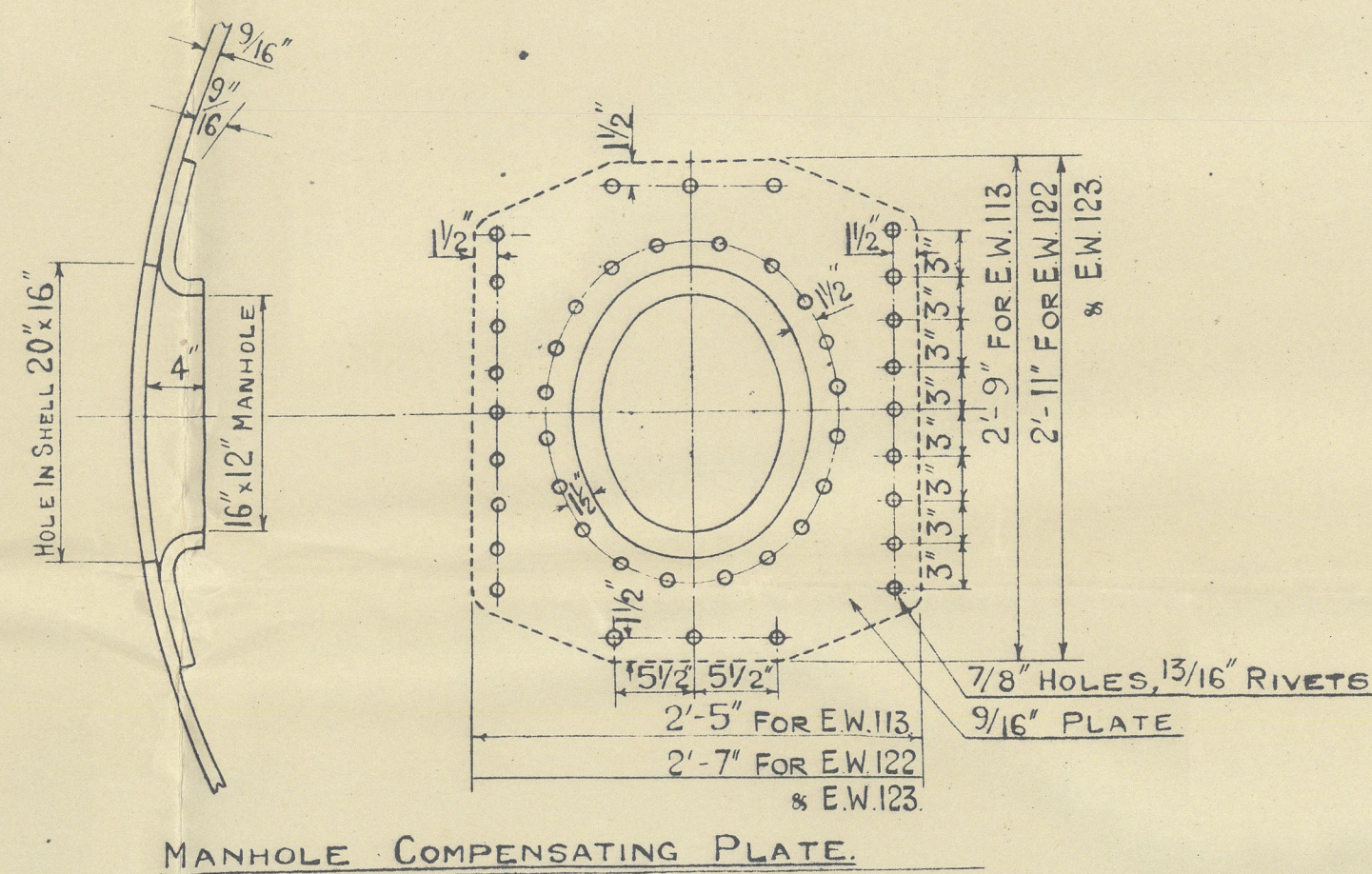
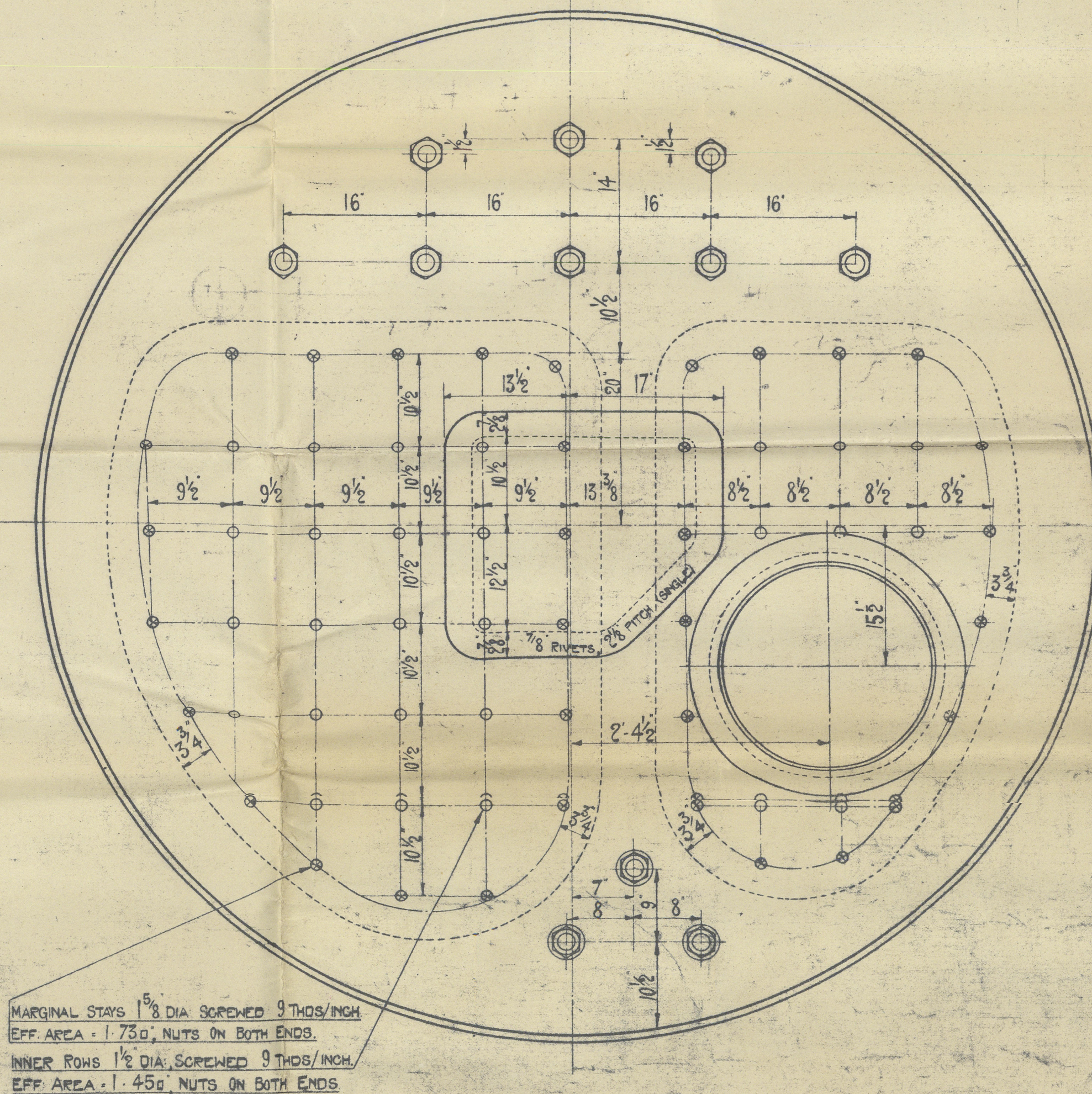
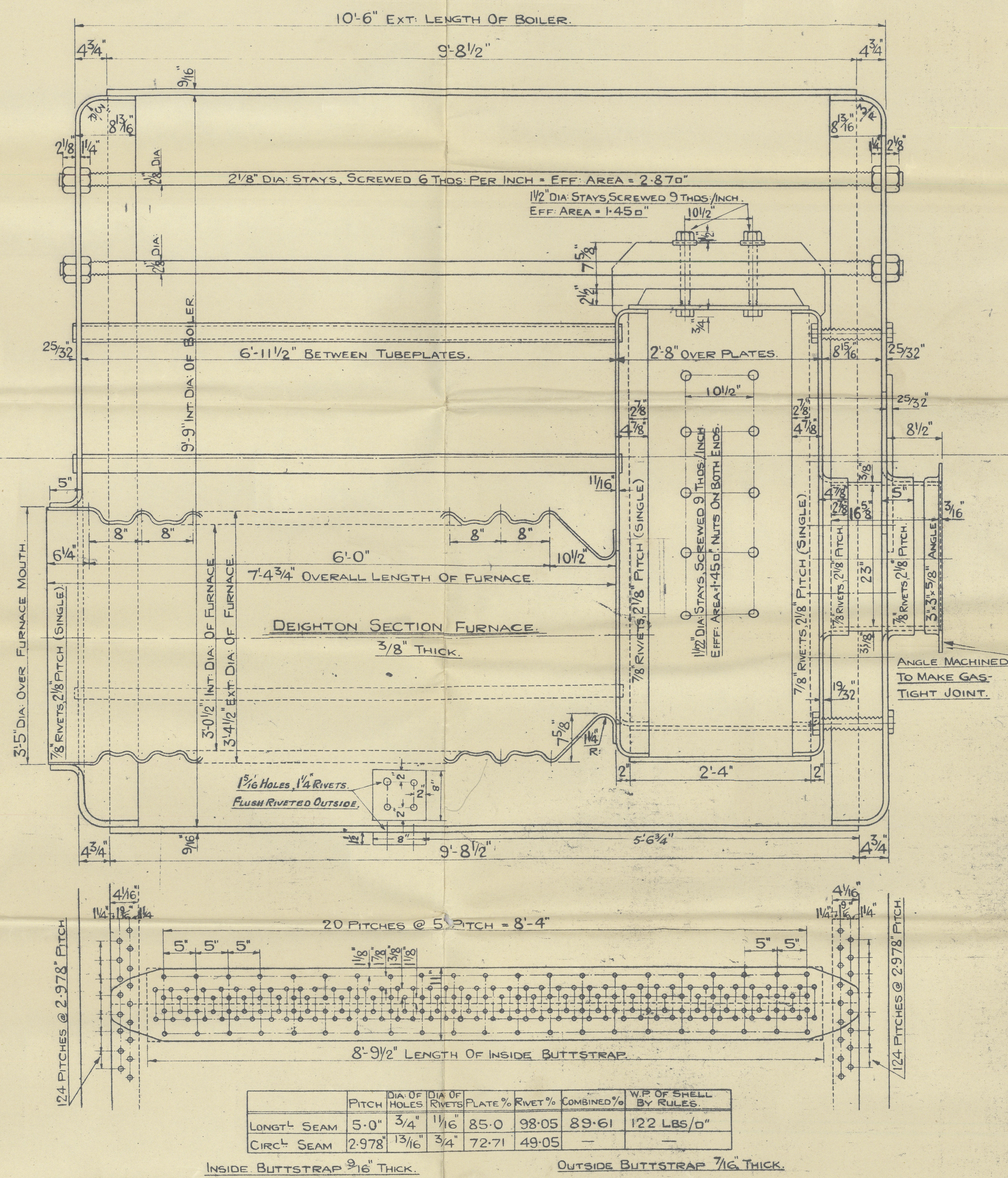
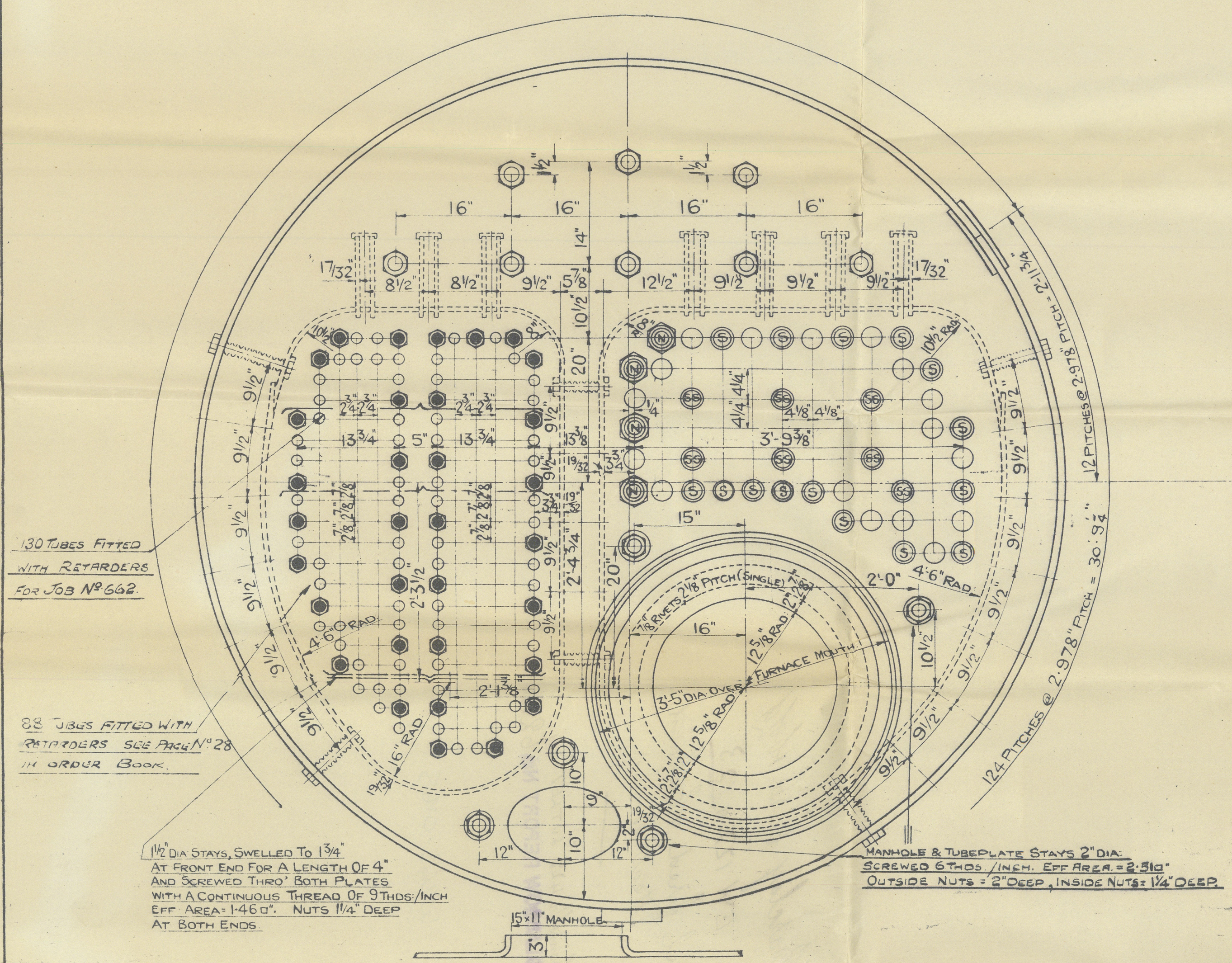


11 APR 1939



- LIST OF TUBES REQUIRED.
- 49 PLAIN TUBES, 3" EXT. DIA. x 10 W.G. THICK, SWELLED 1/4" AT FRONT END.
- 4 STAY TUBES, 3" EXT. DIA. x 3/8" THICK, SWELLED 1/4" AT FRONT END & SCREWED THRO' BOTH PLATES. NUTS ON FRONT END MARK "N".
- 15 STAY TUBES, 3" EXT. DIA. x 5/16" 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 THOS./INCH. EXHAUST HEAT PART.
- 185 PLAIN TUBES, 1 3/4" EXT. DIA. x 11 W.G. THICK, SWELLED 1/4" AT FRONT END.



SURFACES	1 BOILER
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:-	
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.
AREA THRO' EXHAUST PIPES	254 SQ. INS.

	TENSILE STRENGTH	
SHELL PLATE	20-33 TONS/0"	
BUTTSTRAPS	20-33 " "	
GIRDER PLATES	28-32 " "	
MANHOLE COMP. PLATE	28-30 TONS/0"	
ALL OTHER PLATES	26-30 TONS/0"	
FURNACES	26-30 " "	
LONGSTAY BARS	28-32 " "	
SCREWED STAY BARS	26-30 " "	
RIVET BARS	26-30 " "	

TUBES OF HOT ROLLED WELDLESS STEEL.

	PITCH	NO. OF HOLES	DIAM. OF HOLES	PLATE	% RIVET	% COMBINED	% W.P. OF SHELL BY RULES
LONGSTAY SEAM	5'-0"	3/4"	1 1/16"	85-0	98-05	89-61	122 LBS/0"
CIRC. SEAM	2-978"	3/4"	1 1/16"	72-71	49-05	-	-

INSIDE BUTTSTRAP 9/16" THICK.

OUTSIDE BUTTSTRAP 7/16" THICK.

TEST PRESSURE = 230 LBS/0"



S.S. ENGINES N° EW 122, 123.

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/0" ONE OFF REQUIRED TO EACH N°

SCALE: 1" = 1'-0"

DATE	DRAWN BY	TRACED BY	CHECKED BY	ISSUE TO
4.12.35	SGP	EWG	BS, DB, DE	

DRAWING NO. 31

APPROVED BY LLOYDS 18.3.37

W263-0165



✓ Barclay Curle & Co

EW 122 & 123

Oil fired Exhaust  
Heat Boilers

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(Connell's 428 'SUTLET'  
GLASGOW REPORT No 62180

W263-0165



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