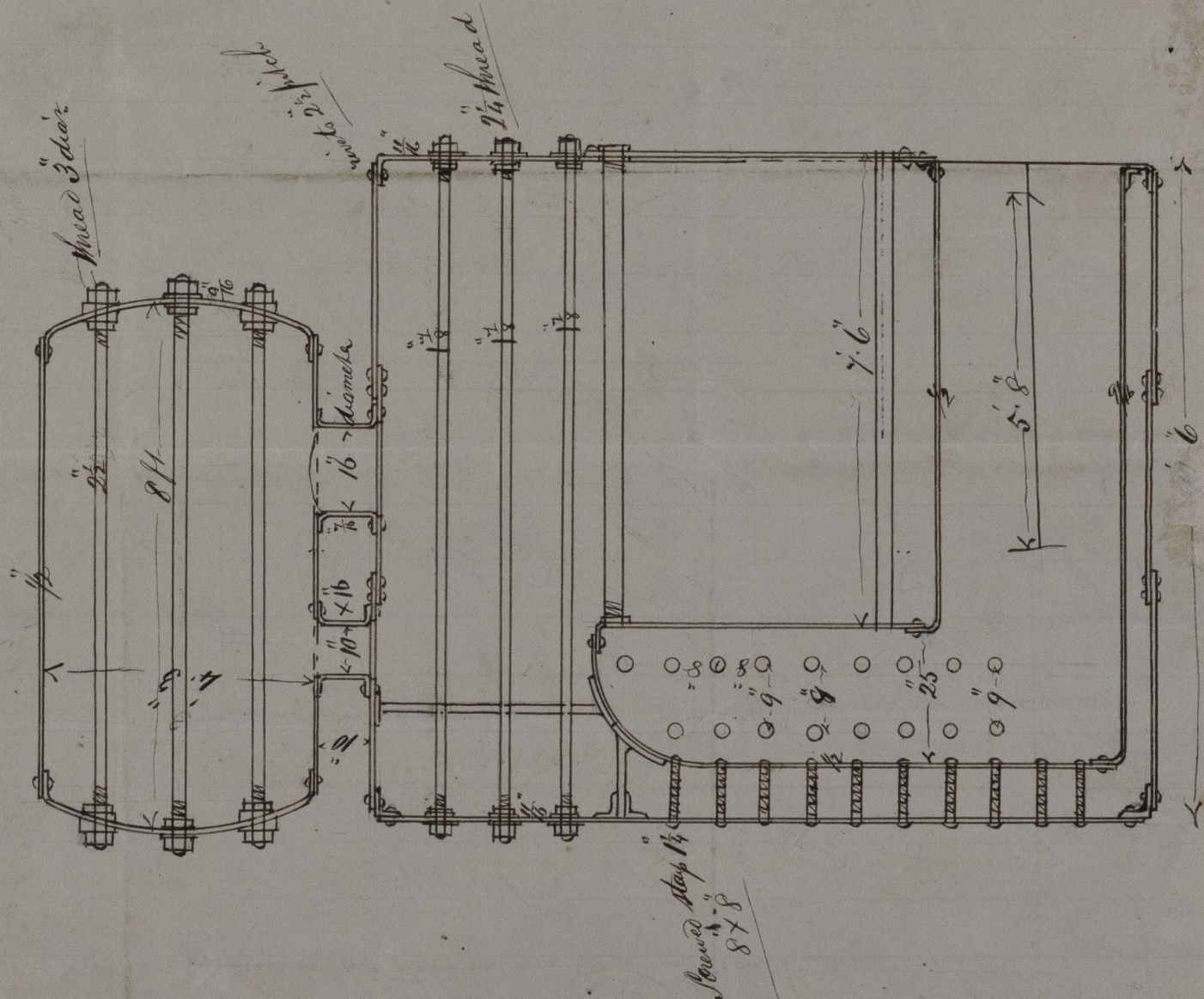
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William Allison
Engineer Surveyor
August 27th 1875

Steam Ship "Martin" 15050 Lbs



These dimensions to skin of Boiler -
Boilers covered with felt & lapping -





Pump 6' x 9" double Acting.

This pump draws from Tanks. sea. & Bilges,