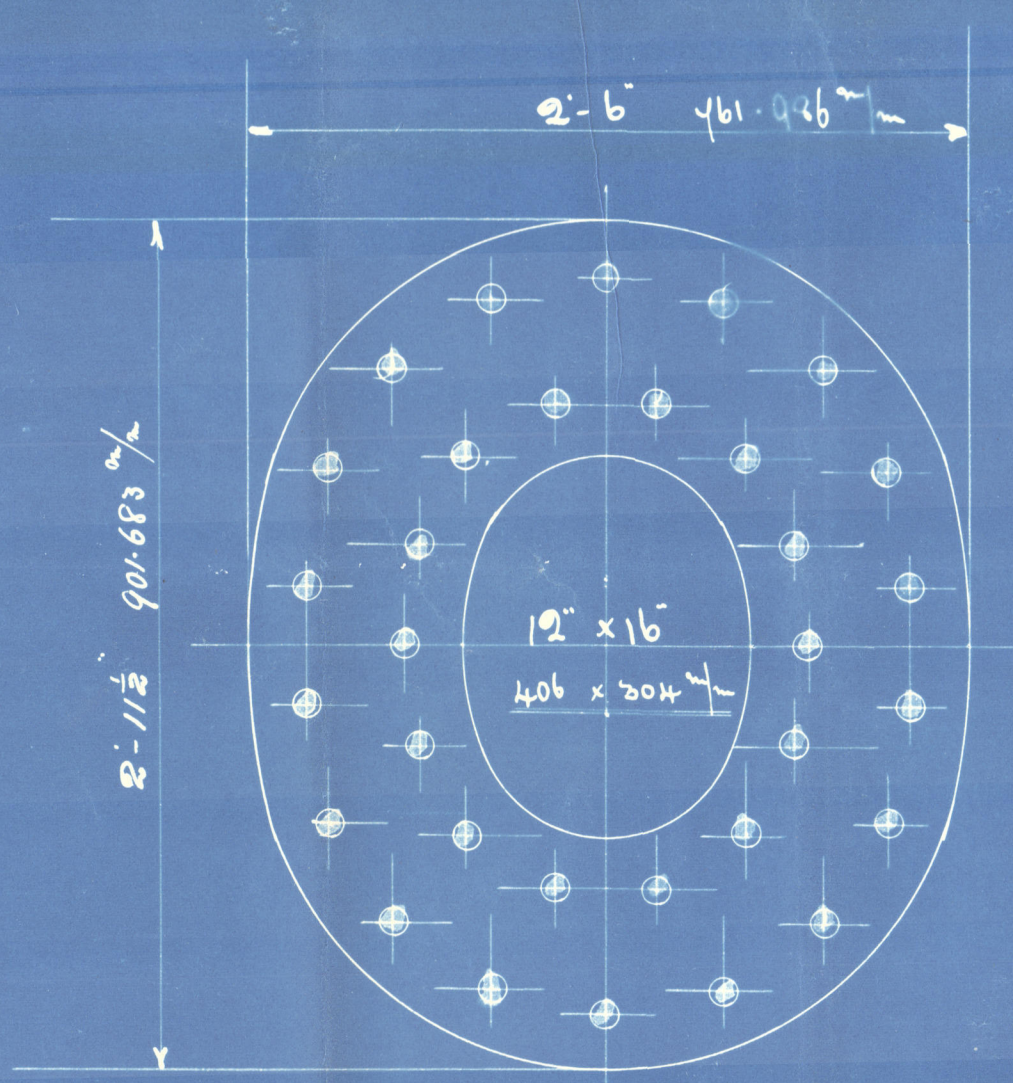
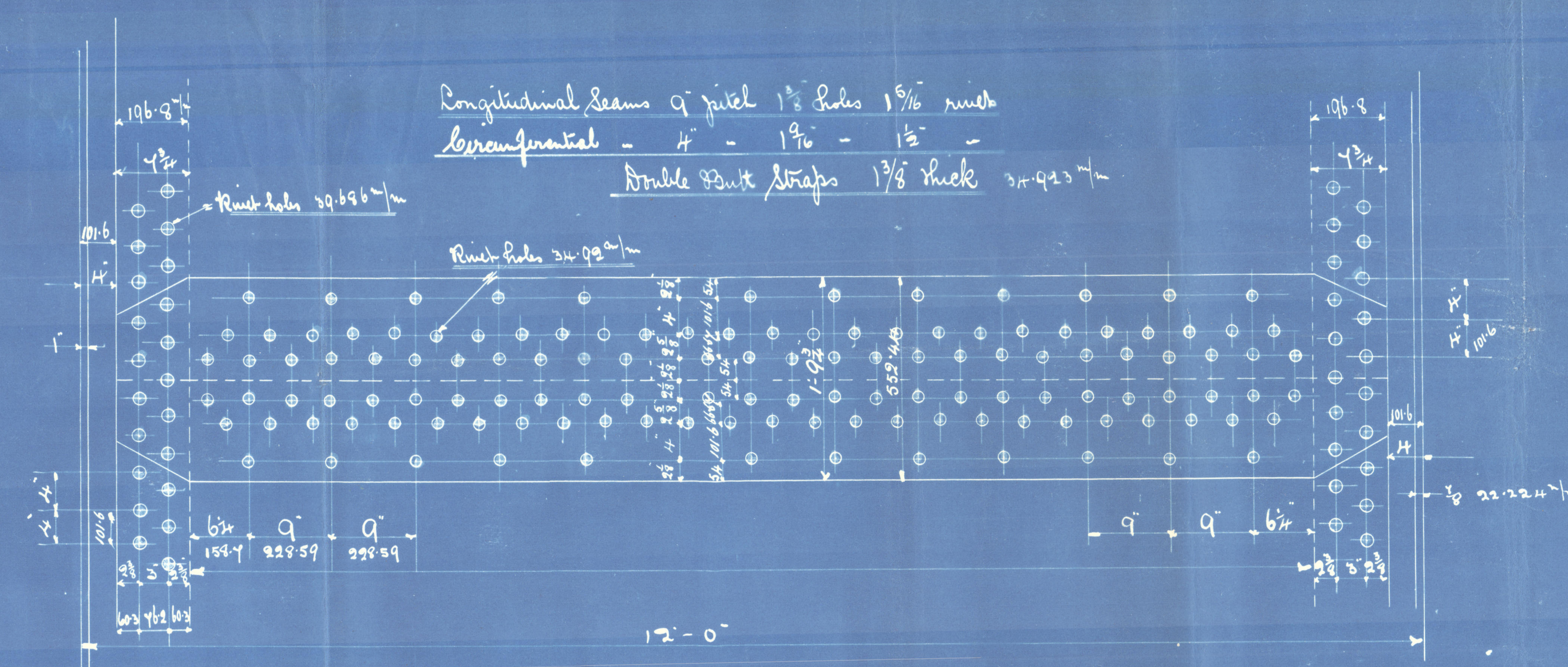


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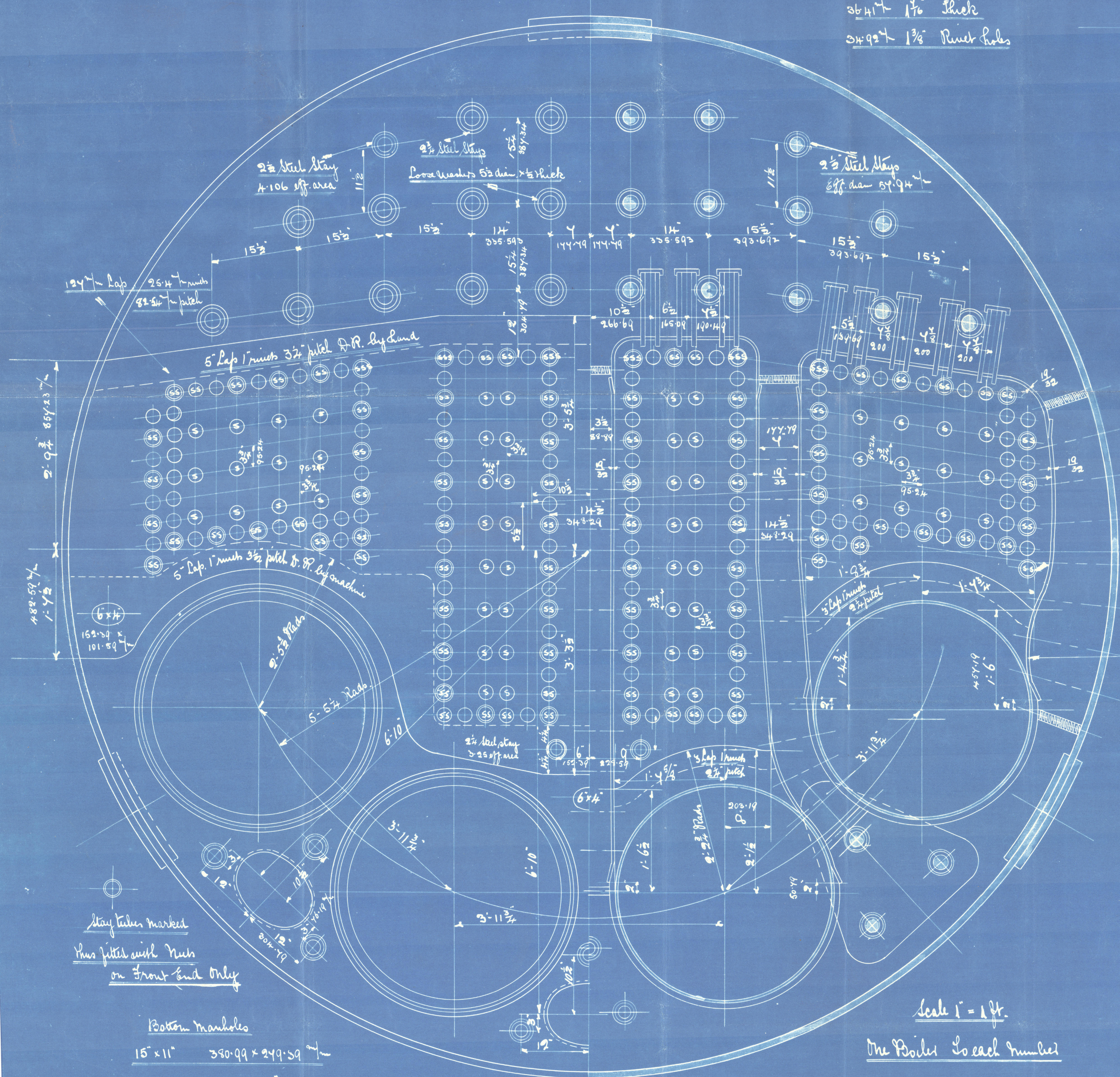


Manhole Rivets  
26 1/4" 1 1/2" Shell  
26 1/4" 1 1/2" Rivet holes

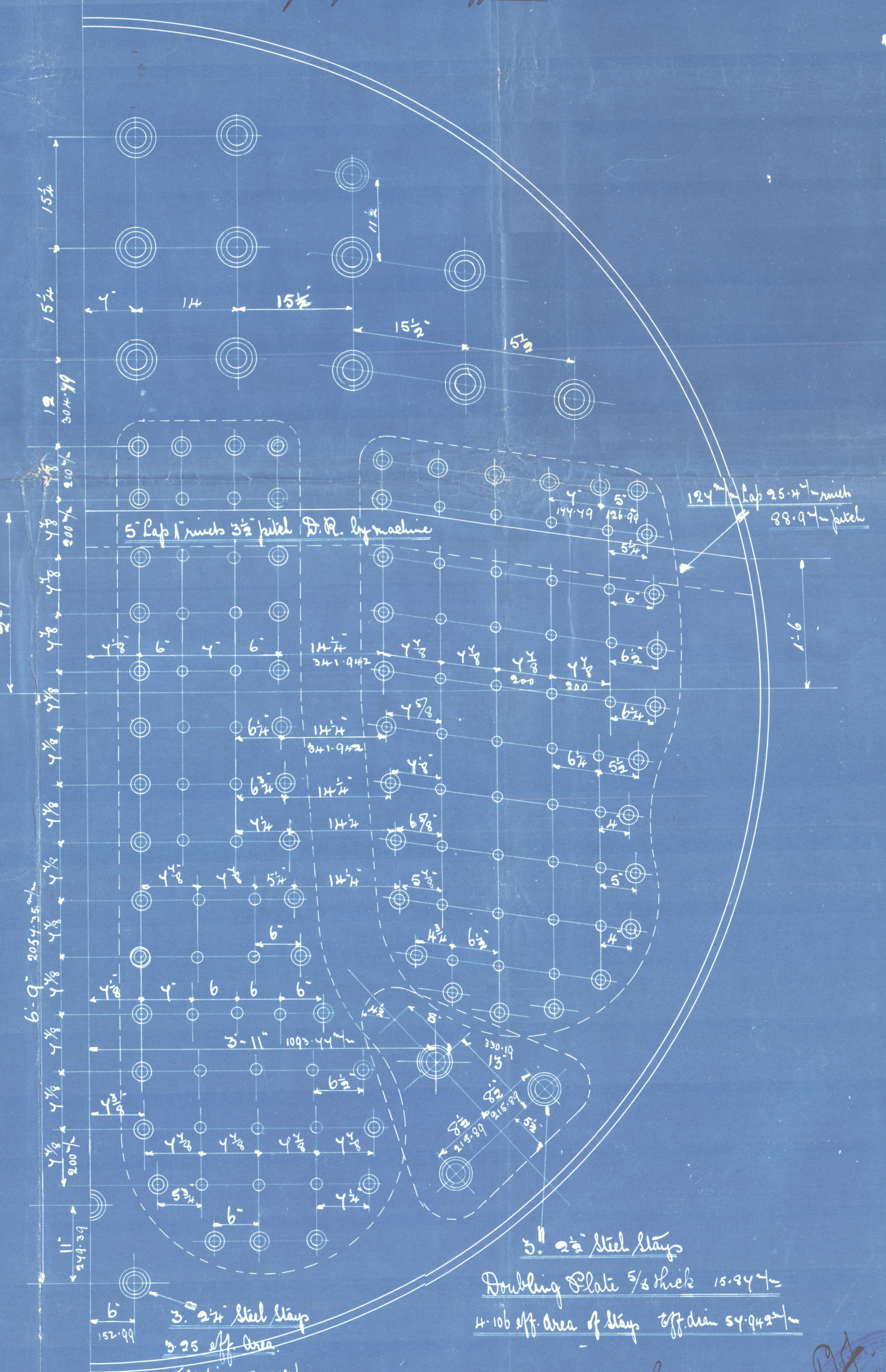
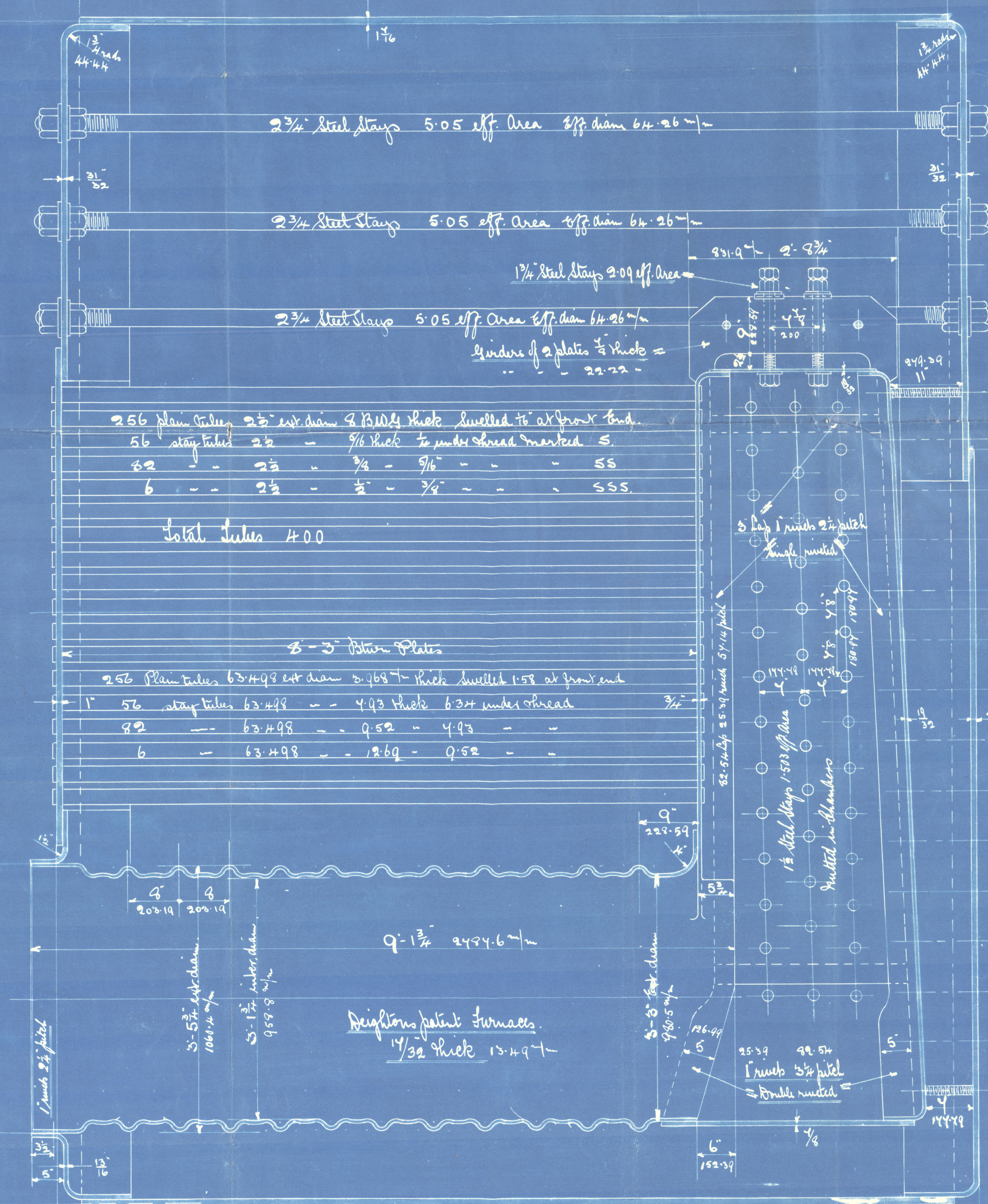


Thickness of Plates	
Shell	1 1/2"
Butt Straps	1 1/2"
Top of Ends	3/4"
Middle of Front	1"
Bottom of Front	1 1/2"
Bottom of Back	1 1/2"
Furnaces	1 1/2"
Combustion Space	1 1/2"
Stays	1 1/2"
Backs	1 1/2"
Bottoms	1 1/2"
Back Lute plate	3/4"
Grinder plate	1 1/2"

Total Heating Surface = 2652.2 sq. ft.

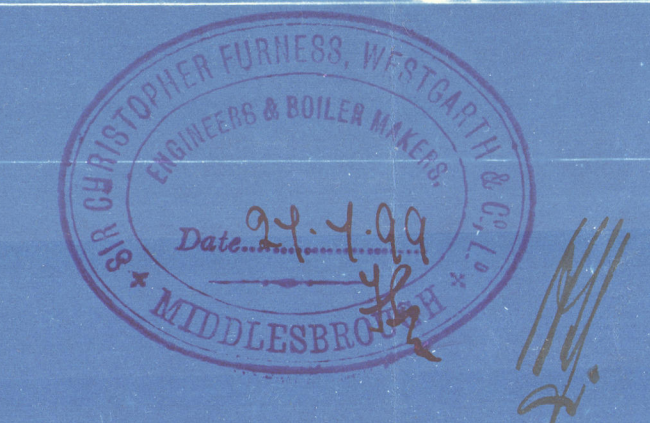


15'-6" Main diameter 4" - 42.2"



To Pass Lloyd's & the German Government Requirements for 190 lbs W.P. = 12.5 Atmos.  
Inside strength of Shell plates & Butt Straps 29 to 32 tons per sq. inch  
of all other plates 26 to 30 tons per sq. inch

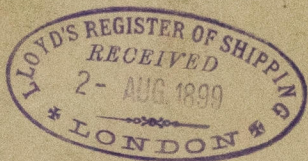
BOILERS No 149A 166B



Stays in Combustion Space  
1 1/2" Steel Straps 2.09 off Area riveted at both ends off diam 35.025"  
1 1/2" Steel Straps 1.50 off Area riveted in chambers only off diam 41.41" = 20



Steel Main Centre boiler  
Furness, Witney & Co. S. N. 246 & 8.  
Furness, Westgarth's Eng. 149 & 166.  
Working press = 180 lbs.



One for each vessel.

No 246. S/S 'Freiburg'  
Indt report No 2486

No 248. S/S 'Marburg'  
Indt report No 2825

HPL358-0153



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Lloyd's Register  
Foundation