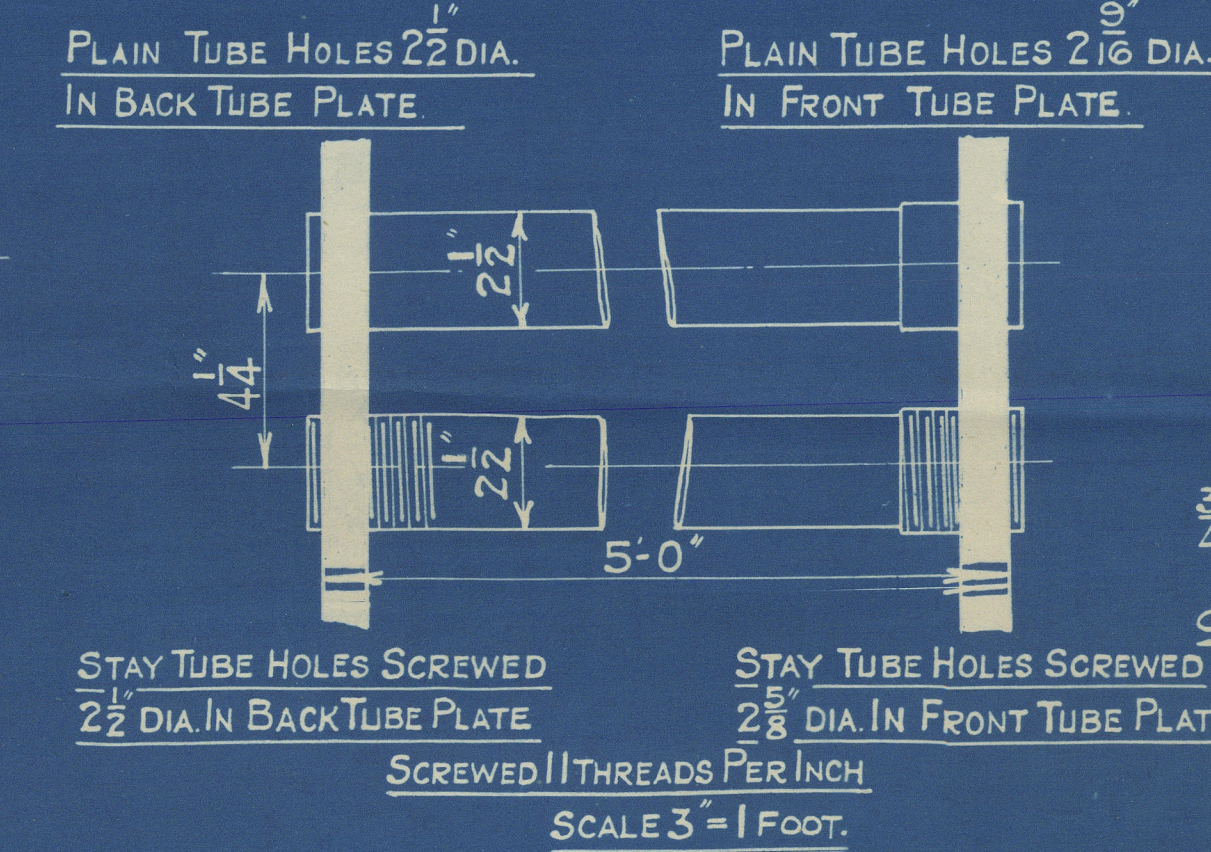
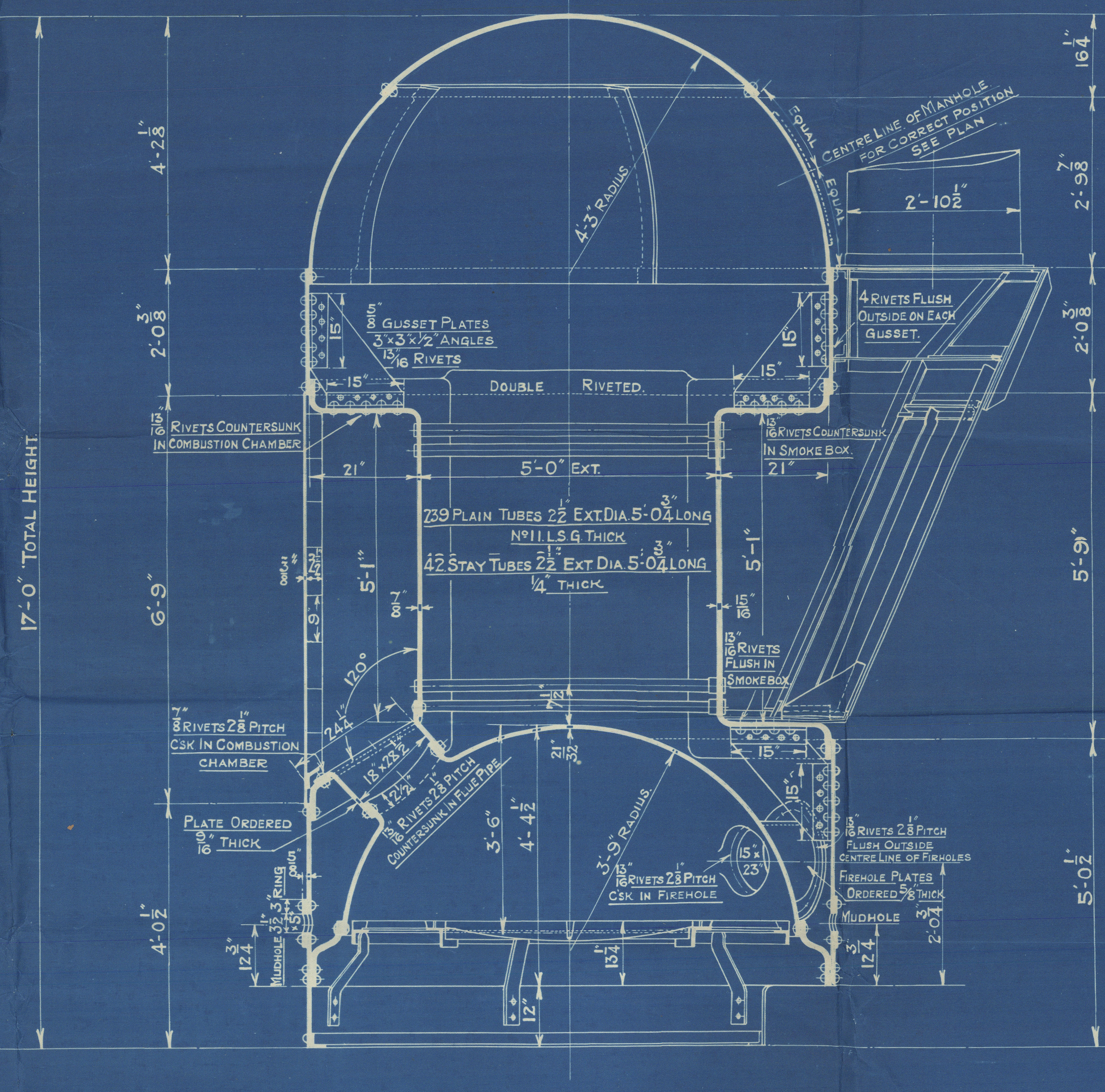
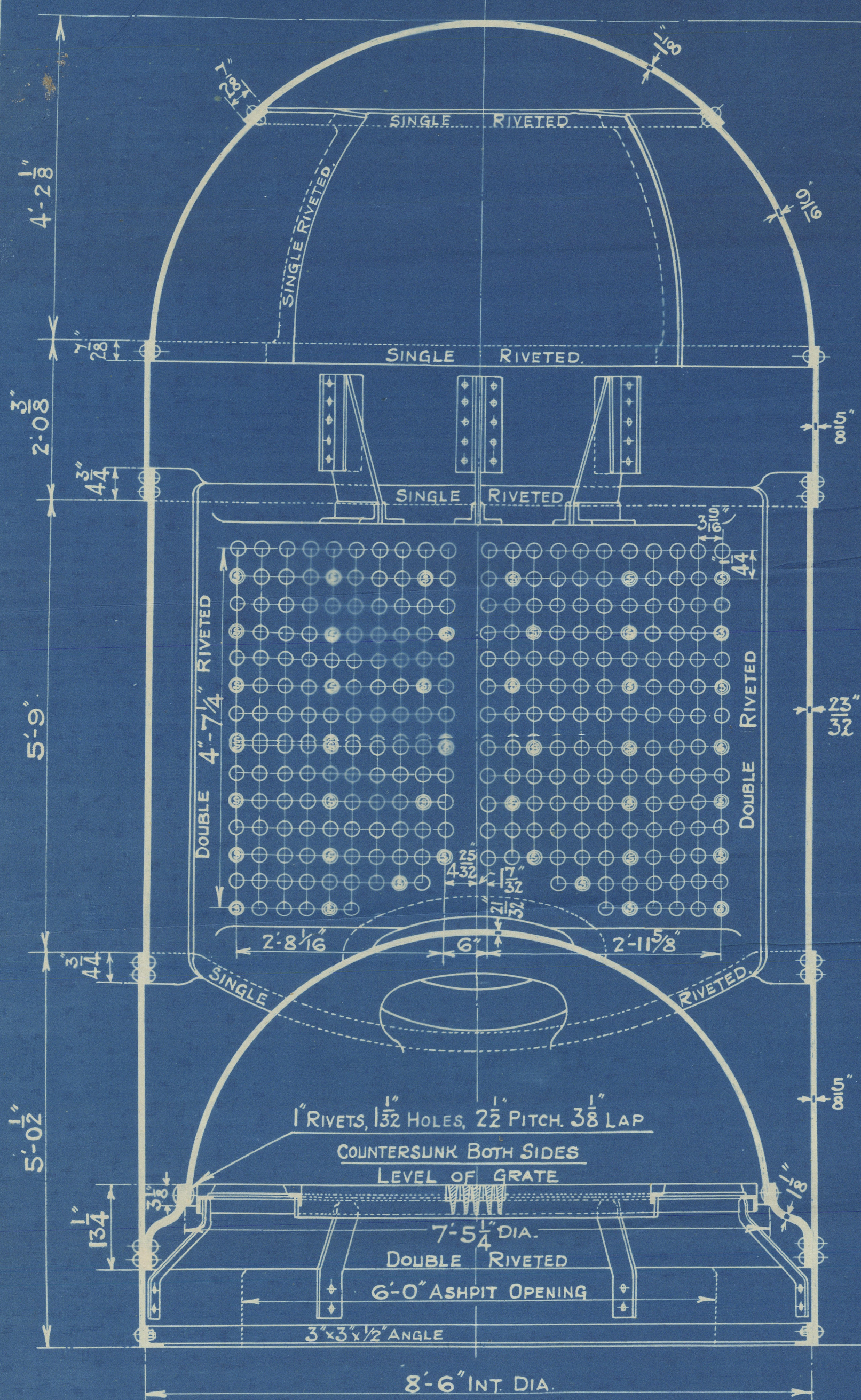
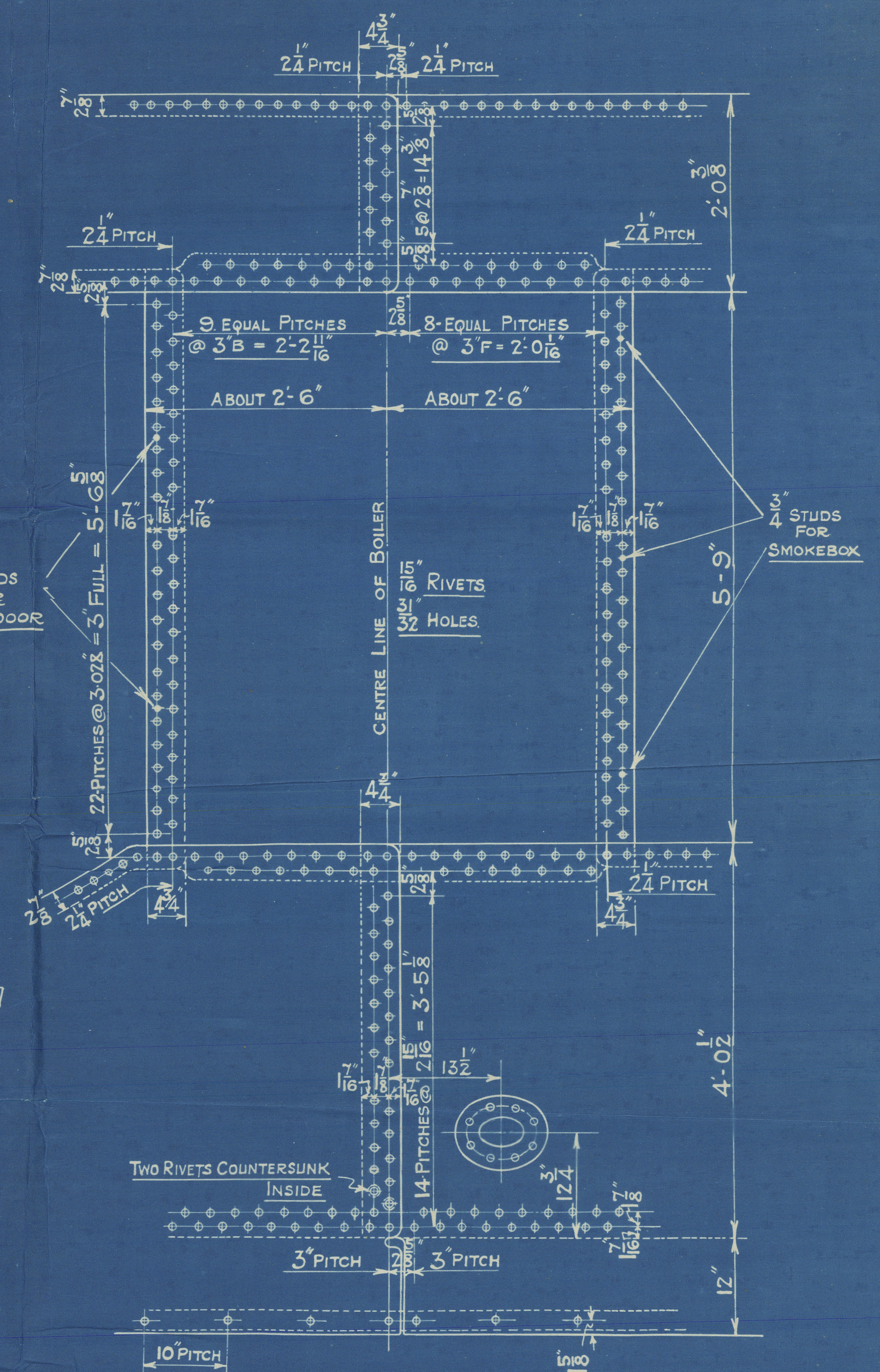
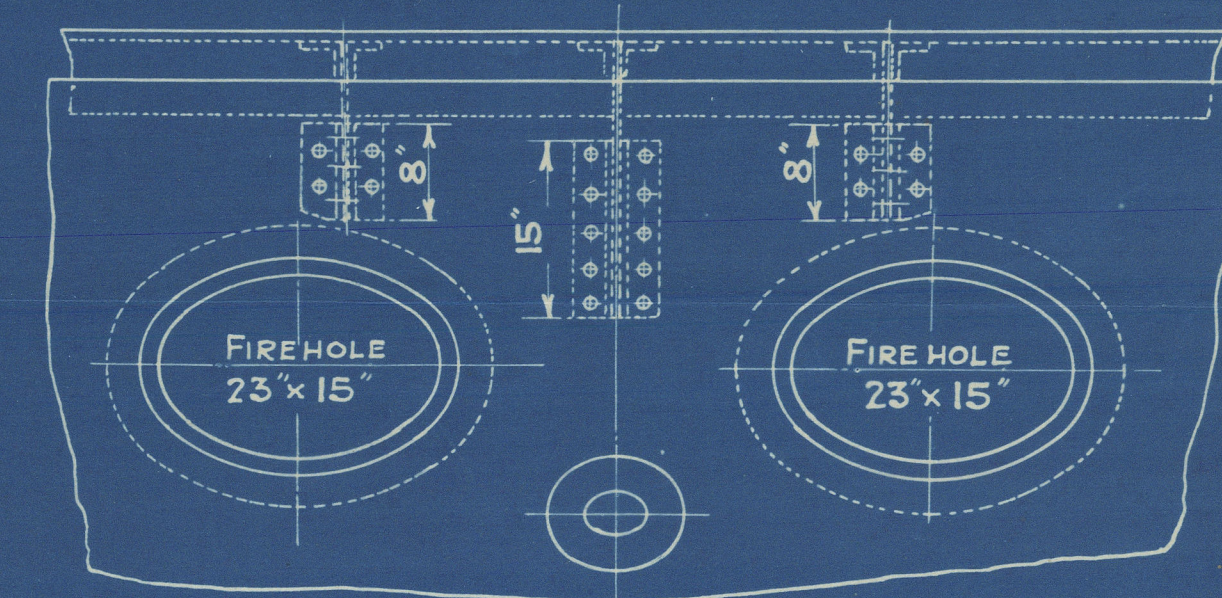


# COCHRAN PATENT VERTICAL MULTITUBULAR BOILER

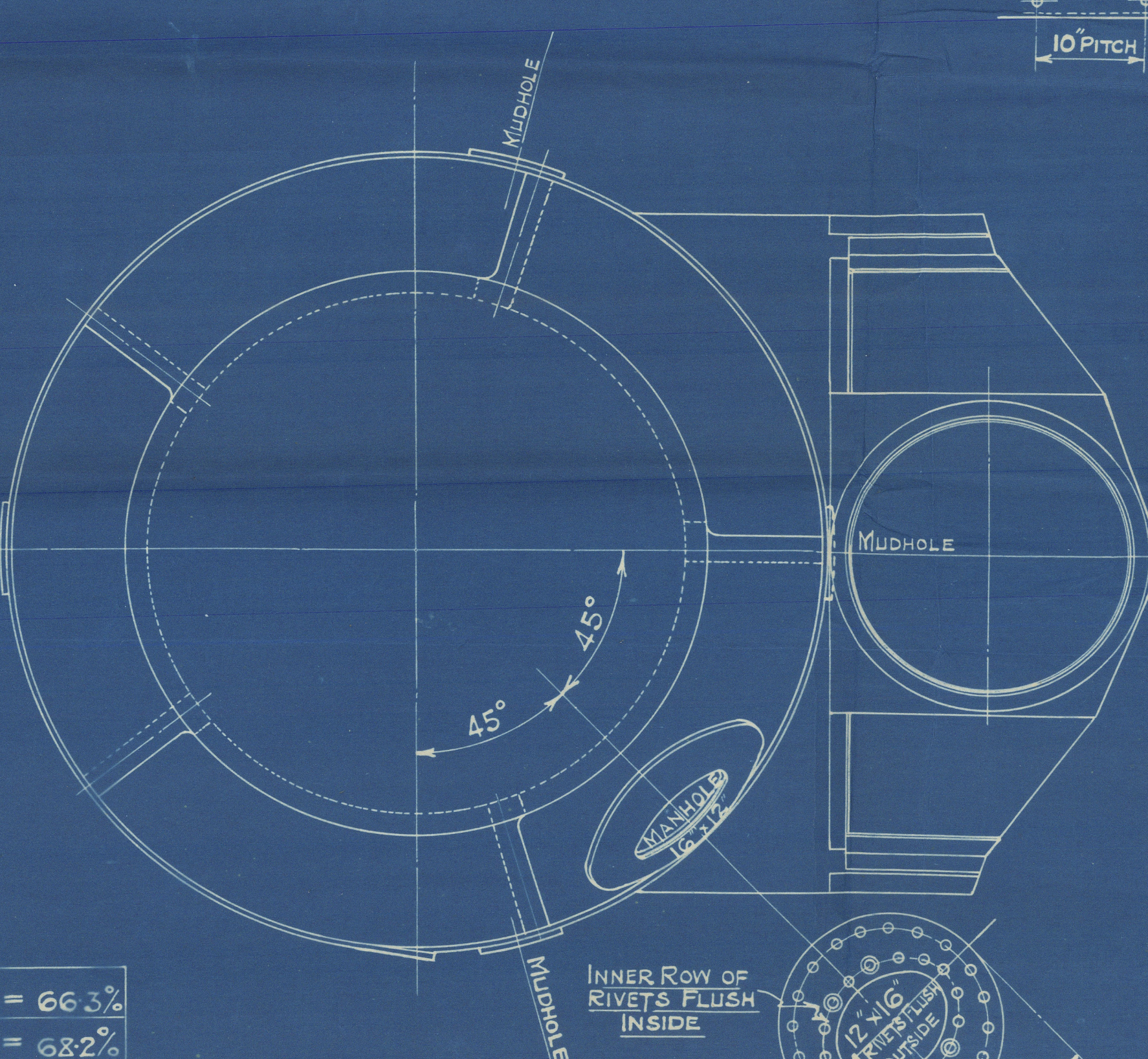
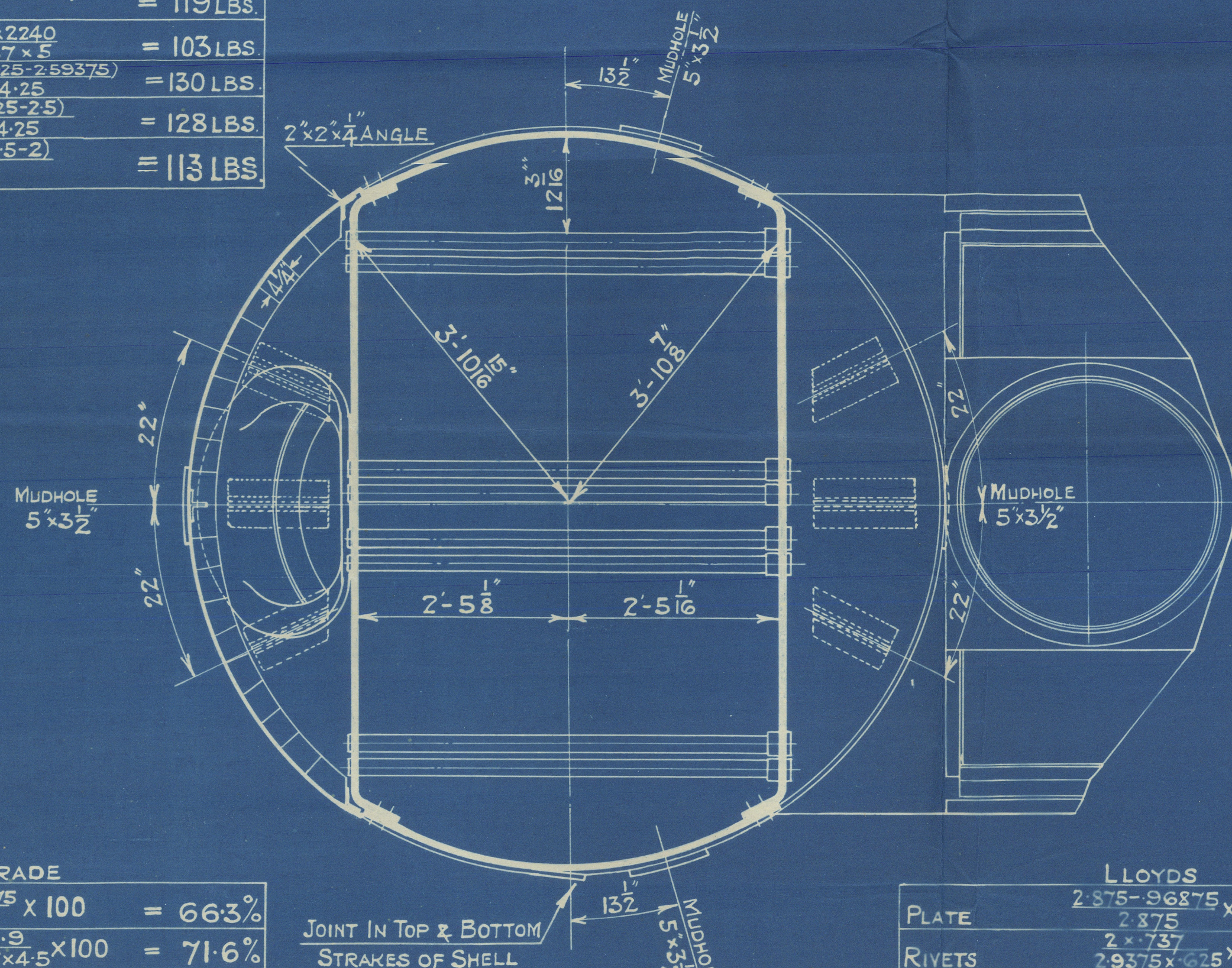
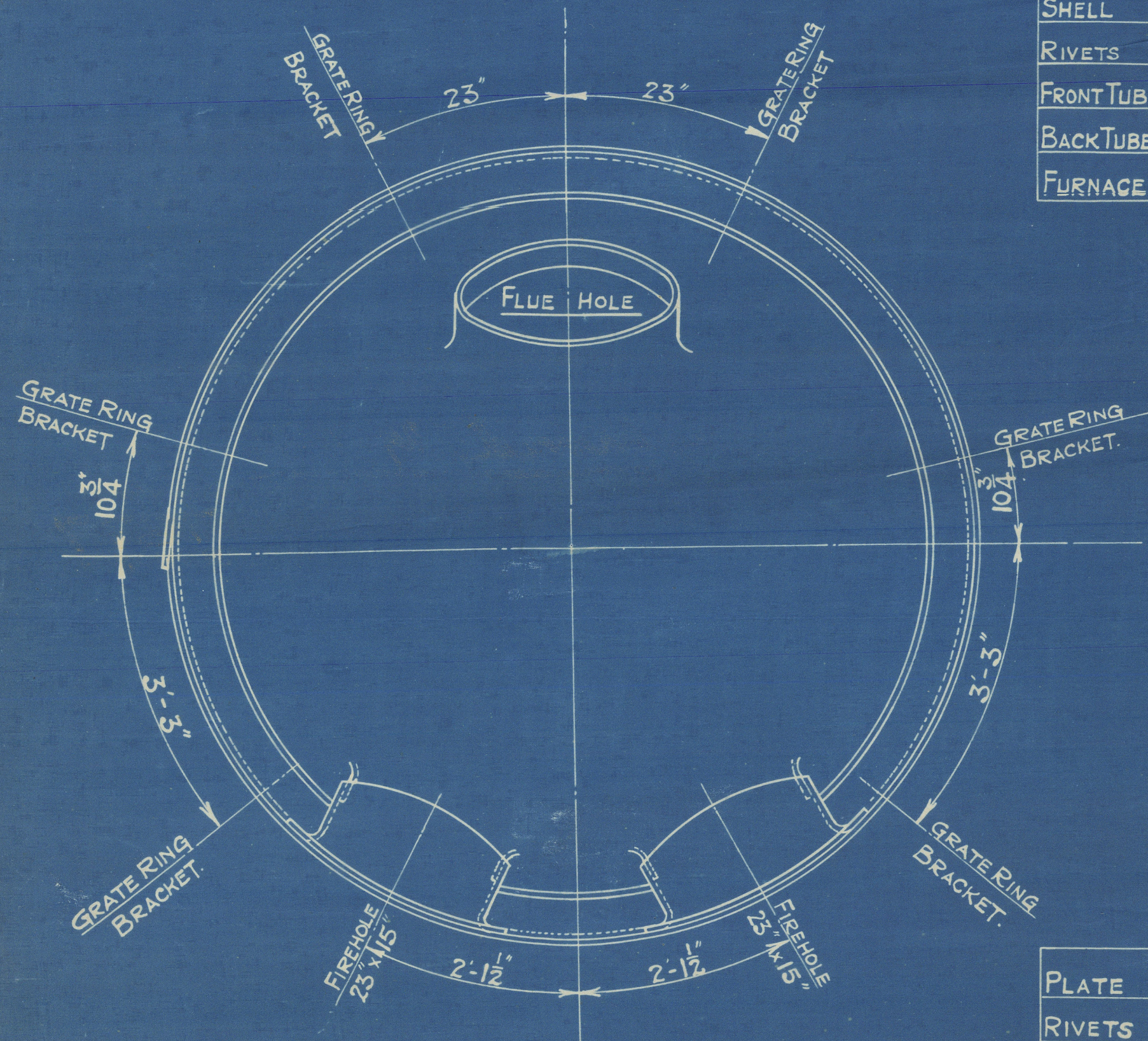
## HORIZONTAL FLUE TUBES.



HEATING SURFACE	
TUBES	888 SQ. FT.
PLATE	112 SQ. FT.
TOTAL	1000 SQ. FT.
GRATE AREA	41 SQ. FT.



BUREAU VERITAS		
SHELL	31400 x 66 (625 x .04)	= 119 LBS.
RIVETS	2 (2 x 7/32) 24 x 2240	= 103 LBS.
FRONT TUBE PLATE	10400 x 9375 (425 x 259375)	= 130 LBS.
BACK TUBE PLATE	10400 x 875 (425 x 25)	= 128 LBS.
FURNACE	29 03125 x 4.25	= 113 LBS.



BOARD OF TRADE		
PLATE	2875 x 96875 x 100	= 66.3%
RIVETS	23 x 7/32 x 2 x 4.9	= 71.6%
FRONT TUBE PLATE	28 x 29375 x 625 x 4.5 x 100	= 38.9%
BACK TUBE PLATE	4.25 x 259375 x 100	= 41.2%
SHELL	28 x 2240 x 66 x 2 x 625	= 104 LBS.
FRONT TUBE PLATE	4.9 x 102 x 100	= 163 LBS.
BACK TUBE PLATE	26 x 2240 x 412 x 875	= 160 LBS.
FURNACE	29 03125 x 4.5 x 100	= 102.9 LBS.

LLOYDS		
PLATE	2875 x 96875 x 100	= 66.3%
RIVETS	23 x 7/32 x 2 x 4.9	= 71.6%
FRONT TUBE PLATE	28 x 29375 x 625 x 4.5 x 100	= 38.9%
BACK TUBE PLATE	4.25 x 259375 x 100	= 41.2%
SHELL	28 x 2240 x 66 x 2 x 625	= 104 LBS.
FRONT TUBE PLATE	4.9 x 102 x 100	= 163 LBS.
BACK TUBE PLATE	26 x 2240 x 412 x 875	= 160 LBS.
FURNACE	29 03125 x 4.5 x 100	= 102.9 LBS.

approved 29-11-16  
**PATENT BOILER N° 7677**  
**8'-6" x 17'-0" x 10000<sup>HS</sup> x 100 LBS.**

SCALE 3/4" INCH TO 1 FOOT  
 SIEMENS MARTIN MILD STEEL PLATES  
 PLATES NOT EXPOSED TO FLAME OR FLANGED..... 28 TO 32 TONS.  
 PLATES EXPOSED TO FLAME OR FLANGED EXCEPT FURNACE CR'N. 26 TO 30 TONS.  
 FURNACE CROWN..... 26 TO 29 TONS.

**COCHRAN & CO ANNAN LTD.**  
**ENGINEERS & BOILERMAKERS**  
**ANNAN, SCOTLAND.**

**DRAWING N° 11125.**

**STANDARD.**  
**SURVEY: LLOYDS.**



S/S War French  
Standard E Type.  
COCHRAN & CO., ANNAN, LD.

Boiler No. 7677

Drawing No. 11125

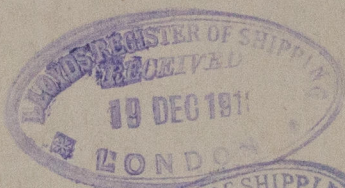
100 lbs per square inch

Approved London 28/11/16.

Mark on Boiler:-

Nº 14556  
LLOYD'S TEST.  
200 lbs  
P.M.C. 13/12/18

GLASGOW REPORT No. 38390.



W520-0200



© 2020

Lloyd's Register  
Foundation