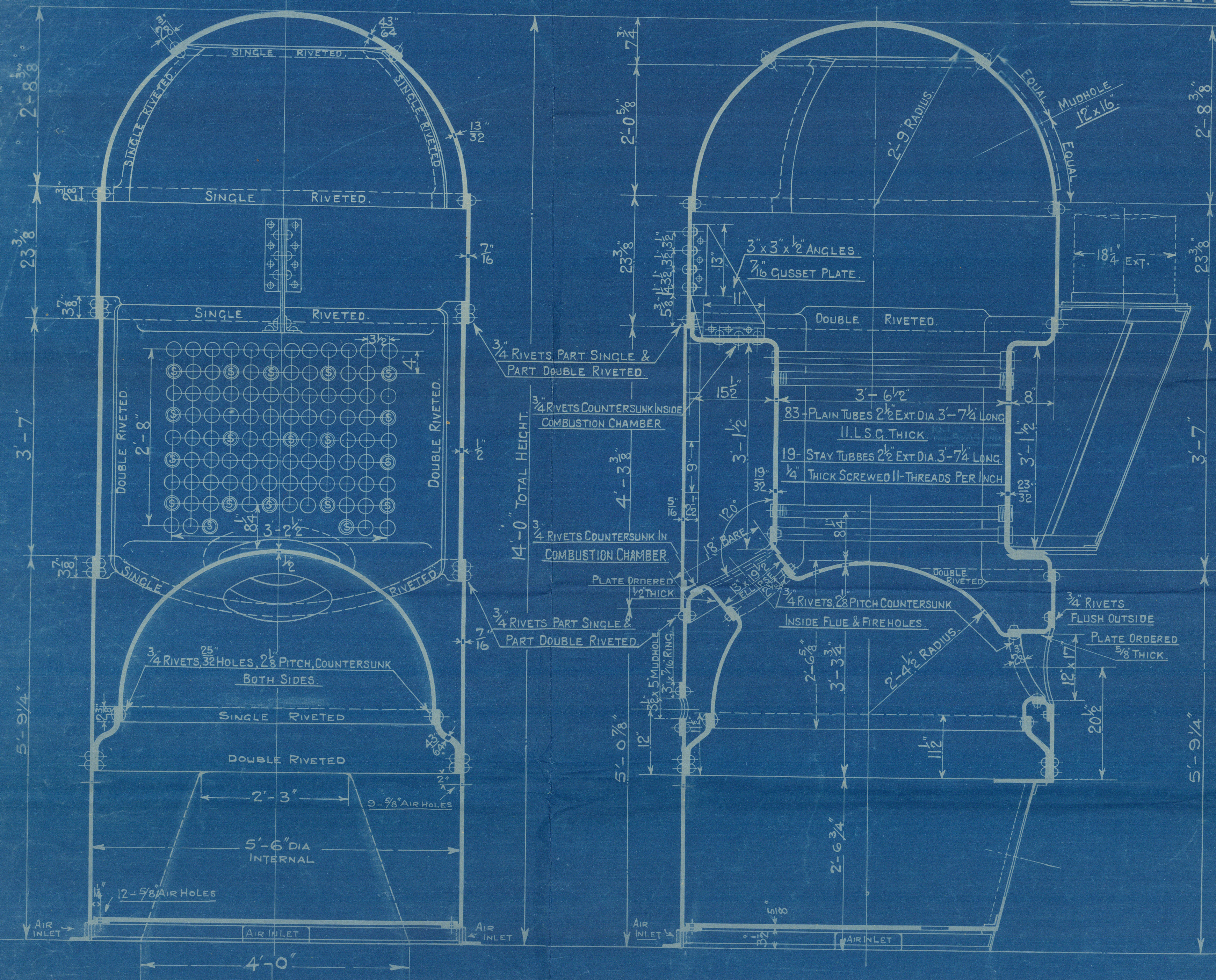


COCHRAN PATENT VERTICAL MULTITUBULAR BOILER.

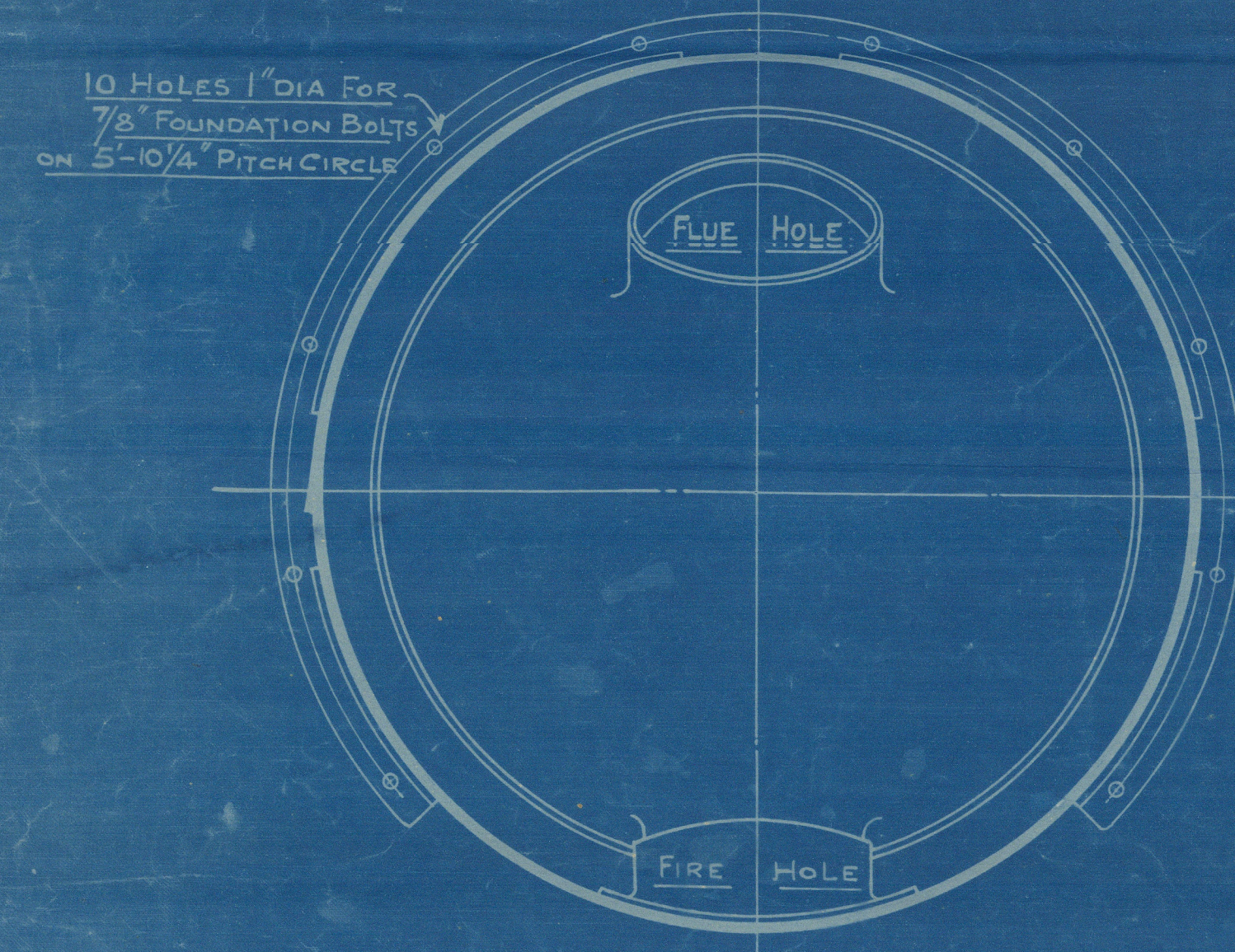
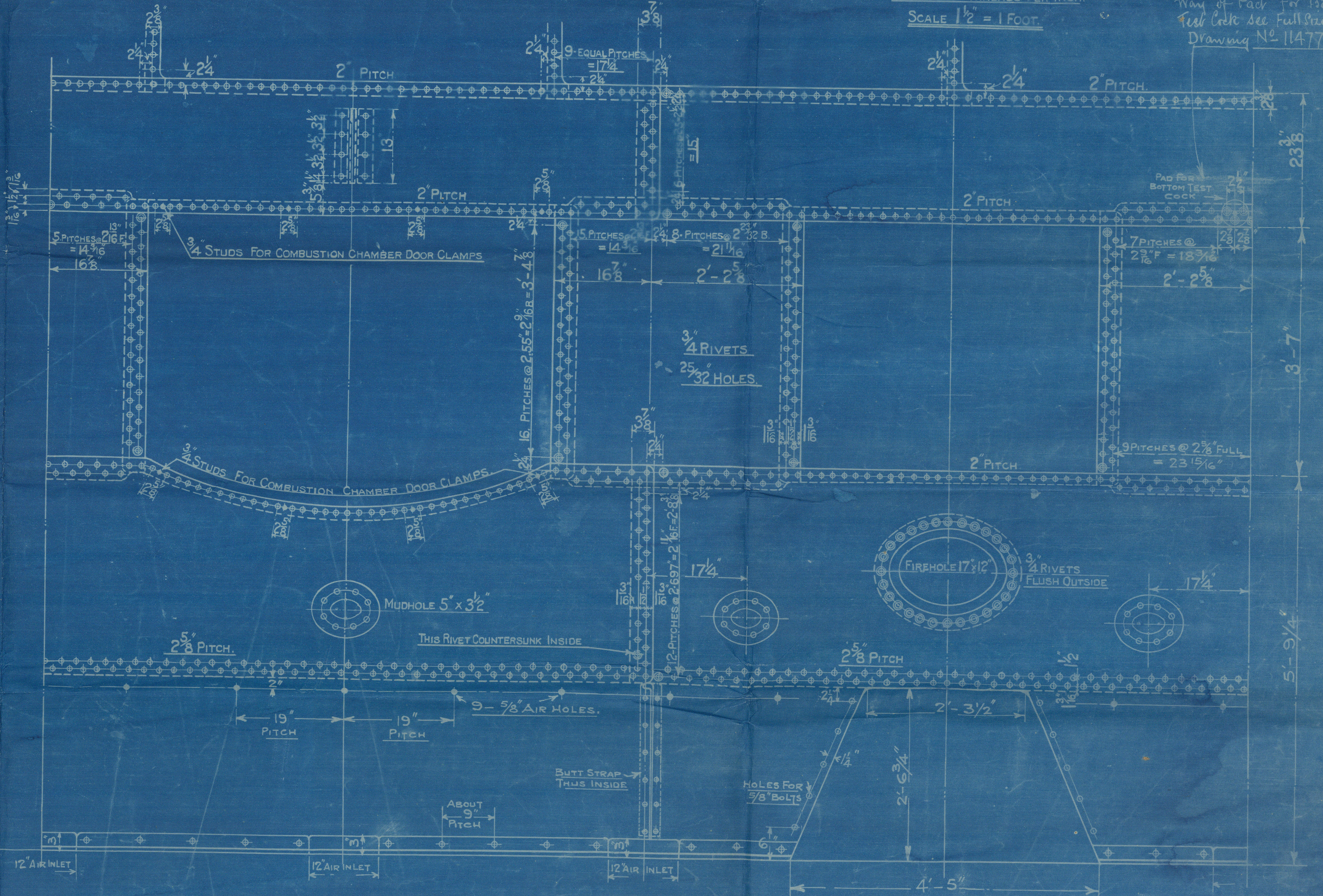
HORIZONTAL FLUE TUBES.



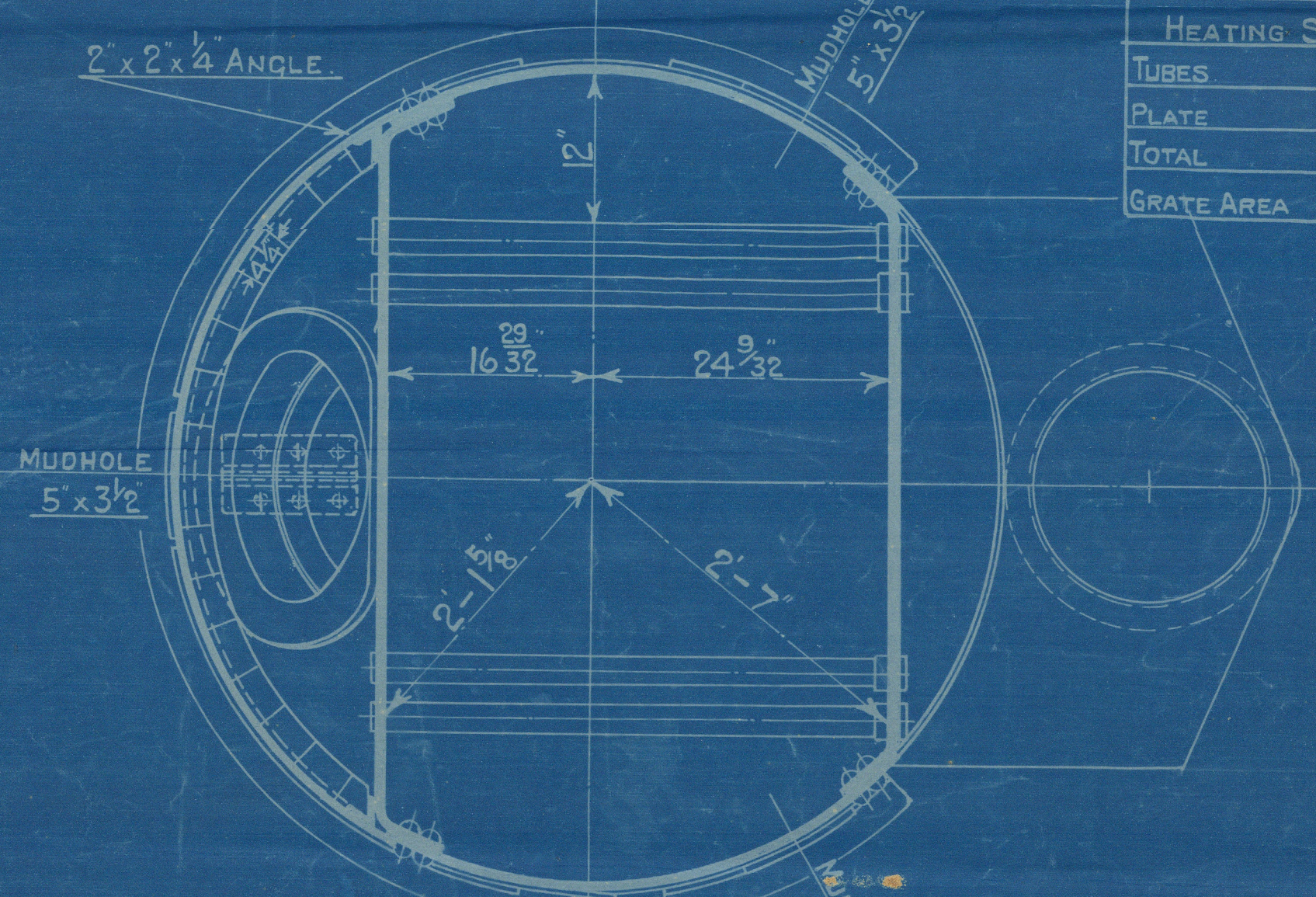
PLAIN TUBE HOLES 2 1/2 DIA. IN BACK TUBE PLATE
 PLAIN TUBE HOLES 2 3/4 DIA. IN FRONT TUBE PLATE



NOTE
 FOR Detail of Riveting in
 Way of Pack for Bottom
 Test Calk see Full Size Plan
 Drawing No. 11477

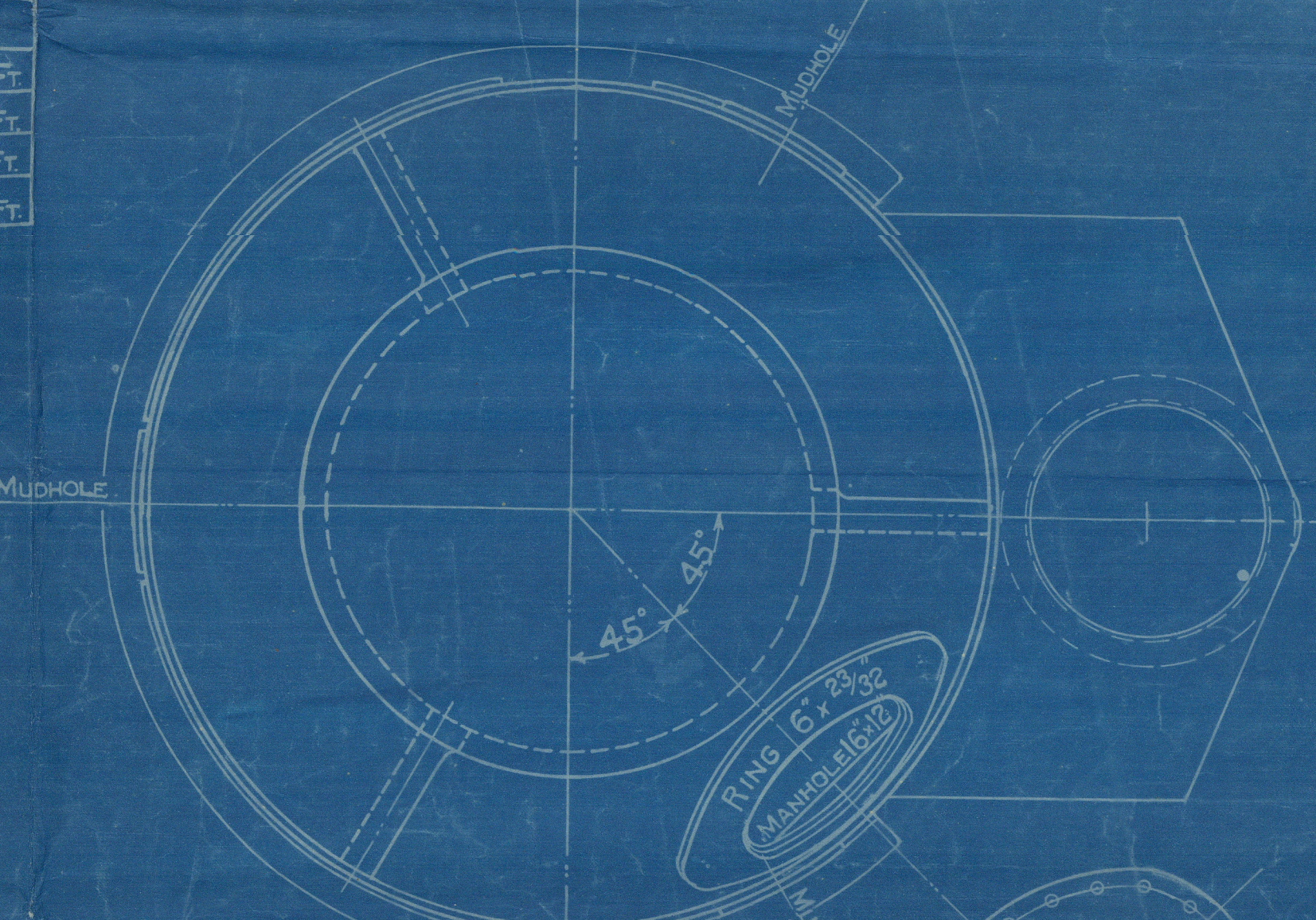


PLAN OF FURNACE CROWN.



JOINT IN TOP & BOTTOM STRAKE OF SHELL

HEATING SURFACE	
TUBES	230 Sq. Ft.
PLATE	70 Sq. Ft.
TOTAL	300 Sq. Ft.
GRATE AREA	16.75 Sq. Ft.



PLAN OF SHELL CROWN JOINTS

LLOYDS	
PLATE	25-78125 x 100 = 68.7%
RIVETS	2 x 4793 x 85 = 69 %
FRONT TUBE PLATE	4 x 25 x 100 = 35.1%
BACK TUBE PLATE	4 x 25 x 100 = 37.5%
SHELL	20.5 (115-2) 35 x 28 = 102.4 LBS.
FRONT TUBE PLATE	20.5 (115-2) 37.5 x 28 = 104.4 LBS.
BACK TUBE PLATE	20.5 (115-2) 37.5 x 28 = 104.4 LBS.
FURNACE CROWN	1250 x (8-2) = 1315 LBS.

8472	80.6035
8473	80.6045
8474	80.6055

PATENT BOILER No. 752-7652
 5'-6" x 14'-0" x 300 # x 100 LBS.

SCALE 1 INCH TO 1 FOOT.

SIEMENS MARTIN MILD STEEL PLATES

TENSILE TESTS

PLATES NOT EXPOSED TO FLAME OR FLANGED 28 TO 32 TONS
 PLATES EXPOSED TO FLAME OR FLANGED EXCEPT FCE CROWN 26 TO 30 TONS
 FURNACE CROWN 26 TO 29 TONS

DRAWING No. 11541

SURVEY LLOYDS

COCHRAN & CO ANNAN LD.
 ENGINEERS & BOILERMAKERS
 ANNAN, SCOTLAND.

Lloyd's Register Foundation

COCHRAN & CO. ANNAN, L.D.

Boiler No. 8473

Drawing No. 11541

100 lbs per sq inch

Mark in boiler

No 15806
Lloyds List
200 lbs
HP. 100 lbs
P.M.C.G. 29/4/21

GLASGOW REPORT No. 41044

"Mattausin"

"Ediba"

Geo 42668.



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W103 Foundation