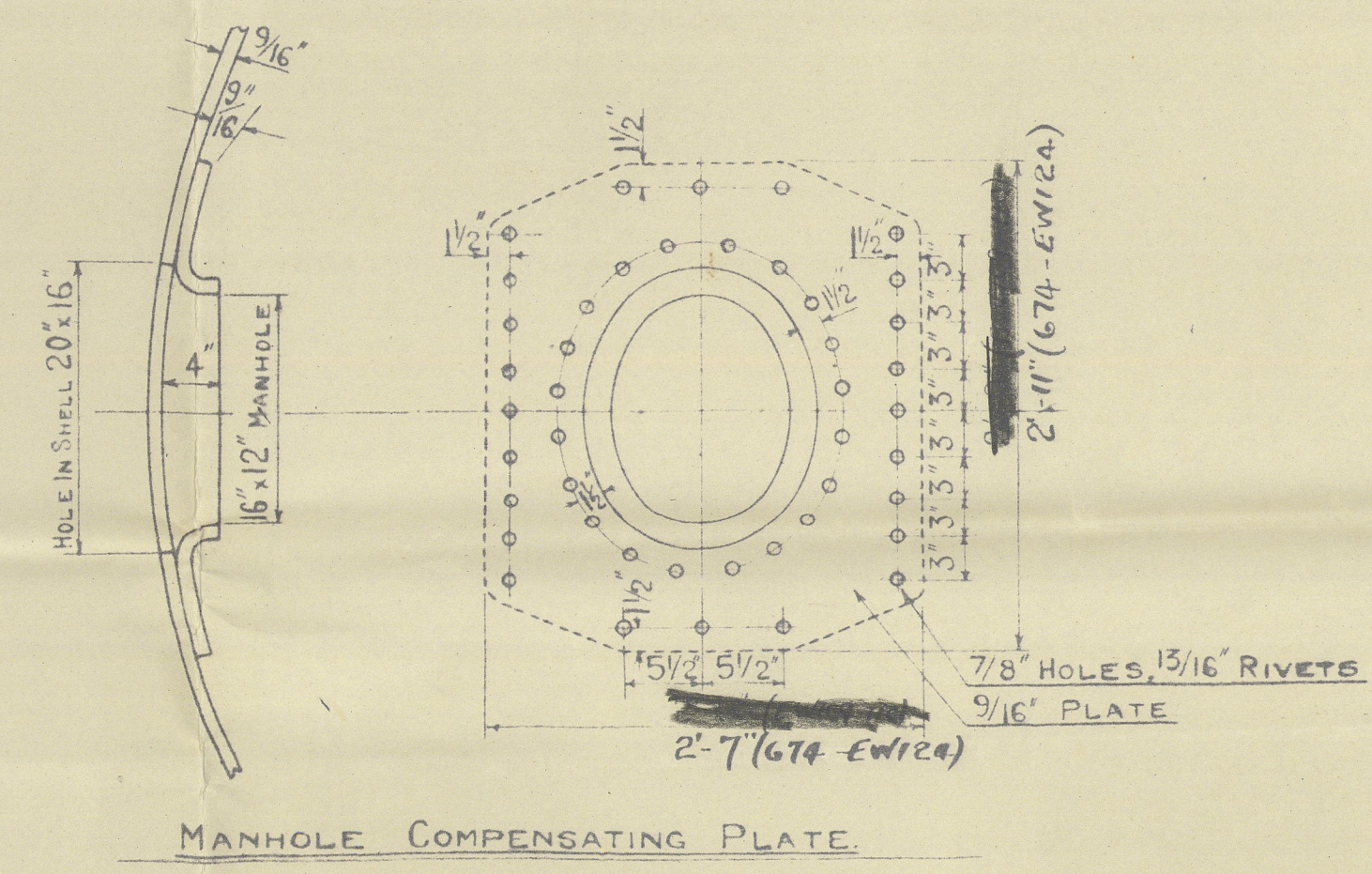
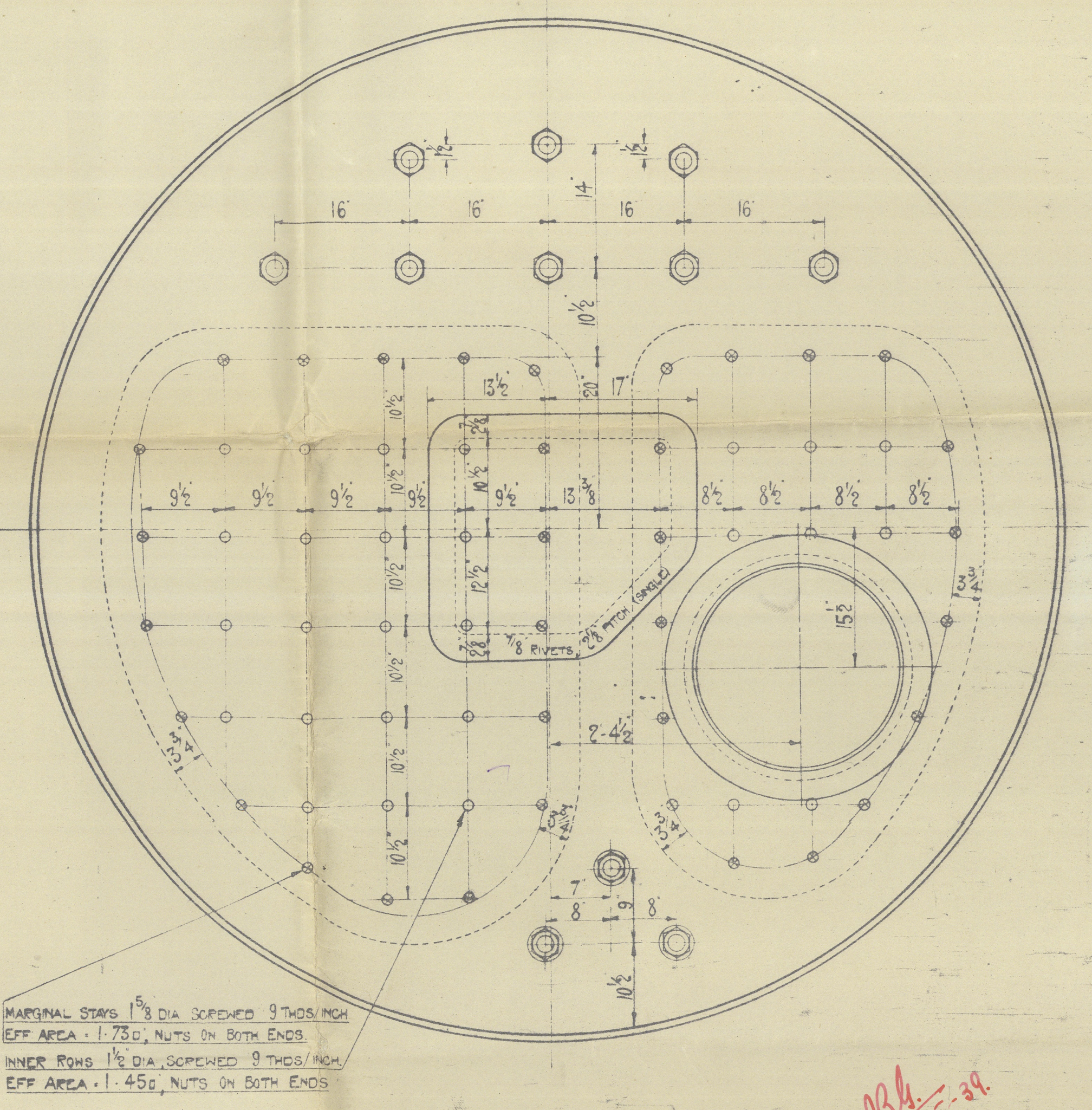
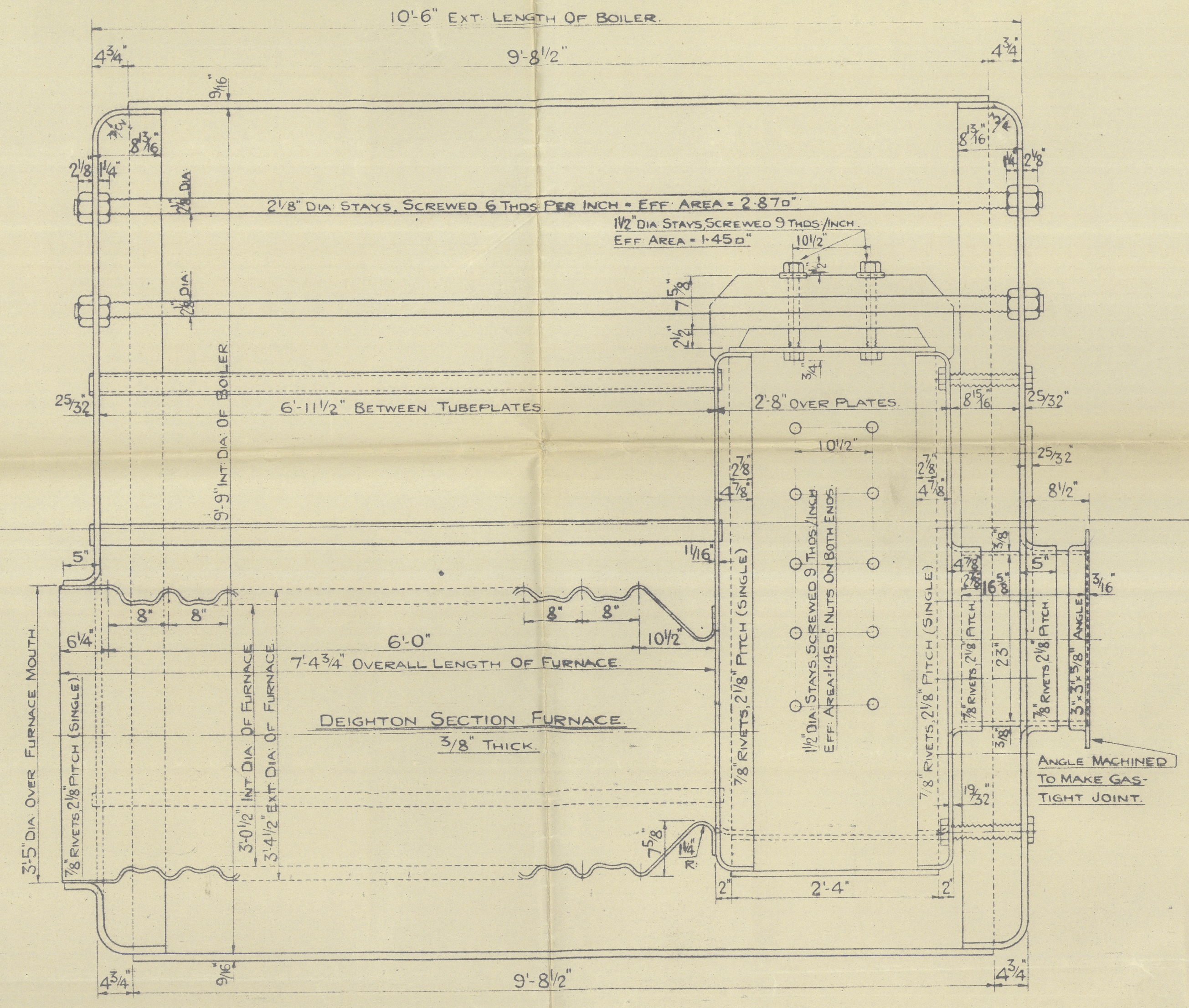
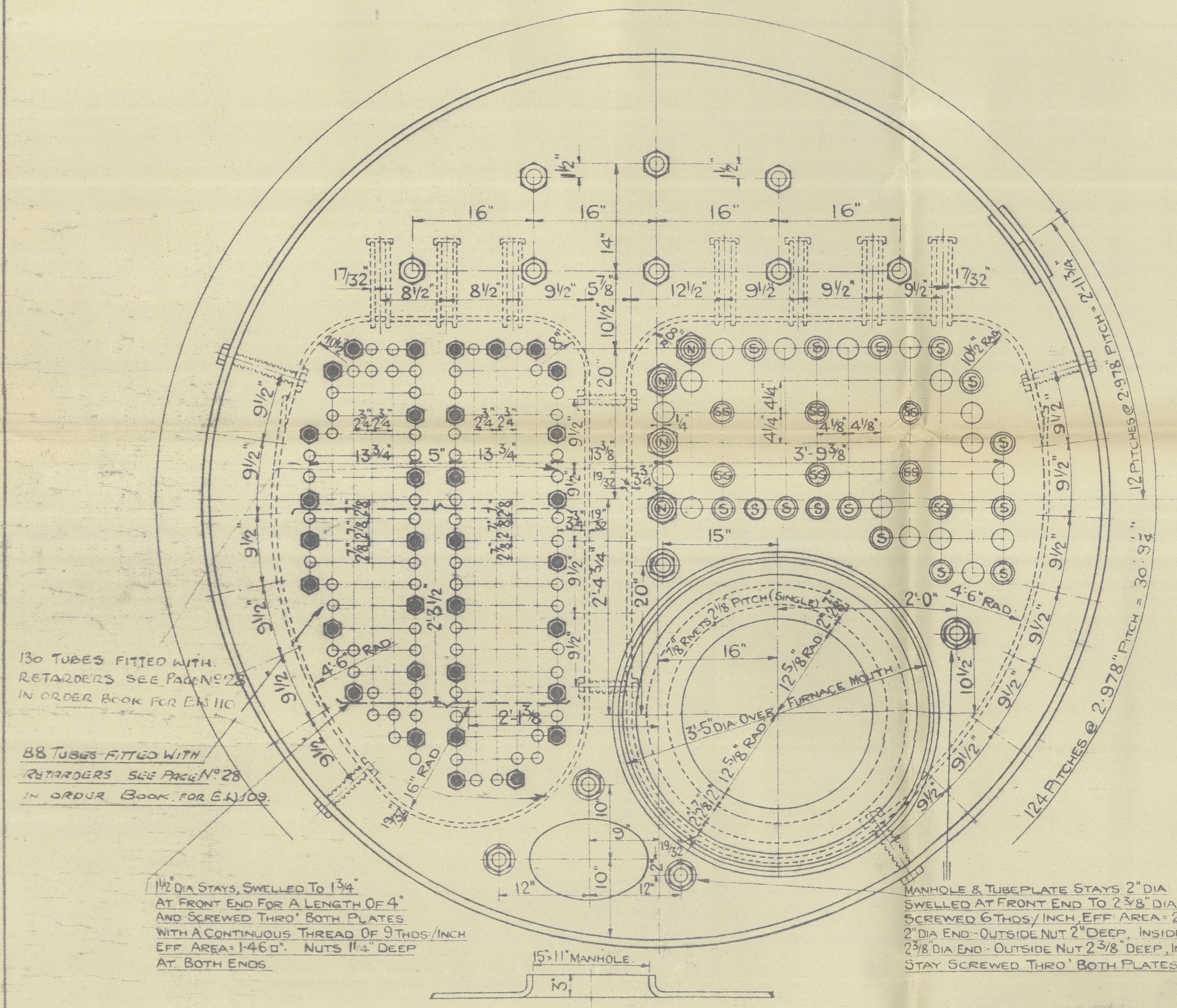


3 MAY 1939



LIST OF TUBES REQUIRED.

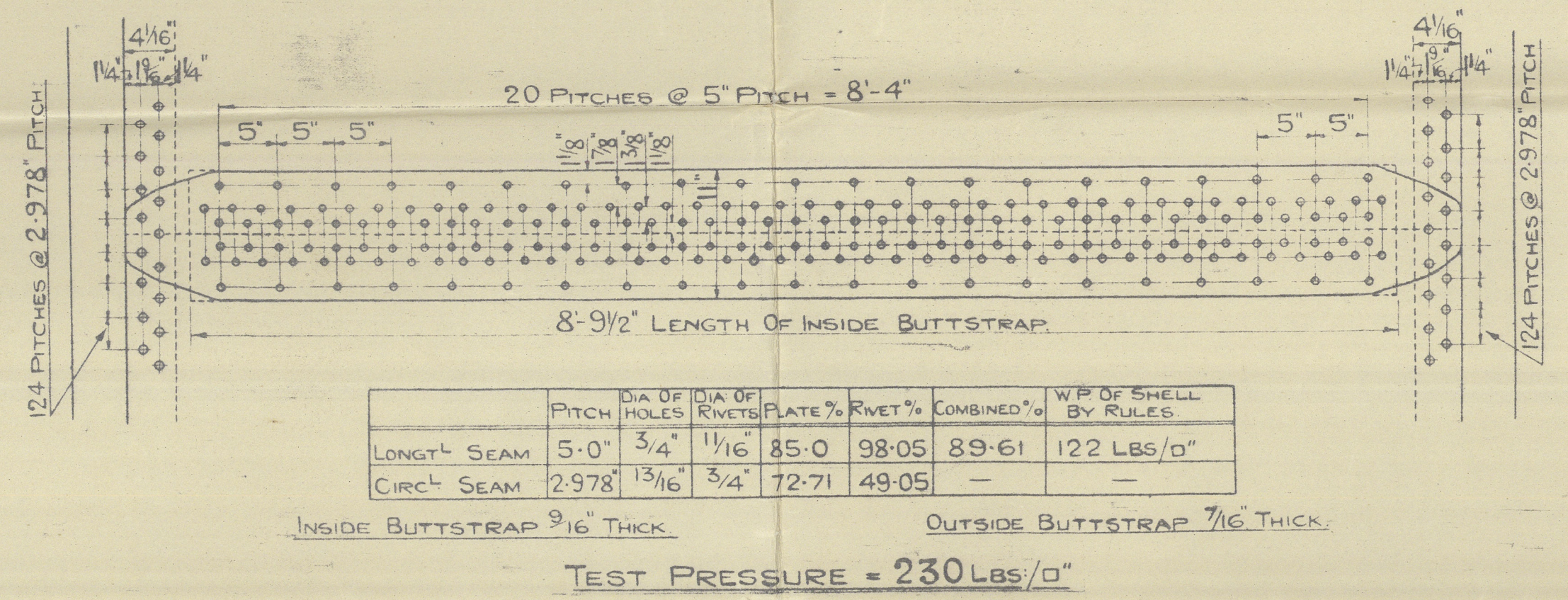
- 49 PLAIN TUBES, 3' EXT. DIA. x 10 WG THICK, SWELLED 1/16" AT FRONT END
 - 4 STAY TUBES, 3' EXT. DIA. x 3/8" THICK, SWELLED 1/4" AT FRONT END & SCREWED THRO' BOTH PLATES. NUTS ON FRONT END MARK "N"
 - 15 STAY TUBES, 3' EXT. DIA. x 9/16" THICK, SWELLED 1/4" AT FRONT END & SCREWED THRO' BOTH PLATES. MARK "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 WG THICK, SWELLED 1/16" AT FRONT END



| SURFACES. | |
|--------------------------|--------------|
| OIL BURNING PART:- | |
| HEATING SURFACE OF TUBES | 413 SQ. FT. |
| " " " FURNACES | 41 " " |
| " " " CC. TOP & SIDES | 36 " " |
| " " " CC. BACKS | 19 " " |
| " " " CC. TUBEPLATES | 11 " " |
| TOTAL HEATING SURFACE | 520 SQ. FT. |
| EXHAUST HEAT PART:- | |
| HEATING SURFACE OF TUBES | 594 SQ. FT. |
| " " " INLET | 7 " " |
| " " " CC. TOP & SIDES | 34 " " |
| " " " CC. BACKS | 18 " " |
| " " " CC. TUBEPLATES | 10 " " |
| TOTAL HEATING SURFACE | 663 SQ. FT. |
| TOTAL HEATING SURFACE | 1183 SQ. FT. |
| AREA THRO' TUBES | 336 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 | 26-30 " " |
| ALL OTHER PLATES | 26-30 " " |
| FURNACES | 26-30 " " |
| LONGSTAY STAY BARS | 28-32 " " |
| SCREWED STAY BARS | 26-30 " " |
| RIVET BARS | 26-30 " " |

TUBES OF HOT ROLLED WELDLESS STEEL.



| PITCH | DIAMETER OF HOLES | DIAMETER OF RIVETS | PLATE THICKNESS | % RIVET | COMBINED | W.P. OF SHELL BY RULES |
|--------------|-------------------|--------------------|-----------------|---------|----------|------------------------|
| LONGIT. SEAM | 5'-0" | 3/4" | 1/16" | 85-0 | 98-05 | 89-61 |
| CIRC. SEAM | 2'-9 7/8" | 13/16" | 3/4" | 72-71 | 49-05 | 122 LBS/D" |

INSIDE BUTTSTRAP 9/16" THICK. OUTSIDE BUTTSTRAP 7/16" THICK.

TEST PRESSURE = 230 LBS/D"

674 & EW. 124.

ENGINE NOS. 674 & EW. 124.

OIL FIRED AND EXHAUST HEAT BOILER

9'-9" INT. DIA. x 10'-6" MEAN LENGTH, TO PASS LLOYD'S LATEST

TESTS & REQUIREMENTS FOR A WORKING PRESSURE OF 120 LBS/D"

ONE OFF REQUIRED TO EACH NO.

SCALE - 1" = 1 FOOT.

DATE 4.12.35 DRAWN BY L.P. TRACED BY S.G. & E.W. CHECKED BY C.P. ISSUE TO: 35, D.B. DE.

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Oil Fired + Exhaust Heat Boiler

Barclay Buttle & Co's E. W. 124

(2)

Previlley Gmk. 21036

GLASGOW REPORT NO 62686

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