

PALMERS SHIPBUILDING & IRON CO. LTD.  
24 JUL 1914  
ENGINE WORKS DEPT.  
JARROW.

HEATING SURFACE IN BOILER	
348 TUBES 3" DIA. x 8'-0"	= 2186
3 FURNACES	= 160
COMBUSTION CHAMBER	= 234
BACK TUBE PLATE	= 50
FRONT	= 40
TOTAL FOR 1 BOILER	= 2670 sq
TOTAL FOR 2 BOILERS	= 5340 sq
GRATE SURFACE FOR 1 BOILER	= 66.7 sq
2 BOILERS	= 133.4 sq
WORKING PRESSURE	= 180 LBS
TEST	= 360 LBS

BOILERS TO BE FITTED WITH SCHMIDT'S SUPERHEATERS.

## BOILER. 2-OFF.

SCALE 1"=1 FOOT

ALL STEEL EXCEPT WHERE OTHERWISE STATED

LLOYD'S & BOARD OF TRADE

1 1/2" DIA. RIVET HOLES MINIMUM PITCH 7"  
1 3/8" COMPENSATING RING.

## SHELL RIVETING.

### DOUBLE BUTT STRAP JOINTS.

SHELL PLATES 1 3/8" THICK BUTT STRAPS 1 1/2" <sup>3/4"</sup> <sub>outside & 1 1/2" inside</sub>  
RIVET HOLES 7/16" DIA. GREATEST PITCH 9 7/8"

PLATE SECTION 85.62% RIVET SECTION 86%

TENSILE STRENGTH OF SHELL PLATES 29.5 TONS TO 33 TONS

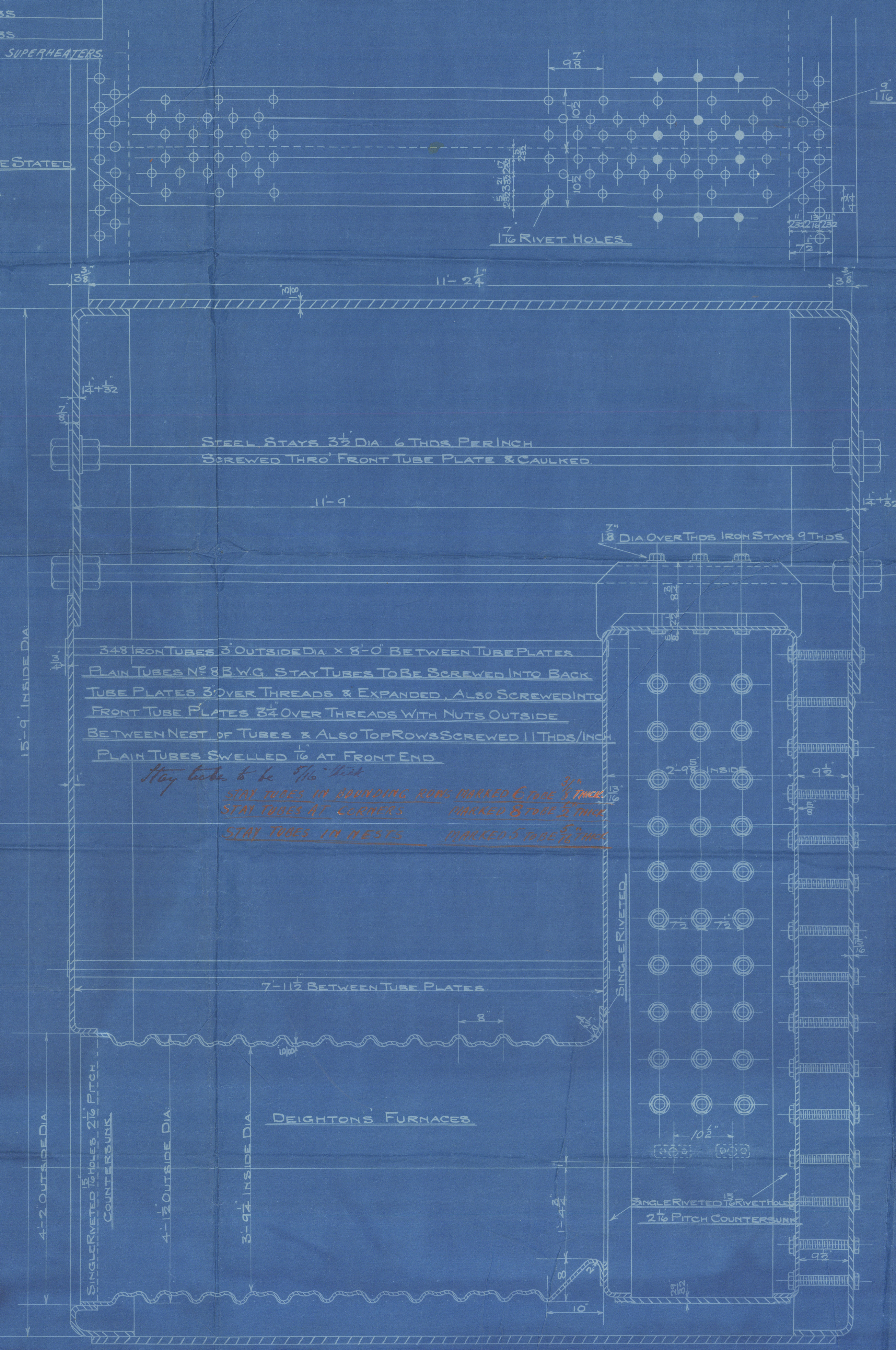
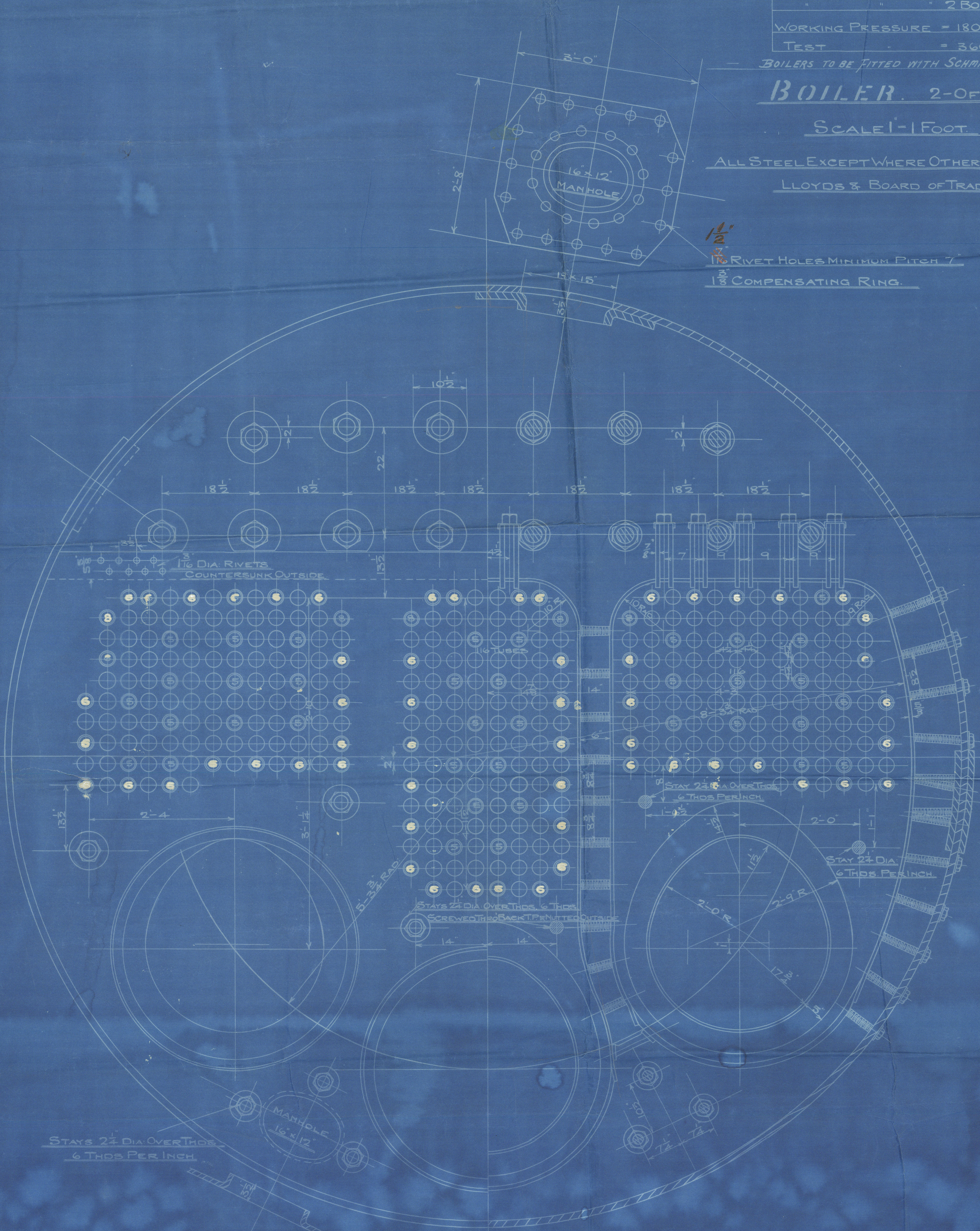
COMB CHAMBER 26 30

GIRDERS 28 32

NOTE: IRON SCREWED STAYS MARKED ● ARE 2 3/8" DIA. OVER THDS.

## COMBUSTION CHAMBER SCREW STAYS.

TO BE MADE OF LOWMOOR IRON & SCREWED 9 THDS.  
WITH NUTS & WASHERS AT BOTH ENDS.  
NUTS 5/8" THICK.



ENG NO. 84.5.

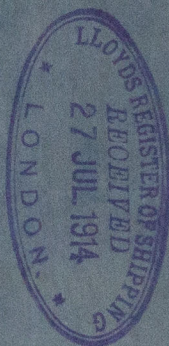
13  
No. 845  
2020  
Lloyd's Register  
No. 234.117



Palmer 845

2 Main Boilers 180 lbs

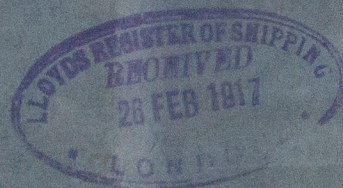
S S Angton



S.S. "Angton"

NEWCASTLE ON TYNE.

Report No. 69649



RETAIN

