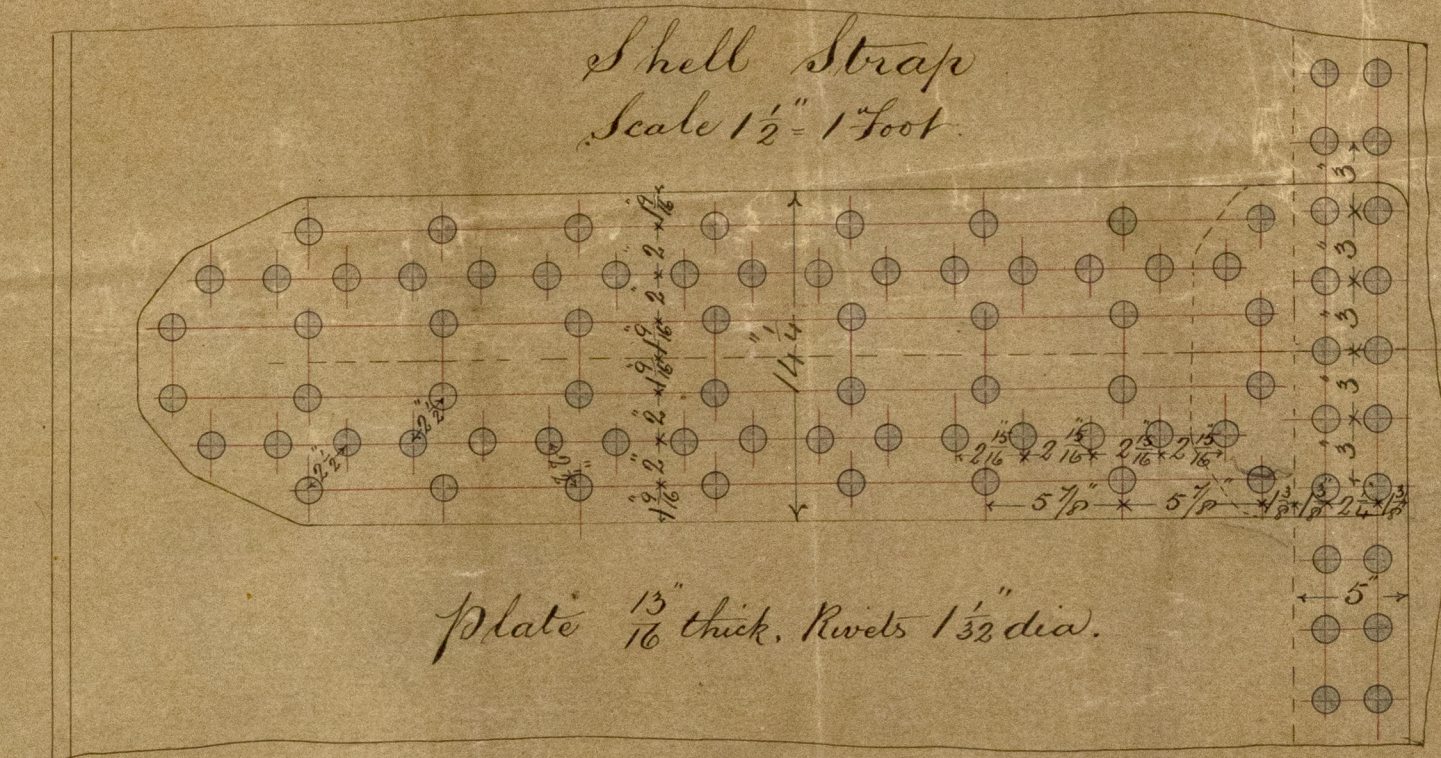


J. Robinson, St. Albans, Report No. 5342.  
 Ed. Longdale, Ed. 1882.  
 9413292

276 118  
 19/3/83



The most holes drilled in longitudinal beams of boiler shell out of place after bending & fitted with double butt straps.  
 Butt straps 1/16" and 3/16" thick. Butt straps punched.  
 The circumferential seams punched before bending. Lap joints & double riveted.

# **BOILERS N° 763.** for No 763

For S.S. No 197, building by Messrs J.L. Thompson & Sons,  
 Sunderland.

Scale 1" = 1 Foot.

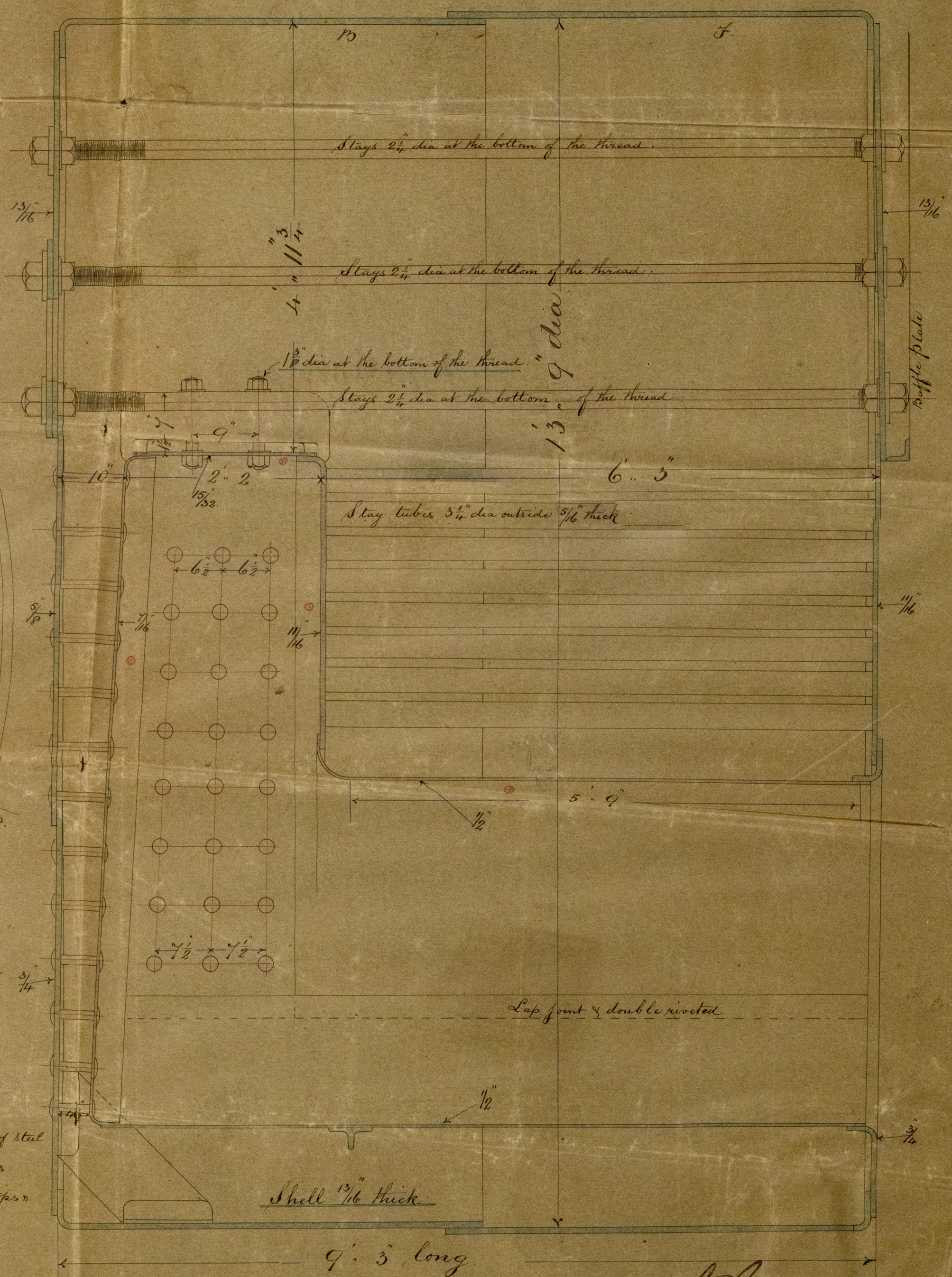
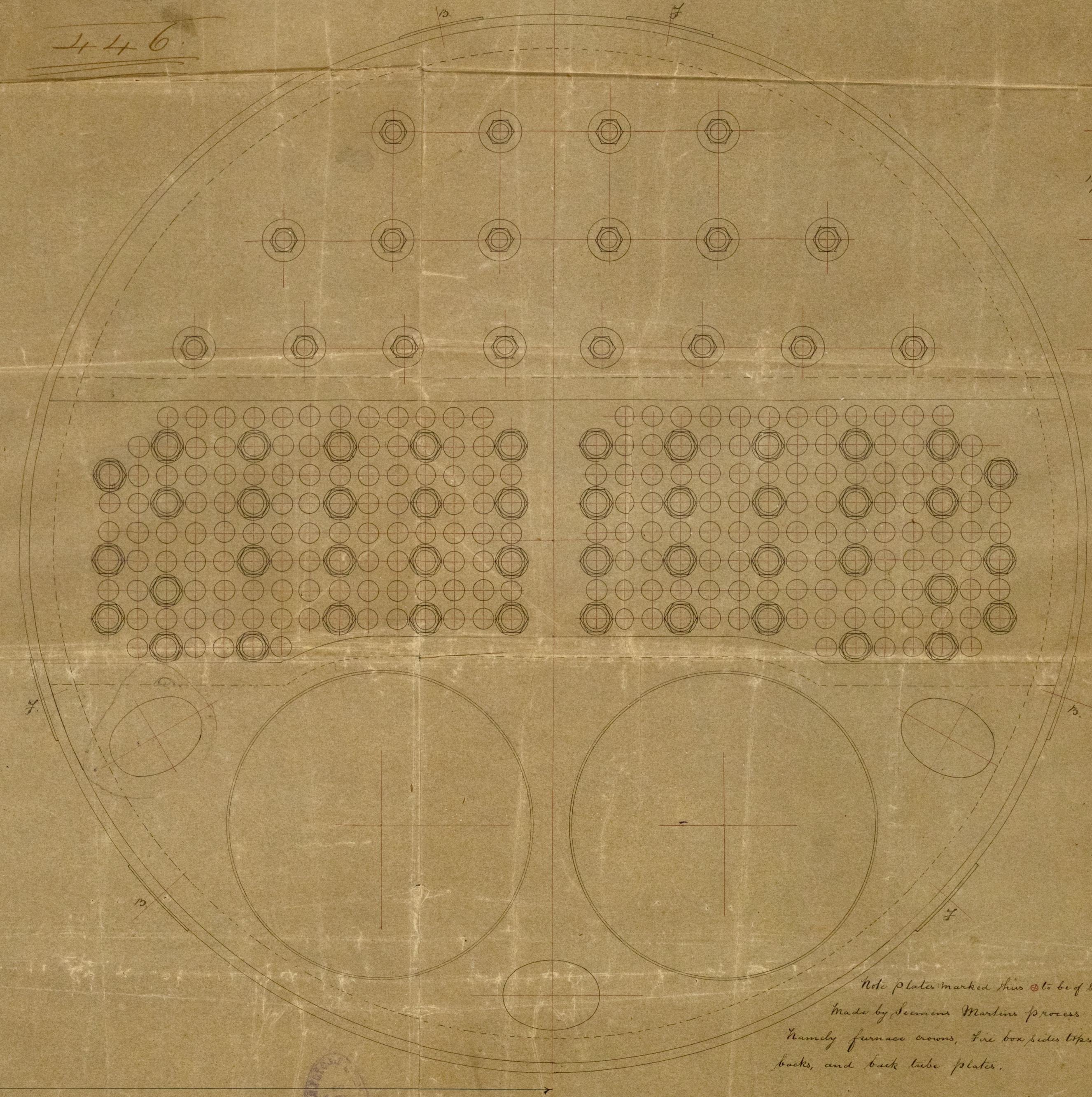
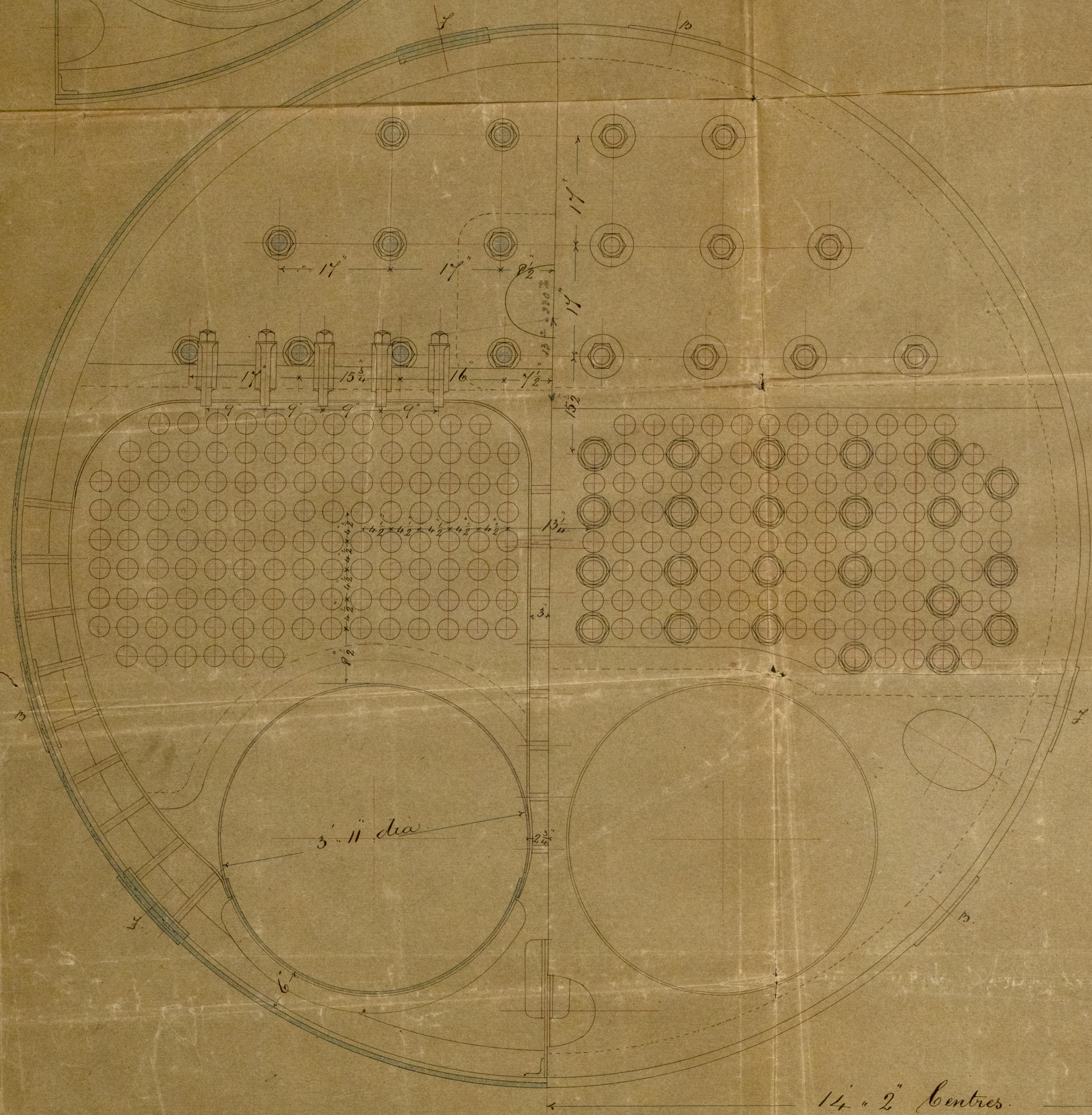
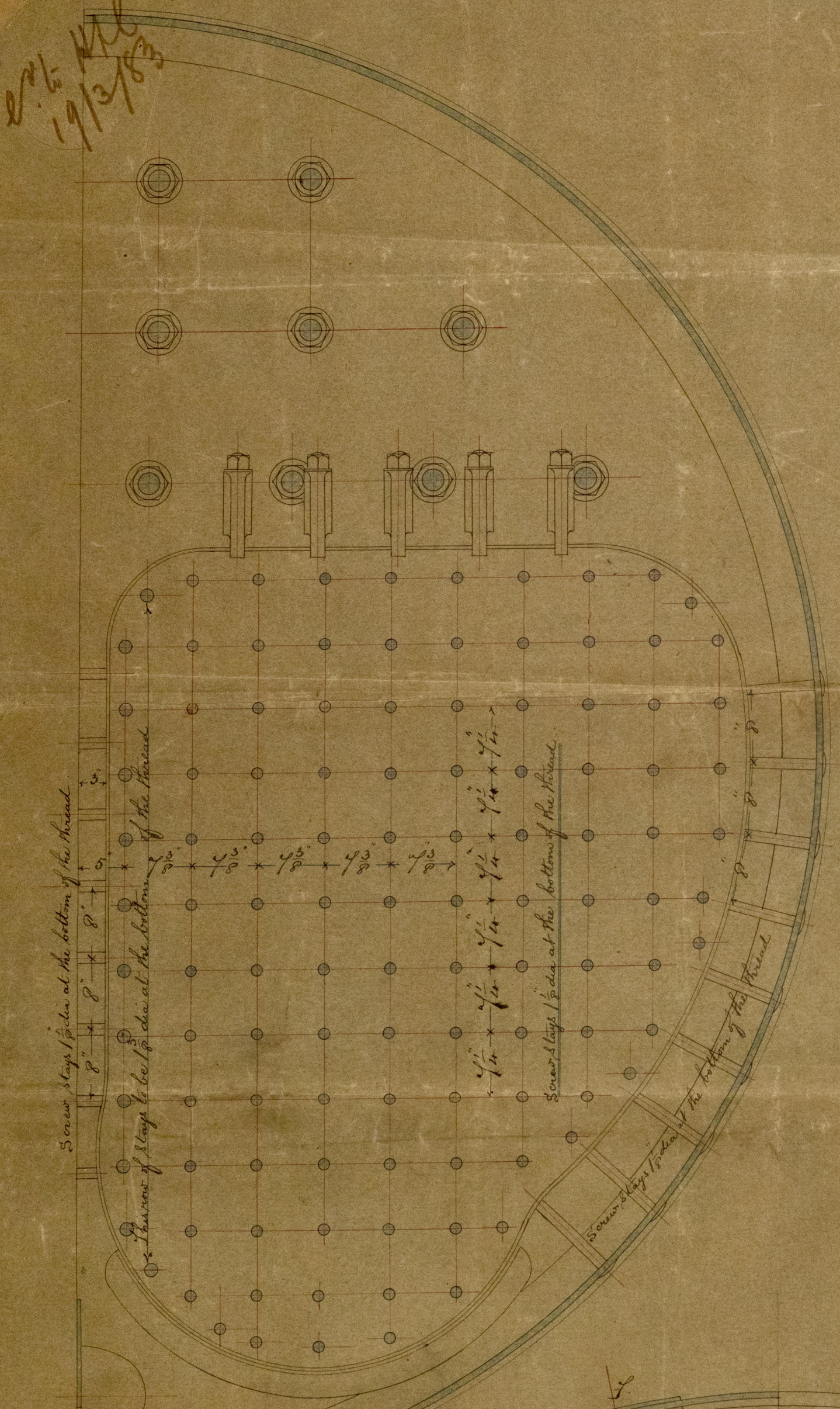
Working pressure 80 lbs per sq. inch.

March 16<sup>th</sup> 1883

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**Calculations**  
**Shell.**  
 $5' 8 1/2" \times 1' 0 3/4" \times 100 = 224$  plates to plate  
 $5' 8 1/2"$   
 $24 \times 1' 7 1/2" \times 90 = 231$  Rivets to plate  
 $5' 8 1/2" \times 1' 1 1/2"$   
 $200 \times 224 \times 2135 = 811$  lbs per sq. inch  
 $165$   
**Funnaces**  
 $5' \times 1' 9 1/2" = 21.1$  lbs per sq. inch  
 $4' 0" \times 5' 7 1/2"$   
 $5' \times 1' 0 1/2" = 23.3$  lbs per sq. inch  
 $4' 0"$   
**Front Stays**  
 $13' \times 14' = 21.8$  lbs per sq. inch  
 $17' \times 2'$  Fire box stays  
 $7' 5" \times 12' = 23.5$  lbs per sq. inch  
 $9'$  Fire box sides  
 $7' 5" \times 10' = 27$  lbs per sq. inch  
 $10'$  Fire box sides  
 $7' \times 9' = 21$  lbs per sq. inch  
 $4' 3 1/2"$  Main stays  
 $3' 9 1/2" \times 6' 0" = 22.5$  lbs per sq. inch  
 $17' \times 17'$  Screw stays fire box top  
 $14' 8 1/4" \times 6' 0" = 109$  lbs per sq. inch  
 $7' \times 9'$  Screw stays fire box sides  
 $4' 4 1/2" \times 6' 0" = 99 1/2$  lbs per sq. inch  
 $8' \times 7 1/2"$

110  
 19/3/83



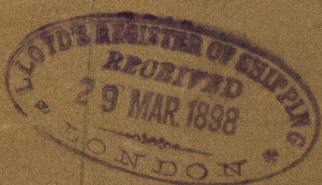
14" 2" Centres

Note: Plates marked thus &c. to be of steel  
 Made by Siemens-Martin process.  
 Namely funnaces, stays, fire box sides, top & back, and back tube plates.



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cs  
London

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