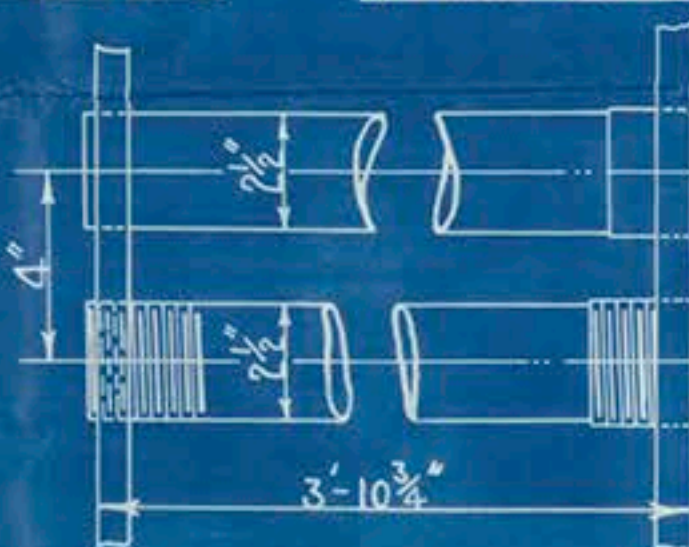
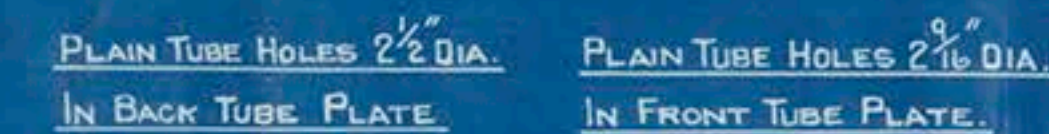


HORIZONTAL FLUE TUBES.



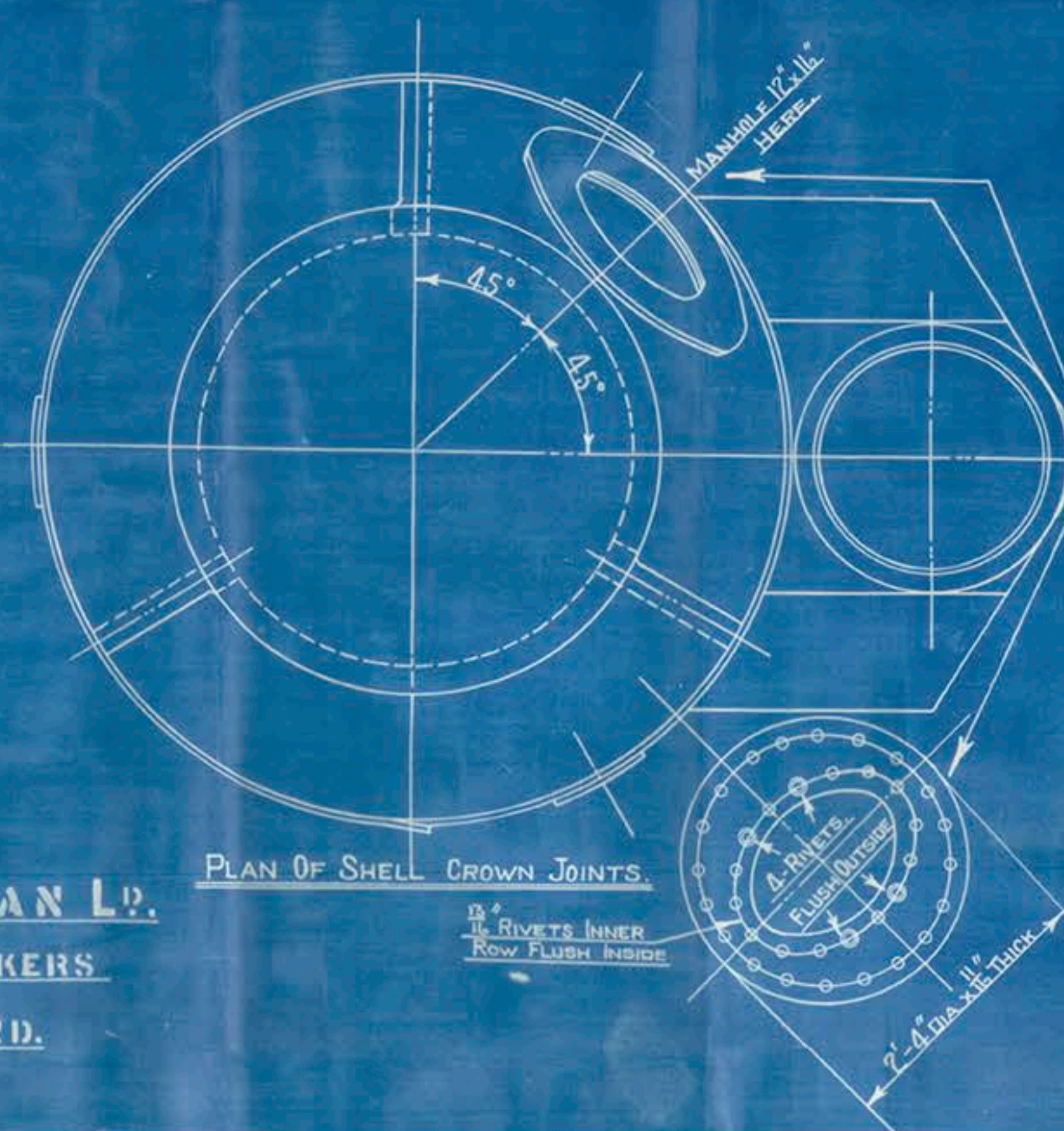
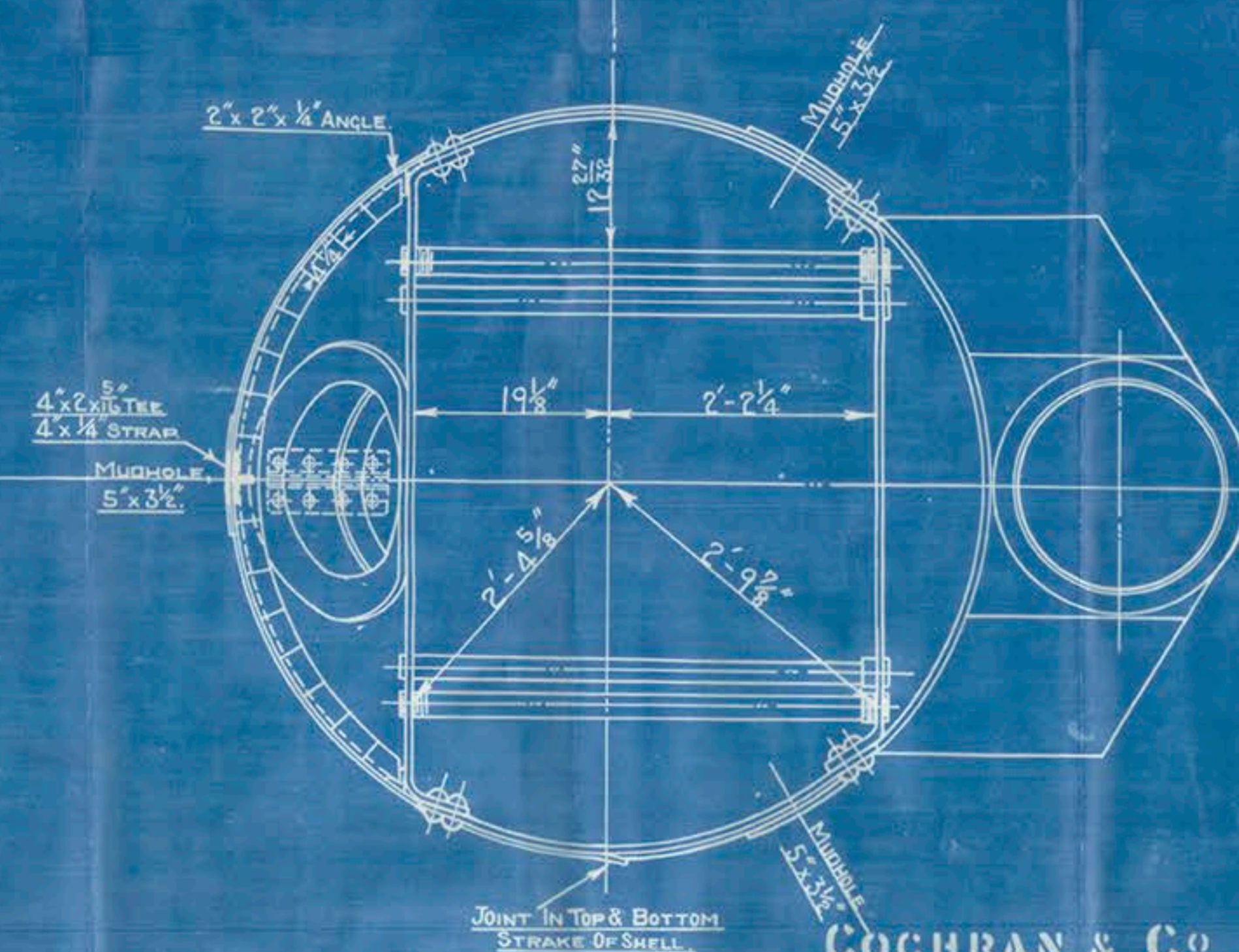
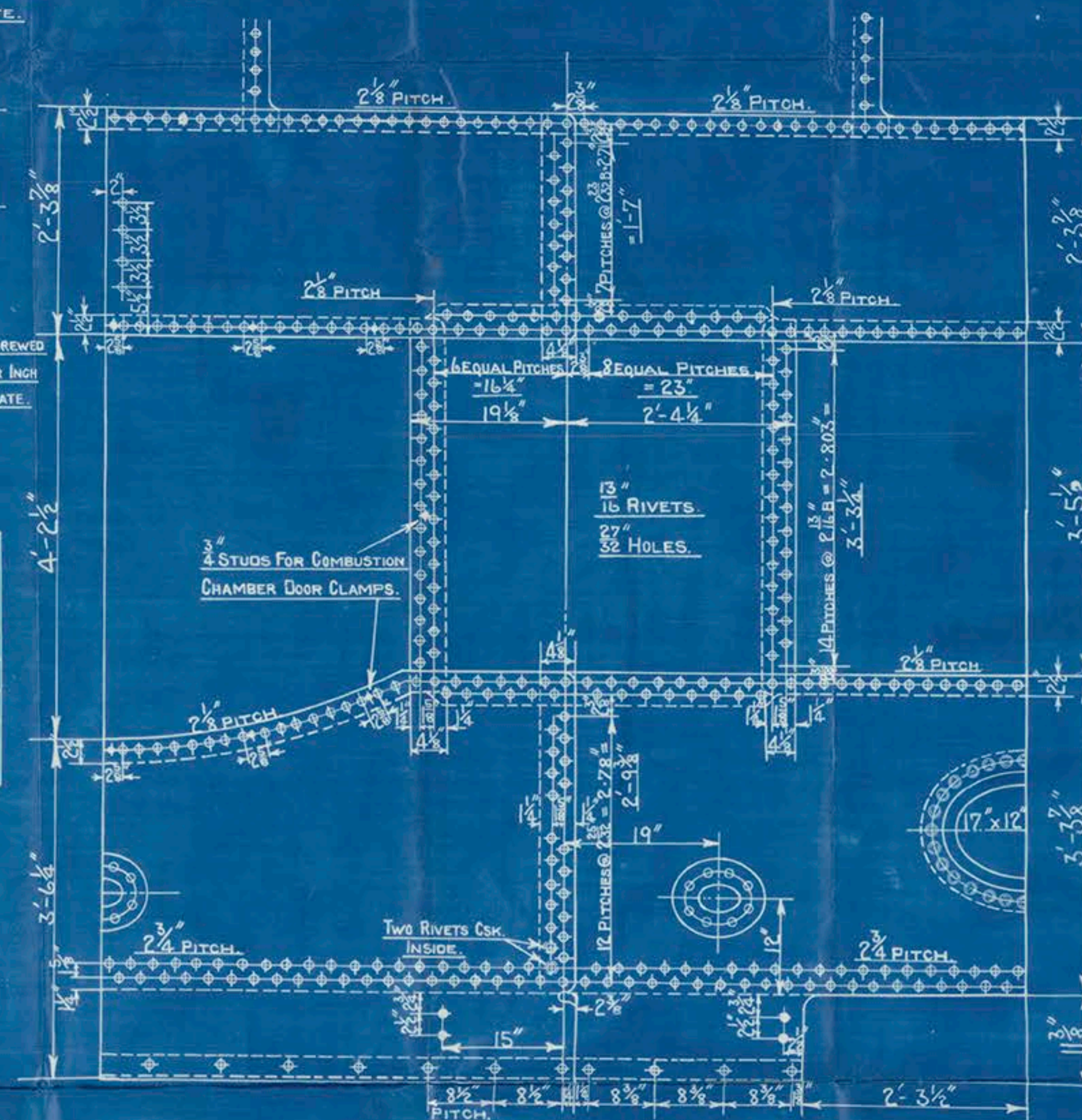
<p><u>STAY TUBE HOLES SCREWED</u> <u>2 1/2" DIA. 11 THREADS PER INCH</u> <u>IN BACK TUBE PLATE.</u></p>	<p><u>STAY TUBE HOLES SCREWED</u> <u>2 5/8" DIA. 11 THREADS PER INCH</u> <u>IN BACK TUBE PLATE.</u></p>
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SCALE 3" = 1 FOOT.

LLOYDS.

PLATE.	$\frac{2-71}{2-71} \times 100$	= 68.8%
RIVETS.	$\frac{2 \times .5591 \times 885}{2 \times 85 \times .46475}$	= 72.3%
FRONT TUBE PLATE	$\frac{4-2-50375}{4}$	x 100 = 35.2%
BACK TUBE PLATE.	$\frac{4}{4} \times 100$	= 37.5%
SHELL	$\frac{20.5 (7.5-2) 18.8}{72}$	= 107 LBS.
FRONT TUBE PLATE	$\frac{20.5 (17-2) 35.2 \times \frac{56}{28}}{56}$	= 99.1 LBS
BACK TUBE PLATE	$\frac{20.5 (10-2) 37.5 \times \frac{56}{28}}{56}$	= 99.8 LBS
FURNACE	$\frac{12000 \times .5}{57.25}$	= 107 LBS.

HEATING SURFACE.	
TUBES	273 Sq. Ft.
PLATE	77 "
TOTAL	350 "
GRATE AREA.	18.7 "


$$\underline{\underline{6'-0" \times 13'-0" \times 350 \text{#} \times 100 \text{ LBS.}}}$$

SCALE 1 INCH = 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 FOR CROWN-----	26 TO 30 TONS
FURNACE CROWN-----	26 TO 29 TONS

COCHRAN & CO ANNAN LD.

ENGINEERS & BOILERMAKERS

ANNAN, SCOTLAND.

SURVEY:- LLOYDS.

Drawing No 4530
Same as " 4295
with the exception
that it is reduced
in height 6"

Cochran & Co's American
Boiler

6'0" x 13'0" - 100 lb

No 4865

S.S. Silurian

Glasgow Report

No 27568.



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Foundation

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