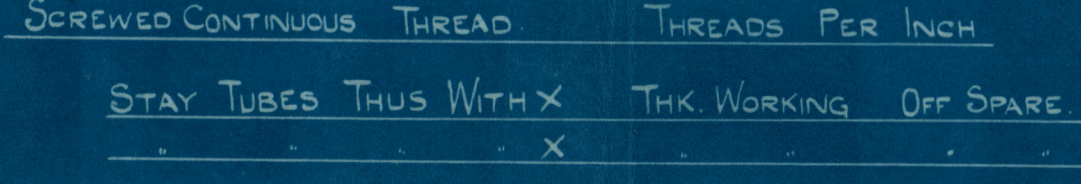
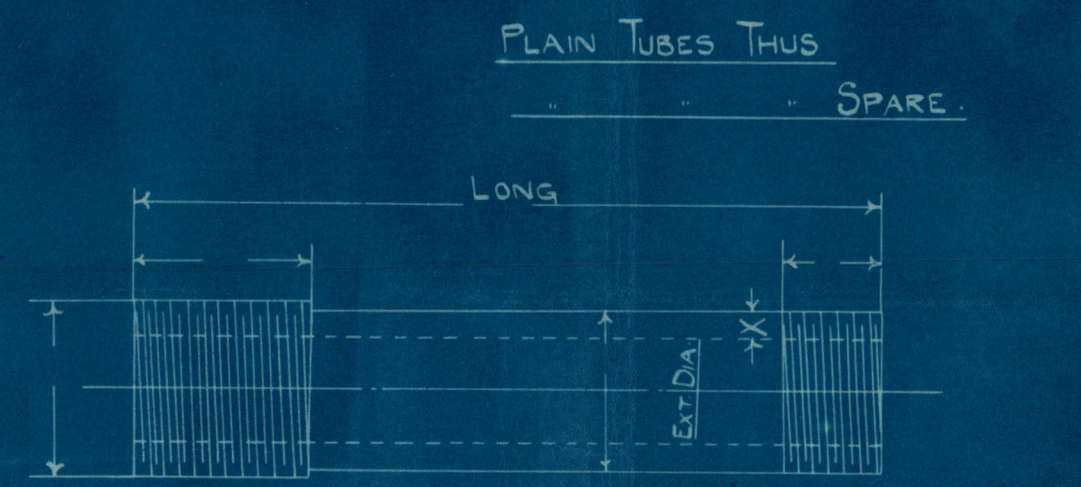
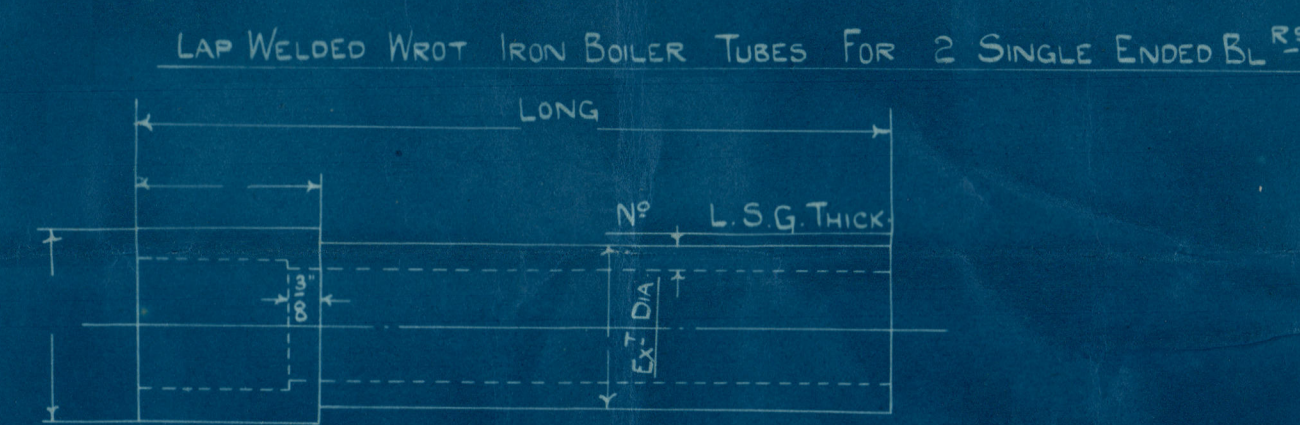
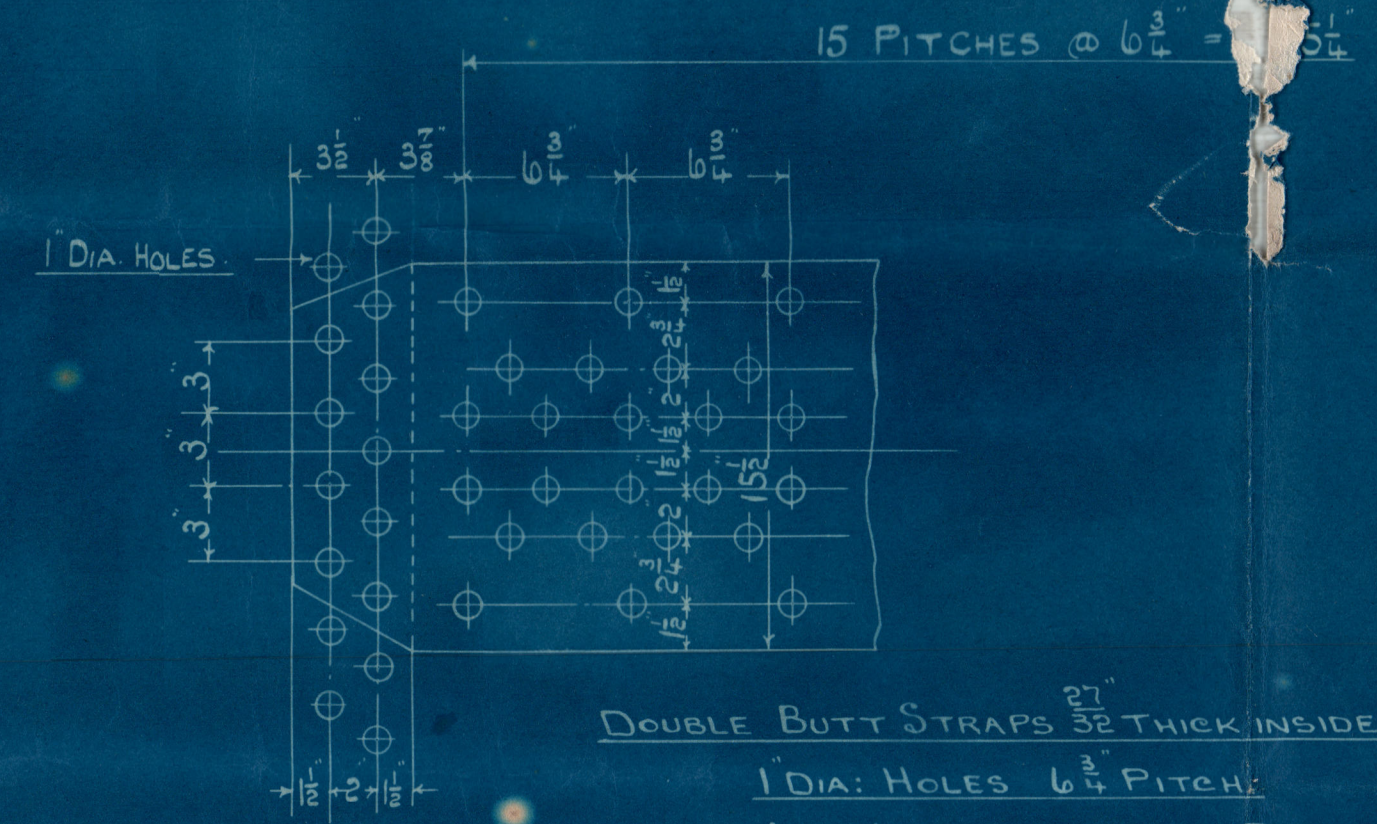


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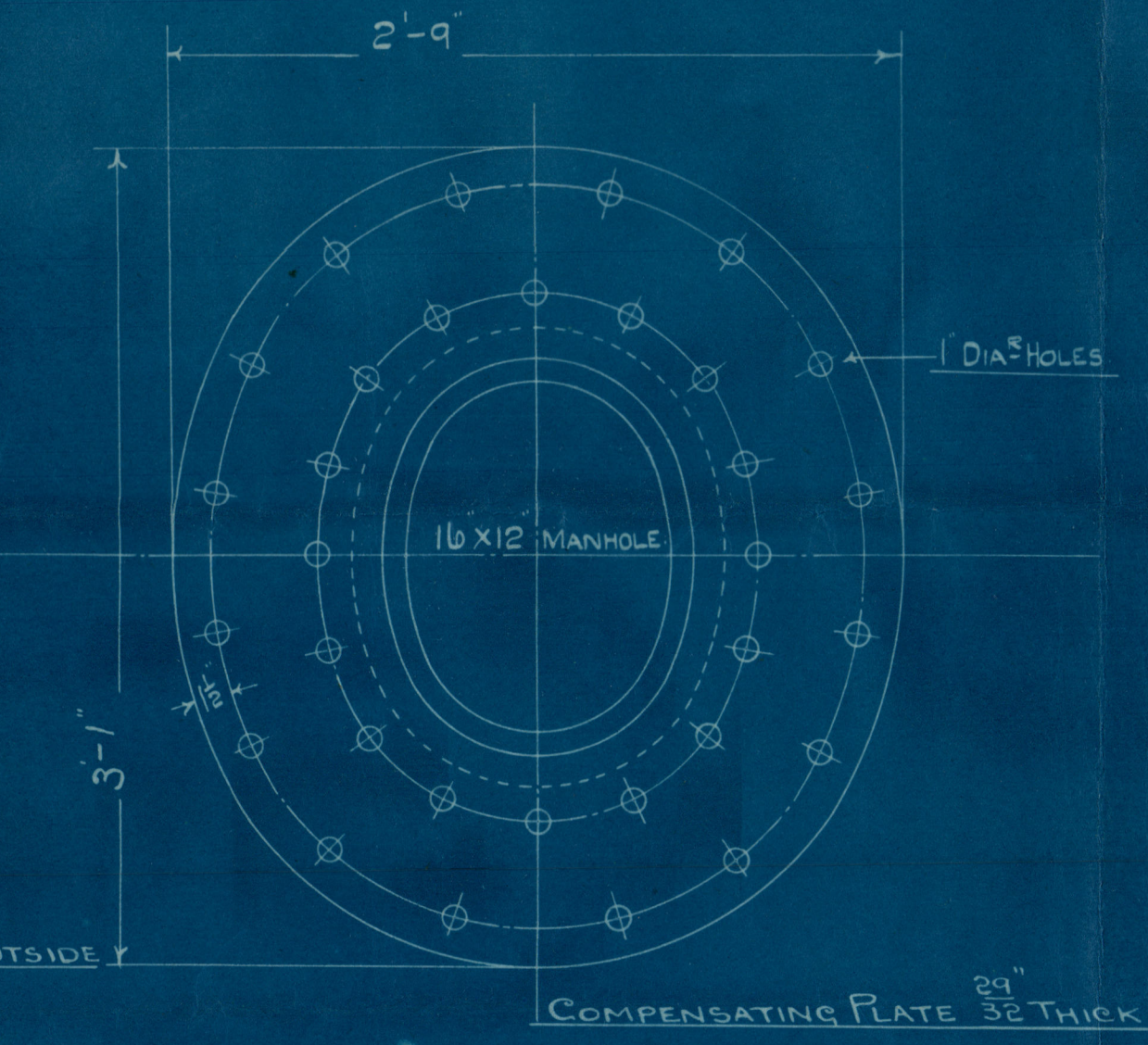


PARTICULARS OF BOILER		ONE END	TWO ENDS
HEATING SURFACE	TUBES	740 sq ft	1480 sq ft
	FURNACES	83 sq ft	166 sq ft
	B <sup>5</sup> COMB CH	40 sq ft	80 sq ft
	B <sup>5</sup> TL PLATE	23 sq ft	46 sq ft
	SIDES OF COMB	10 sq ft	20 sq ft
	FRONT TL PL	10 sq ft	20 sq ft
	TOTAL	1014 sq ft	2028 sq ft
GRATE AREA	3'-0" x 5'-6" BAR	33 sq ft	66 sq ft

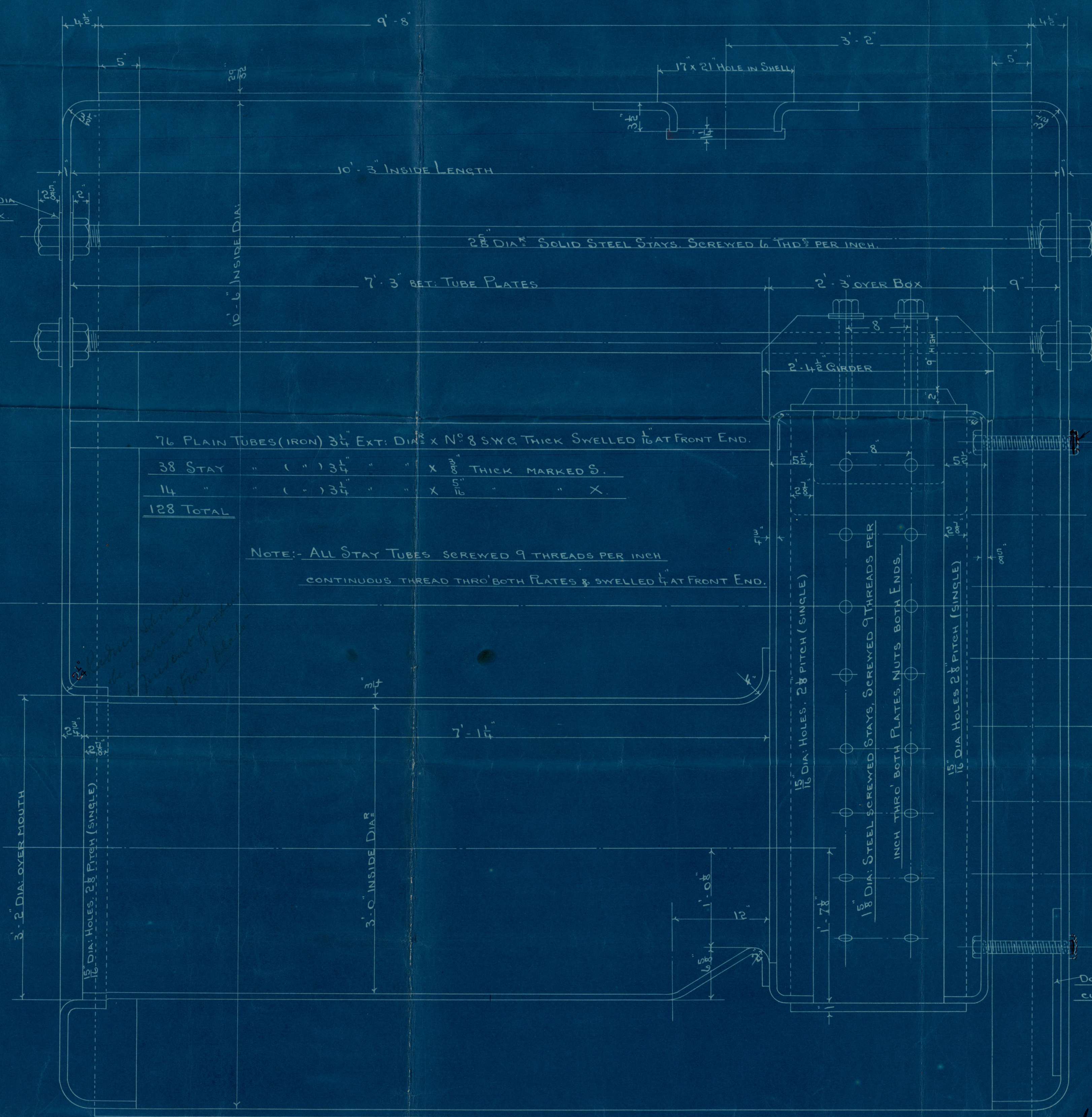
TESTS OF MATERIAL	
SHELL PLATE	28-32 TONS
COMPENSATING PLATE	28-32 TONS
BUTT STRAPS	28-32 TONS
ALL COMB CH PLATES	28-32 TONS
FRONTING PLATES	28-32 TONS
FURNACES	28-32 TONS
COMB CH	28-32 TONS
LONGITUDINAL STAYS	28-32 TONS
SCREWED STAYS	28-32 TONS



DOUBLE BUTT STRAPS 3/8" THICK INSIDE 1/2" THICK OUTSIDE  
1" DIA HOLES 6" PITCH  
ALL HOLES DRILLED IN PLACE  
TENSILE STRENGTH OF SHELL & BUTT STRAPS 28-32 TONS  
TO PASS LLOYD'S SURVEY  
W.P. 180 LBS PER SQ INCH  
TEST PRESS 360 LBS PER SQ INCH

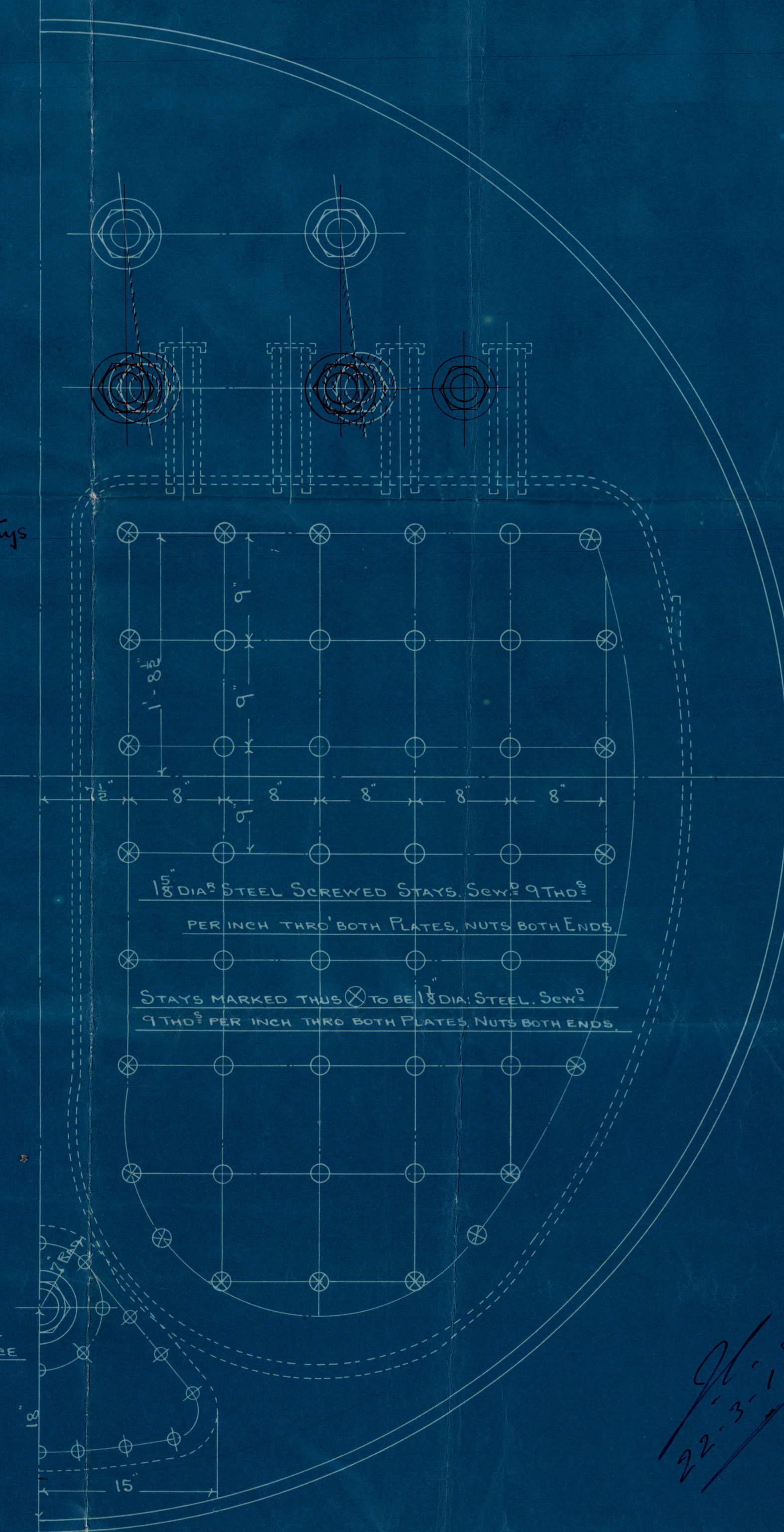


STEEL PLATES FOR 2 SINGLE ENDED BOILER ALL TO PASS			
MARK	DESCRIPTION	NO. OF	DIMENSIONS
1	SHELL PLATE		
2	BUTT STRAPS OUTER		
3	BUTT STRAPS INNER		
4	COMPENSATING PLATE		
5	MANHOLE DOORS		
6	GRIDES		
7	BACK TUBE PLATE		
8	BOX		
9	FRONT & BACK END PLATES		
10	W.P. 180 LBS PER SQ INCH C.C. BOTTOM & SIDES		



76 PLAIN TUBES (IRON) 3/4" EXT. DIA. x 1/8" SWG THICK SWELLED 1/4" AT FRONT END.
38 STAY - 1" x 3/4" x 1/8" THICK MARKED S.
14 - 1" x 3/4" x 1/8" THICK MARKED X.
128 TOTAL

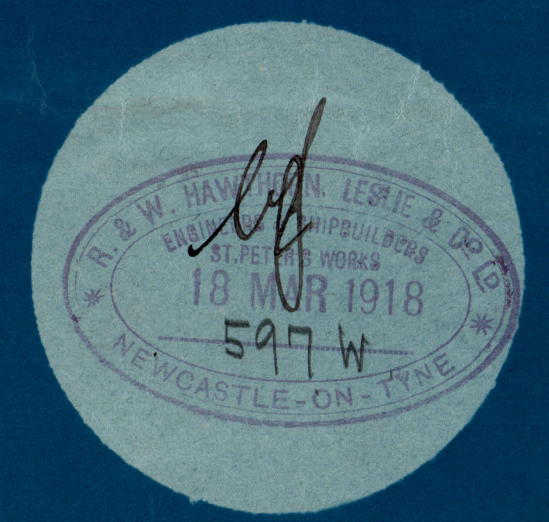
NOTE: ALL STAY TUBES SCREWED 9 THREADS PER INCH  
CONTINUOUS THREAD THRO' BOTH PLATES & SWELLED 1/4" AT FRONT END.



BOILER. 2- OFF.

SCALE 1/4" = ONE FOOT

ENCLOSURE TO  
R. & W. HAWTHORN, LESLIE & CO. LTD.  
ST. PETER'S WORKS, NEWCASTLE-ON-TYNE.  
712-0011 1/2





Inventor Steel Mann Bolts  
No 8050

by

Rowthornmann Leslie Esq

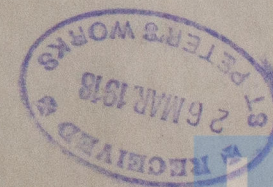
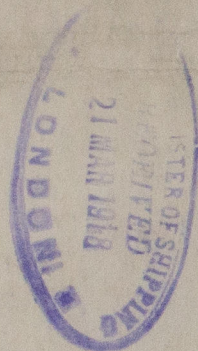
180<sup>th</sup> Working Pressure

Shedding by logit<sup>h</sup> Esq

S. S. CANTERBURY BELL  
NEWCASTLE ON TYNE.

Report No. 72051.

RETAIN



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