

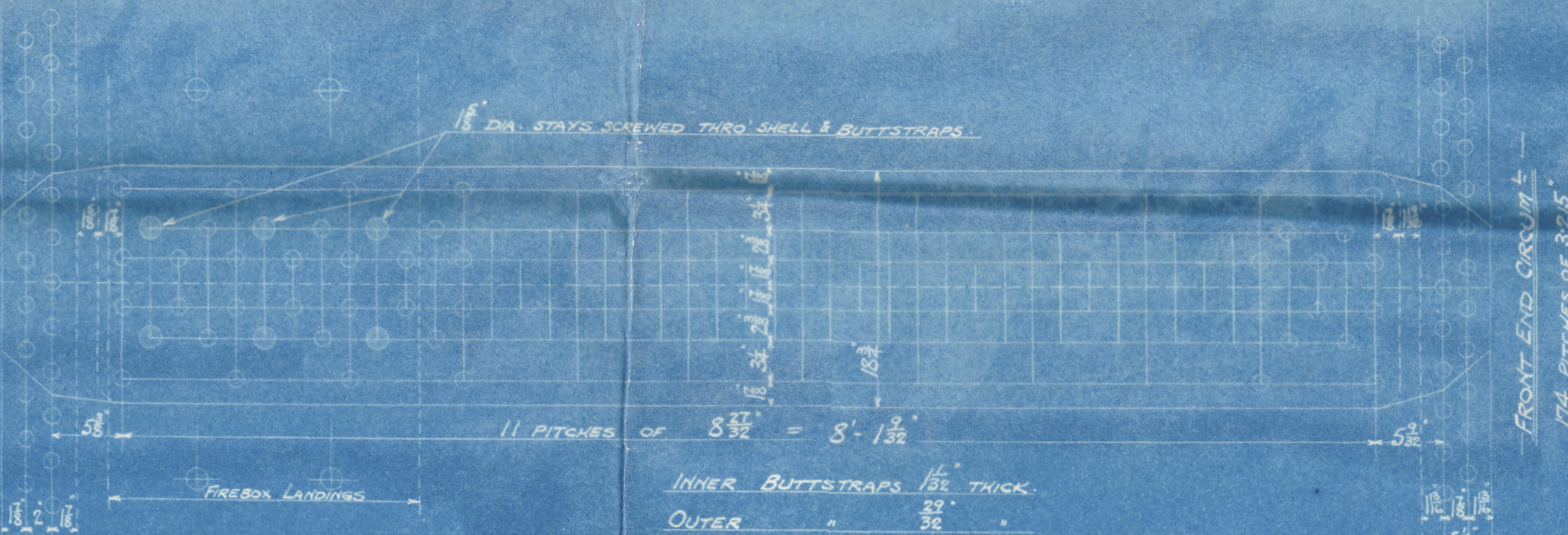
| SURFACES                     |  | ONE BOILER  | 2 BOILERS |
|------------------------------|--|-------------|-----------|
| TUBES                        |  | 1575 #      | 3150 #    |
| FIREBOX TOP AND SIDES        |  | 148 "       | 296 "     |
| " BACK                       |  | 78 "        | 156 "     |
| " TUBEPLATE                  |  | 49 "        | 98 "      |
| FURNACES                     |  | 135 "       | 270 "     |
| TOTAL HEATING SURFACE        |  | 1985 #      | 3970 #    |
| GRATE AREA (5' 6" BARS)      |  | 57.75 "     | 115.5 "   |
| TUBE AREA                    |  | 12.08 "     | 24.16 "   |
| WATER "                      |  | 12.08 "     | 24.16 "   |
| STEAM SPACE                  |  | 400 #       | 800 #     |
| GRATE AREA : HEATING SURFACE |  | 1 : 34.4    |           |
| " " " TUBE "                 |  | 1 : 27.3    |           |
| " " " AREA                   |  | 4.78 : 1    |           |
| " " " WATER "                |  | 1 : 2.37    |           |
| " " " STEAM SPACE            |  | 1 : 96.72   |           |
| % BOILER ABOVE FIREBOX       |  | 31          |           |
| WEIGHT OF WATER              |  | 22 1/2 TONS | 45 TONS   |

|                | LONG $\frac{1}{2}$ | BACK<br>END<br>CIRC $\frac{1}{2}$ | FRONT<br>END<br>CIRC $\frac{1}{2}$ |
|----------------|--------------------|-----------------------------------|------------------------------------|
| RIVET HOLE DIA | $1\frac{1}{4}"$    | $1\frac{1}{4}"$                   | $1\frac{1}{8}"$                    |
| PITCH          | $8\frac{7}{32}"$   | $3 \cdot 45"$                     | $3 \cdot 215"$                     |
| % PLATE        | 85.87              | 63.8                              | 63                                 |
| % RIVET        | 88.5               | 48.5                              | 46.9                               |

|                                  |               |                      |
|----------------------------------|---------------|----------------------|
| SHELL, BUTTSTRAPS<br>AND GIRDERS | 28 TO 32 TONS |                      |
| OTHER PLATES                     | 26 " 30 "     |                      |
| FURNACES                         | 26 " 30 "     | SIEMENS MARTIN STEEL |
| MAIN STAYS                       | 28 " 32 "     |                      |
| SCREENED STAYS                   | 26 " 30 "     |                      |
| RIVET BARS                       | 26 " 30 "     |                      |

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

BACK END CIRCUMF.  
162 PITCHES OF 3.457.



FRONT END CIRCUM  $\frac{1}{4}$   
174 PITCHES OF 3.25'

RIVET HOLES  $\frac{5}{16}$ " DIA. PLATE  $\frac{13}{64}$ " THICK  
SHELL MANHOLE COMPENSATING RING  
M<sup>rs</sup> NEIL'S DOOR

TUBEPLATE  
 & MANHOLE SIDE  
 STAYS  $2\frac{1}{4}$ " DIA  
 ENDS SWELLED TO  $2\frac{1}{2}$ " DIA  
 & SCREWED 6 THDS PER IN.  
 OUTSIDE NUT  $1\frac{3}{8}$ " DEEP.  
 INSIDE "  $1\frac{1}{4}$ " "

MANHOLE TOP STAY  $2\frac{1}{2}$ " DIA  
ENDS SWELLED TO  $2\frac{3}{4}$ " DIA  
& SCREWED 6 THDS PER INCH  
OUTSIDE NUT 2" DEEP  
INSIDE " "  $1\frac{3}{8}$  " "

14'-9" INT. D.

10'-6" MEAN LENGTH

— MAIN BOILER —

2 OFF EACH CONTRACT NO

— CON<sup>TS</sup> NOS 785-787 —

WORKING PRESSURE 180 LBS PER SQUARE INCH  
TEST " 320 " " " "

TO PASS LLOYDS SURVEY.  
SCALES :-  $1'' \& \frac{1}{2}'' = \text{ONE FOOT}$

— FIREBOX STAYS — STEE

| POSITION                    | MARK | DIA.   | (DIA. - 267) | SCREENED<br>THDS PER IN. |
|-----------------------------|------|--------|--------------|--------------------------|
| BACK                        | ○    | 1 1/8" | 1.844        | 10                       |
| TOP SIDES & BACK WIDE SPACE | ○    | 1 3/4" | 2.199        | 10                       |
| BACK TOP ROW                | ○    | 1 1/8" | 2.585        | 10                       |
| " " CORNER                  | ⊗    | 2"     | 3.003        | 10                       |

ALL FIREBOX STAYS SCREENED THRU BOTH PLATES AND NOT FITTED AT EACH END EXCEPT STAYS FROM WING FIREBOX TO SHELL AND STAYS MARKED 'C' IN BACK BOTTOM END WHICH PROJECT UP AND ARE CAULKED ALL 18" & 19" NUTS 2" DEEP EXCEPT ON GIRDER TOPS WHERE THE OUTSIDE NUTS ARE 1 1/2" DEEP  
ALL 18" & 2" NUTS 1" DEEP

K.C.

H.C.F  
26.4.23

B.Y.G  
5/6/23

W44-0128



Messrs. D. Rowan & Co. Ltd.

Contractor Nos 786 & 787

2 S.E. Boilers (Each No.).

"Hawkinge"  
W.P. 180 lbs per sq  
fr Pentraeth  
GLASGOW REPORT No. 43891  
Lth. 16575. No 785

Boilers Stamped

No 16489  
LLOYD'S TEST  
320 LBS.  
W.P. 180 LBS.  
7.5.24 J.S.C.

"Pentirion" No 787 Gls 44006  
Boilers Stamped

No 16491  
LLOYD'S TEST  
320 LBS.  
W.P. 180 LBS.  
7.5.24 J.S.C.

Lloyd's Register  
Foundation  
Approved 4.5.23  
W44-0128