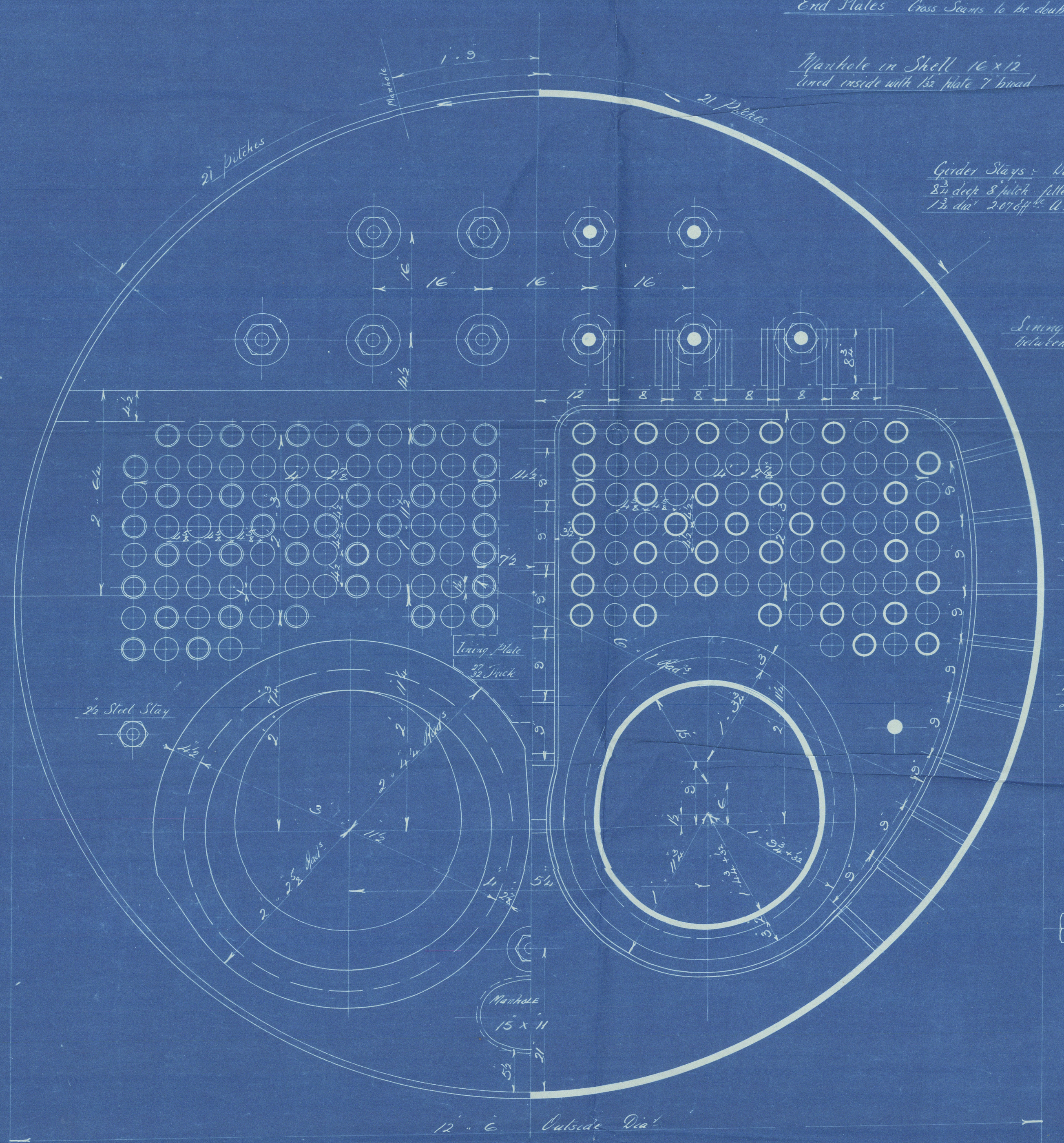
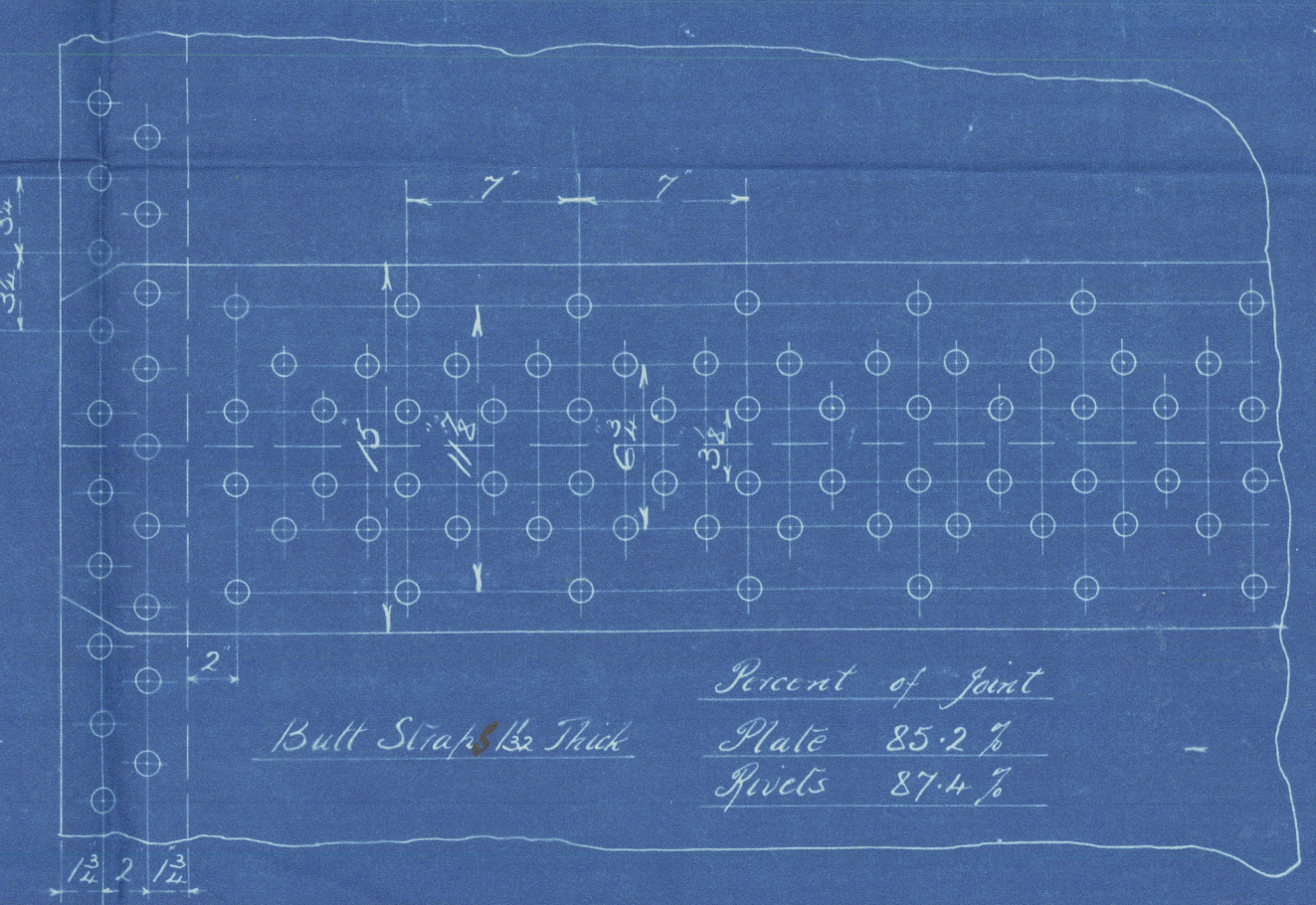


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DIMENSIONS.	
LENGTH OF FIRE BARS	
AREA OF FIRE GRATE	
DIAM OF TUBES OUTSIDE	3 1/2
LENGTH OF TUBES OVER PLATES	6' - 4"
NO OF TUBES	168
SURFACE OF TUBES	885
TOTAL HEATING SURFACE	1103
WORKING PRESSURE	180

Particulars of Riveting.
Shell Longitudinal joint to be double riveted double Butt joint. Holes drilled 1 1/2 dia 7 pitch.
 Circumferential Seams to be double riveted Lap joints. Holes drilled 1 3/4 dia 3 1/2 pitch.
Journals Front & Back Ends to be single riveted except top half of front ends.
Comb^d Chambers Bottom & Sides to level of furnace tops to be double riveted, rest to be single riveted.
End Plates Cross Seams to be double riveted.



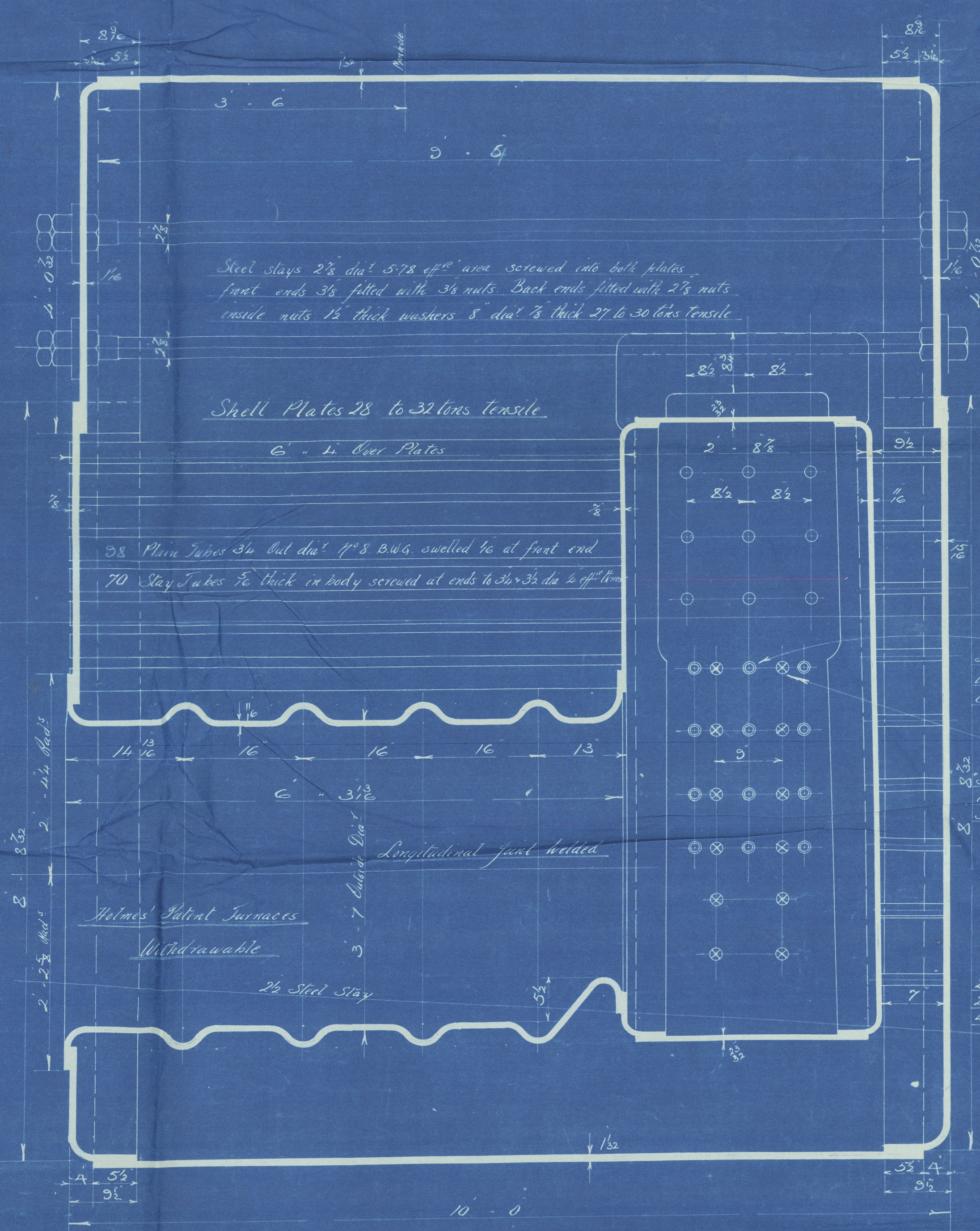
Manhole in Shell 16 x 12
 Lined inside with 1/2 plate 7' broad

Girders Slays: Double Steel 3/8 thick
 8 1/2 deep 8 pitch filled with 3 supporting bolts
 1 1/2 dia 2-67 pitch 1/2 dia 8 1/2 pitch

Slaying plate to be fitted between tube nests

All Screw Slays to be screwed into both plates & filled with nuts at both ends

Comb^d Chambers to be fitted with slays 1 1/2 dia 1 1/2 off dia 2-67 off dia



Shell Plates 28 to 32 tons tensile
 6' - 4" over Plates

58 Plain Tubes 3/4 but dia 7/8 8 B.W.G. swelled 1/2 at front end
 70 Stay Tubes 3/8 thick in body screwed at ends to 3/4 dia 2 off from

Longitudinal joint welded

Holmes Patent Furnaces
 Withdrawable

Slays marked thus to be between CL at center

Slays marked thus to be between CL at sides & shell

Steel Slays 1 1/2 dia 1 1/2 off dia 2-67 off area
 Slays marked thus to be 1 1/2 dia

2 1/2 Steel Slay 1 1/2 off dia 4-36 area

Slaying plate 3/8 thick 11' - 0"

12' - 6" OUT DIA^R 10' - 0" LONG
 180 LBS. W.P.

CHARLES D. HOLMES & CO
 ENGINEERS & BOILER MAKERS
 April 25th 1906 HULL

BOILER NO 833

833011
 18/2/07

8816
 21/7/07

Charles D. Holmes & Co.

Hull

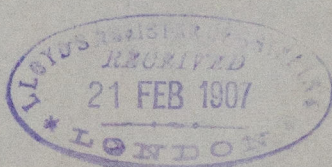
Boiler No. 833 —

180th

RETAIN

Sp Southward.

Hull 19th 97.



W757-0079



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