

# 2 STEEL BOILERS N<sup>o</sup> A 166 & 168

Two for each Ship.

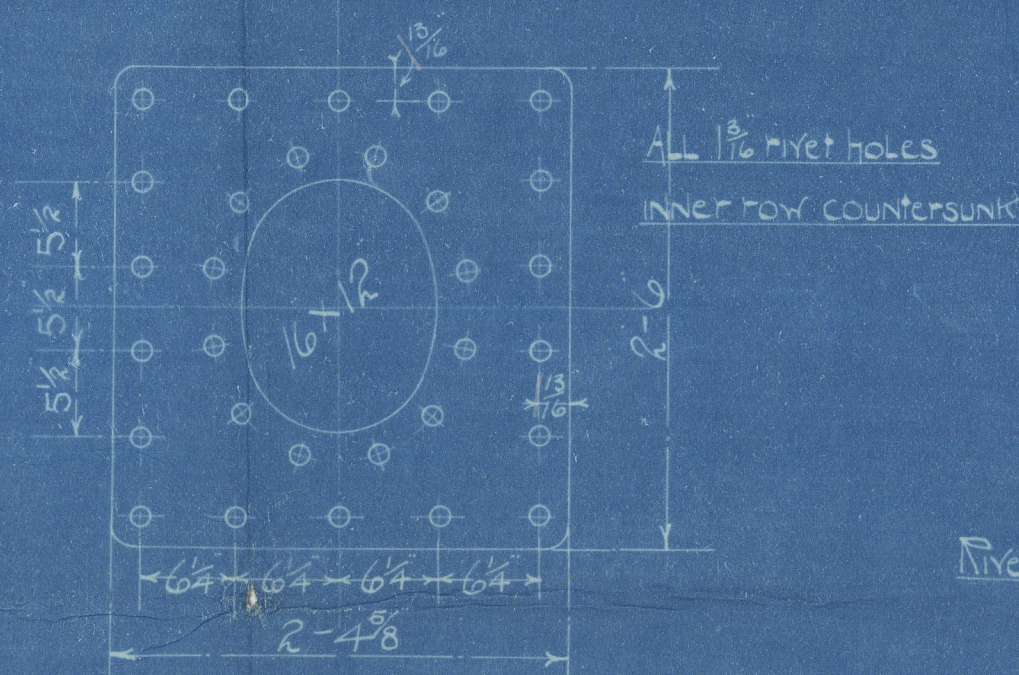
WORKING PRESSURE 180 LBS PER SQ. LLOYDS  
TEST 360

SCALE 1" TO 1'00"

5/11/12

Doubling plate round Manhole  
1/2" thick

All plates stays & rivets to be of SIEMENS MARTIN steel.  
All rivet holes throughout the boiler to be drilled after  
plates are bent.  
The screw stays are 1 1/2" x 1 1/8" eff. diam. screwed into both  
plates and nutted as shown.  
A manhole in shell 16x12 with shorter axis longitudinally  
and a doubling plate round it 2'-6" x 2'-4 3/8" x 1/2" thick.  
All flanged plates to be annealed after flanging.



All 1 1/8" rivet holes  
INNER ROW countersunk

Riveting of D.

1 1/8" Holes 3/4" Pitch

Riveting of A.

PLAN OF SHELL RIVETING

1 1/8" HOLES 3/4" PITCH

PLATE 81% RIVETS 84% LLOYDS

8'-1 1/2" Length of inside butt strap

15 pitches 6 1/4" = 7'-9 3/4"

1 1/8" Holes  
3/4" pitch

## DIMENSIONS

LENGTH OF FIRE BARS  
AREA OF FIRE GRATE  
DIAM OF TUBES OUTSIDE  
LENGTH OF TUBES bet plates  
NO OF TUBES  
AREA THROUGH TUBES  
SURFACE OF TUBES  
TOTAL HEATING SURFACE  
WORKING PRESSURE

1 Boiler	2 Boilers
3 1/2'	3 1/2'
6'-5"	6'-5"
124	248
5.5 #	11 #
713 #	1426 #
900 #	1800 #
180 Lbs.	180 Lbs.

Shell 1/2" Thick  
Inside butt straps 1 1/8" Thick  
Outside 3/4"  
Tensile strength 28 to 32 tons

Screw stays caulked  
ON SHELL

Steel stays 2 1/2" effective diam. 2 1/2" diam. x heavy  
screwed 7 threads per inch 28 to 32 tons tensile

6'-9" between plates

Iron ordinary tubes 3 1/4" ext. diam. x N<sup>o</sup> 81 S.G. thick  
sweated 1/16" at front end  
Iron stay tubes 3 1/4" ext. diam. 1/4" thick in body 3/16" thick eff.  
screwed to 3 1/2" x 3 1/4" diam. 10 threads per inch

Double steel girders  
8 x 1 1/2" Thick  
riveted together

Holes 2 1/8" Pitch

1 1/2" screw stays  
10 threads per inch

1 1/8" steel screw stays  
shown thus (⊙)  
1 1/4" steel screw stays  
shown thus (⊙)  
all 10 threads per inch

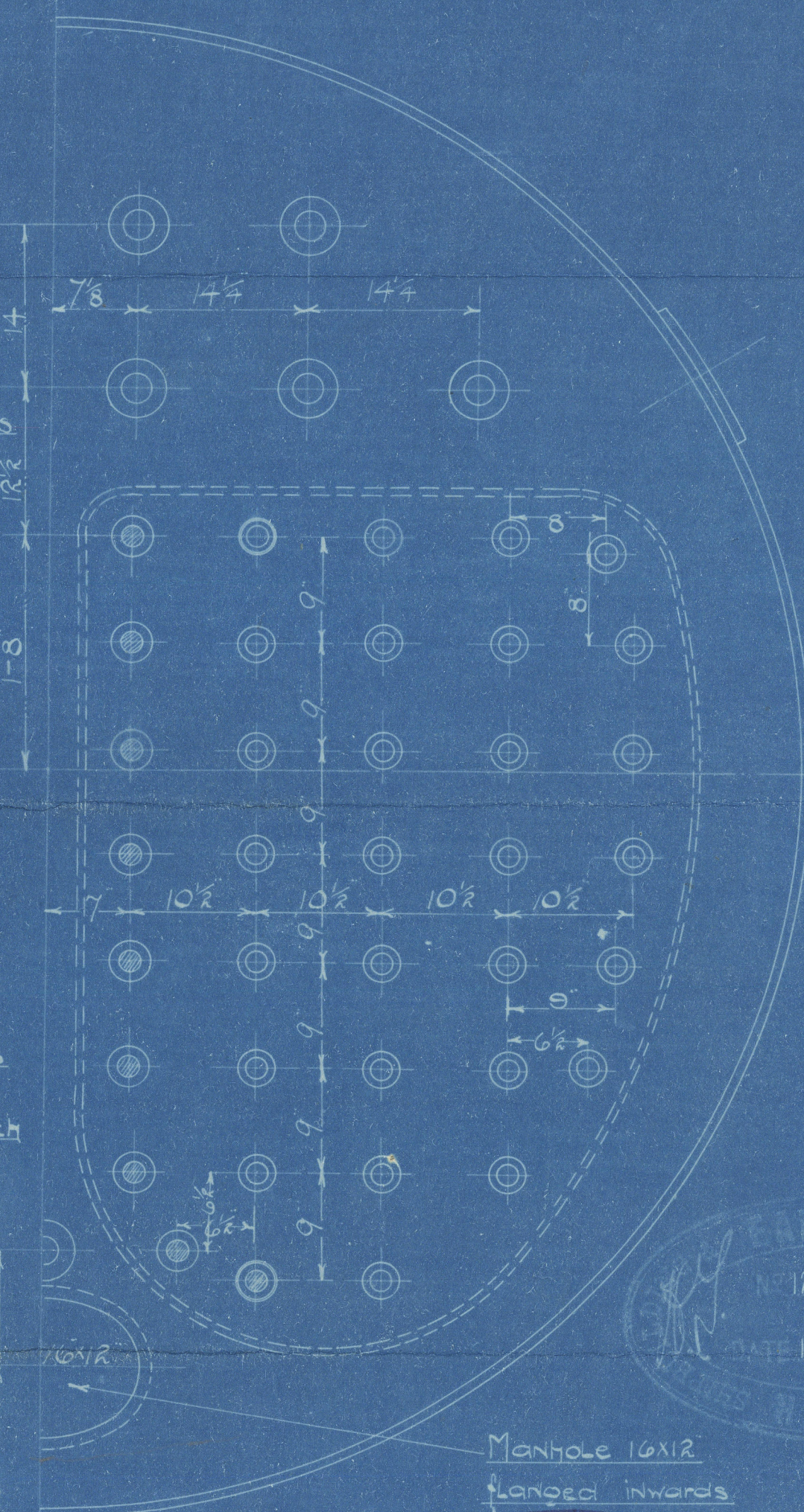
Furnaces welded longitudinally

Holes 2 1/8" Pitch

3'-11 1/2" Ext. diam.

Steel stay lapped in back end 2 1/2" threads per inch

10'-0" Total Length



Manhole 16x12  
flanged inwards

N<sup>o</sup> A 166  
A 168



Lloyd's Register  
of Shipping



W989-0145

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CH10-h8bM



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Foundation



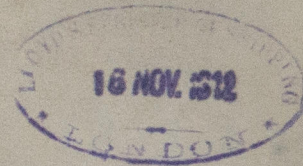
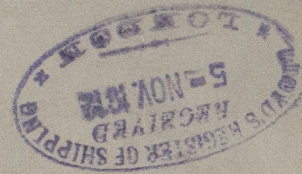
Messrs Earle S. B. & Co.

Boilers Nos. A166 - ~~A168~~

Working Pressure 180 lbs per sq. in

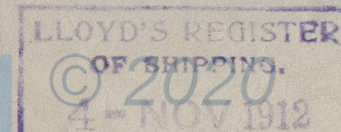
Hull Report No. 26427

W 989-0145



701986  
Lloyd's test  
360 lbs  
27-5-13 FLS

S. Blush Rose  
Rob. 8550



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