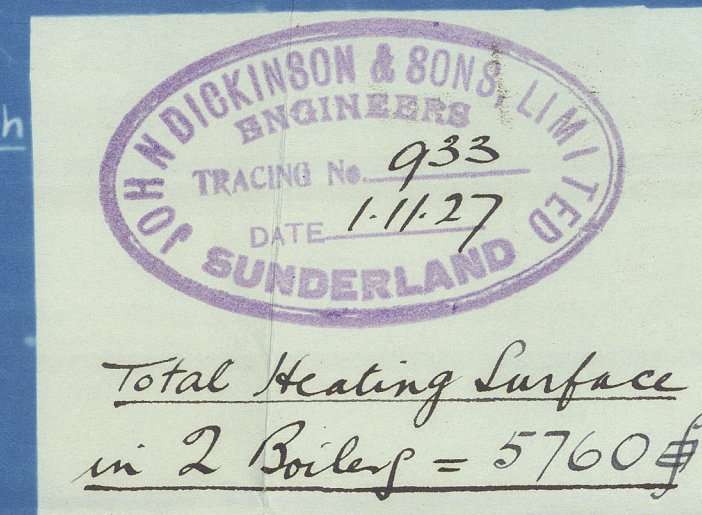


# STEEL BOILERS.

To Lloyds Requirements for a working pressure of 220 lbs per sq. inch & a Test pressure of 380 lbs per sq. inch  
All plates, rivets, stays & girders of steel. Tubes of Wrought Iron.

SCALE: 1 INCH = 1 FOOT.

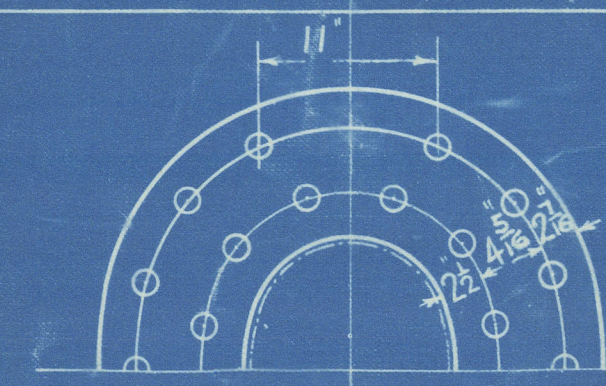


ENGINE			DATE	FURNACES
SS6	2 OFF	Intended for Messrs Short, Bros & N <sup>o</sup> 428	Feb 3 <sup>rd</sup> 27.	Deighton Section
SS8	2 OFF	Intended for Messrs Short, Bros: 5/429	March 7 <sup>th</sup> 27	Deighton's Section
SS9	2 OFF	Intended for Messrs Short, Bros: 5/431	Nov: 1 <sup>st</sup> 27.	Deighton's Section

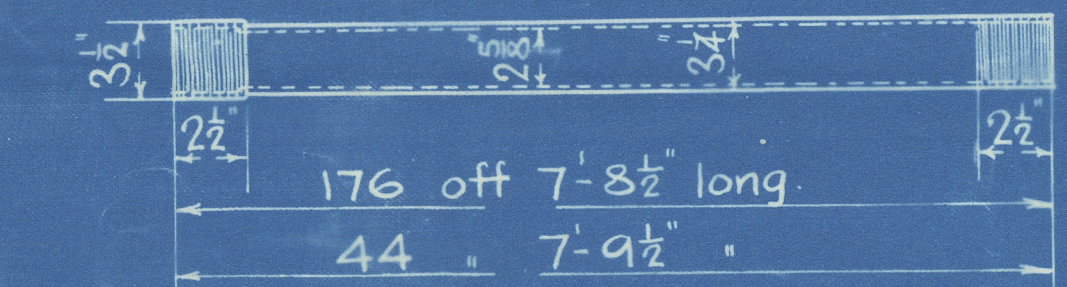
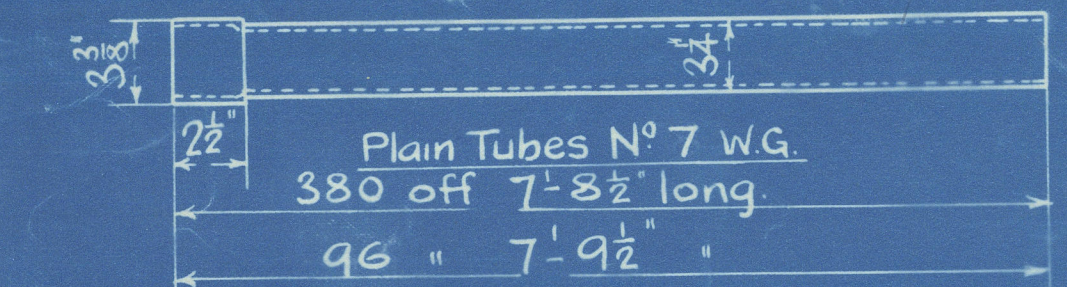
STAYS						
Tensile tons	St in	Diam	Threads per in	Eff Diam	Eff : Area	No Pa Boile
26	1 3/4"	9	1.6078	2.031	140	
to	1 5/8"	9	1.7328	2.355	188	
30	2"	9	1.8578	2.69	58	
	2 1/8"	9	1.4828	3.0878	6	
23	2 1/2"	6	2.2868	4.13	15	
to 32	3 3/4"	6	3.1616	7.85	14	

TENSILE STRENGTH:	
PLATE	Tons Per Sq Inch
Shell plates & Buttstraps	29 $\frac{3}{4}$ to 33 $\frac{3}{4}$
Comb. Chamb. Girders	28 to 32
All other plates.	26 to 30
Manhole Stiffening Ring	29 $\frac{3}{4}$ to 33 $\frac{3}{4}$

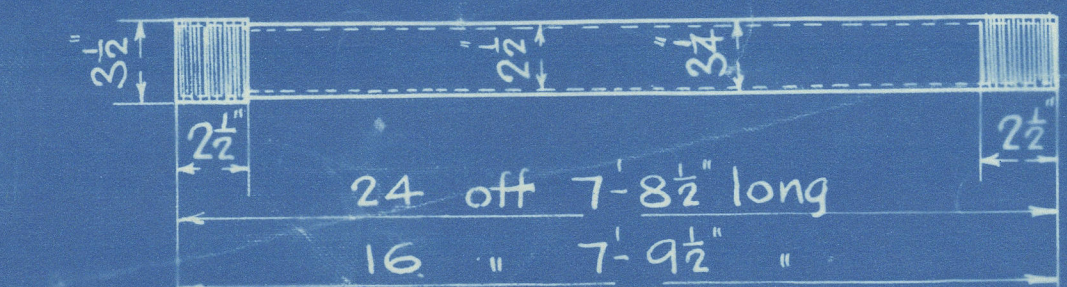
RIVETTING.				
POSITION	RIVETTING	RIVET HOLES	PITCH	GAUGE
Front & Back Seams	Double	$1\frac{3}{4}$ "	$3\frac{3}{4}$ "	6"
Comb. Chamb. Long Seams	Single	1"	$2\frac{1}{2}$ "	3"
" " & Furnace "	"	1"	$2\frac{1}{2}$ "	3"



Manhole  $16'' \times 12''$   
Stiffening Ring  $1\frac{9}{16}'' \times 9\frac{1}{4}''$   
Rivet Holes  $1\frac{5}{8}''$  Dia.  
Hole in Stiffening Ring  $16\frac{3}{4}'' \times 12\frac{3}{4}''$



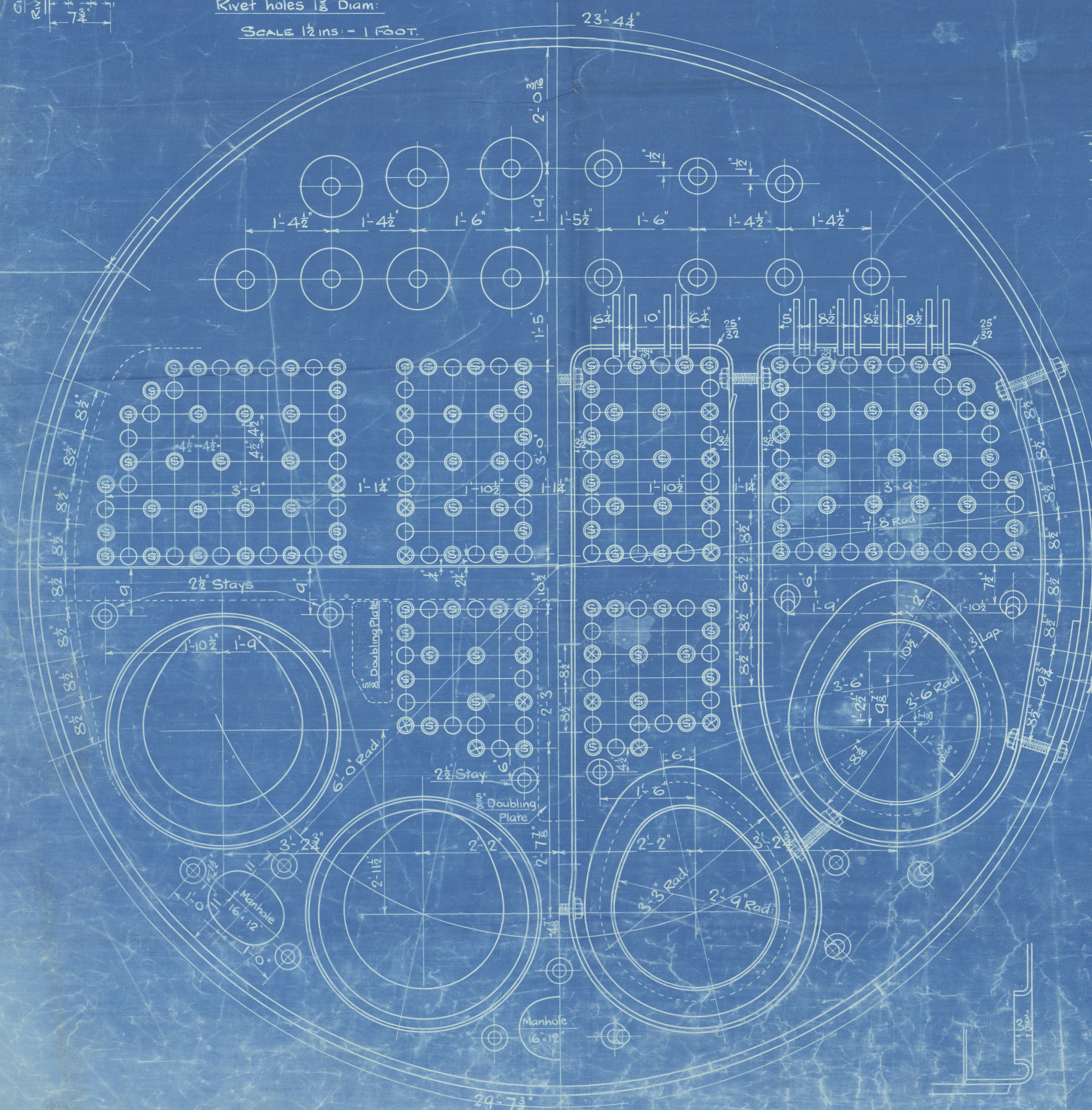
Stay Tubes  $\frac{5}{16}$ " Thick, screwed 9 threads per inch.  
Eff Area - 2.1737 sq ins.



Stay Tubes  $\frac{3}{8}$ " Thick, screwed 9 threads per inch.  
Eff. Area = 2.6765 sq. ins.

Longitudinal seams fitted with double buttstraps.  
Outer straps  $\frac{3}{16}$ " thick: Inner straps  $\frac{5}{16}$ " thick.  
Rivet holes  $\frac{5}{8}$ " Diam:

SCALE  $\frac{1}{2}$  ins. = 1 FOOT.



CB  
4/11/24

NOTE - All Screwed Stays to have  
nut fitted to each end



SUNDERLAND

JOHN DICKINSON & SONS, WID

CON. NO. 889

INTENDED

FOR

SHORR BROTHERS, WID

S. S. No. 431

MAIN BOILERS.

s/s. *Edmonton*

BUNDESLAND RPT. NO. 29890

No. 3995
LLOYD'S TEST
380 lbs.
W. P. 220 LBS.
A.T.G. 9-6-28.



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Lloyd's Register  
Foundation

W986-0345