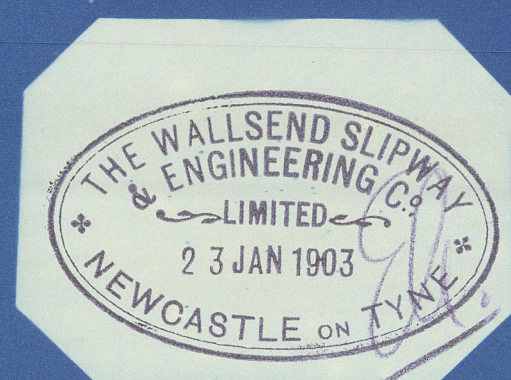


Mr. J. B.
24.1.13

CHECKED BY P.
DATE Jan 23rd 1903
TIME CHARGED TO NO. 1.



Boiler ORDER N^o 144 & 145 B.

FOR MESSRS SMITH'S DOCK CO. LTD. N. SHIELDS.

To PASS LLOYD'S REQUIREMENTS

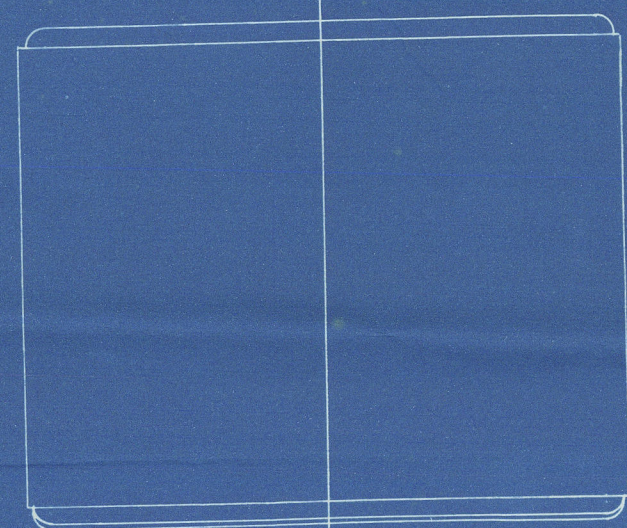
1, OFF THIS.

Scale 1" = 1' FOOT.

MATERIAL MANUFACTURED BY

PLATES STEEL
RIVETS "
MAIN STAYS "
C. C. " IRON
TUBES "

POSITION OF MANHOLE REQUIRED.
ALSO SAFETY & STOP VALVES



FRONT OF BOILER

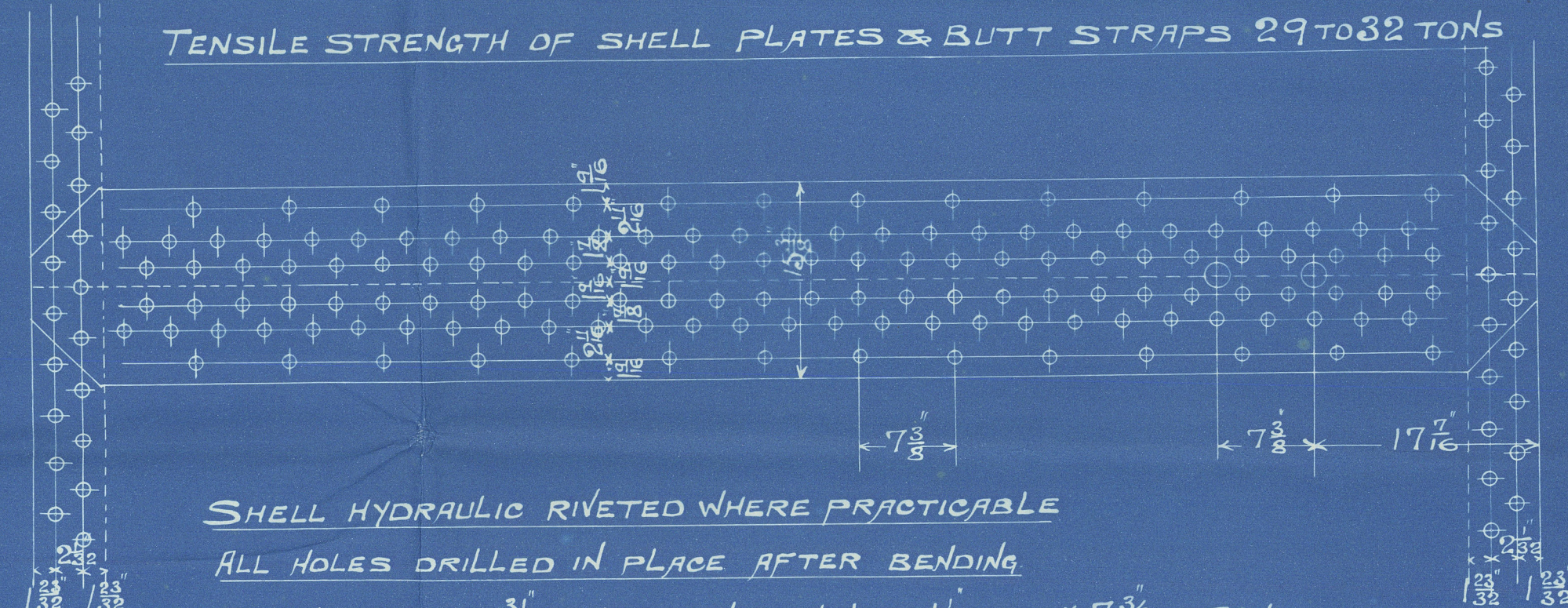
HEATING SURFACE SQ. FT.
TUBES 800
FURNACES 125
COMBUSTION CHAMBERS 152
TUBE PLATES 43
TOTAL 1120

WORKING PRESSURE 180 LBS PER SQ INCH
TEST " 360 " " " "

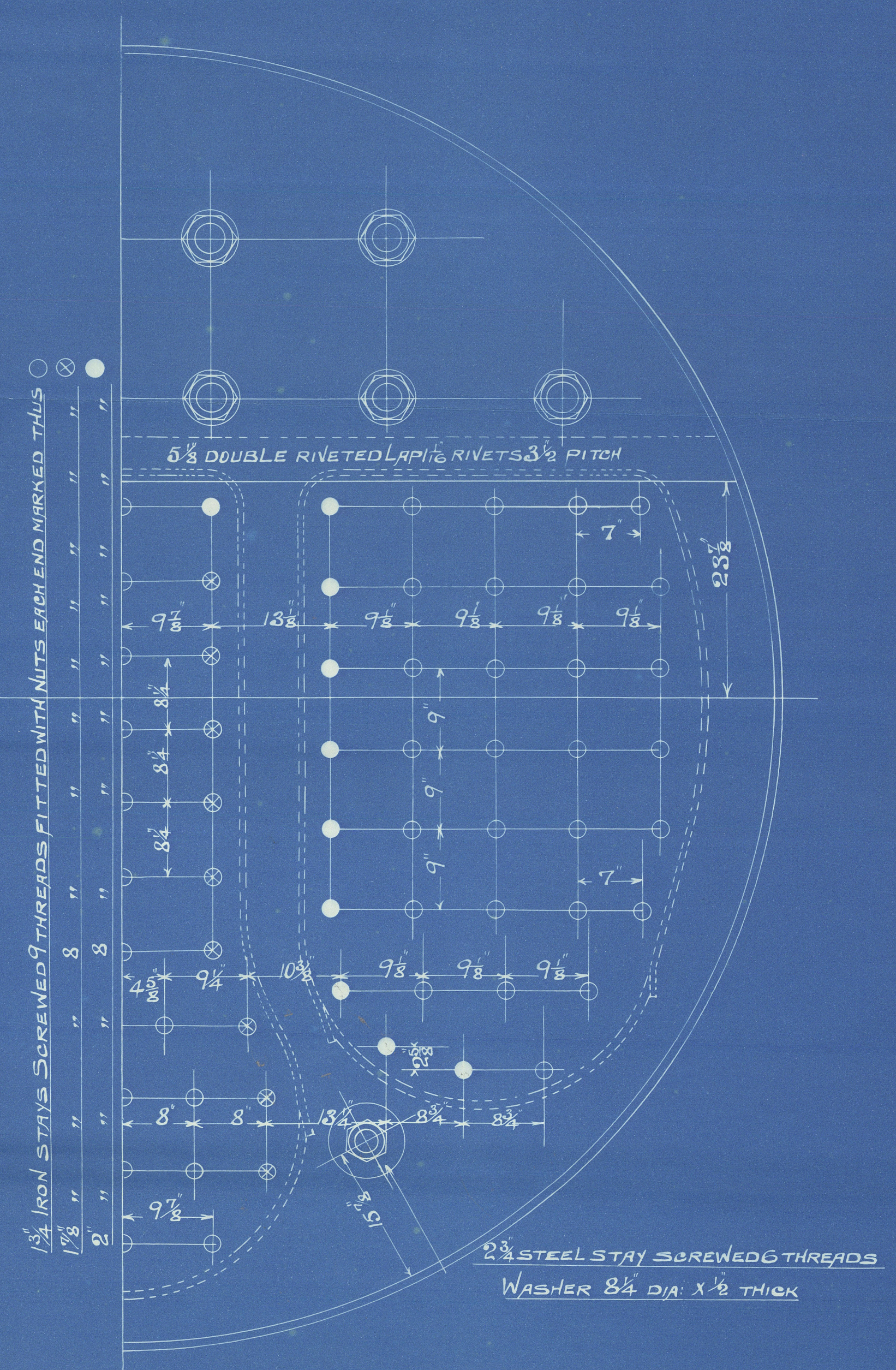
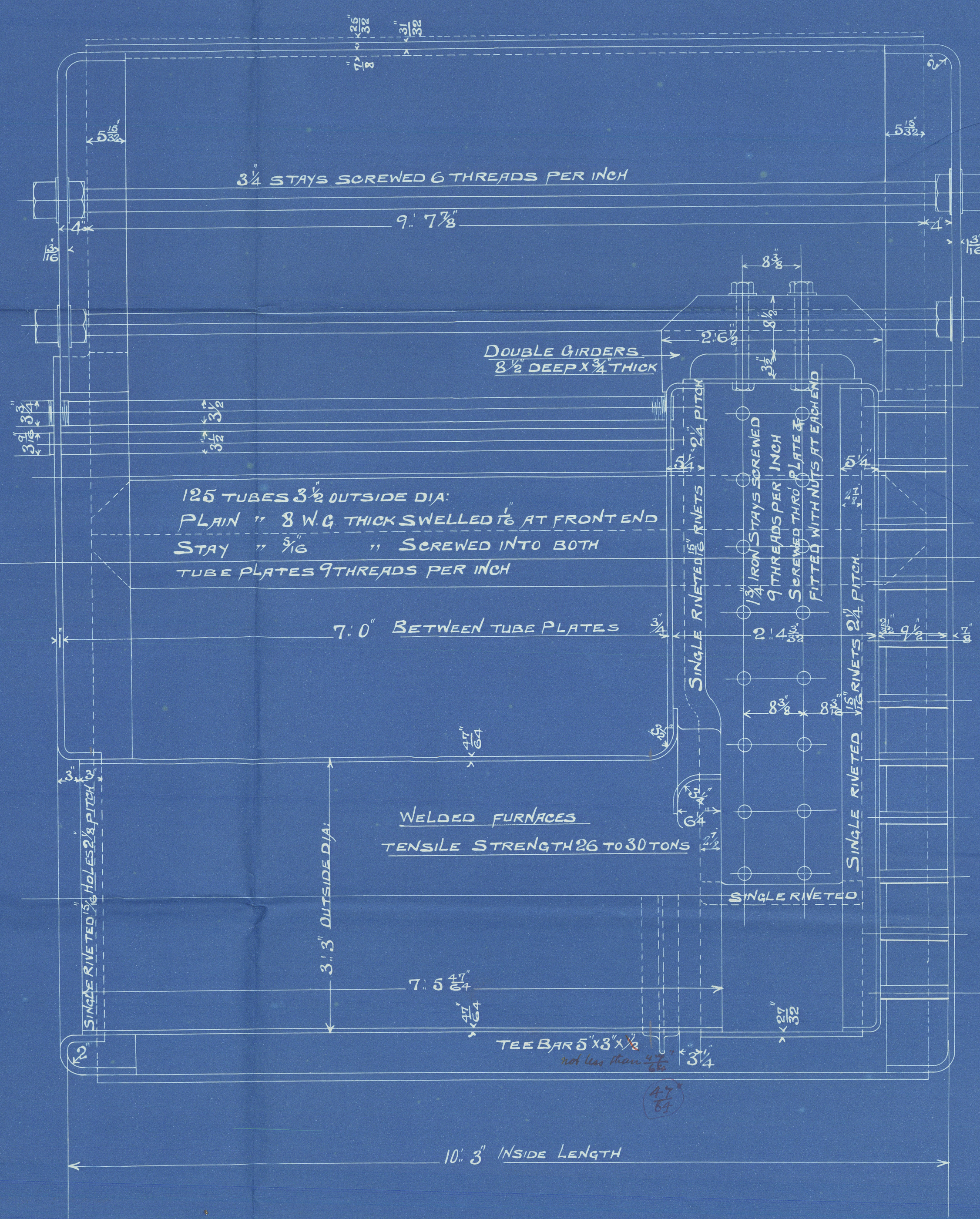
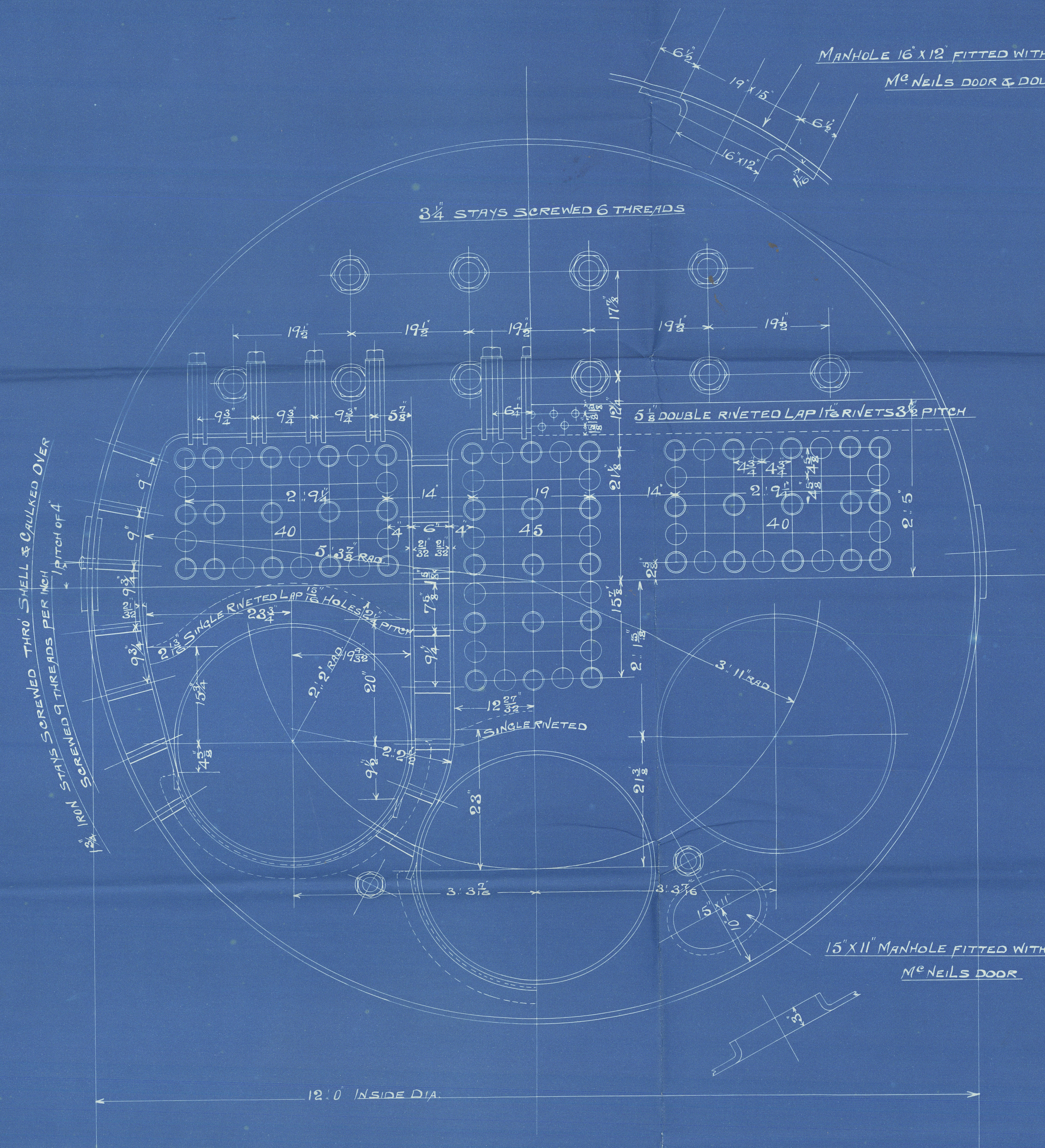
PLAN OF SHELL RIVETING

STRENGTH OF JOINT
PLATE 86%
RIVET 87%

TENSILE STRENGTH OF SHELL PLATES & BUTT STRAPS 29 TO 32 TONS



SHELL HYDRAULIC RIVETED WHERE PRACTICABLE
ALL HOLES DRILLED IN PLACE AFTER BENDING
SHELL PLATES 3/8" THICK RIVET HOLES 1 1/2" DIA X 7 3/8" PITCH
CIRCUMFERENTIAL SEAMS DOUBLE RIVETED RIVET HOLES 1 1/2" DIA X 4" PITCH
INSIDE BUTT STRAPS 1/2" THICK
OUTSIDE " " 25/32 "



20.1.03
28.1.03

Walsand Shipway Co

C. 144 B, 145 B

for

Mass Smiths & Co

3/5 724, 725

15. E
W.P. 180

4/5 Princess Victoria

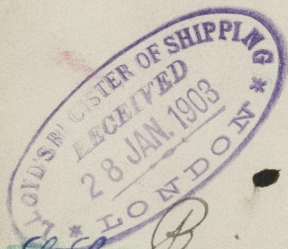
No 6580
Lloyds List
360 Hs
G.A.H. 15/5/03

144
5/5 724

4/5 Princess Beatrice

No 6581
Lloyds List
360 Hs
G.A.H. 15/5/03

145
5/5 725



Princess Victoria
& Princess Beatrice
Newcastle Report

SV 46035 & 46036



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