

SUNDERLAND ENGINE WORKS

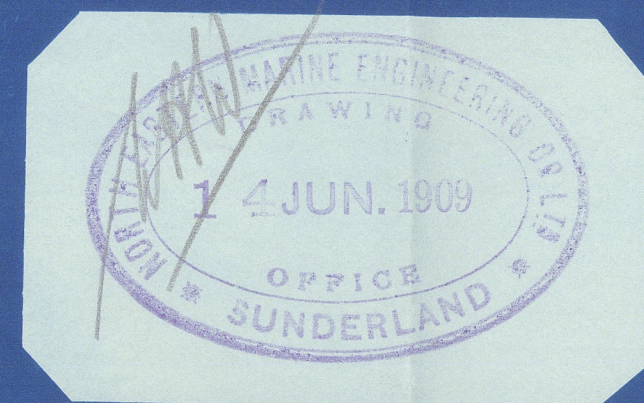
BOILER

TRACING 2732.

SCALE - 1-INCH TO A FOOT

SCHEDULE "L"

WRITTEN DIMENSIONS ONLY TO BE TAKEN



RIVET HOLES 1 1/2" DIA.

PLATE 1 3/32" THICK.
RIVET HOLES 1 1/2" DIA.
PITCH 9 1/4"

PLATE SECTION 86.9%
RIVET " 85.6%

RIVET HOLES 1 1/2" DIA.

BUTT STRAPS { INSIDE 1" THK
OUTSIDE 1" THK

10. PITCHES @ 9 1/4" = 4' 8 1/2"
EVERY ALTERNATE RIVET TO BE LEFT OUT OF
ALL RIVETS TO BE PUT IN INSIDE ROW FOR 3/4" CIRCUMFERENCE - TOP OF BOILER
FRONT END OF BOILER. & ALL RIVETS TO BE PUT IN 3/4" CIRCUMFERENCE
BOTTOM - AT BACK END OF BOILER.

9'-6"

3 1/2" STAYS 3 1/2" SCREWS.

240 SMOKE TUBES 3 1/2" EXT. DIA. N° 9 B.W.G. THK.
52 STAY " 3 1/2" " 7/16" THK MARKED S.
34 " " 3 1/2" " 1/4" THICK.
326 TUBES TOTAL.

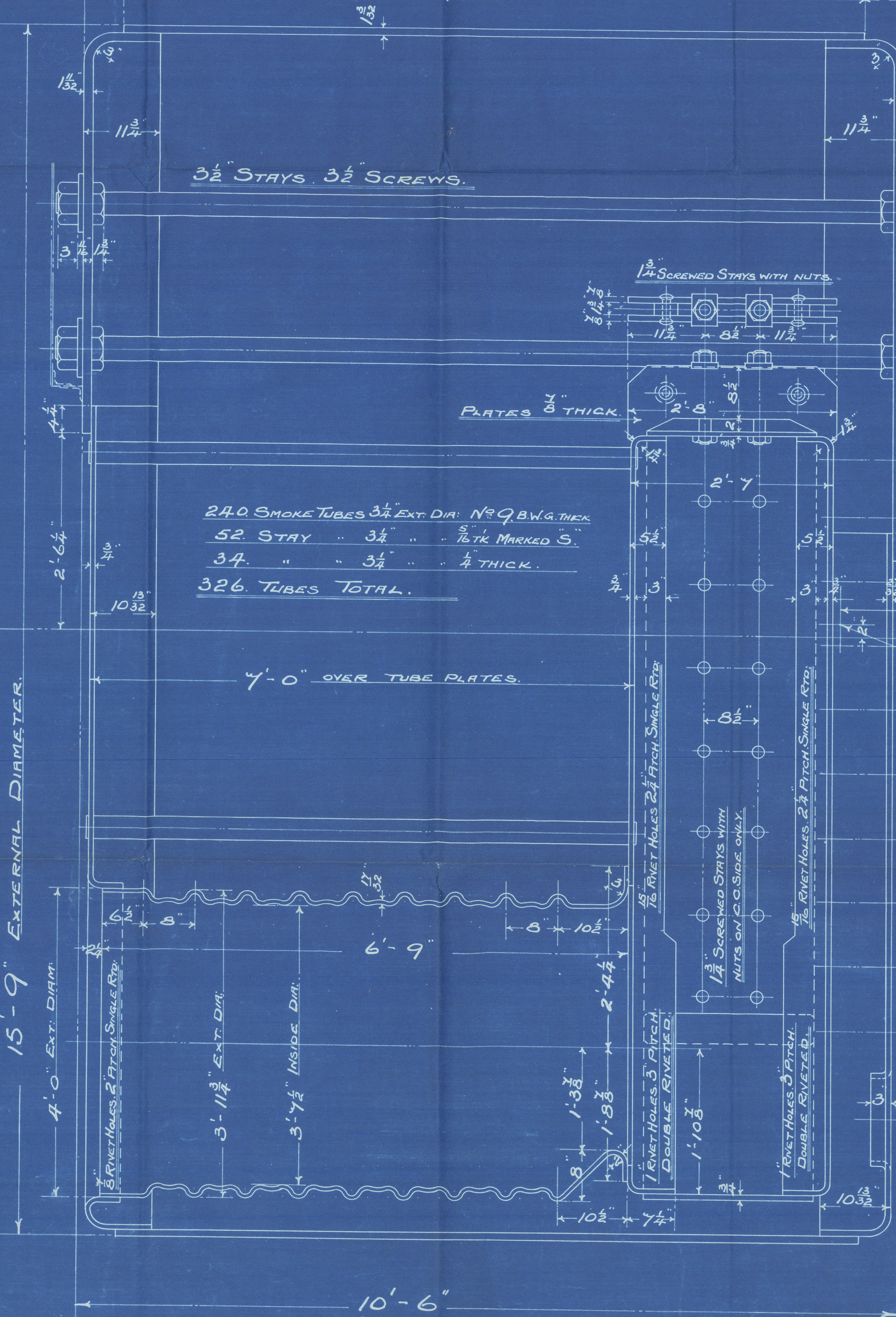
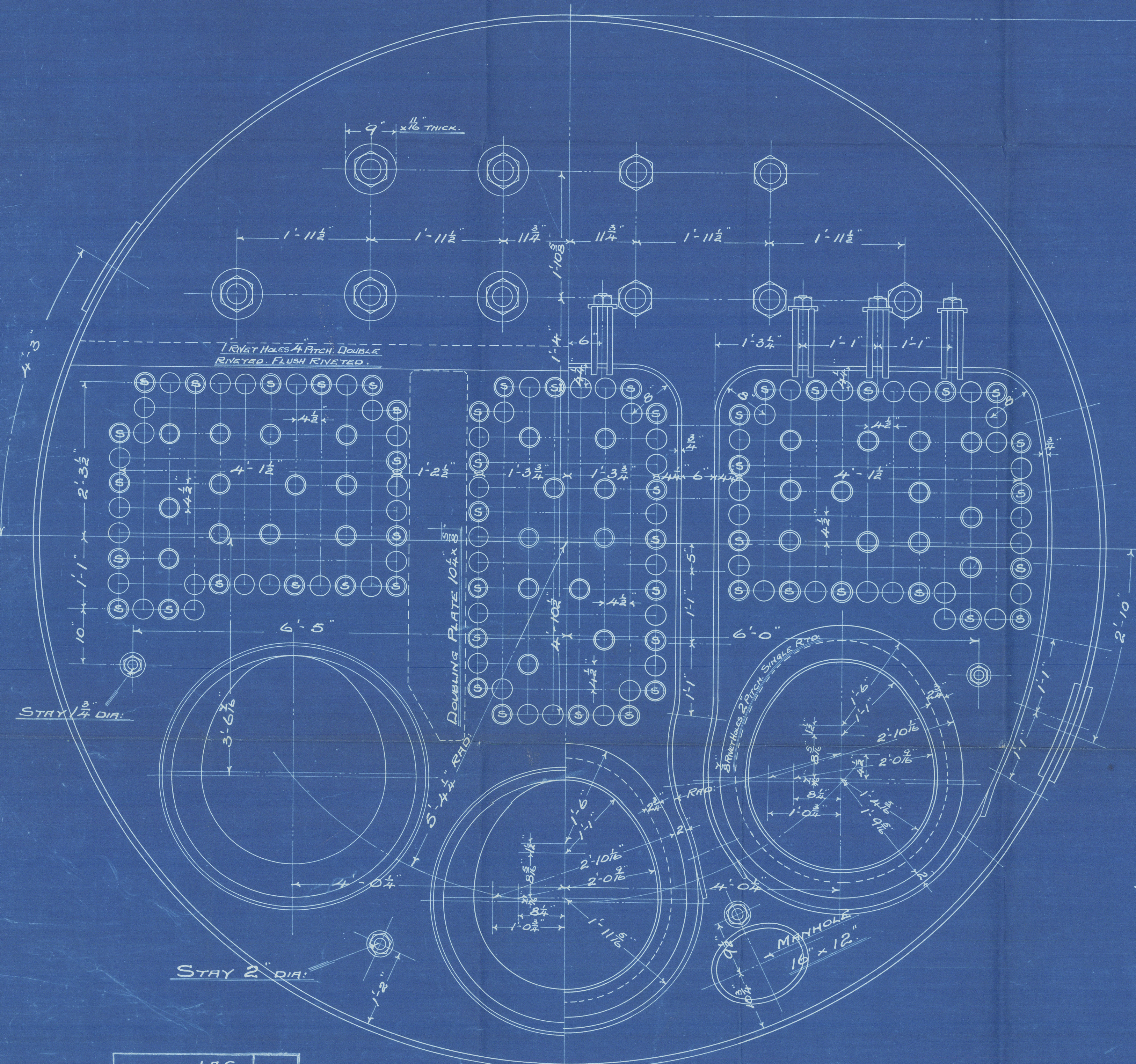
4'-0" OVER TUBE PLATES.

6'-9"

10'-6"

MANHOLE 1'-4" x 1'-0"
FLANGED.

TO PASS LLOYD'S SURVEY.	
SHELL 22.58 (17.5-2) 85.6	= 160.3 LBS PER SQ. IN.
WORKING PRESSURE	160 " " "
TEST	320 " " "
HEATING SURFACE ON TUBES	1942 SQ. FEET
" " OTHER PARTS	508 " " "
" " TOTAL	2450 " " "
EX. FRONT TUBE PLATE	2400 " " "
EFFECTIVE AREA OF STAYS	
3 1/2" STAY TUBES 5/16" 9 THREADS PER IN.	2.17 SQ. INCHES
3 1/2" " " 1/4" 9 " " "	1.64 " " "
3 1/2" MAIN STAYS 6 " " "	8.48 " " "
2" " " 6 " " "	2.51 " " "
1 1/2" " " 6 " " "	1.85 " " "
1 1/2" SCREWED " 11 " " "	2.43 " " "
1 1/2" " " 11 " " "	2.1 " " "
ALL PLATES, RIVETS & STAYS - STEEL -	
TUBES - WROUGHT IRON -	
HOLES TO BE DRILLED IN PLACE AFTER BENDING	
TENSILE STRENGTH OF SHELL PLATES NOT LESS THAN 28 TONS	
" " GIRDER	" " 28 " "
" " MAIN STAYS	" " 28 " "



DRAWN BY J.A.S.
CHECKED BY
TRACED BY G.B.
CHECKED BY
TRACING No. 2732.

NORTH EASTERN MAR. ENG. CO^s

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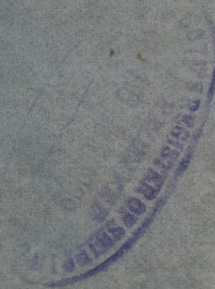
S.P. AUSTIN & SONS. S.S. No. ~~251~~

1604

% Lady Helen

Old. J.E. No 24263.

RETAIN



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