

SUNDERLAND ENGINE WORKS.

BOILER.

SCALE - 1 INCH TO A FOOT.

SCHEDULE "L"

WRITTEN DIMENSIONS ONLY TO BE TAKEN.



RIVET HOLES 1 1/8 DIA.

PLATE 63" THICK.
RIVET HOLES 1 1/8 DIA.
PITCH = 9 1/2"

PLATE SECTION = 87%
RIVET " = 89.5%

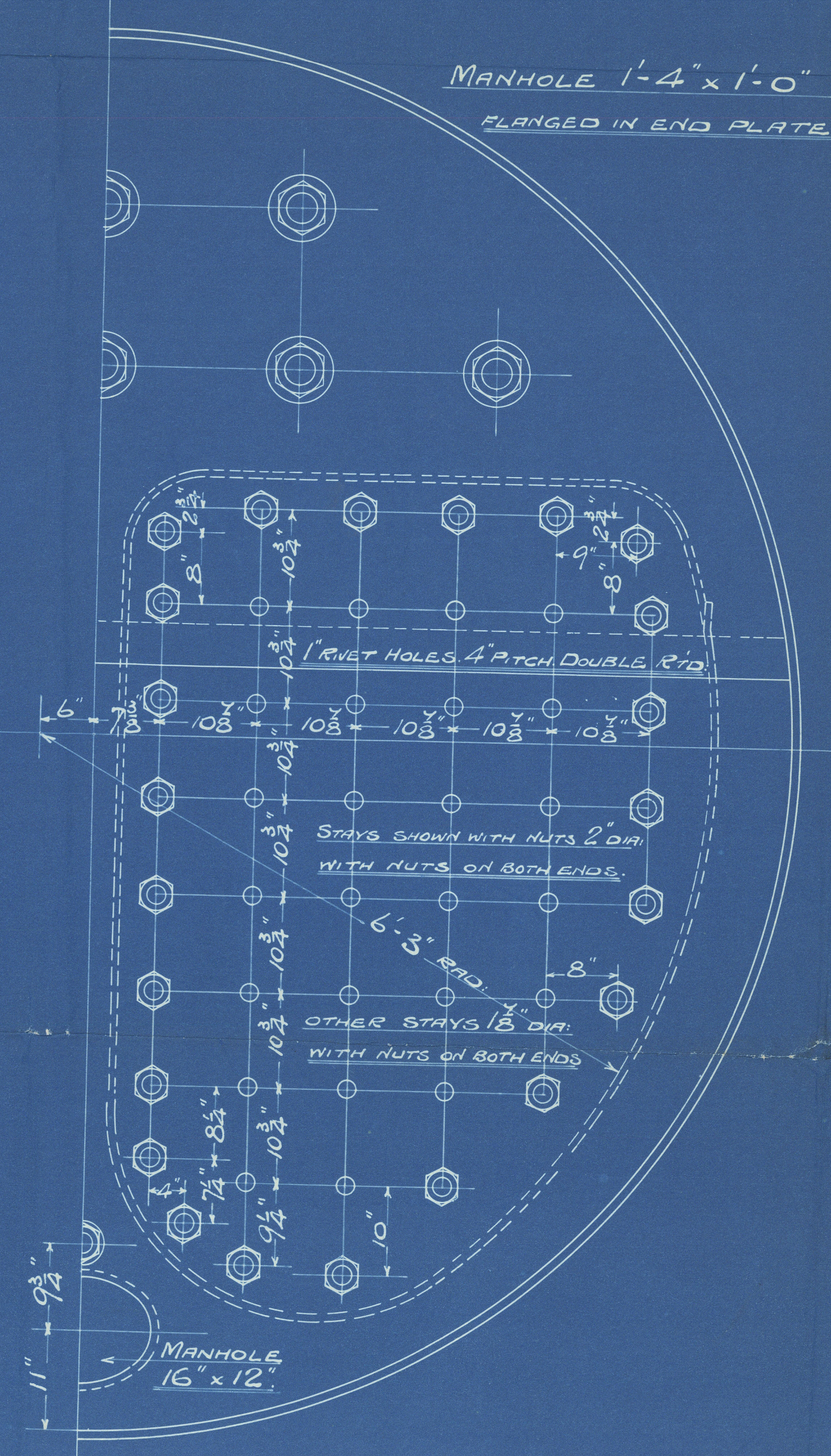
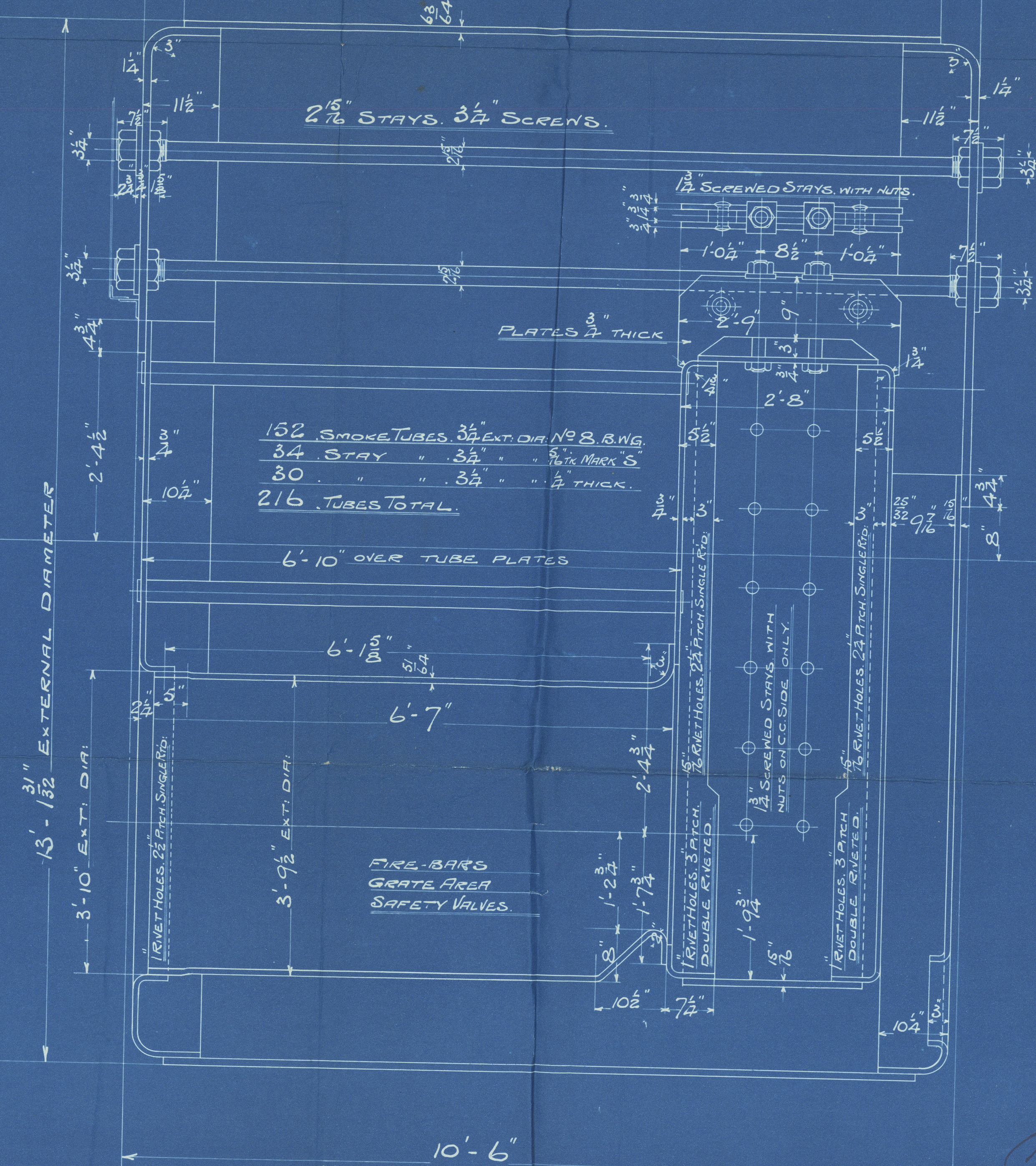
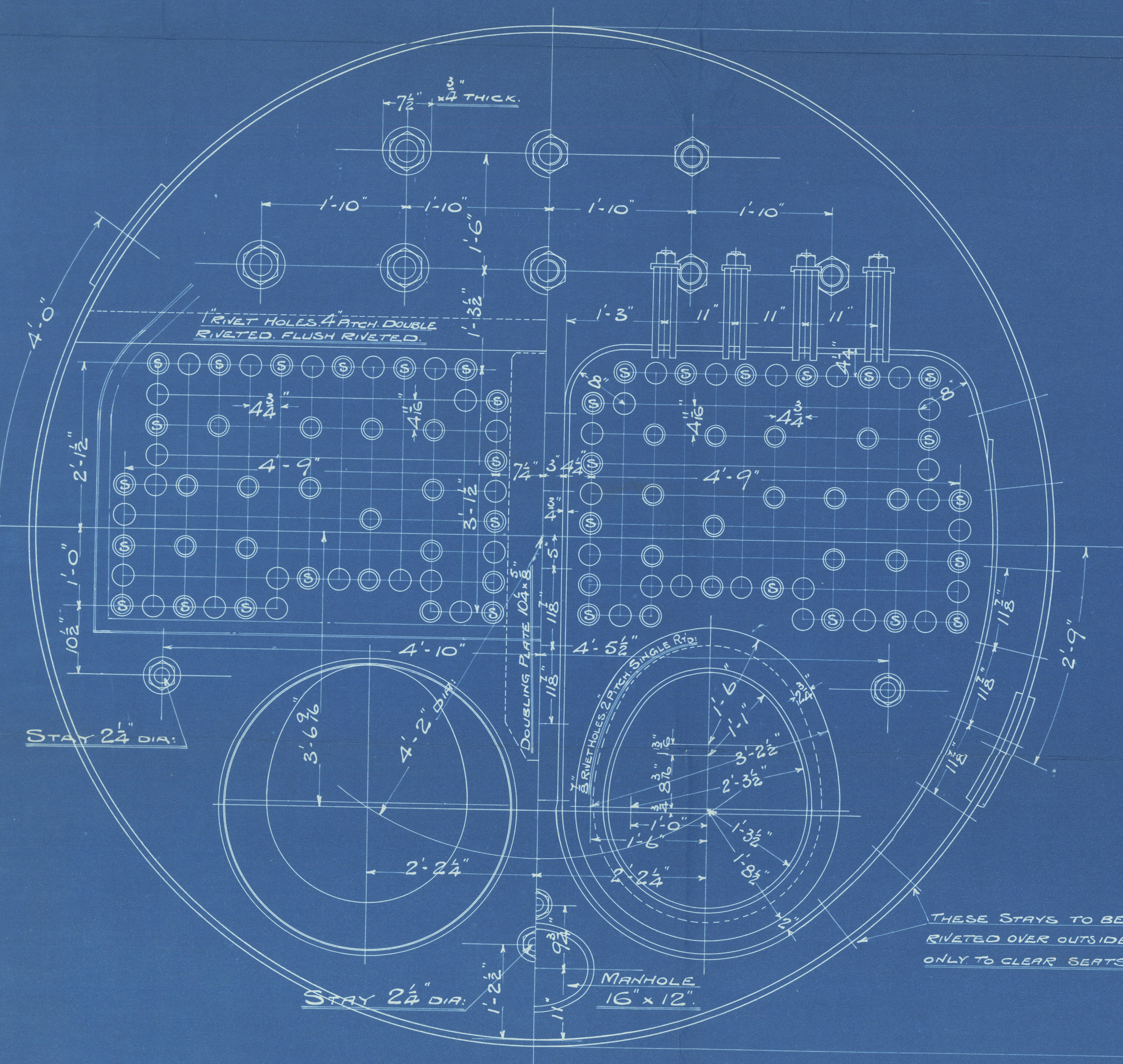
RIVET HOLES 1 1/8 DIA.

BUTT STRAPS { INSIDE 63" THICK.
OUTSIDE 63" THICK.

ALL RIVETS TO BE PUT EVERY ALTERNATE RIVET TO BE LEFT OUT
IN FRONT END OF BOILER OF INSIDE ROW FOR 3 CIRC. TOP OF BOILER.
8 ALL RIVETS TO BE PUT IN FOR 3 CIRC. AT
BOTTOM - AT BACK END OF BOILER.

TO PASS LLOYD'S SURVEY.

SHELL = $\frac{22 \times 24.875 (16.75 - 2) \times 7}{28 \times 15.6}$	= 180 LBS PER SQ.
WORKING PRESSURE.	180 " " "
TEST	360 " " "
HEATING SURFACE ON TUBES.	1256 SQ. FT.
" " OTHER PARTS	322 " " "
" " TOTAL	1578 " " "
EX. FRONT TUBE PLATE	1546 " " "
EFFECTIVE AREA OF STAYS	
3 1/2" STAY TUBES, 16 1/2" THRODS PER IN.	2.17 SQ. INS.
3 1/2" " " 9" " " " " " " "	1.64 " " "
2 1/2" MAIN STAYS, 6" " " " " " " "	6.78 " " "
2 1/2" " " 6" " " " " " " "	3.26 " " "
2" SCREWED " 11" " " " " " " "	2.79 " " "
1 1/2" " " 11" " " " " " " "	2.43 " " "
1 1/2" " " 11" " " " " " " "	2.1 " " "
ALL PLATES, RIVETS, & STAYS - STEEL -	
TUBES - WROUGHT IRON -	
HOLES TO BE DRILLED IN PLATE AFTER BENDING.	
TENSILE STRENGTH OF SHELL PLATES 29.8 TO 33 TENS.	
" " " GIRDER " 28 " 32 " "	
" " " MAIN STAYS, 28 " 32 " "	



DRAWN BY J.A.S.
CHECKED BY -
TRACED BY J.A.S.
CHECKED BY -

22-12-14

CONTRACT 2212.2 OFF
CONTRACT 2213.2 OFF

RETAIN

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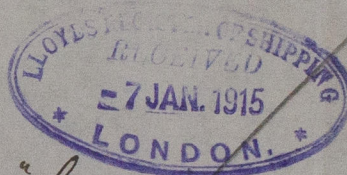
WITH NUTS ON BOTH ENDS

N.E.M.E. Co. LD
C. No 2213

MAIN BOILERS

2. OFF.

No. 3349
LLOYD'S TEST
360 lbs.
28.7.16 C.C.



Lightfoot

SUNDERLAND RPT. No. 26835

J. CROWN & SONS, LD

2/3 No. 159.

DUP C. No 2212



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