

SURFACES	ONE BOILER
TUBES	1500
FIREBOX TOP AND SIDES	133
BACK	79
TUBE PLATE	51
FURNACES	143
TOTAL HEATING SURFACE	1905
CRATE AREA (5" x 6" BARS)	56.5
TUBE AREA	11.12
WATER	135
STEAM SPACE	386
CRATE AREA HEATING SURFACE	1:33.7
TUBE	1:26.5
AREA	5:07.1
WATER	1:23.9
STEAM SPACE	1:6.8
% BOILER ABOVE FIREBOX	32.2
WEIGHT OF WATER	21 1/2 TONS

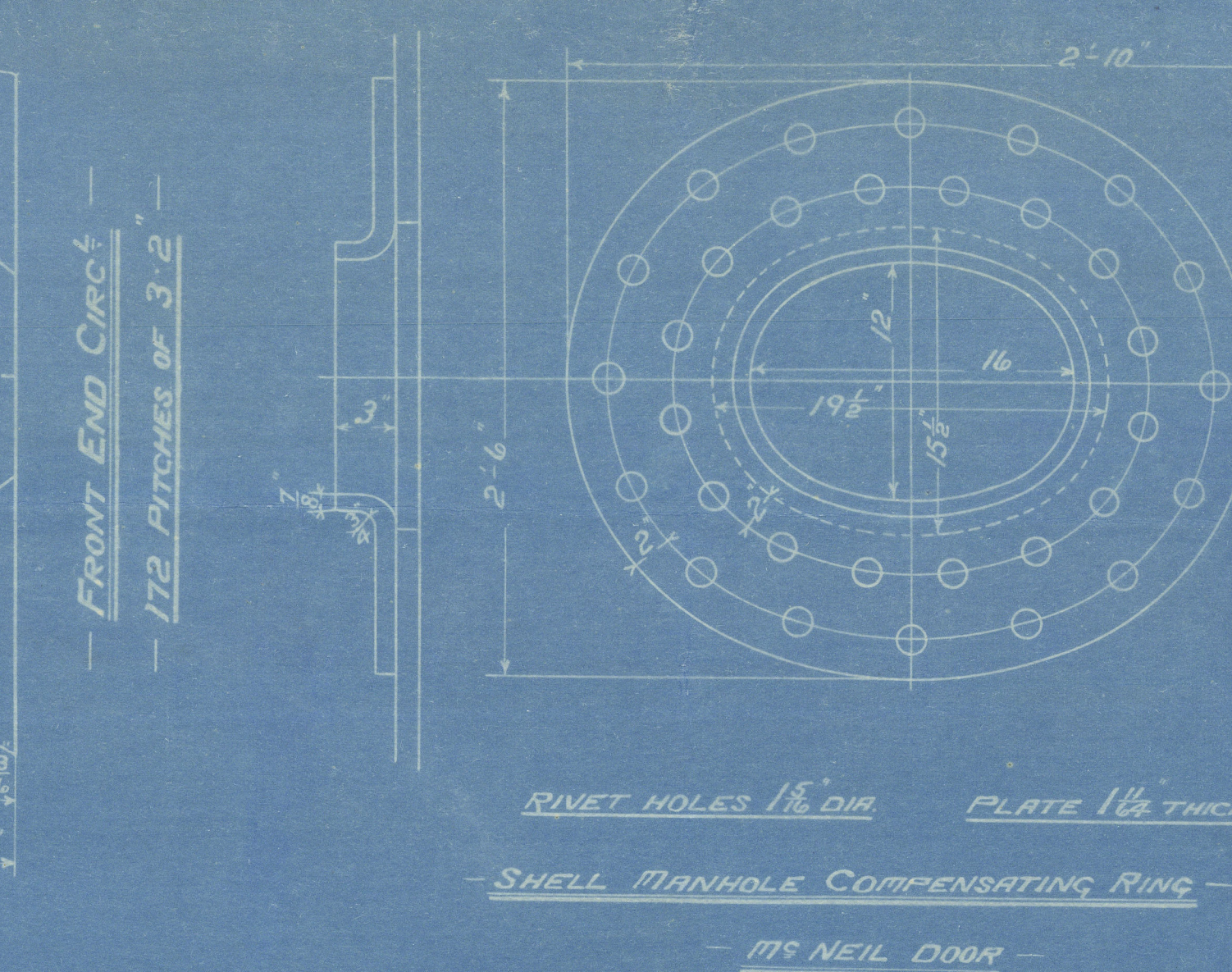
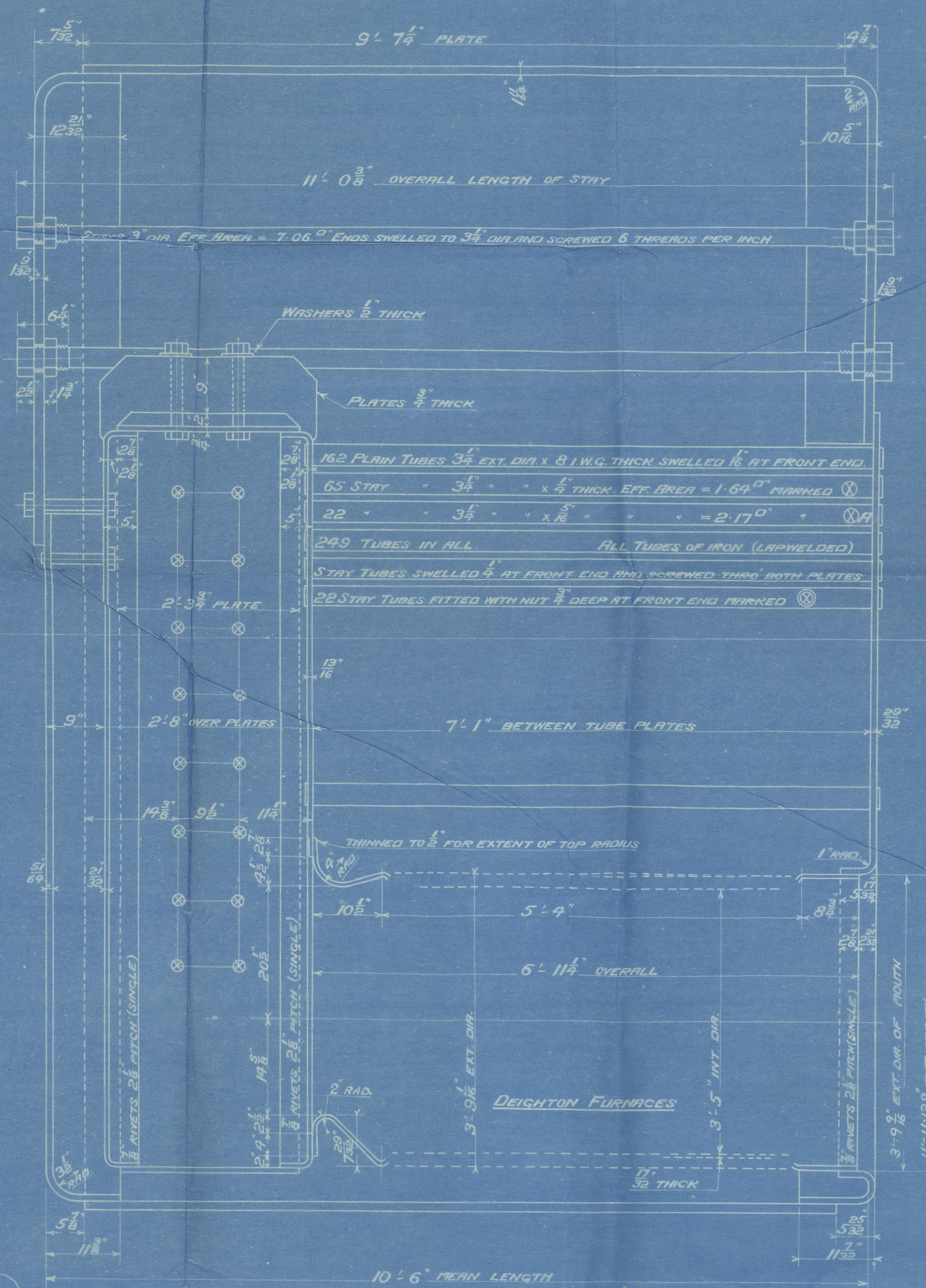
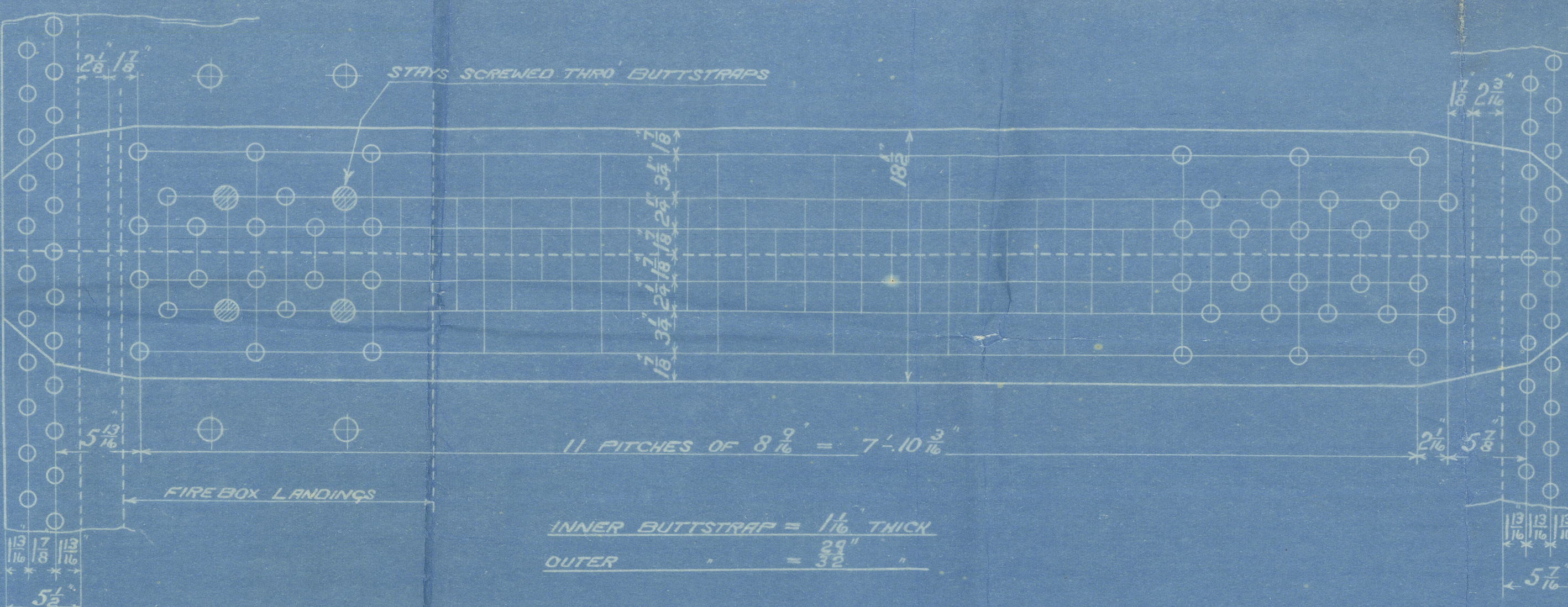
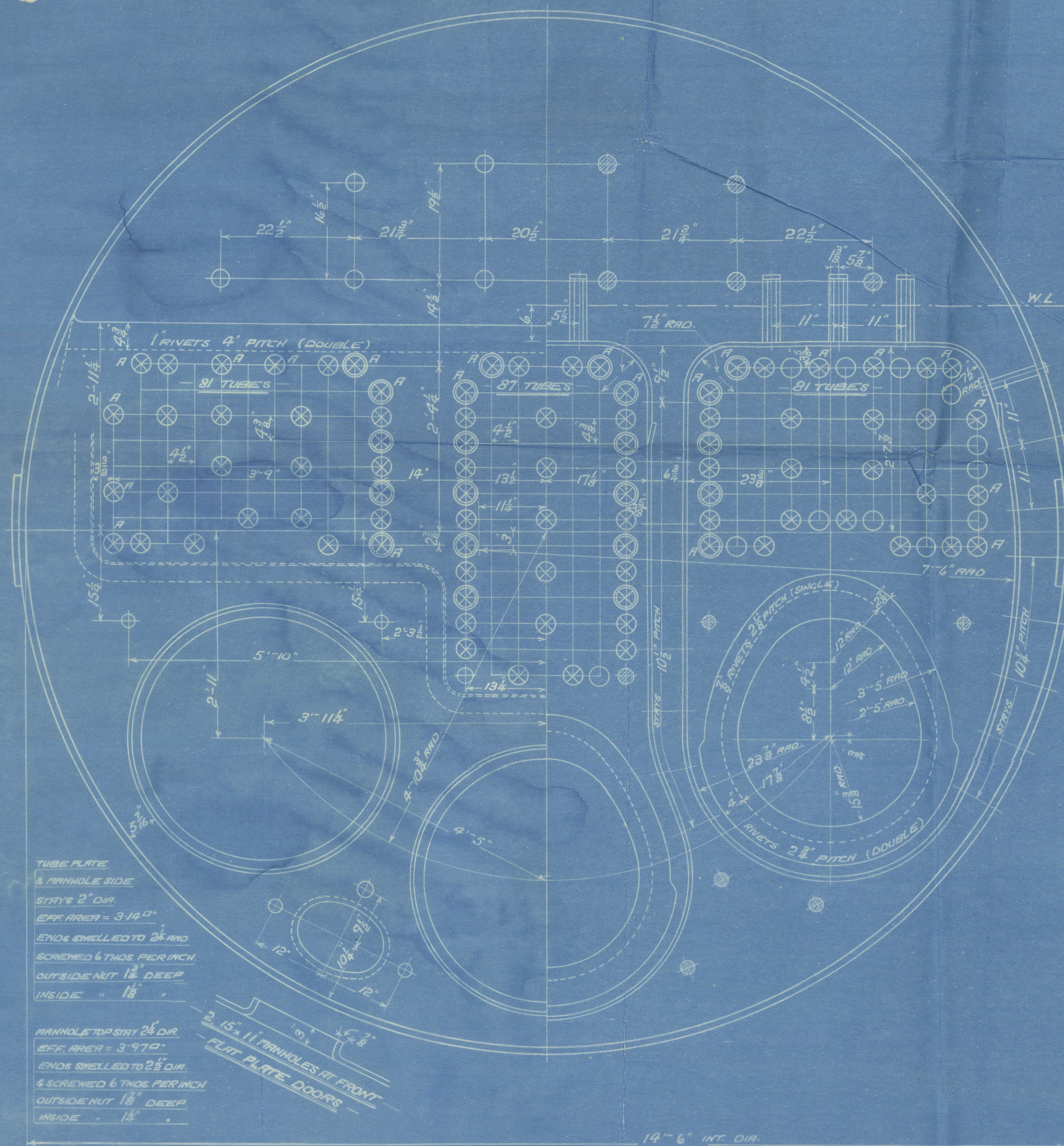
RIVETING	LONG	BACK END CIRC.	FRONT END CIRC.
RIVET HOLE DIA.	1 1/8"	1 1/8"	1 1/8"
PITCH	8-5/8"	3-3/4"	3-2"
% PLATE	85.4	64.2	62.8
% RIVET	50.5	48.6	50.2

LIMITS OF TENSILE STRENGTH AND MATERIAL	
SHELL, BUTTSTRIPS AND GIRDERS	28-36 32 TONS
OTHER PLATES	26-30
FURNACES	26-30
MAIN STAYS	28-32
SCREWED STAYS	26-30
RIVET BARS	26-30

21/11/13

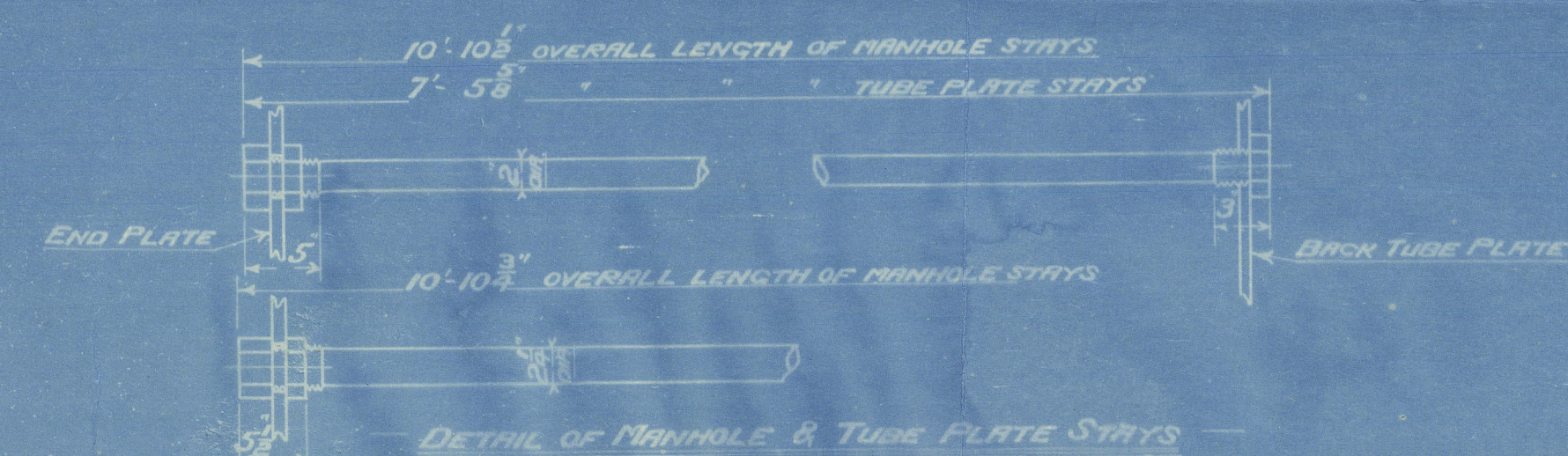
HEATING SURFACE CALCULATED TO LEVEL OF FIREBARS.

ALL RIVET HOLES DRILLED IN PLACE
MAIN STAYS SWELLED AT ENDS BY
HYDRAULIC PRESSURE & ANNEALED.



POSITION	MARK	DIA.	EFF. AREA
BACK	○	1 1/8"	1.76 sq. in.
TOP SIDES, BACK WIDE SPACE	○	1 1/8"	2.07 sq. in.
BACK TOP ROW	○	1 1/8"	2.395 sq. in.
CORNERS	○	2"	2.75 sq. in.

ALL FIREBOX STAYS SCREWED THRO' BOTH PLATES & NUT FITTED AT EACH END EXCEPT STAYS FROM WING FIREBOX TO SHELL AND STAYS MARKED 'C' IN BACK BOTTOM END WHICH PROJECT 8" THRO' OUTER PLATES AND ARE CAULKED. ALL 1 1/8" & 1 1/2" NUTS 1" DEEP EXCEPT ON GIRDER TOPS WHERE THE OUTSIDE NUTS ARE 1 1/2" DEEP. ALL 1 1/8" NUTS 1 1/4" DEEP. ALL 2" " 1 1/2" "



DETAIL OF FURNACE & TUBE PLATE JOINT

MAIN BOILER
ONE OFF
B. 204

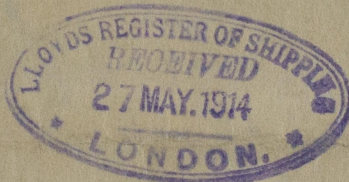
WORKING PRESSURE = 180 LBS PER SQ. INCH
TO PASS LLOYD'S SURVEY
SCALES, 1", 1 1/2" & 3" ONE FOOT

0.17884
REGISTERED
TRADED 14th NOV 1913

David Rowan & Co.

B. 204

Mr.
GLASGOW REPORT No. 33989.



Mr. Linda Mauche

Mr. E. W. Mauche
GLASGOW REPORT No. 34190



RETAIN



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Foundation

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