

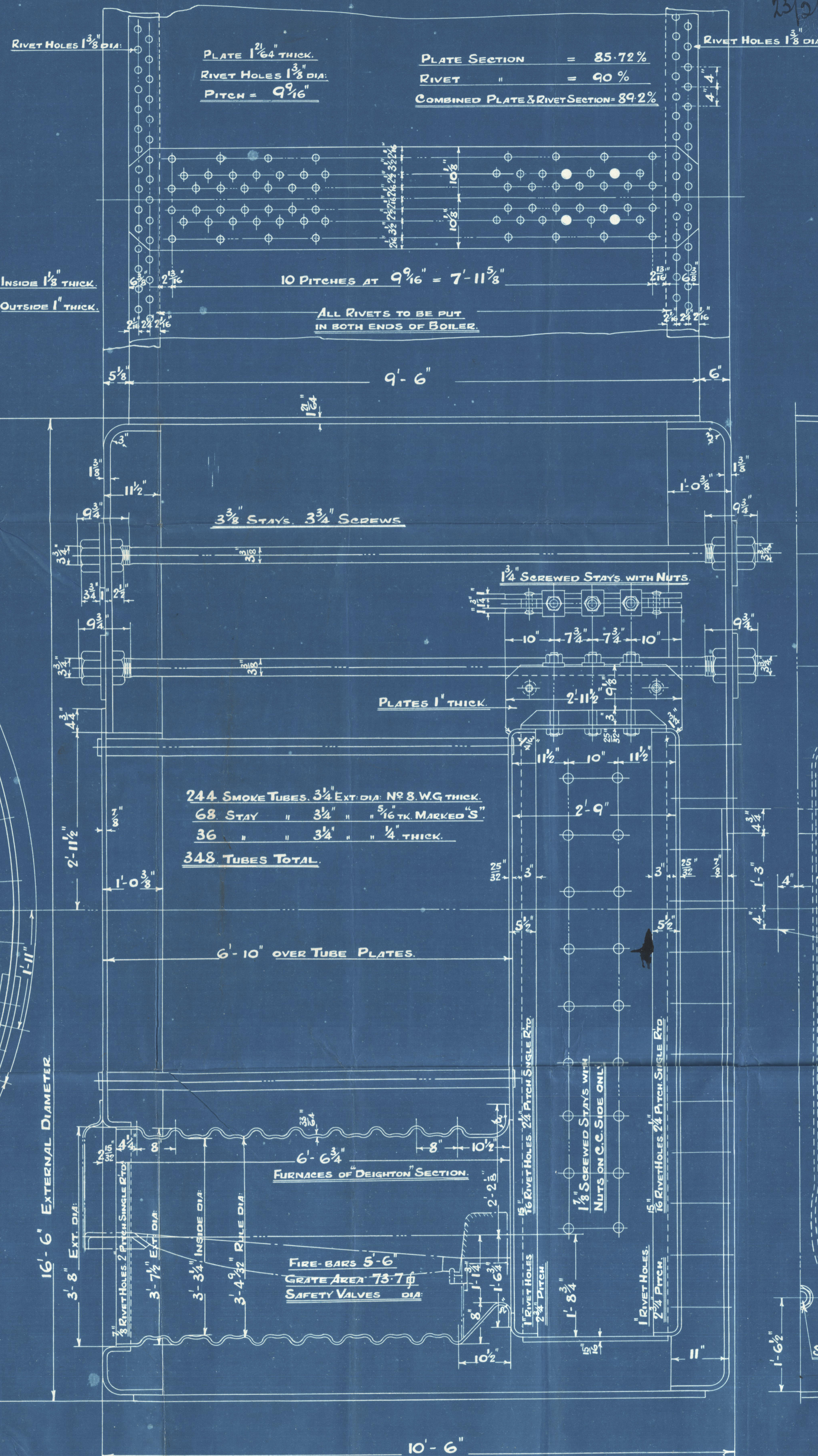
WRITTEN DIMENSIONS ONLY TO BE TAKEN.



SECTION THRO' MANHOLE.

DRAWN BY J.A.S.  
TRACED BY M.R.A.D.  
CHECKED BY J.A.S.

1.2.1925



|   |   |                       |
|---|---|-----------------------|
| To PASS LLOYD'S SURVEY.                     |   |                       |
| SHELL = $(42.5 - 2) \times 85.72$           | = | 180.9 LBS PER SQ. FT. |
| WORKING PRESSURE                            | = | 180 " "               |
| TEST  | = | 320 " "               |
| HEATING SURFACE ON TUBES.                   | = | 2020 SQ. FT.          |
| " " OTHER PARTS.                            | = | 580 " "               |
| " " TOTAL.                                  | = | 2600 " "              |
| EX. FRONT TUBE PLATE.                       | = | 2550 " "              |
| EFFECTIVE AREA OF STAYS.                    |   |                       |
| 3 3/4" STAY TUBES 3/16" 9 THREADS PER IN.   | = | 2.17 SQ. INCHES.      |
| 3 3/4" " " 1/4" 9 " " "                     | = | 1.64 " "              |
| 3 3/4" MAIN STAYS 6 " " "                   | = | 8.94 " "              |
| 2 1/4" " " 6 " " "                          | = | 3.26 " "              |
| 2" SCREWED STAYS 9 " " "                    | = | 2.71 " "              |
| 1 1/8" " " 9 " " "                          | = | 2.36 " "              |
| 1 3/4" " " 9 " " "                          | = | 2.03 " "              |
| ALL PLATES, RIVETS & STAYS - STEEL.         |   |                       |
| TUBES - WROUGHT IRON.                       |   |                       |
| HOLES TO BE DRILLED IN PLACE AFTER BENDING. |   |                       |
| TENSILE STRENGTH OF SHELL PLATES            | = | 28 TO 32 TONS " "     |
| " " GIRDER                                  | = | 28 TO 32 " "          |
| " " OTHER                                   | = | 26 " 30 " "           |
| " " MAIN STAYS                              | = | 28 " 32 " "           |
| " " SCREWED                                 | = | 26 " 30 " "           |

MANHOLE 1'-4" x 1'-0"  
FLANGED IN END PLATE

STAYS SHOWN WITH NUTS 2" DIA.  
WITH NUTS ON BOTH ENDS.

OTHER STAYS 1 1/2" DIA.  
WITH NUTS ON BOTH ENDS. 8"

Sunderland

N.E. Marine C 2609

one main Rock  
for

S.P. Austin S.S 309.  
S.S FIREGLOW

W.P 180 lbs

|              |
|--------------|
| No. 3923     |
| LLOYD'S TEST |
| 320 lbs.     |
| WP 180 lbs   |
| BA 16-6-25   |

SUNDERLAND RPT. No. 29114

W37-0112



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Foundation