

4.4.23  
 HEATING SURFACE  
 TUBES = 752 SQ FEET  
 FURNACES = 90  
 CHAMBERS = 100  
 TUBE PLATES = 38  
 TOTAL = 980 SQ FEET.

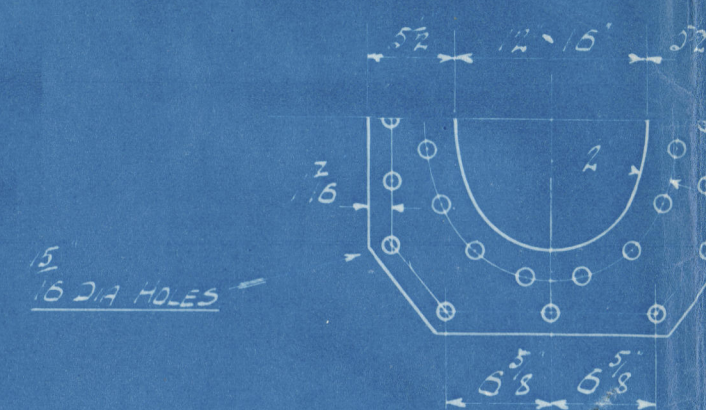
LENGTH OF FIREBARS = 5'-6"  
 TOTAL GRATE AREA = 33.5 SQ FEET.

# MARINE BOILER

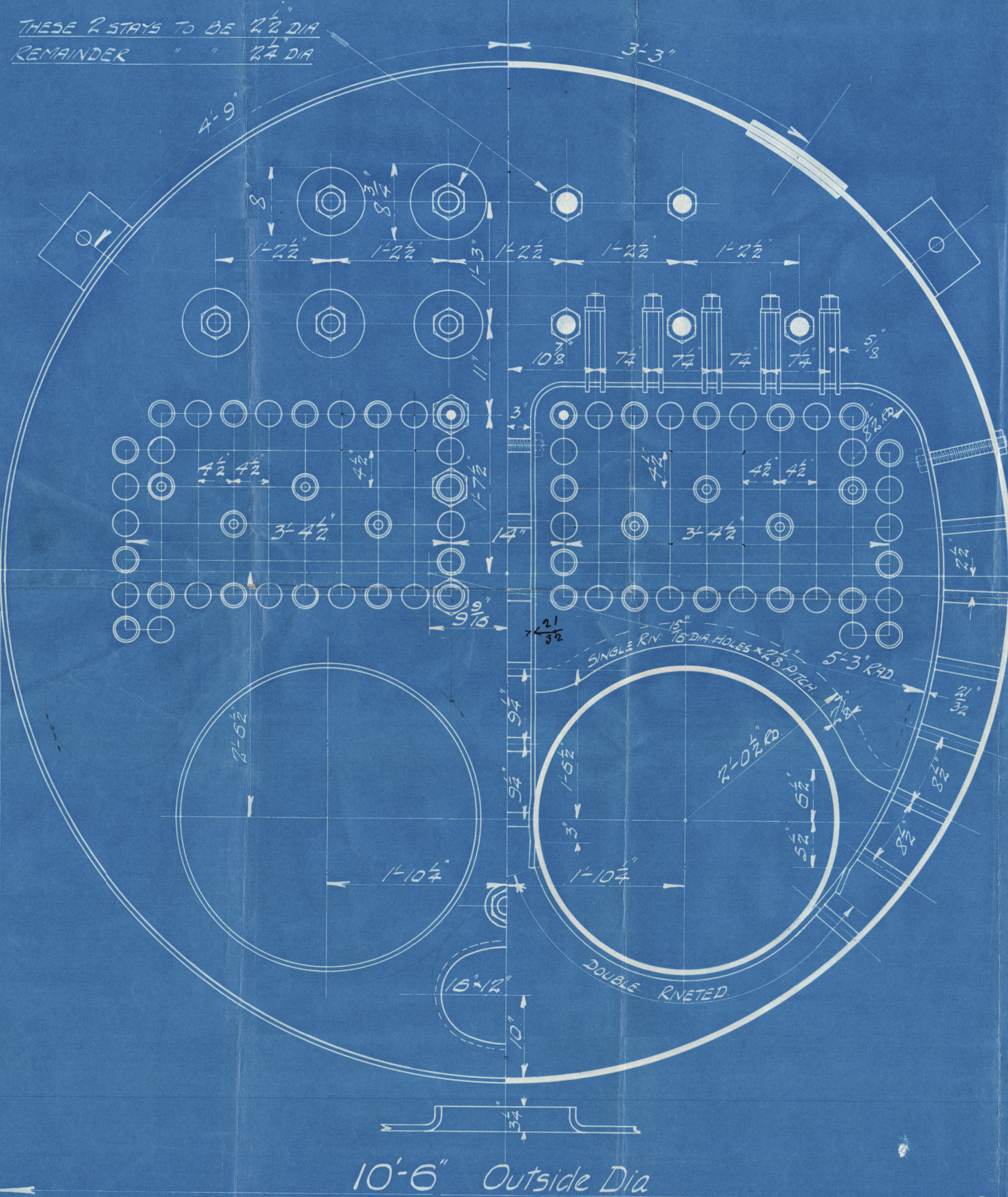
Scale: 1 inch = 1 foot

MATERIALS  
 PLATES - STEEL  
 STAYS - "  
 RIVETS - "  
 TUBES - IRON

LIMITS OF TENSILE STRENGTH	
SHELL AND BUTSTRAPS	29 TO 33 TONS
MANHOLE COMPENSATION	29 TO 33
GIRDER PLATES	28 TO 32
ALL OTHER PLATES	26 TO 30
MAIN STAYS	28 TO 32
SCREEN STAYS	26 TO 30

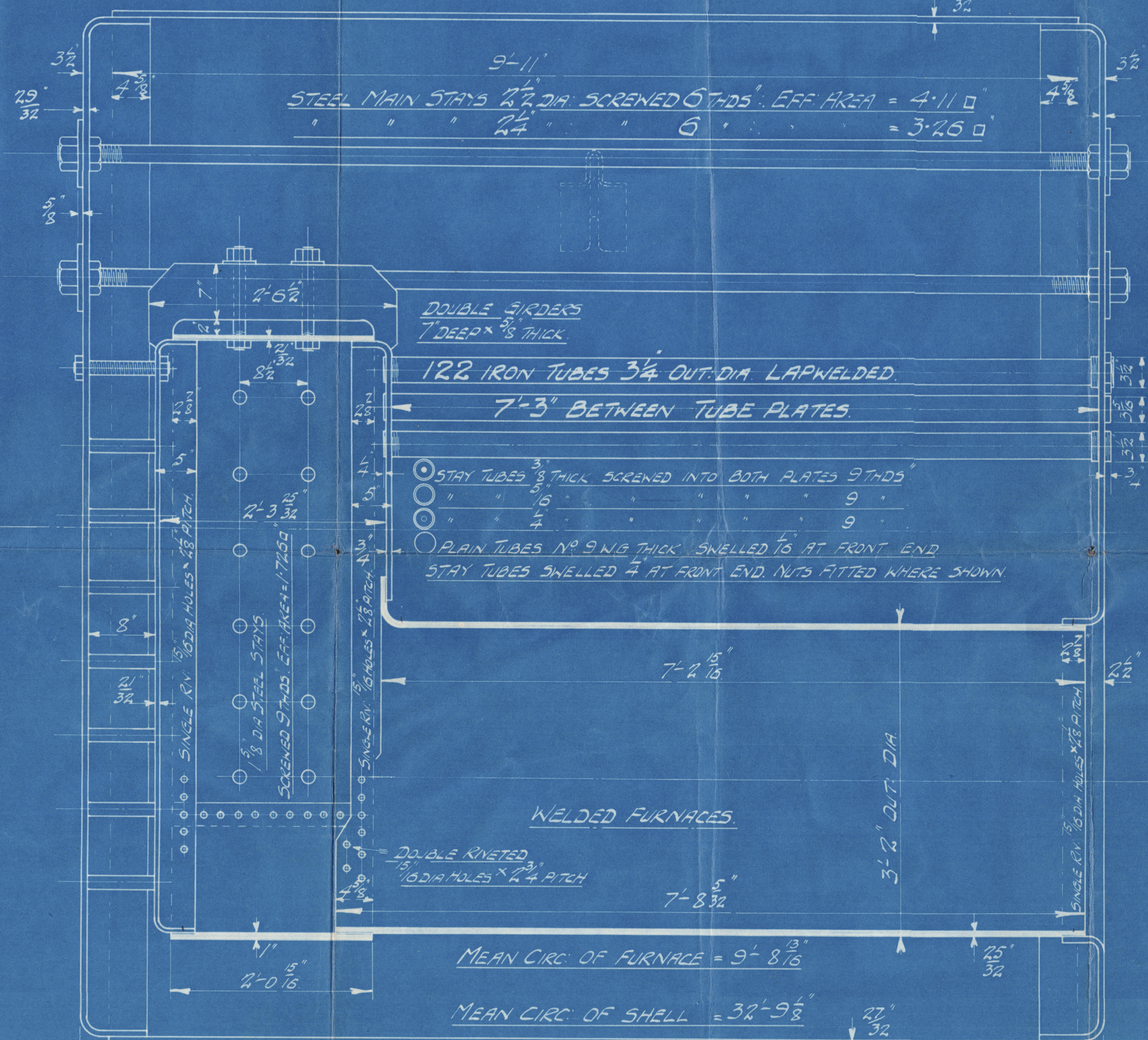


DETAIL OF SHELL MANHOLE COMPENSATION PLATE 1/8" THICK



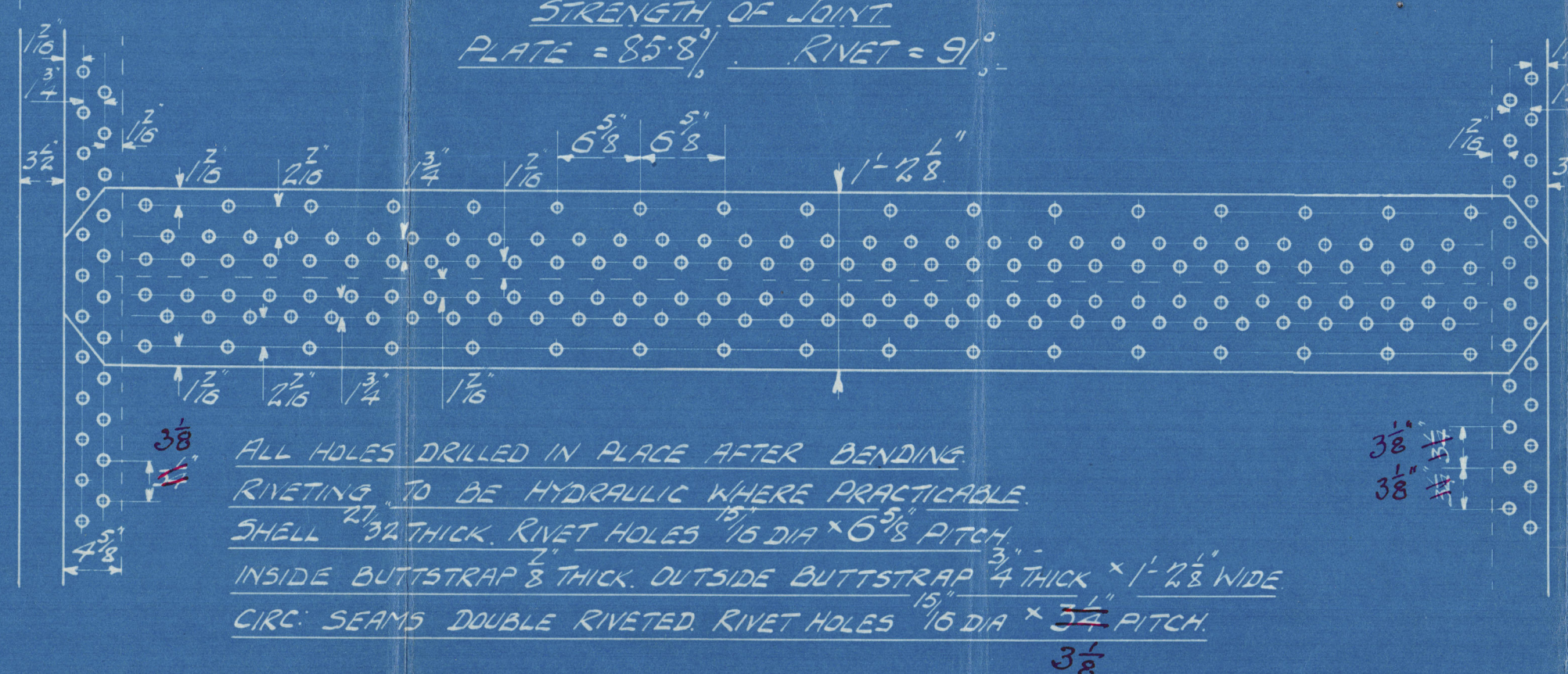
Working Pressure 180 lbs per sq. inch  
 Test " 320 "

To be constructed to pass LLOYDS' Survey.



10'-6" Outside Length

STRENGTH OF JOINT  
 PLATE = 85.8% RIVET = 91%



ALL HOLES DRILLED IN PLACE AFTER BENDING.  
 RIVETING TO BE HYDRAULIC WHERE PRACTICABLE  
 SHELL 3/8" THICK. RIVET HOLES 1/8" DIA x 6 3/8" PITCH.  
 INSIDE BUTTSTRAP 3/8" THICK. OUTSIDE BUTTSTRAP 1/2" x 1'-2 1/2" WIDE  
 CIRC. SEAMS DOUBLE RIVETED RIVET HOLES 1/8" DIA x 5 1/4" PITCH.  
 3/8"

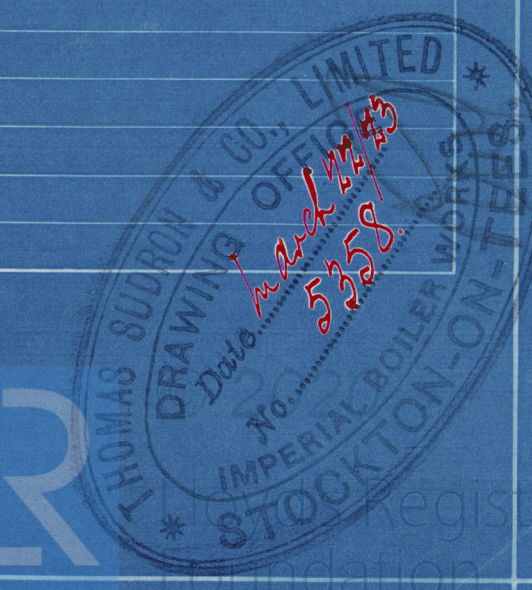


STEEL STAY 2 1/2" DIA  
 SCREENED STAYS EFF. AREA = 3.45  
 WASHER 8" DIA x 3/8" THICK.

STEEL STAYS 7/8" DIA. SCREENED STAYS EFF. AREA = 2.35 sq.  
 1 3/4" 9" = 2.03  
 1 1/8" 9" = 1.726  
 ALL CHAMBER STAYS SCREENED INTO BOTH PLATES  
 CAULKED AND FITTED WITH A SINGLE NUT AT EACH END

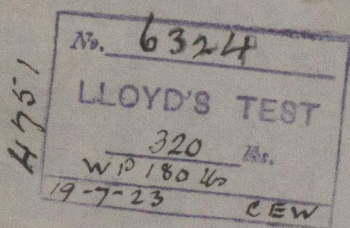
ORDER NO	FOR
4751	Messrs W. PICKERSILL AND SONS LTD 55 NO 206

Thomas Sudron and Co Ltd.  
 Imperial Boiler Works  
 Stockton-on-Tees  
 DRAWN BY: J. J. MARCH 5/23





Messrs Thos Audron & Co Ltd  
Boiler No 4751  
for  
Messrs W. Pickering & Sons  
S.S. No 206  
Working Press 180 lb



MIDDLESBROUGH

Report No. 11666.

Kildale  
Sea 28788.



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Lloyd's Register  
Foundation

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