

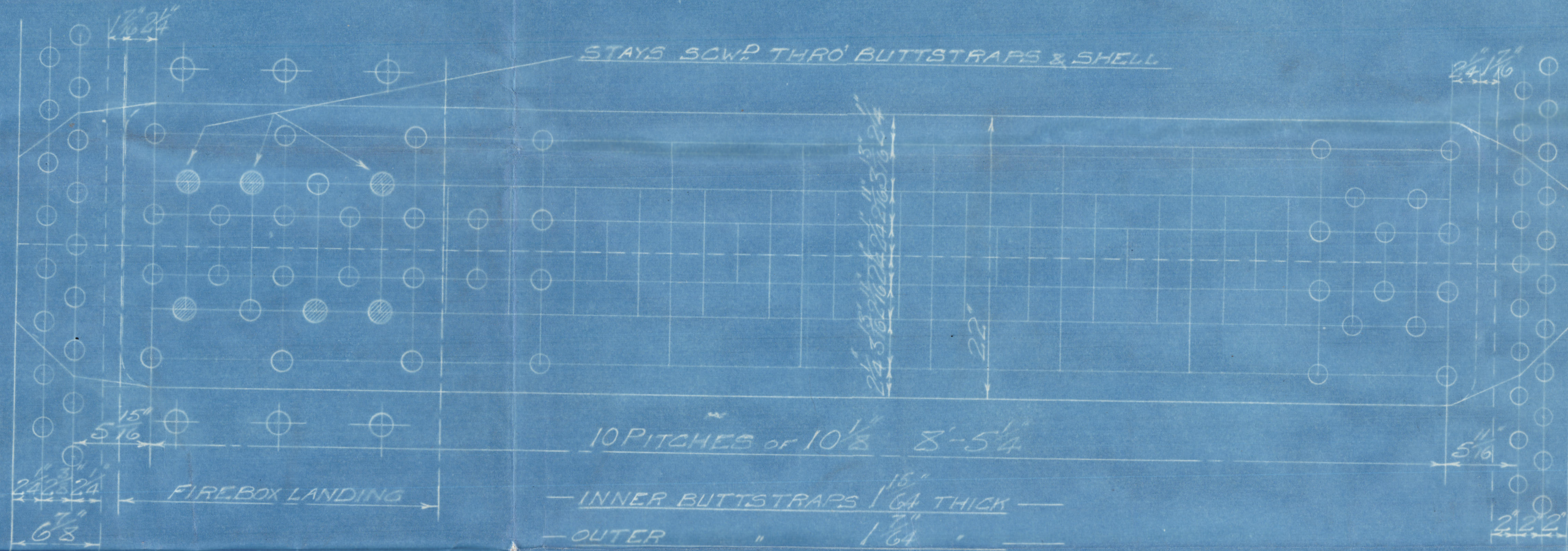
SURFACES	ONE-BOILER	3-BOILERS
TUBES	221.8	663.8
FIREBOX TOP AND SIDES	164	462
BACK	88	264
TUBEPLATE	60	180
FURNACE	154	462
TOTAL HEATING SURFACE	2667	3001
GRATE AREA (5 OARS)	57.5	172.5
TUBE AREA	1140	3420
WATER	157	471
STEAM SPACE	526.4	1578.4
GRATE AREA HEATING SURFACE	146.4	
TUBE	138.4	
AREA	500.1	
WATER	127.5	
STEAM SPACE	1191.5	
W. BOILER ABOVE FIREBOX	32.3	
WEIGHT OF WATER	27 TONS	81 TONS

RIVETING	LONG	BACK	FRONT
RIVET HOLE DIA	1 1/8	1 1/8	1 1/8
PITCH	10/12	11/13	3/38
% PLATE	85/15	64	61.5
% RIVET	92.4	49.1	45.8
% COMBINED	59.12		

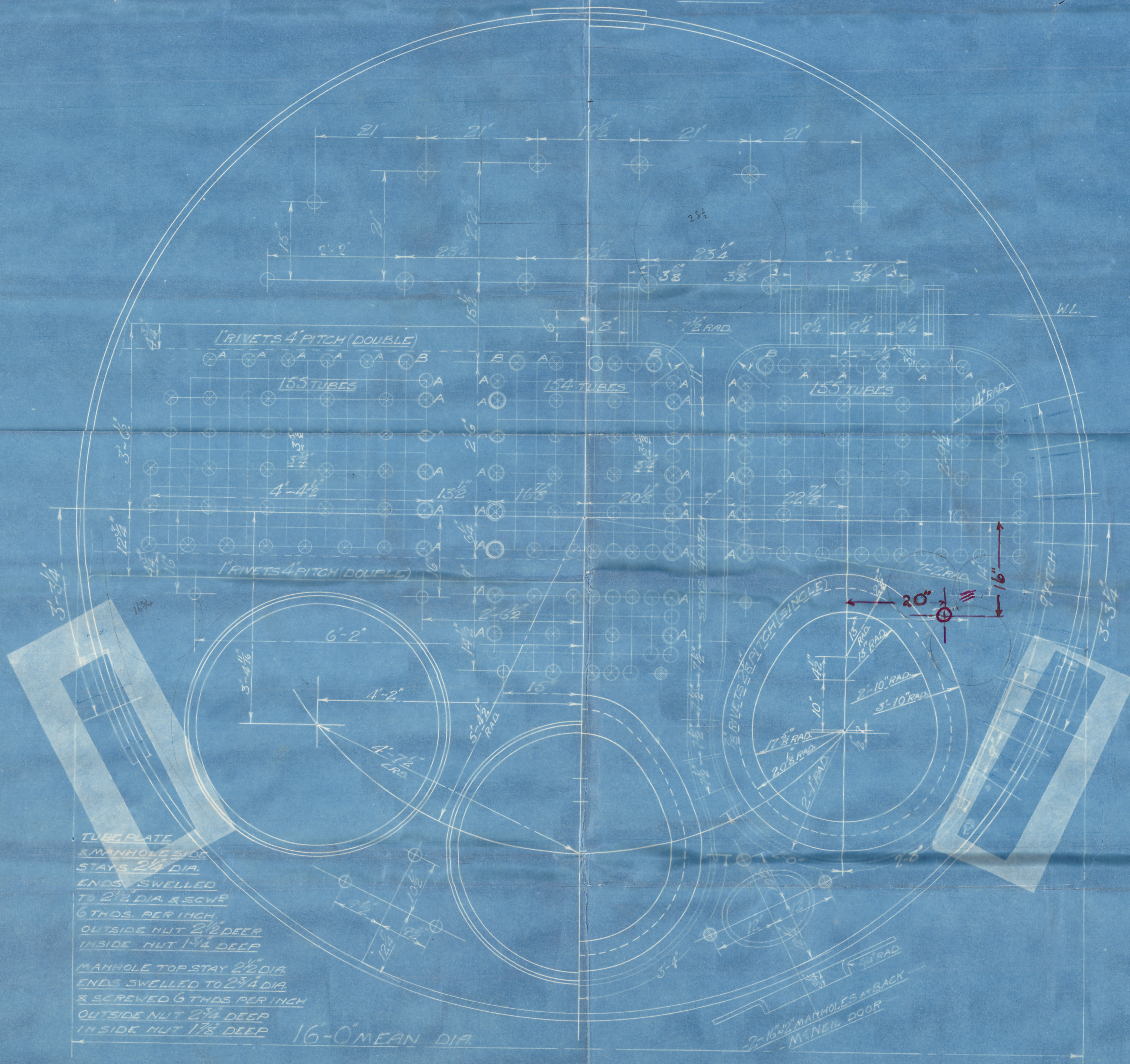
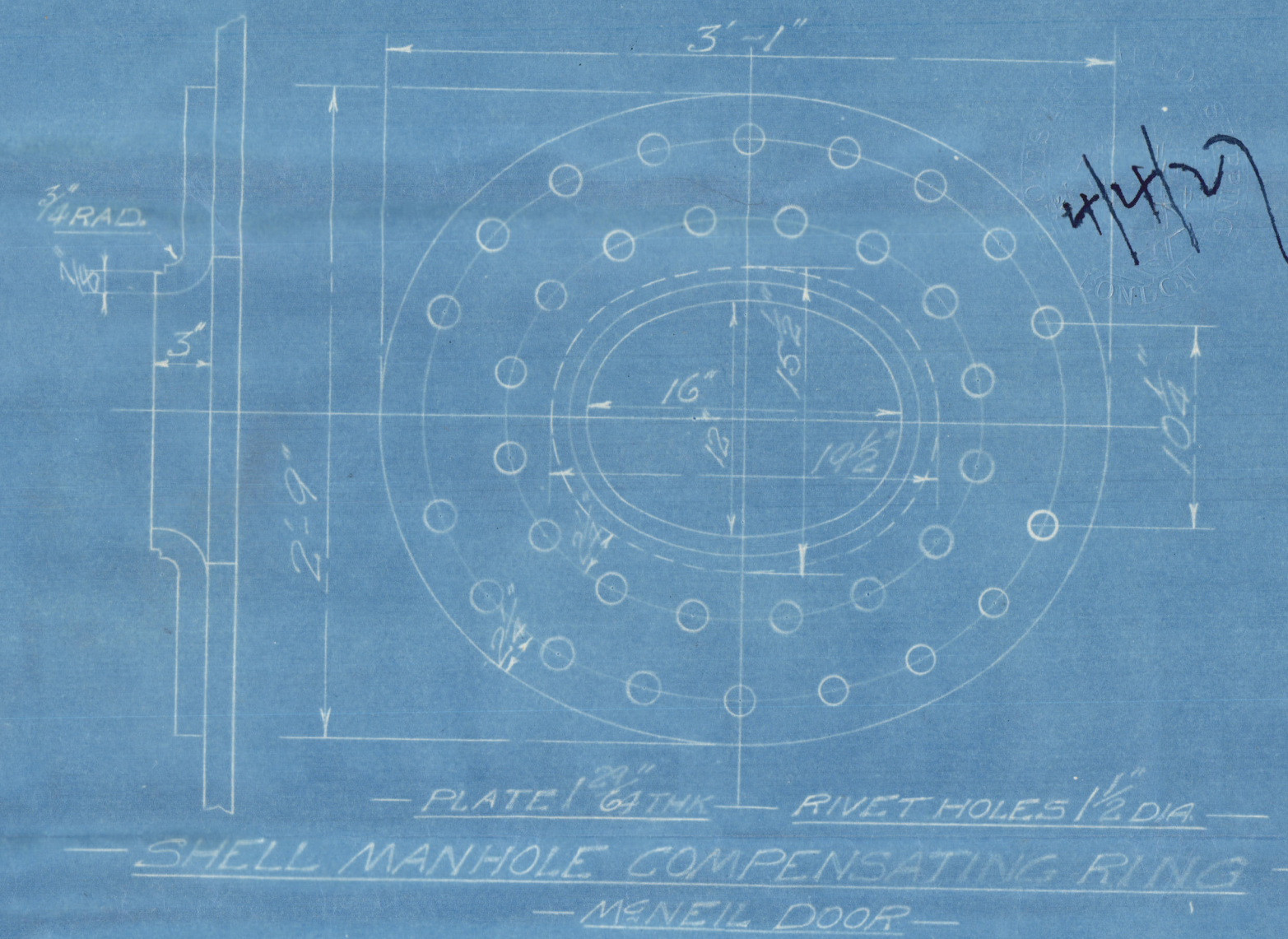
LIMITS OF TENSILE STRENGTH MATERIAL	
SHELL BUTT	28 TO 32 TONS
STRAPS RIVETED	
OTHER PLATES	26 . 30 .
FURNACE	26 . 30 .
MAIN STAYS	28 . 32 .
SCREW STAYS	26 . 30 .
RIVET BARS	26 . 30 .
	SIEMENS
	MARTIN
	STEEL

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

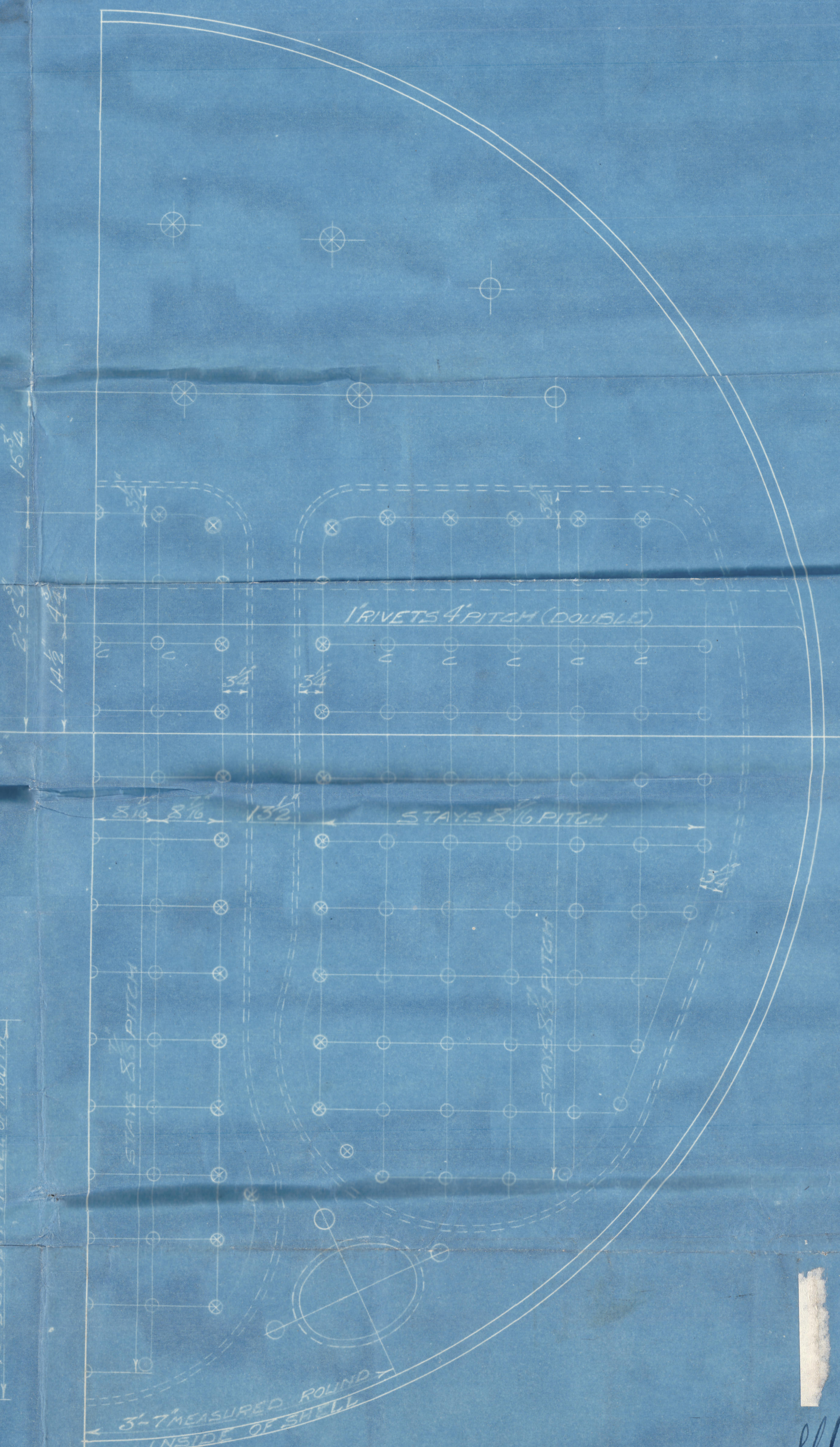
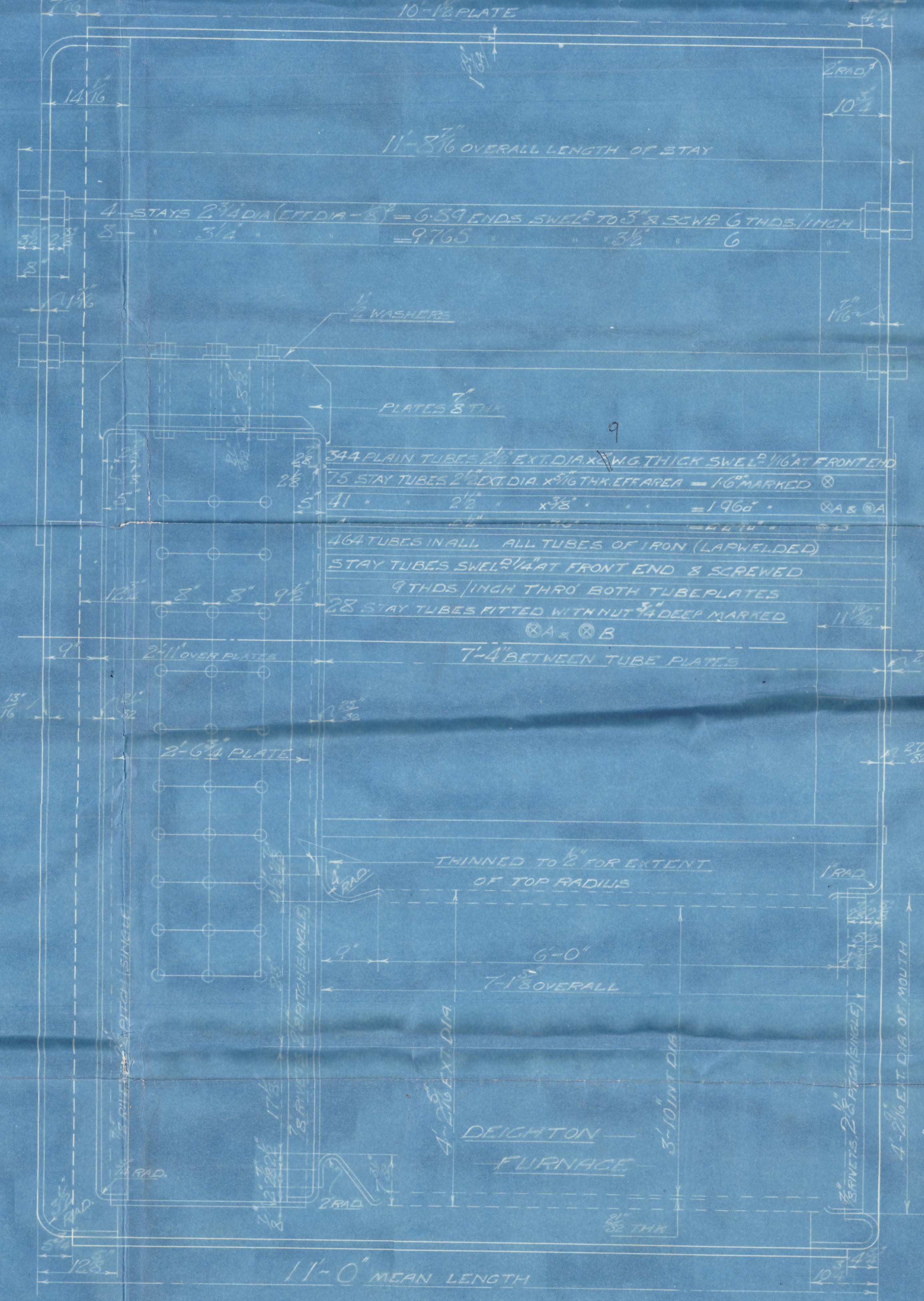
BACK END CIRCUMFERENCE
146 PITCHES OF 1 1/8"



FRONT END CIRCUMFERENCE
178 PITCHES OF 1 1/8"



TUBEPLATE
MANHOLE SIDE
STAYS 2 1/4 DIA.
ENDS SWELLED
TO 2 3/4 DIA. & SCREW
6 THDS. PER INCH
OUTSIDE NUT 2 1/2 DEEP
INSIDE NUT 1 1/2 DEEP
MANHOLE TOP STAY 2 1/2 DIA.
ENDS SWELLED TO 2 3/4 DIA.
& SCREWED 6 THDS. PER INCH
OUTSIDE NUT 2 1/4 DEEP
INSIDE NUT 1 1/8 DEEP
16-0 MEAN DIA.



MAIN BOILERS -30FF- CONT. N° 870

WORKING PRESS 200 LBS. PER SQ. INCH
TEST 350
TO PASS LLOYD'S SURVEY
SCALE 1 1/8" = 1 FOOT

POSITION	MARK	DIA	DIA-267	SCREWED THDS. INCH
TOP, SIDES, & BACK	⊗	1 1/8	1.544	9
BACH, TOP ROWING SPACE	⊗	1 1/8	2.555	9
TOP CORNER INSIDE	⊗	2 1/8	3.952	9

ALL FIREBOX STAYS SCREWED THRO BOTH PLATES & NUT FITTED
AT EACH END EXCEPT STAYS FROM WING FIREBOXES TO SHELL &
STAYS MARKED C IN BACK BOTTOM END WHICH FORMED 1/8
BARE CALLED
ALL 1/8" NUTS 1 1/2 DEEP EXCEPT ON GIRDER TOPS WHERE THE OUTSIDE
NUTS ARE 1 1/8 DEEP
ALL 1/8" X 2" NUTS 1 DEEP



W98-0064

w98-0064

GLASGOW

D. ROWAN & CO LTD

(3) BOILERS N^o 870

W P. 200 LBS

R. DUNCAN & CO'S S/N^o 383

17922

N^o 17922
LLOYDS TEST
350 LBS
WY-200 LBS
L.C.D.
30.5.28

Please see note re thickness
of plain tubes

"Ben holmes"
GLASGOW REPORT No. 48379

enclosed for reference



© 2020

Lloyd's Register
Foundation