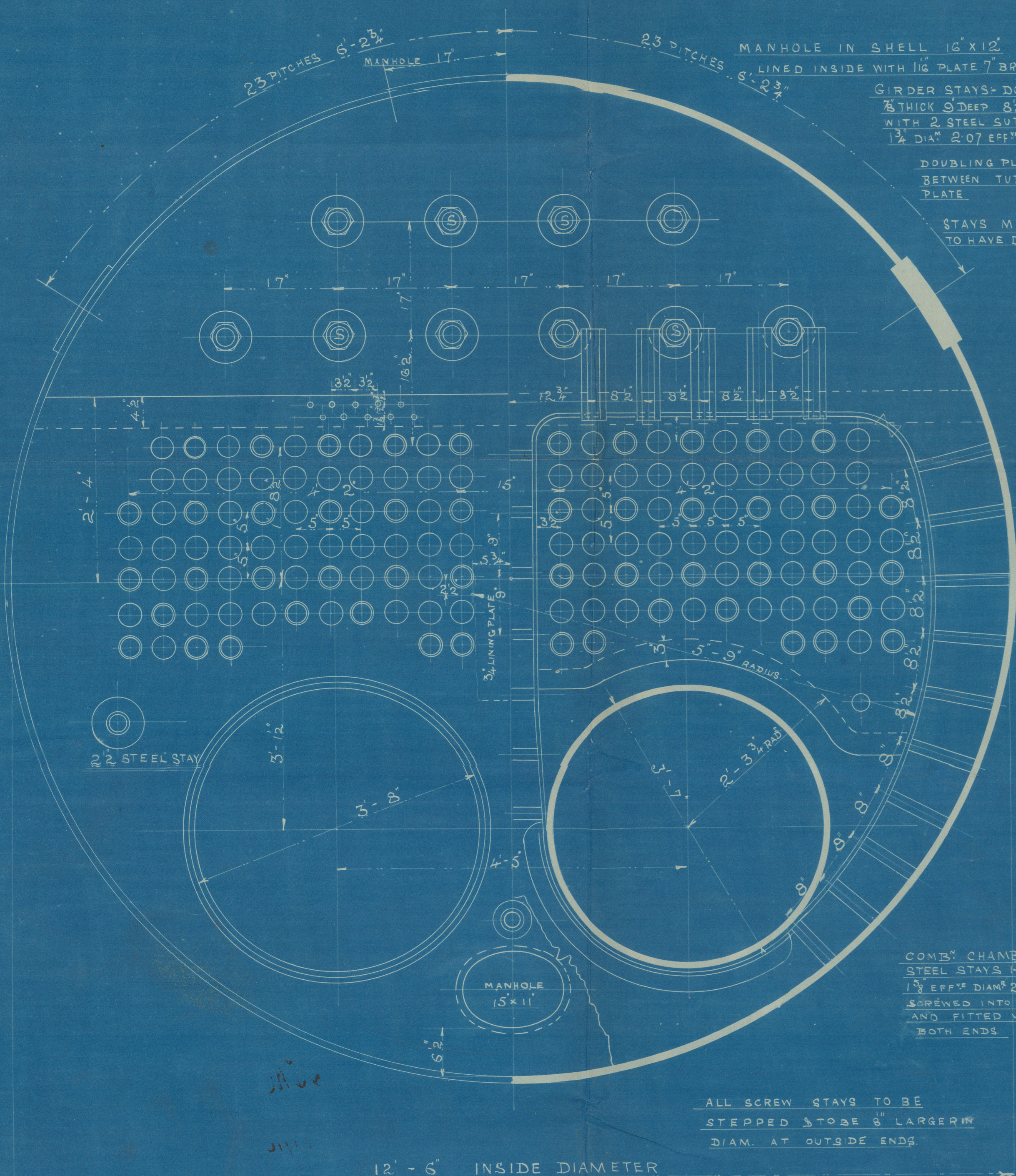
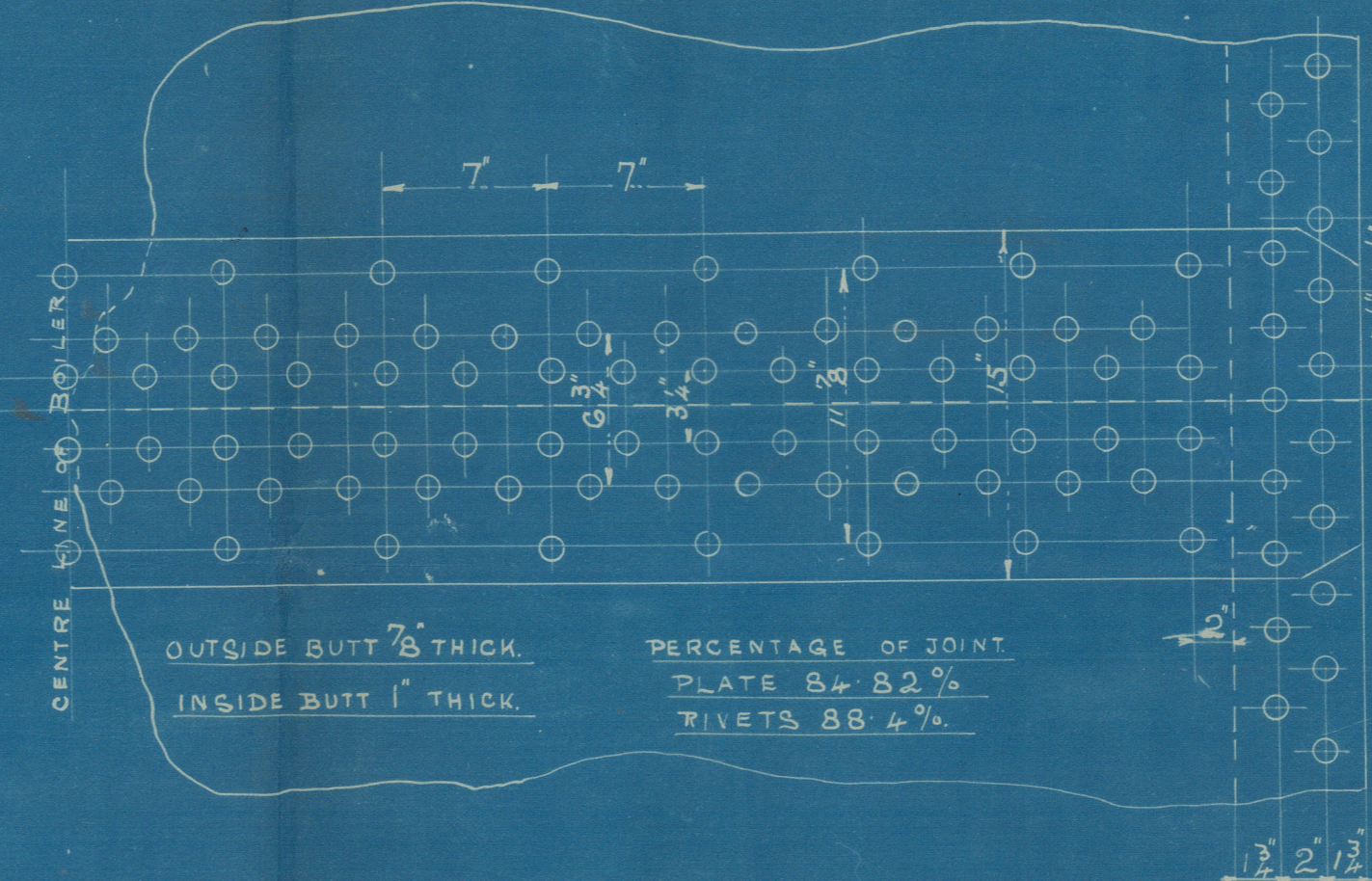


# DIMENSIONS.

LENGTH OF FIRE BARS	4'-9"
AREA OF FIRE GRATE	32.4
DIAM. OF TUBES OUTSIDE	3 1/2"
LENGTH OF TUBES OVER PLATES	6'-5"
NO. OF TUBES	140
SURFACE OF TUBES	819.6
TOTAL HEATING SURFACE	1070.5
WORKING PRESSURE	180
DIAM. OF SAFETY VALVE	2 1/4"

## PARTICULARS OF RIVETTING

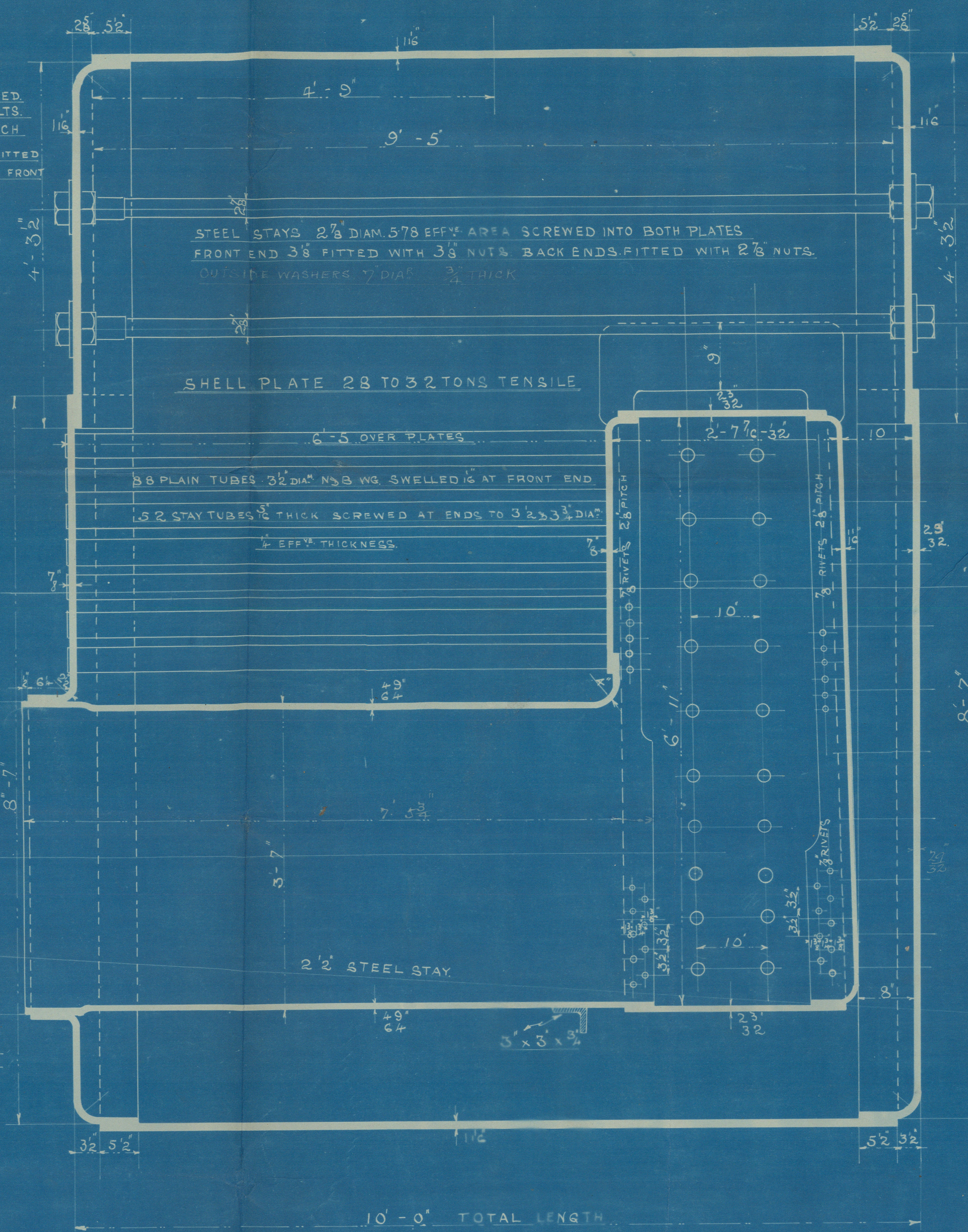
SHELL: LONGITUDINAL JOINT TO BE TREBLE RIVETTED, DOUBLE BUTT JOINT HOLES DRILLED 1 1/8" DIA. 7" PITCH.  
CIRCUMFERENTIAL JOINT TO BE DOUBLE RIVETTED LAP JOINT. HOLES DRILLED 1 3/8" DIA. 3 1/4" PITCH.  
FURNACES: TO BE DOUBLE RIVETTED AT FRONT END, BACK END DOUBLE RIVETTED AT SIDES, SINGLE RIVETTED AT TOP.  
COMB. CHAMBER BOTTOM & SIDES TO CENTRE OF FURNACES DOUBLE RIVETTED, REMAINDER SINGLE RIVETTED.  
END PLATES: CROSS SEAMS TO BE DOUBLE RIVETTED.



MANHOLE IN SHELL 16" X 12"  
LINED INSIDE WITH 1/2" PLATE 7" BROAD.  
GIRDER STAYS: DOUBLE STEEL 5/8" THICK 8 1/2" DEEP 8 1/2" PITCH, FITTED WITH 2 STEEL SUPPORTING BOLTS, 1 1/2" DIA. 2.07 EFF. AREA 10" PITCH.

DOUBLING PLATE TO BE FITTED BETWEEN TUBE NESTS ON FRONT PLATE.

STAYS MARKED "S" TO HAVE DOUBLE NUTS.



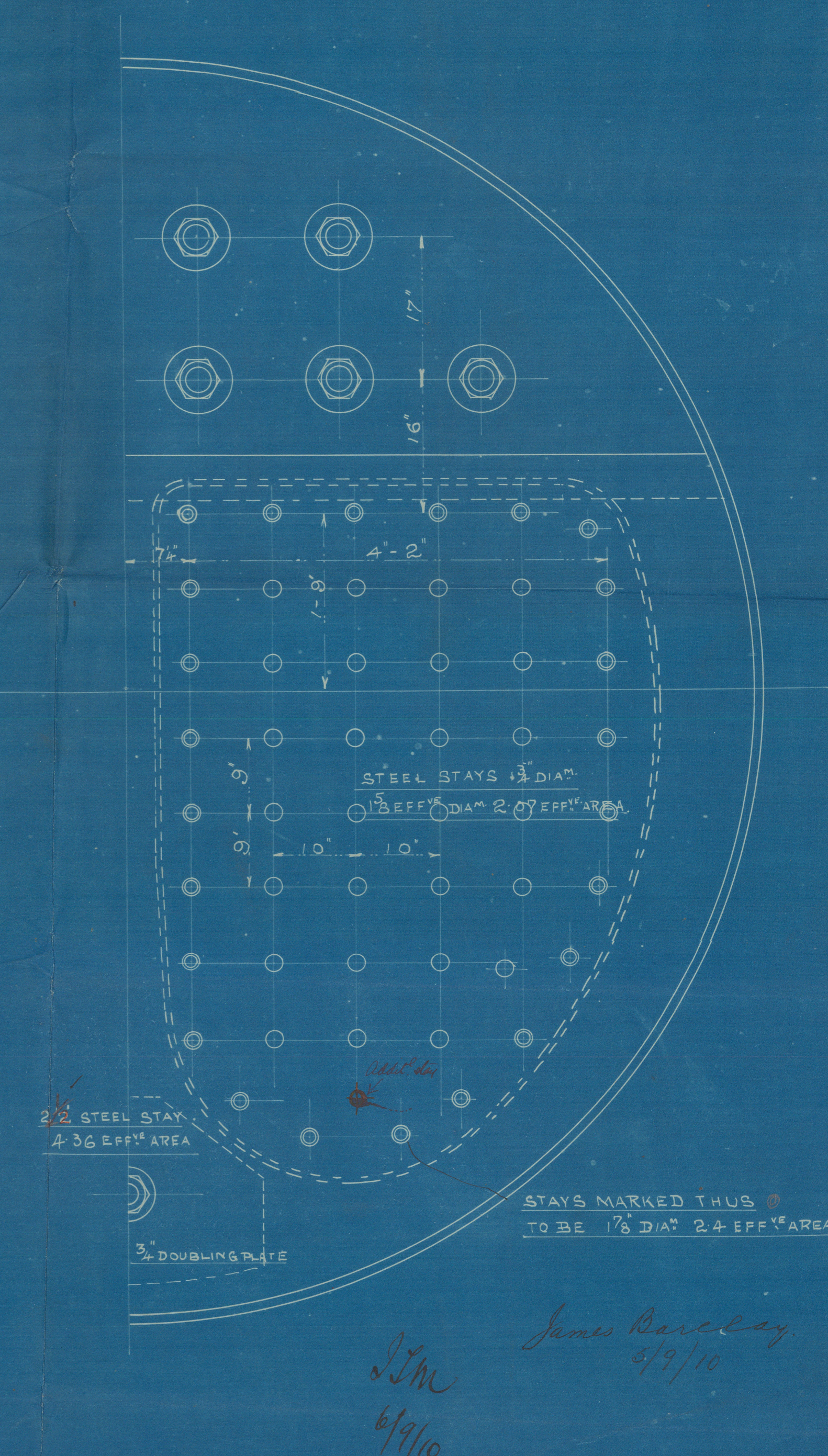
STEEL STAYS 2 1/8" DIA. 5.78 EFF. AREA SCREWED INTO BOTH PLATES. FRONT END 3/8" FITTED WITH 3/8" NUTS, BACK ENDS FITTED WITH 2 1/8" NUTS. OUTSIDE WASHERS 1 1/2" DIA. 3/4" THICK.

SHELL PLATE 28 TO 32 TONS TENSILE

6'-5" OVER PLATES  
38 PLAIN TUBES 3 1/2" DIA. N.B. W. SWELLED 1/8" AT FRONT END  
152 STAY TUBES 1 1/2" THICK SCREWED AT ENDS TO 3 1/2" DIA. 3 1/2" PITCH.  
4" EFF. THICKNESS.

COMB. CHAMBER STEEL STAYS 1 1/2" DIA. 1.78 EFF. AREA 2.07 EFF. AREA SCREWED INTO BOTH PLATES AND FITTED WITH NUTS AT BOTH ENDS.

ALL SCREW STAYS TO BE STEPPED 3/16" TO BE 1/4" LARGER IN DIAM. AT OUTSIDE ENDS.



STAYS MARKED THUS TO BE 1 1/8" DIA. 2.4 EFF. AREA.

CHARLES D HOLMES & CO LTD  
ENGINEERS & BOILER MAKERS  
HULL 16.8.10

BOILER N° 913

111390-0031



BOILER N° 910

97.

Boiler Register  
Foundation

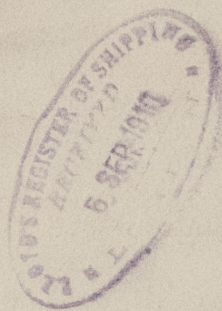
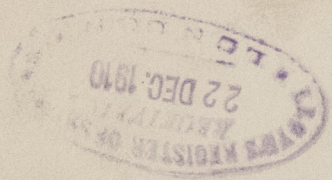
Messrs Charles D. Holmes & Co.

Boiler No 913

Sc K. Berne.

No 1782  
Lloyds Test  
360 lbs  
J. B.  
12. 12. 10

Hull Report No 23447



W1390-0037

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97.



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