

DRAWING 8678

HORIZONTAL DONKEY BOILER

TO LLOYDS REQUIREMENTS FOR A WORKING PRESSURE OF 180 LBS/SQ. IN. TEST PRESSURE 320 LBS/SQ. IN.

ALL PLATES, RIVETS, STAYS & GIRDERS OF STEEL. TUBES OF WROUGHT IRON.

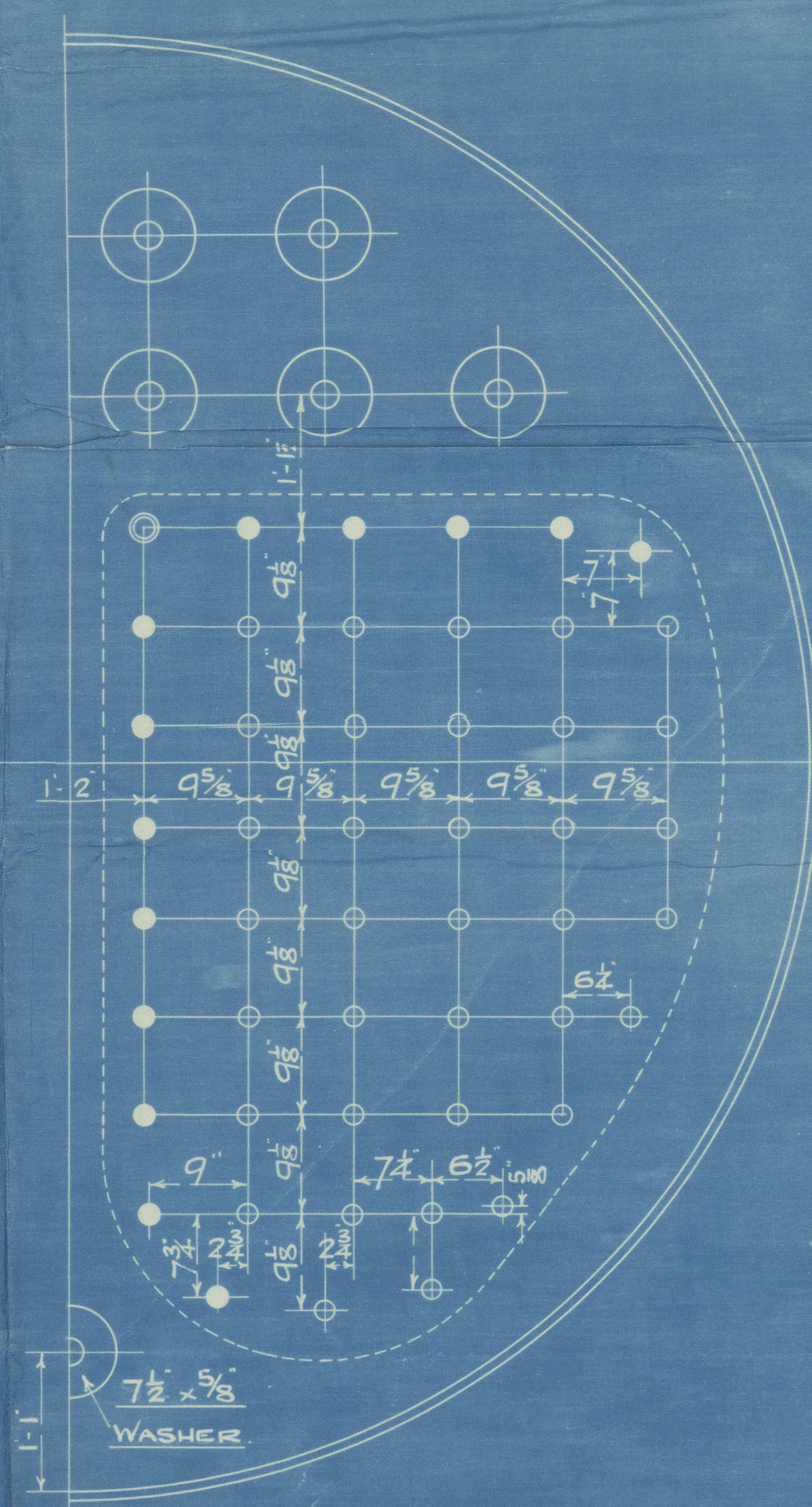
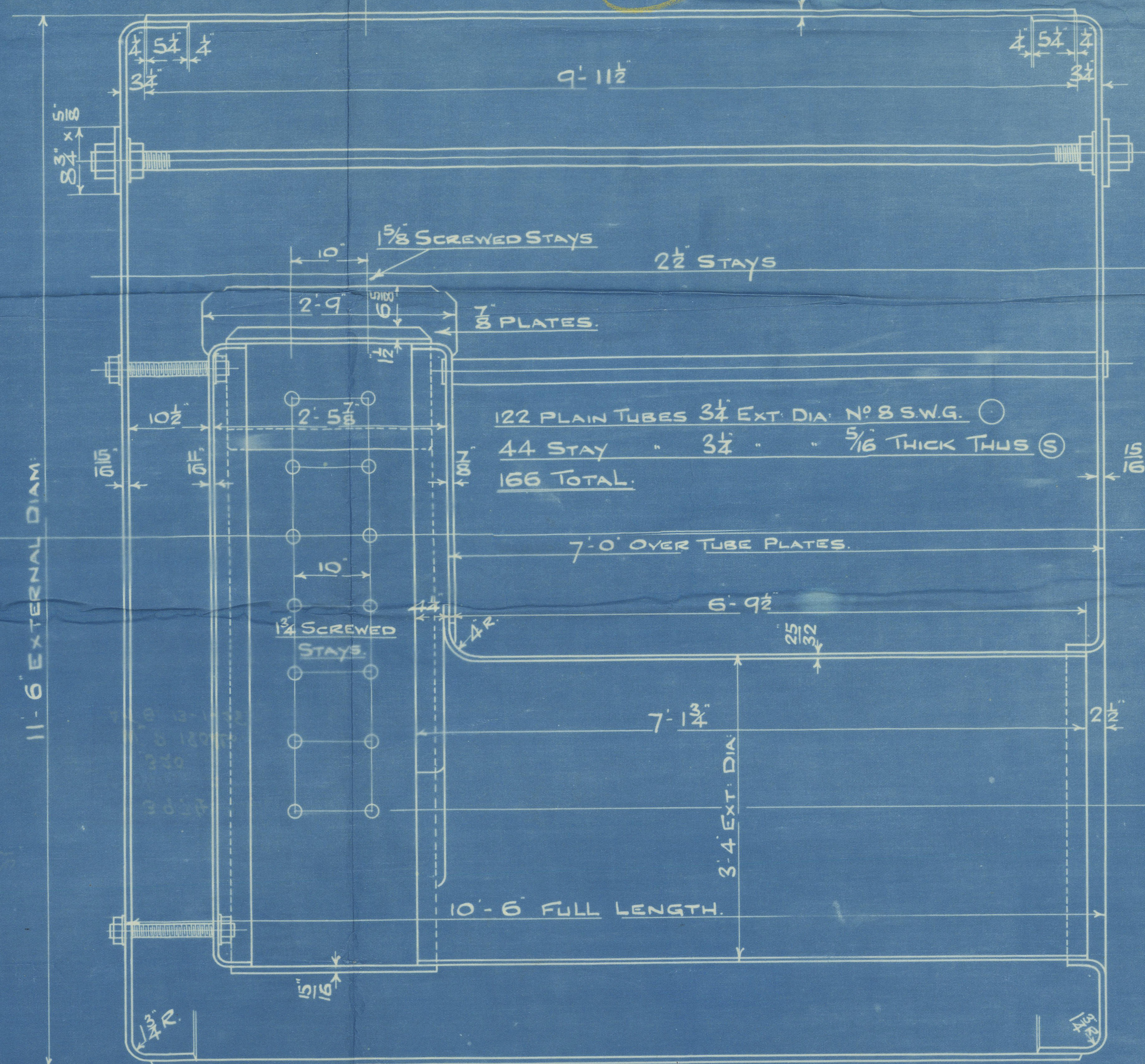
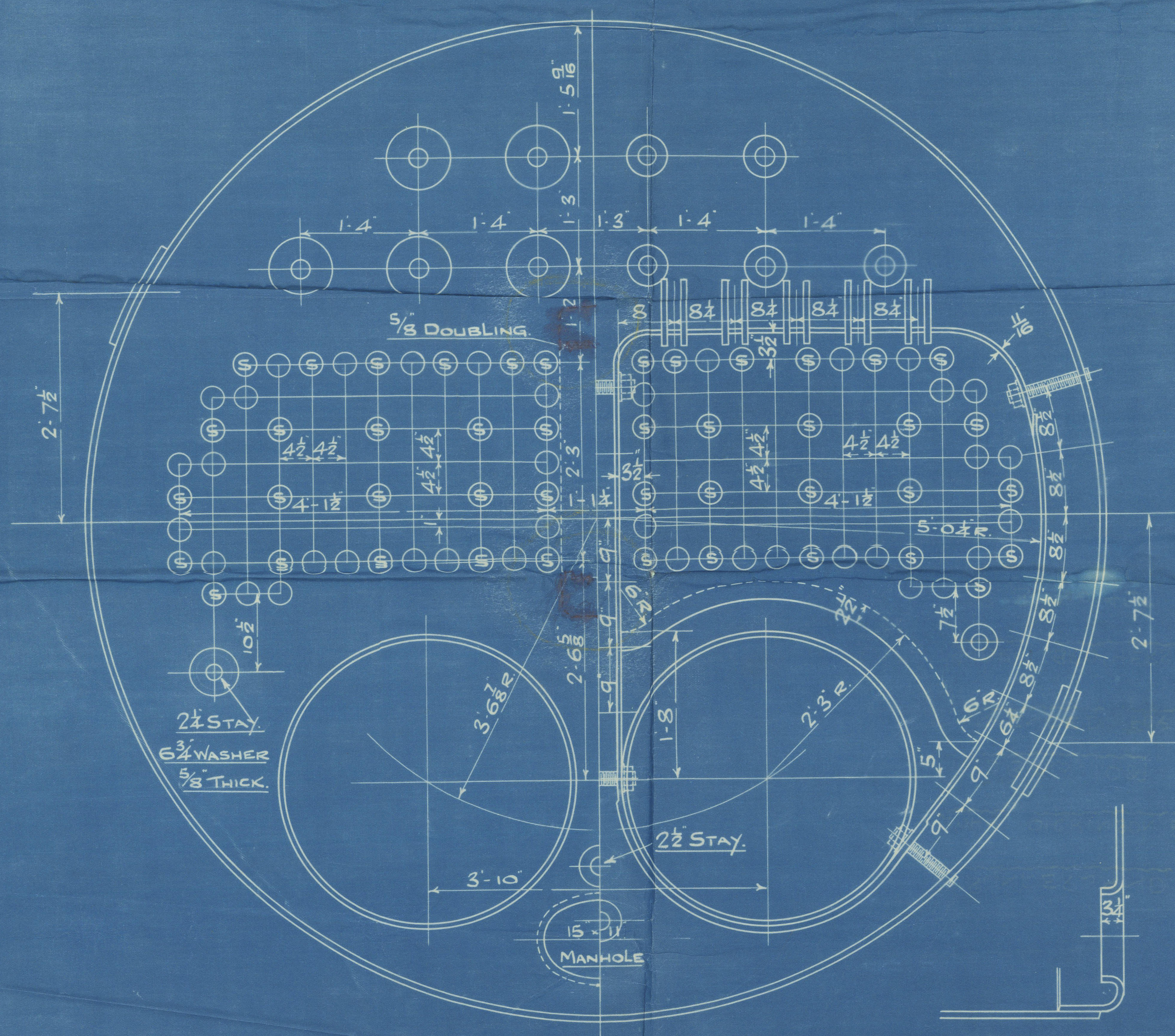
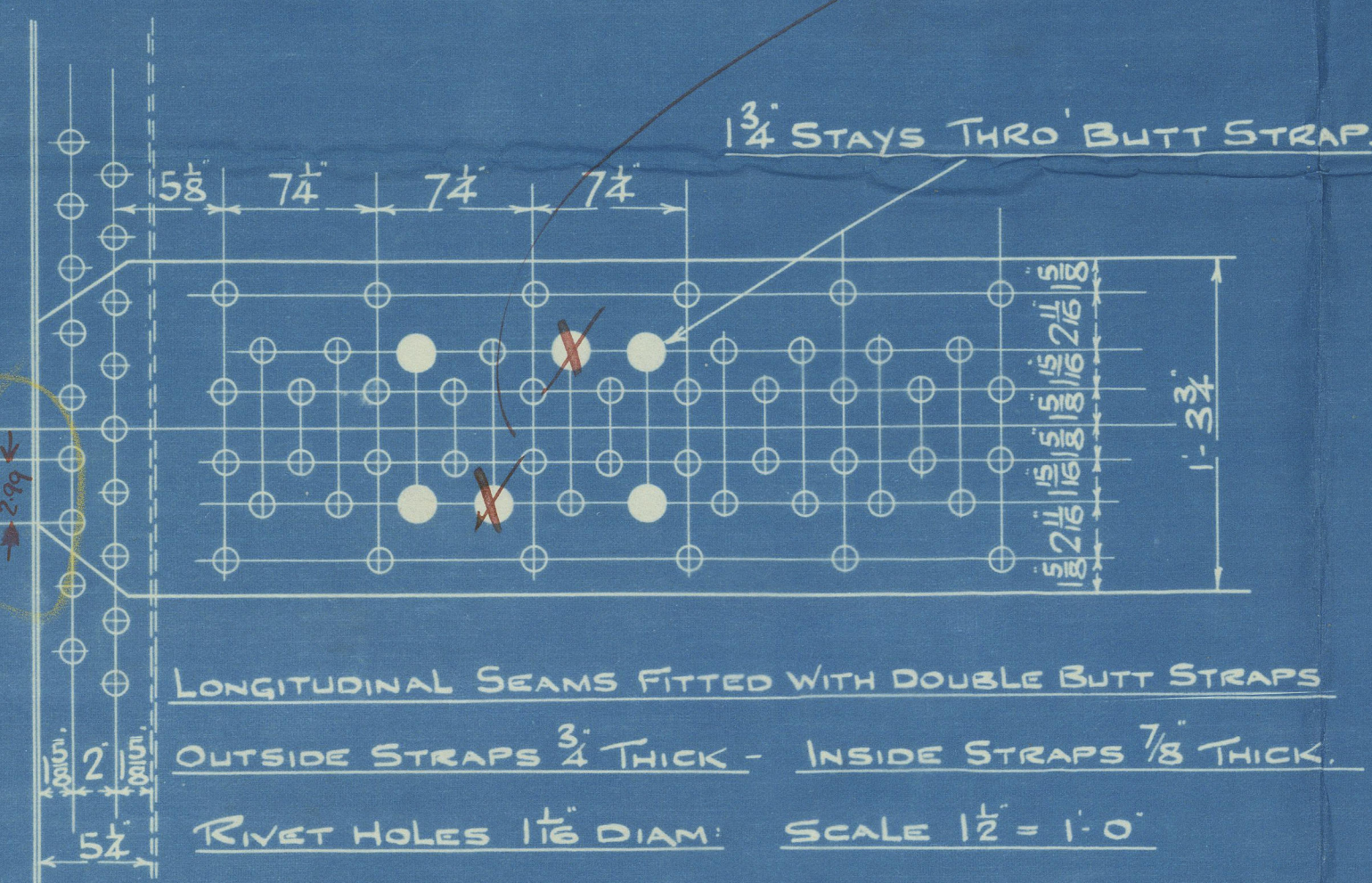
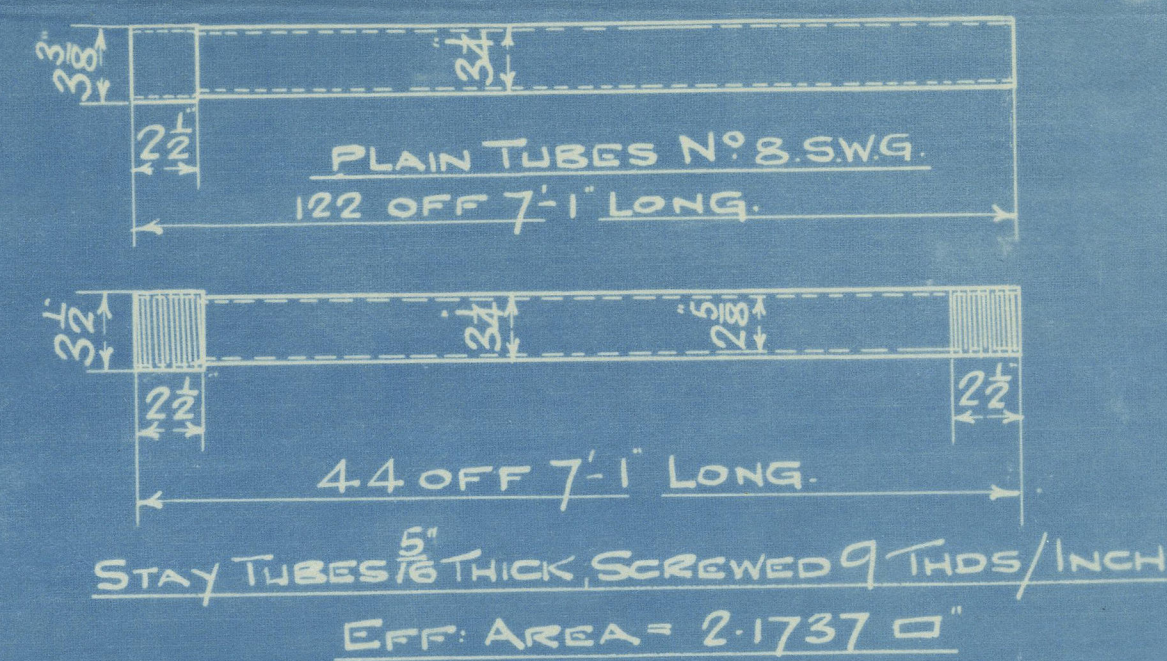
SCALE: ONE INCH = ONE FOOT.

TENSILE STRENGTHS	
PLATE	TONS/SQ. IN.
SHELL PLATES & BUTTS	28½ - 32½
MANHOLE STIFFENING RING	28½ - 32½
COM. CHAM. GIRDERS	28 - 32
ALL OTHER PLATES	26 - 30

RIVETING	
POSITION	RIVETING
COM. CHAM. LONG. SEAMS	SINGLE 15/16 22 22
" " & FURNACE "	" 15/16 22 22

TOTAL HEATING SURFACE = 11784

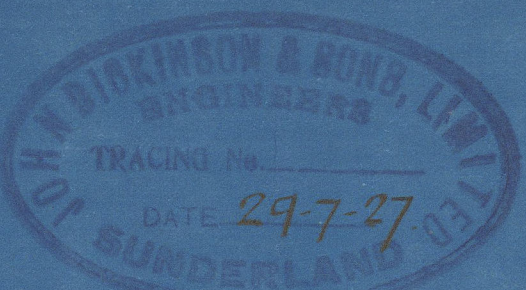
STAYS					
TENSILE	DIA.	THICK.	EFF. DIA.	EFF. AREA	NO. IN BLK.
26	1 5/8	9	1.483	1.728	20
TO	1 3/4	9	1.608	2.03	122
30	1 7/8	9	1.733	2.358	26
	2	9	1.858	2.712	2
28	2 1/4	6	2.037	3.258	2
TO	2 1/2	6	2.287	4.107	11



- 1 3/4" SCREWED STAYS ○
- 1 1/8" SCREWED STAYS ●
- 2" SCREWED STAYS ○

NOTE:- STAYS BETWEEN COMB. CHAM. & MARGINAL STAYS IN BACK SCREWED THRO' BOTH PLATES & NUTTED EACH END. STAYS FROM COMB. CHAM. TO SHELL & REMAINDER OF STAYS IN BACK TO HAVE NUT ON INNER END ONLY, & TO PROJECT 5/8" & BE CAULKED AT OUTER END.

NO 1089	ENG 886	SHORT BROS 5/5 428	DATE July 20 27
NO 1092	ENG 888	" 5/5 429	"



S. S. "BRIGHAM"

SUNDERLAND RPT. No. 29630

SUNDERLAND.

JOHN DICKINSON & SONS

D.B. No. 1089

INTENDED FOR

SHORT BROTHERS

S. S. No. 428

No. 3974
LLOYD'S TEST
320 lbs.
W. P. 180 lbs.
A.T.G. 13-1-28.

W 459-0161

Lloyd's Register
Foundation