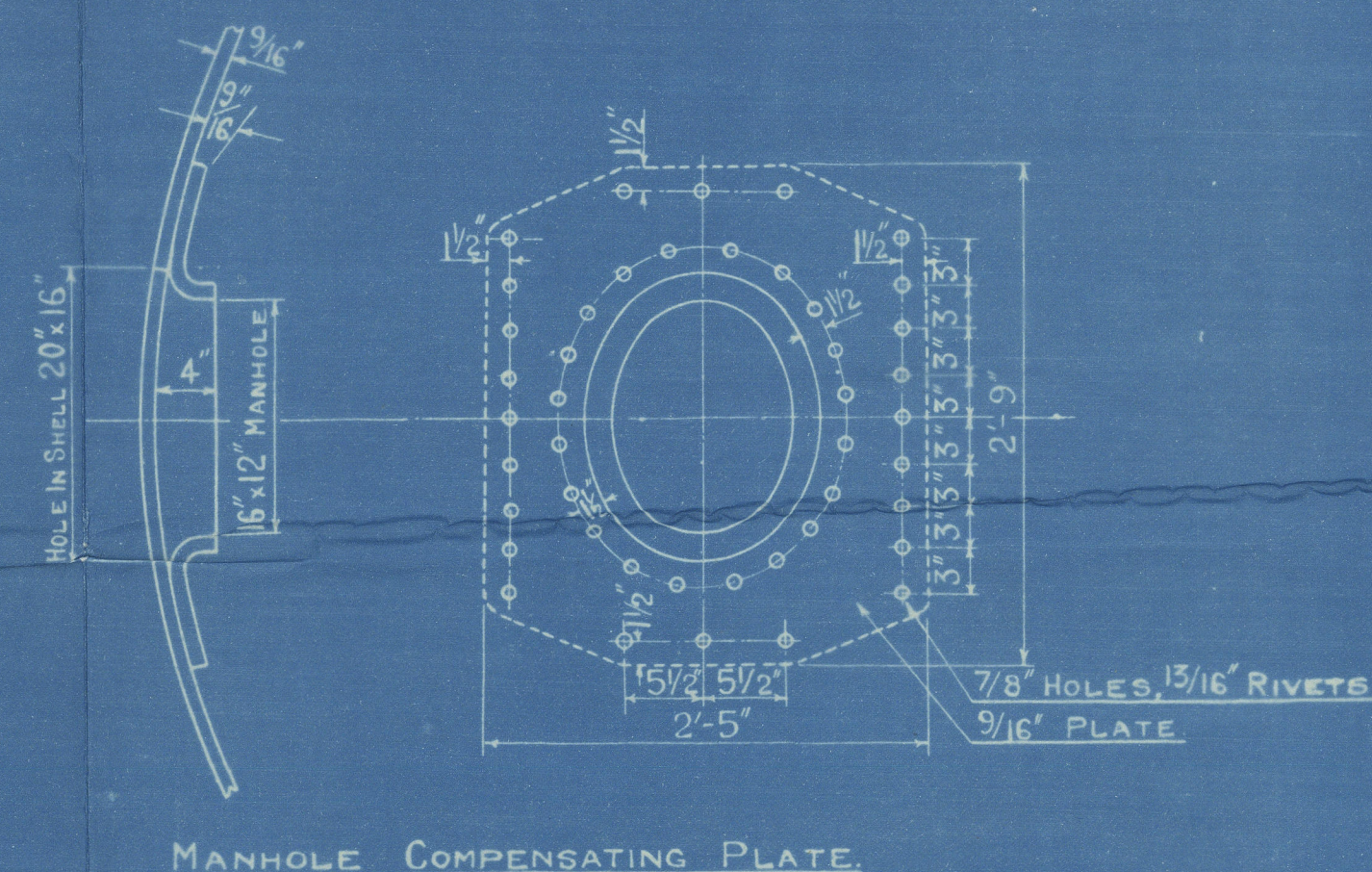
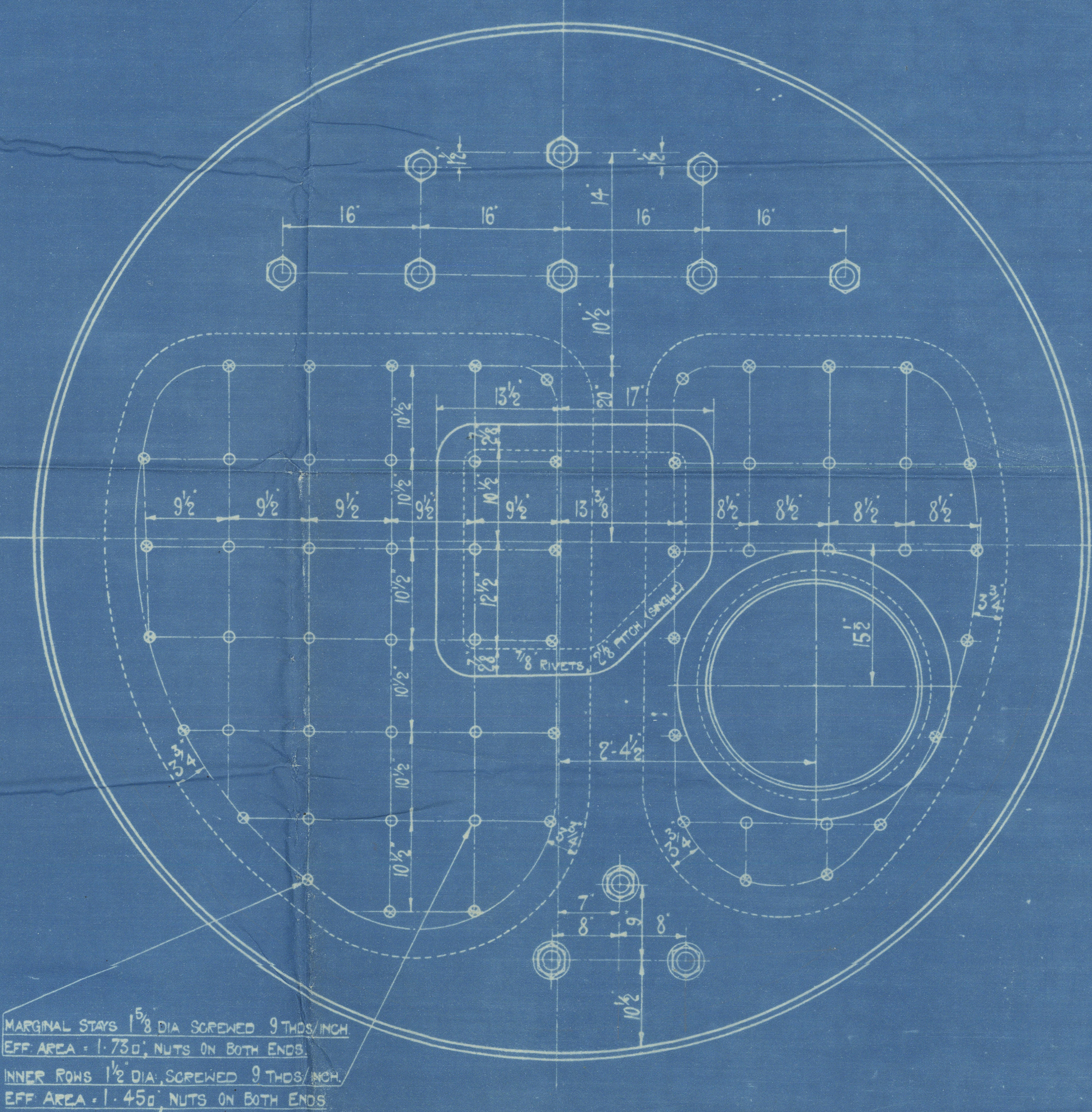
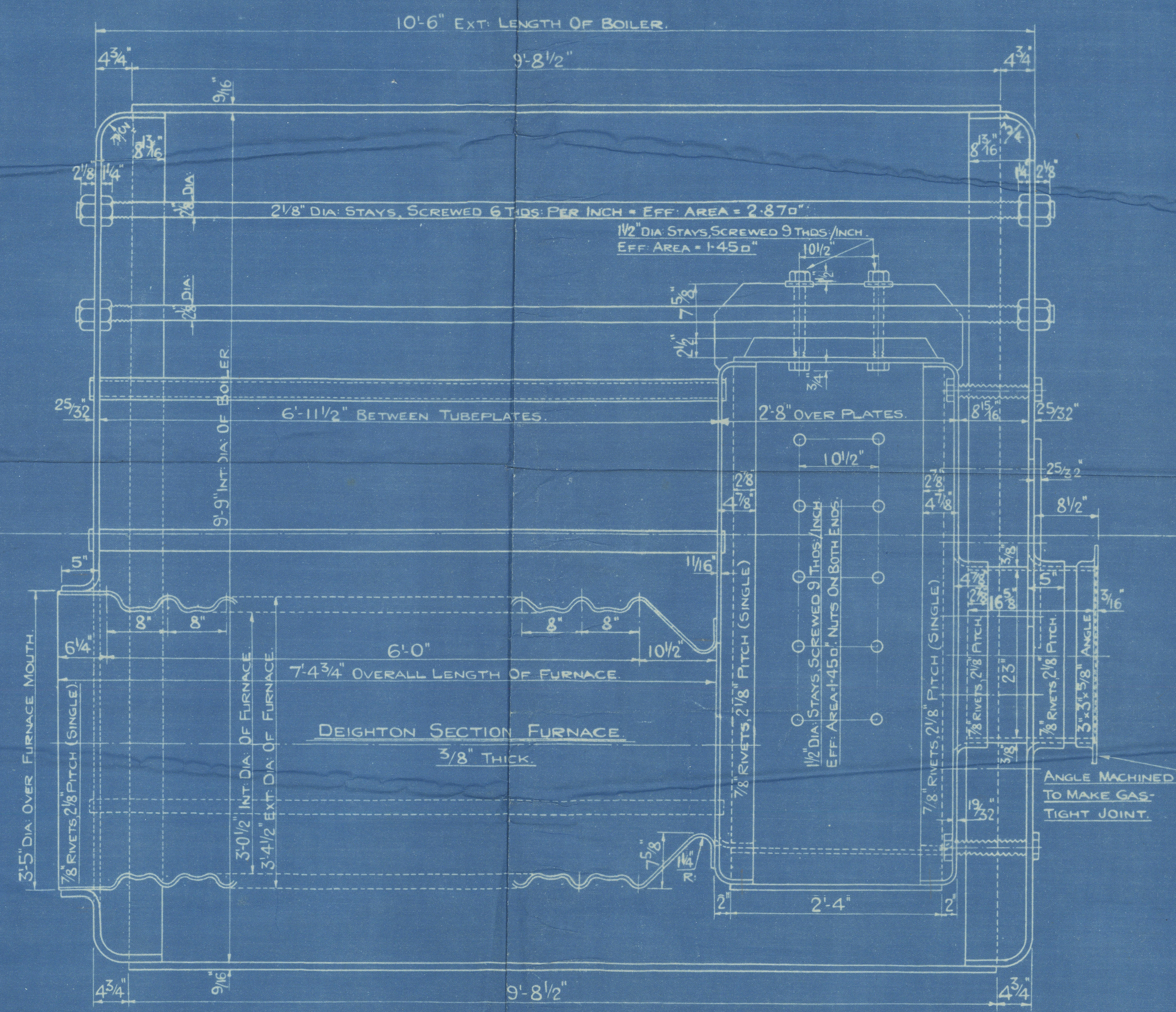
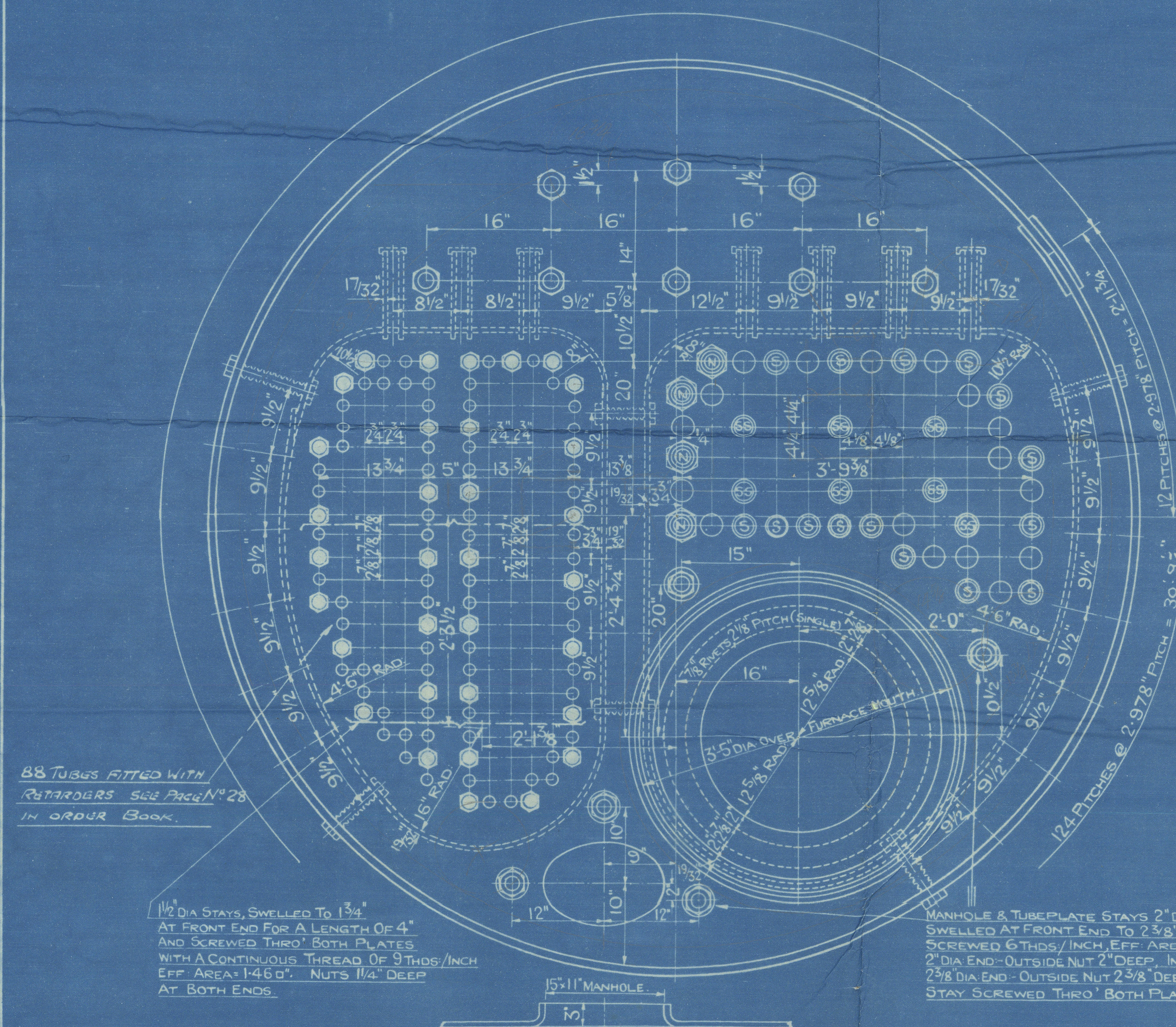


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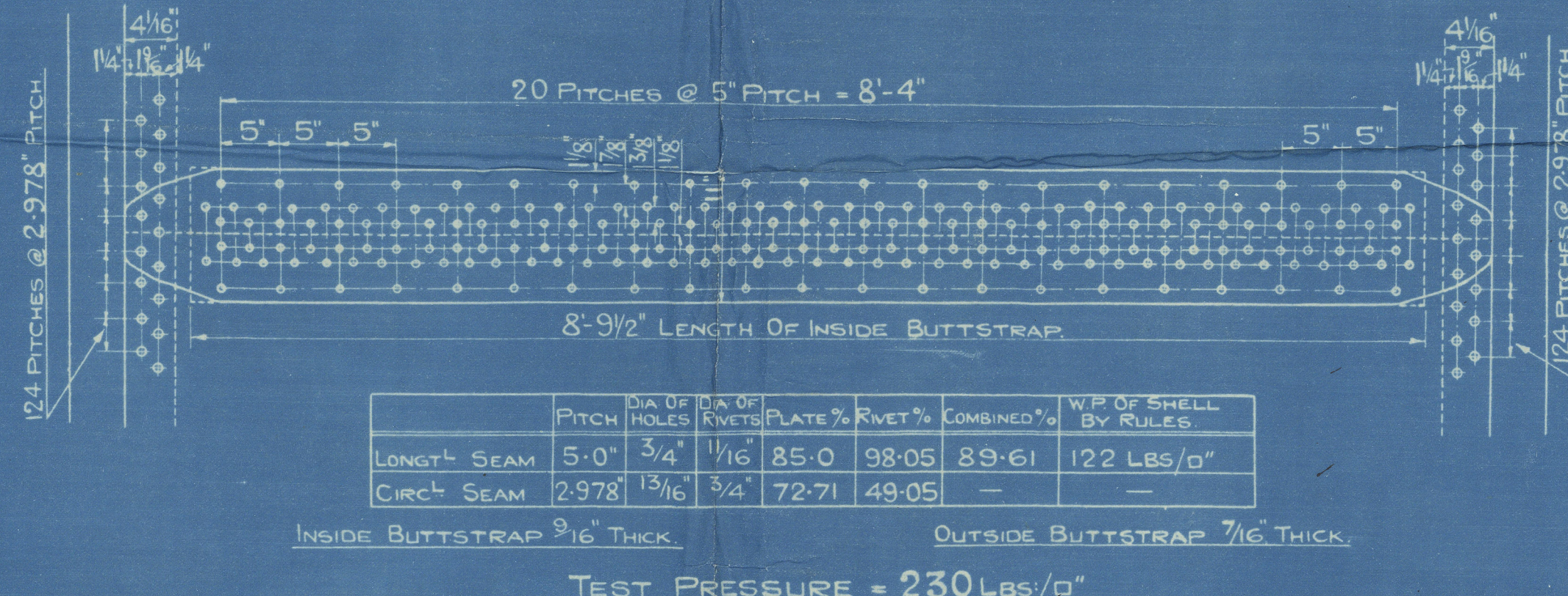
- LIST OF TUBES REQUIRED.
- 49 PLAIN TUBES, 3' EXT. DIA. x 10 W.G. THICK, SWELLED 1/16" AT FRONT END.
  - 4 STAY TUBES, 3' EXT. DIA. x 3/8" THICK, SWELLED 1/4" AT FRONT END & SCREWED THRO' BOTH PLATES. MARK "N".
  - 16 STAY TUBES, 3' EXT. DIA. x 3/16" THICK, SWELLED 1/4" AT FRONT END & SCREWED THRO' BOTH PLATES. MARK "S".
  - 7 STAY TUBES, 3' EXT. DIA. x 1/4" THICK, SWELLED 1/4" AT FRONT END & SCREWED THRO' BOTH PLATES. MARK "SS".
  - 75 = TOTAL NO. OF TUBES IN OIL FIRED PART.
- NOTE: ALL STAY TUBES SCREWED WITH A CONTINUOUS THREAD OF 9 THDS/INCH. EXHAUST HEAT PART:-
- 185 PLAIN TUBES, 1 3/4' EXT. DIA. x 11 W.G. THICK, SWELLED 1/16" AT FRONT END.



SURFACES	
OIL BURNING PART:-	
HEATING SURFACE OF TUBES	413 sq. ft.
" " " FURNACES	41 " "
" " " C.C. TOP & SIDES	36 " "
" " " C.C. BACKS	19 " "
" " " C.C. TUBEPLATES	11 " "
TOTAL HEATING SURFACE	520 sq. ft.
EXHAUST HEAT PART I.	
HEATING SURFACE OF TUBES	594 sq. ft.
" " " INLET	7 " "
" " " C.C. TOP & SIDES	34 " "
" " " C.C. BACKS	18 " "
" " " C.C. TUBEPLATES	10 " "
TOTAL HEATING SURFACE	663 sq. ft.
TOTAL HEATING SURFACE	1183 sq. ft.
AREA THRO' TUBES	309 sq. ins.
AREA THRO' INLET	415 sq. ins.

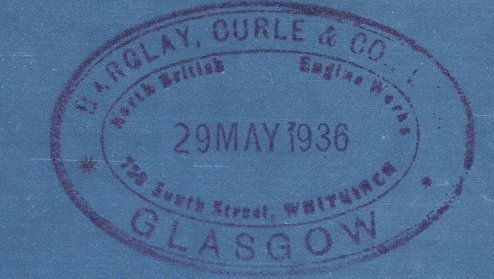
	TENSILE STRENGTH
SHELL PLATE	29-33 TONS/D
BUTTSTRAPS	29-33 " "
GIRDER PLATES	28-32 " "
MANHOLE COMP. PLATE	28-30 " "
ALL OTHER PLATES	26-30 " "
FURNACES	26-30 " "
LONGSTAY BARS	28-32 " "
SCREWED STAY BARS	26-30 " "
RIVET BARS	28-30 " "

TUBES OF HOT ROLLED WELDLESS STEEL.



	PITCH	DIA. OF RIVET	PLATE	% RIVET	COMBINED	W.P. OF SHELL BY RULES
LONGSTAY SEAM	5'-0"	3/4"	1/16	85-0	98-05	89-61
CIRCUM. SEAM	2'-9 7/8"	13/16	3/4	72-71	49-05	122 LBS/D"

TEST PRESSURE = 230 LBS/D"



ENGINE NOS. E.W. 109 & E.W. 110  
OIL FIRED AND EXHAUST HEAT BOILER.

9'-9" INT. DIA. x 10'-6" MEAN LENGTH, TO PASS LLOYDS LATEST  
TESTS & REQUIREMENTS FOR A WORKING PRESSURE OF 120 LBS/D"  
ONE OFF REQUIRED TO EACH NO.  
SCALE: 1" = 1 FOOT.

DATE	DRAWN BY	TRACED BY	CHECKED BY	ISSUE TO	DRAWING NO.
4.12.35	W.P.	S.G.R. & E.W.G.	W.P.	SS, DB, DE	31A019



Barclay Curles G.W. 109 & 110

Barclay Curles

G.W. 109 & 110

Exhaust Heat & Oil Fired Boilers.

Exhaust Heat & Oil Fired Boilers.

Lithgow 898/9

Lithgow 898/9.



TREVA NION

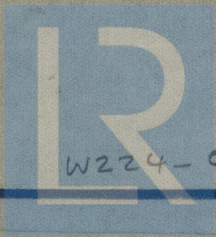
899(E.W.110)

GLASGOW REPORT (No. 59049)

TREVA NION

898(E.W.109)

GLASGOW REPORT No. 58800



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