

SUNDERLAND ENGINE WORKS

BOILER

TRACING 3861 SCALE.— 1 INCH TO A FOOT SCHEDULE 'L'

WRITTEN DIMENSIONS ONLY TO BE TAKEN



BUTT STRAPS
INSIDE 1" TK
OUTSIDE 1" TK

PLATE 1/2" THICK
RIVET HOLES 1 3/16" DIA.
PITCH = 8 13/16"

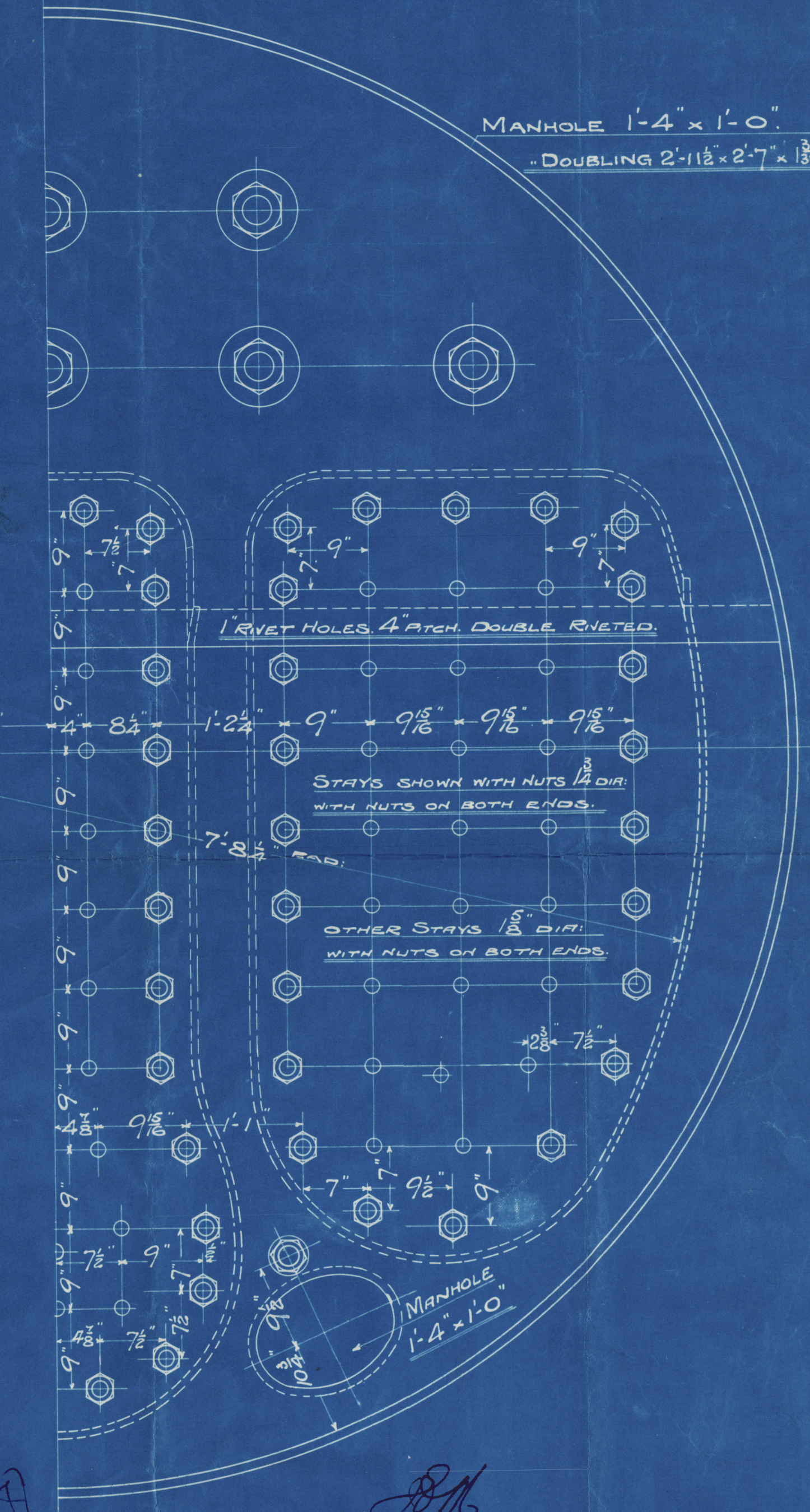
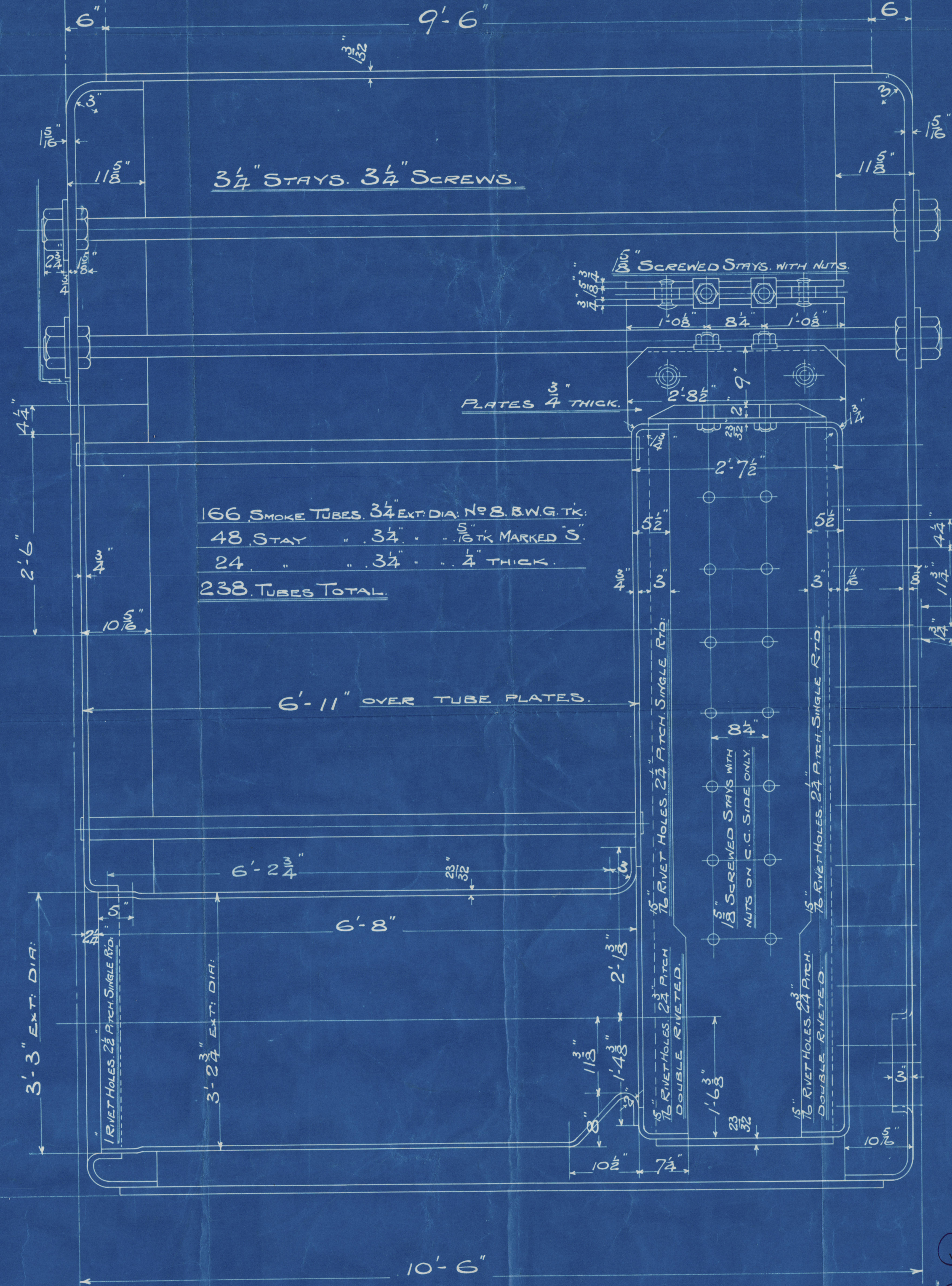
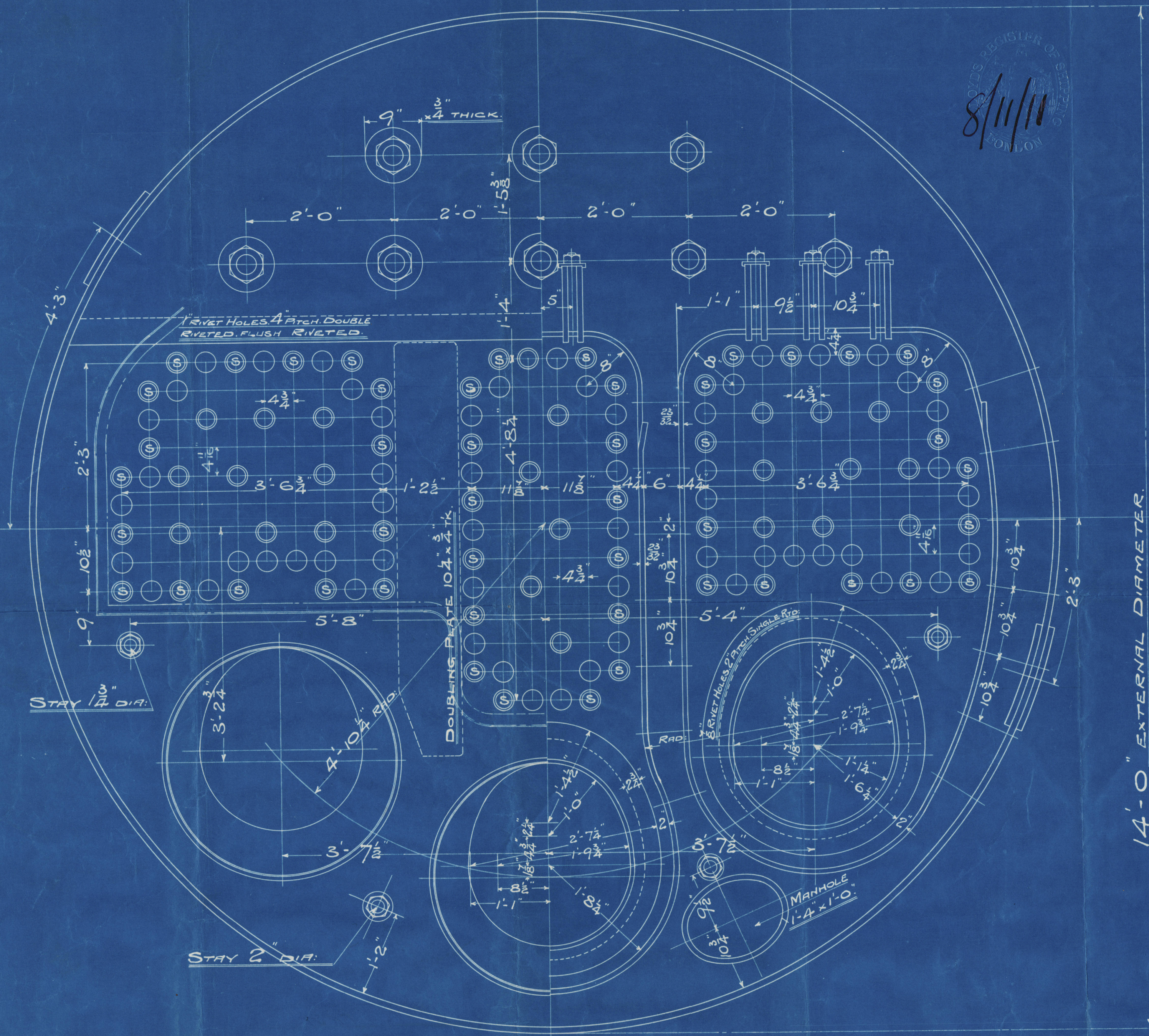
PLATE SECTION = 86.5%
RIVET " = 85.4%

11 PITCHES @ 8 13/16" = 8' 0 15/16"

ALL RIVETS TO BE PUT IN THE
FRONT END OF BOILER.

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

TO PASS "LLOYD'S" SURVEY			
SHELL	22.58 (17.5-2) 85.4	165.8125	180.2 LBS PER " "
WORKING PRESSURE	180	"	"
TEST	360	"	"
HEATING SURFACE ON TUBES	1401	SQ. FT.	
" " OTHER PARTS	401	"	"
" " TOTAL	1802	"	"
EX: FRONT TUBE PLATE	1762	"	"
EFFECTIVE AREA OF STAYS			
3 1/2" STAY TUBES 5/8" THICKS PER INCH	2.17	SQ. INS.	
3 1/2" " " 4" " 9"	1.64	"	"
3 1/2" MAIN STAYS 6"	7.24	"	"
2" " " 6" " " 6"	2.51	"	"
1 1/2" " " 6" " " 6"	1.85	"	"
1 1/2" SERENED " " 11" " " 11"	2.10	"	"
1 1/2" " " 11" " " 11"	1.79	"	"
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 3/4 TONS			
" " GIRDER	28	"	"
" " MAIN STAYS	28	"	"



LIBRARY
J.A.S.
J.A.S.
3861

APR 8/11/11

CONTRACT 2050.2 OFF.
CONTRACT 2058.2 OFF.

W 218 0078

M. BOILEY

2058

N.E. MARINE. E.C. L. SLD

FOR

W. DOBSON & CO

S. S. N^o 177

Duplicate of 2050 app^d 26.8.11.

~~Old App. 25/39~~

Sil. Elcet

Wm 62072

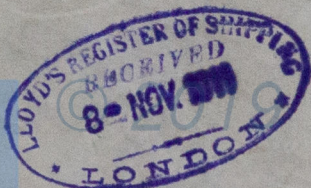
N.N. Stangate

LLOYDS TEST

N^o 2990

360 LBS.

23-1-12 W.B.



LR
W218-0078

Lloyd's Register
Foundation