

HEATING SURFACE SQ. FT.

TUBES : 905  
FURNACES : 86  
COMBUSTION CHMRS : 107  
TUBE PLATES : 43  
TOTAL : 1141

TOTAL GRATE AREA : 35.5  $\text{sq. ft.}$   
FIREBARS 5'9" LONG (IN TWO LENGTHS)

WORKING PRESSURE : 100 LBS  $\text{sq. in.}$   
TEST : 200

BOILER ORDER N<sup>o</sup> 2733

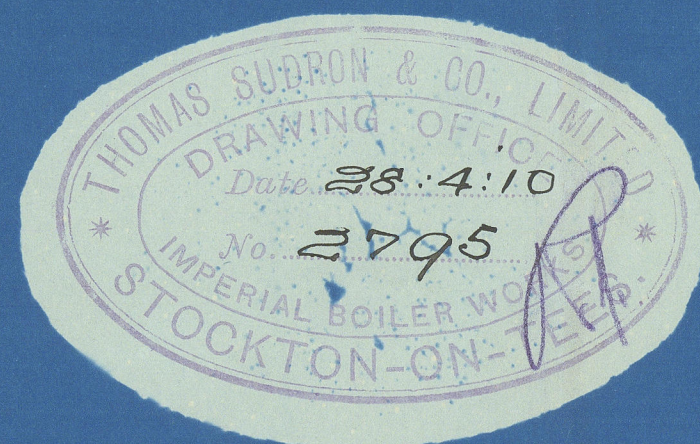
FOR MESS<sup>RS</sup> RICHARDSON DUCK & CO<sup>S</sup> SHIP N<sup>o</sup> 612

TO BE CONSTRUCTED TO PASS LLOYDS SURVEY

1 OFF SCALE 1" = 1 FT 14.4:10

PLATES BY MESS<sup>RS</sup> JOHN SPENCER & SONS

PLATES STEEL  
RIVETS  
STAYS  
TUBES IRON

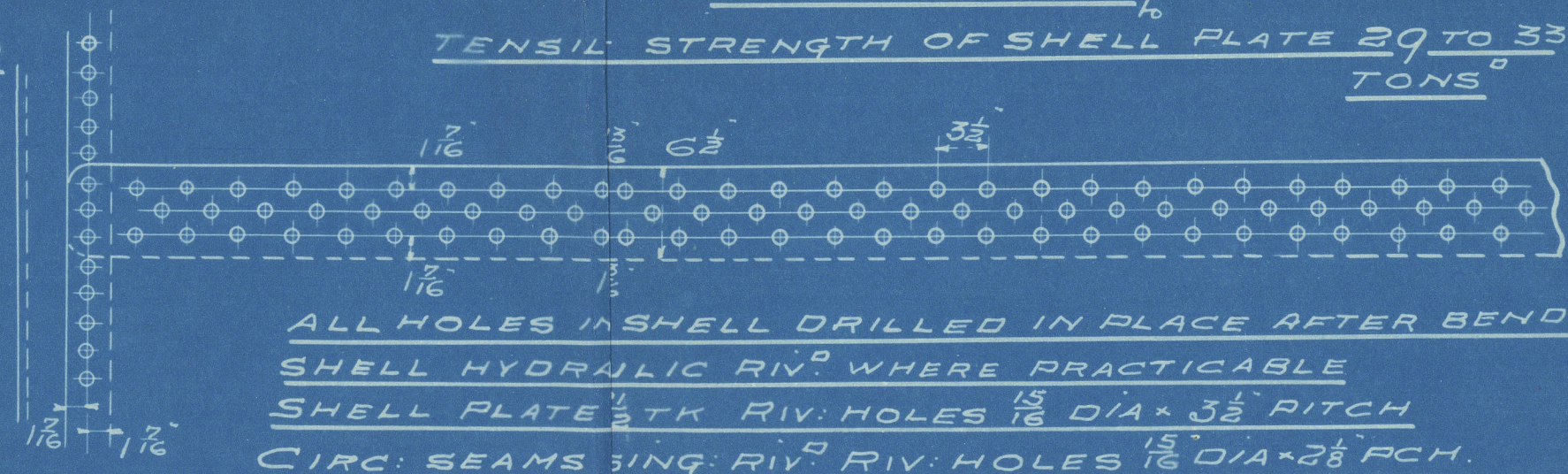


PLAN OF SHELL RIV<sup>g</sup>

STRENGTH OF JOINT

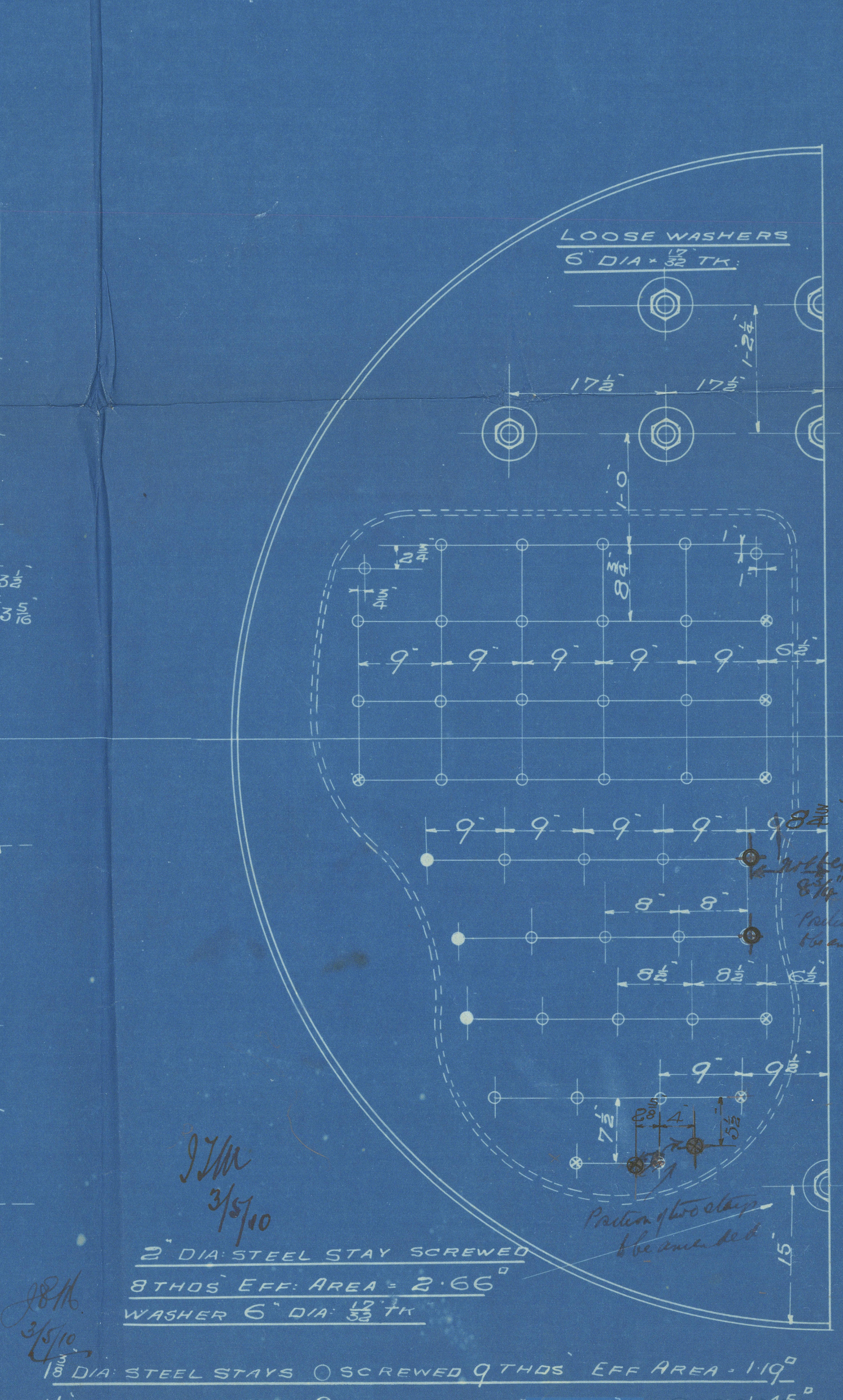
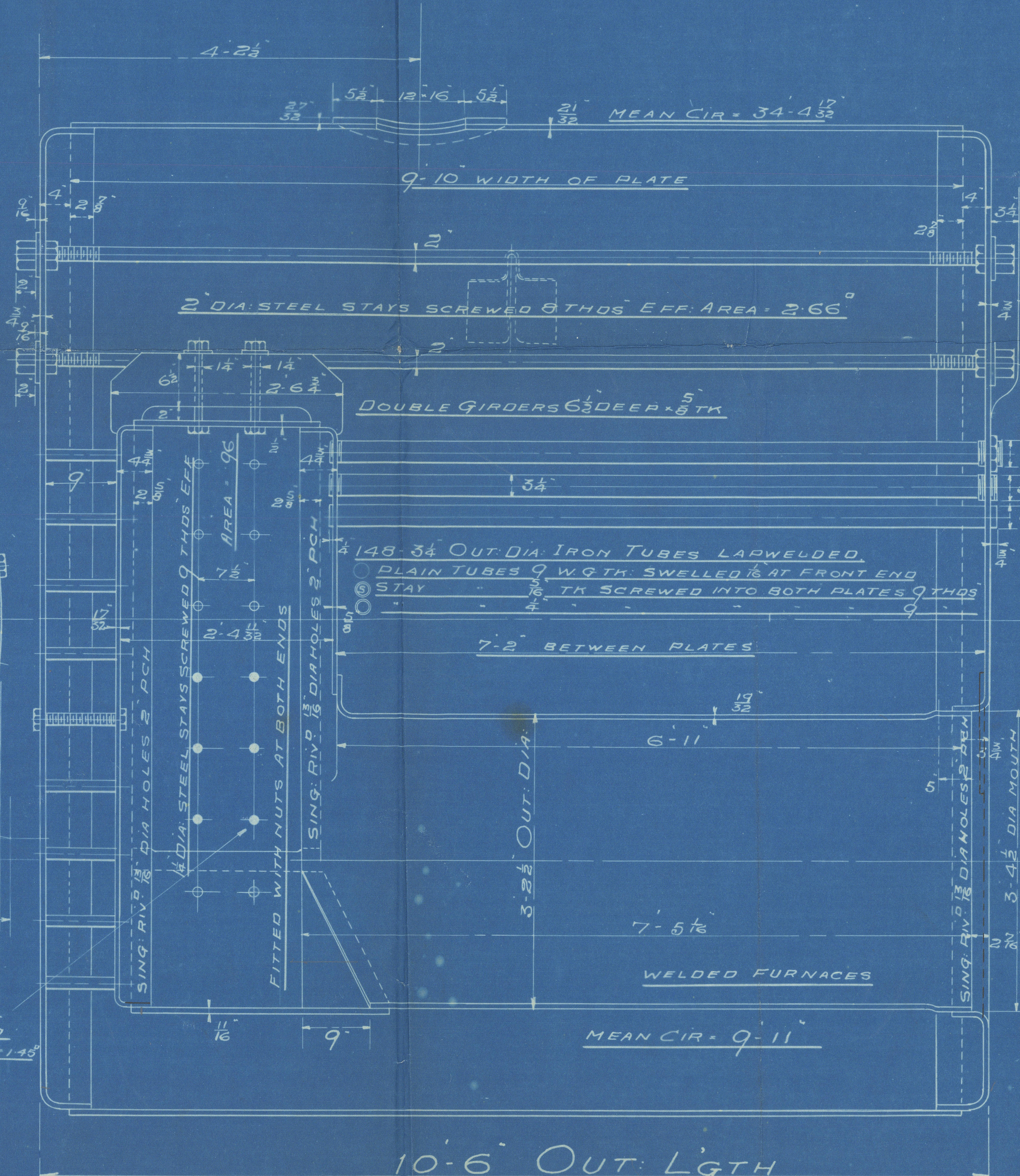
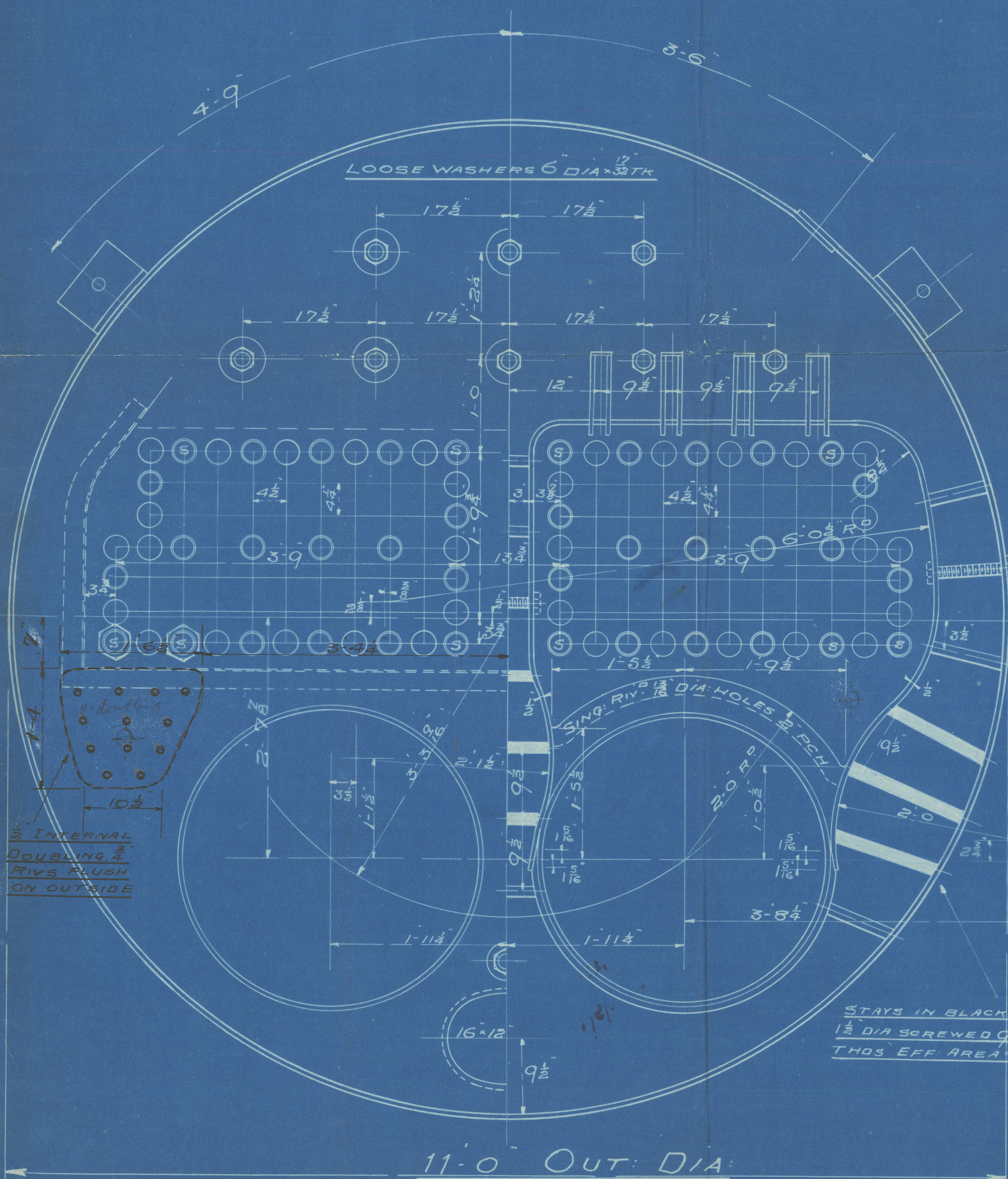
PLATE : 73.3 %  
RIVET : 76.5 %

TENSILE STRENGTH OF SHELL PLATE 29 TO 33 TONS



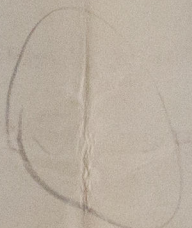
ALL HOLES IN SHELL DRILLED IN PLACE AFTER BENDING  
SHELL HYDRAULIC RIV<sup>g</sup> WHERE PRACTICABLE  
SHELL PLATE 1/2" THK RIV<sup>g</sup> HOLES 1 1/2" DIA. 3 1/2" PITCH  
CIRC. SEAMS SING. RIV<sup>g</sup> RIV<sup>g</sup> HOLES 1 1/2" DIA. 2 1/2" PCH.

Boiler Print amended in black to suit  
Lloyds. 5/5/10



2" DIA STEEL STAY SCREWED  
8 THOS EFF. AREA = 2.66  
WASHER 6" DIA 1/2" THK  
1 1/2" DIA STEEL STAYS SCREWED 9 THOS EFF AREA = 1.19  
ALL STAYS IN BACKS NUTTED BOTH ENDS





3/10



© 2020  
Lloyd's Register  
Foundation



Messrs J. & S. S. S. S. S.

Boiler No 2733

for

Messrs Richardson Duck & Co

St No 612

Working Press 100 lbs.



No. 4486
LLOYD'S TEST
200 lbs.
29.8.10. J.K.

Lab. Report 1435

St. Watermouth  
Lab. No. 9.



© 2020

Lloyd's Register

W752-0216