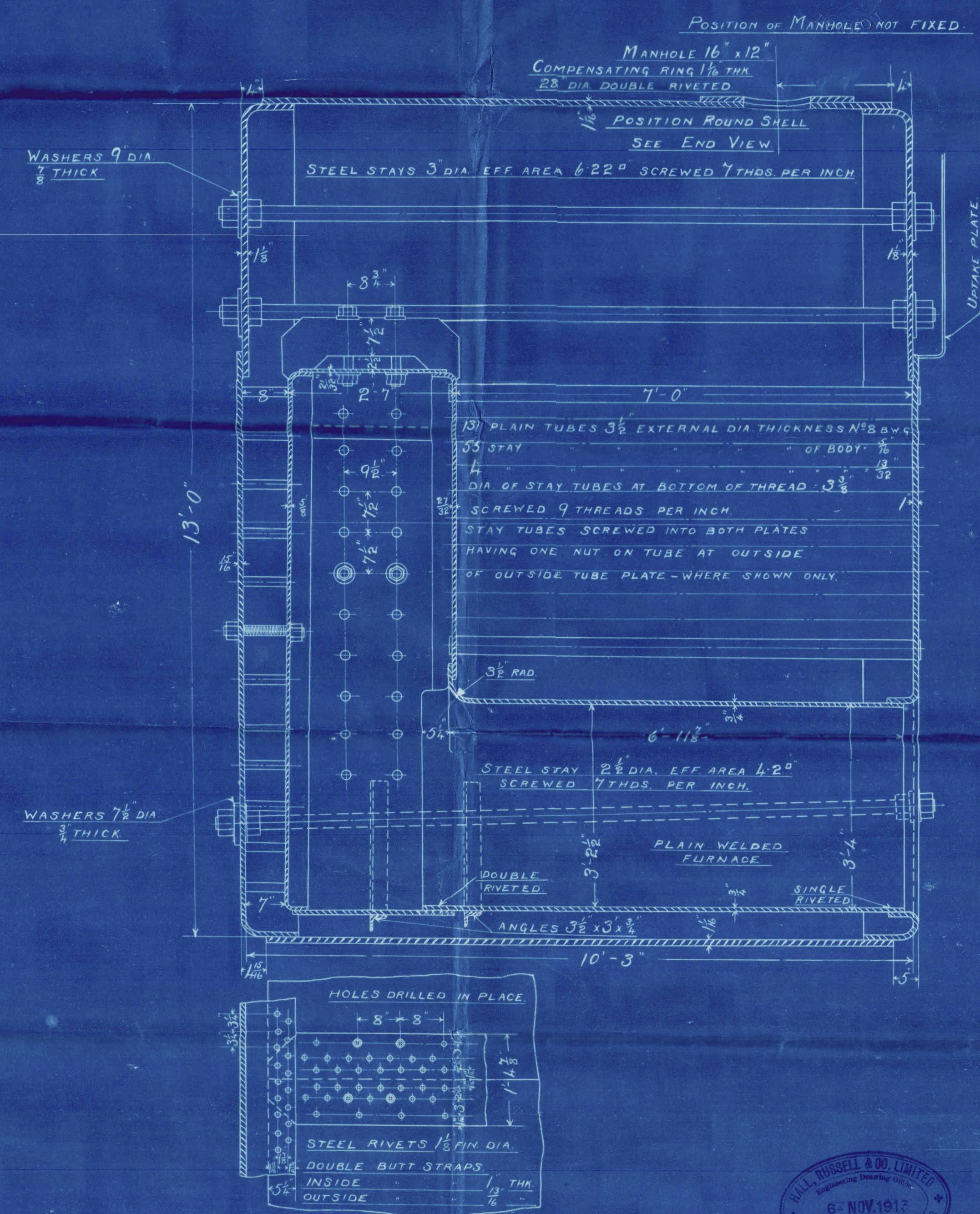
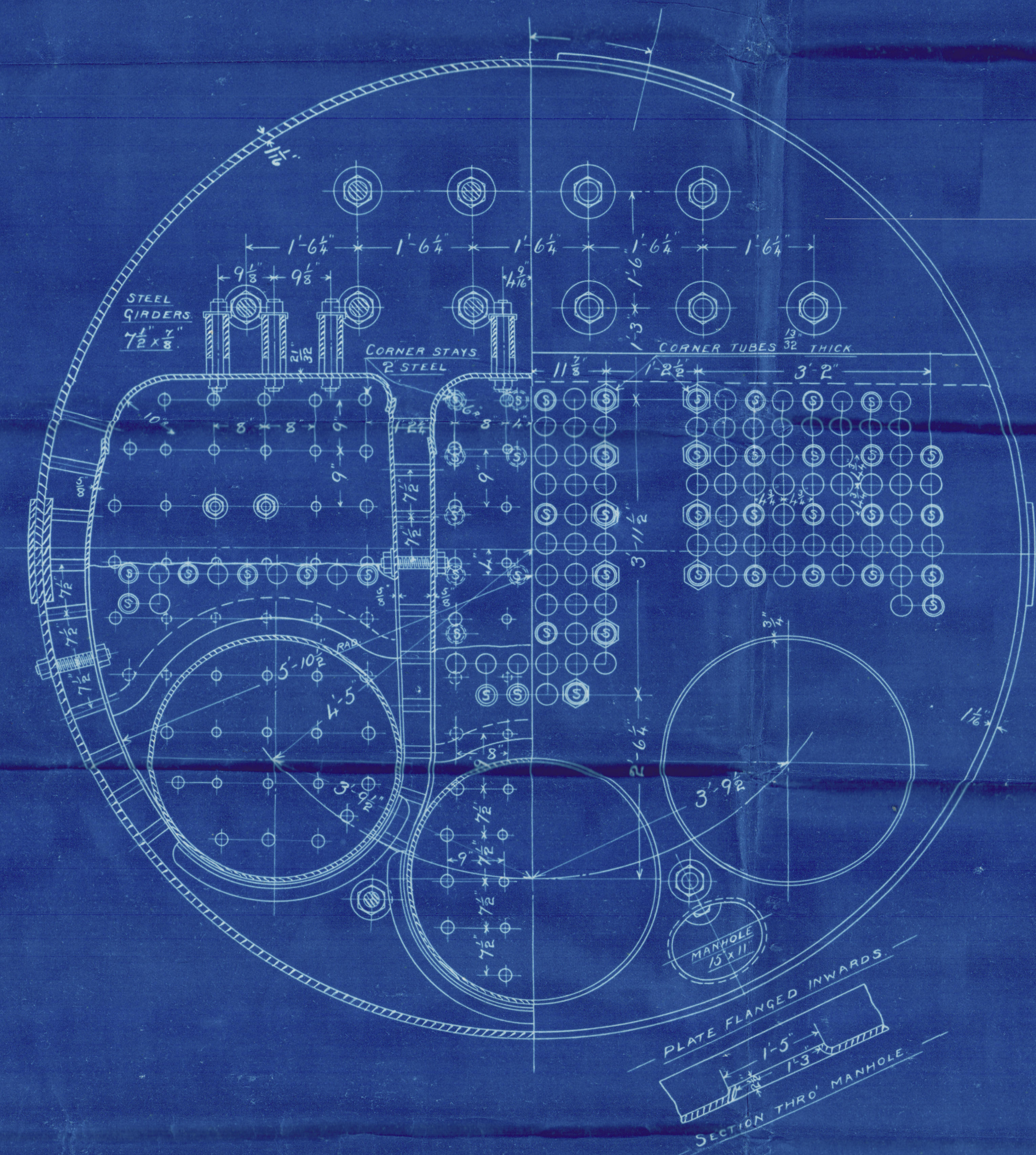


10/11/13



| THICKNESS OF PLATING. | |
|-------------------------|----------|
| CIRCUMF. SHELL STEEL | 1/16 THK |
| STAYS FOR DO | 1/8 THK |
| UPPER END PLATE FRONT | 1/8 |
| " " BACK | 1/8 |
| LOWER " FRONT | 1/8 |
| " " BACK | 1/8 |
| OUTER TUBE PLATE | 1/16 |
| INNER " " | 1/32 |
| FIREBOX BACKS | 1/16 |
| " TOPS | 1/16 |
| " BOTTOMS & SIDES | 1/16 |
| GIRDERS STEEL TWO | 1/8 |
| FURNACES STEEL | 1/8 |
| SURFACES. | |
| TUBES 190 AT 7'-0" | 1218 # |
| FURNACES | 120 " |
| FIREBOXES | 175 " |
| INNER TUBE PLATE | 30 " |
| TOTAL IN BOILER | 1543 # |
| GRATE SURFACE. | |
| FIREBARS 4'3" IN LENGTH | 41 # |
| STURROCK'S BRIDGES | 5 " |
| TOTAL | 46 # |

| WORKING PRESSURE LLOYD'S. | |
|---------------------------|-------------------------------|
| PLATE SECTION | 100(8-1/25) = 85.9% |
| RIVET | 5 x 994 x 1.75 x 85 = 86.9 |
| CIRCUMF. SHELL | 22(17-2) 85.9 = 181.7 lbs |
| UPPER END PLATES | 185 x 18 1/2 = 182.4 " |
| " " STAYS | 6.22 x 104.00 = 196 " |
| OUTER TUBE PLATE | 150 x 16 1/2 = 182.6 " |
| INNER " " | 140 x 13 1/2 = 180.9 " |
| FIREBOX BACKS | 135 x 10 1/2 = 186 " |
| " TOPS | 135 x 10 1/2 = 186.2 " |
| " SIDES | 135 x 10 1/2 = 184.3 " |
| STAYS (ORDINARY) | 1.928 x 7500 = 200 " |
| " (MARGINAL) | 2.6 x 7500 = 188 " |
| THRO' GIRDERS | 1.928 x 7500 = 181 " |
| GIRDERS | 10600 x 7 1/2 x 1 1/4 = 187 " |
| STAY TUBES CORNERS | 18.94 - 5.67 = 19.5 " |
| " ORDINARY | 18.94 - 6.49 = 187 " |
| FURNACES | 44.375 x 9.5 = 182.6 " |

FIREBOX STAYS IRON 1 1/4" DIA EFF AREA 1.928 sq. ins. SCREWED 7 THREADS PER IN.

BACK MARGINAL " 2 " 2.6 " 7 "

MINIMUM TENSILE STRENGTH OF SHELL PLATES AND BUTT STRAPS = 28 TONS PER SQUARE INCH.

MAXIMUM " " " = 32 "

— BOILER N° 548. —

— SCALE 3/4" = 1 FOOT. —

— INSIDE DIA. = 13'-0" LENGTH = 10'-3" WORK. PRESS. = 130 lbs PER " —



10/11/13
J.R.R.
10/11/13

Hall. Russell & Co.

Ings Nos 548.

Main Boiler N^o 548.

S. S. Whinkill.

Abatept. No 11484.

Now names "Duncarron"



© 2021

Lloyd's Register
Foundation

W26 + 0040