

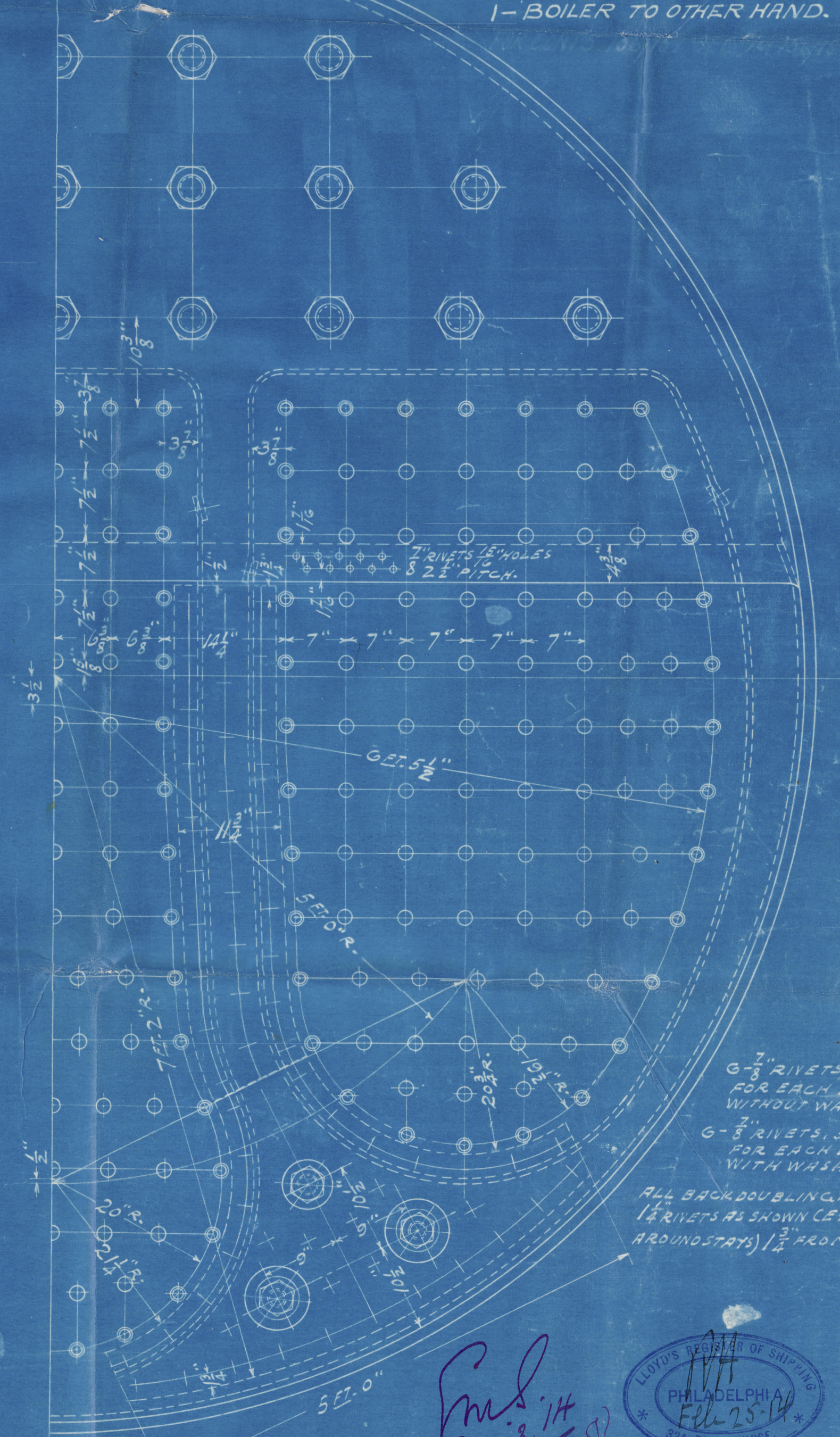
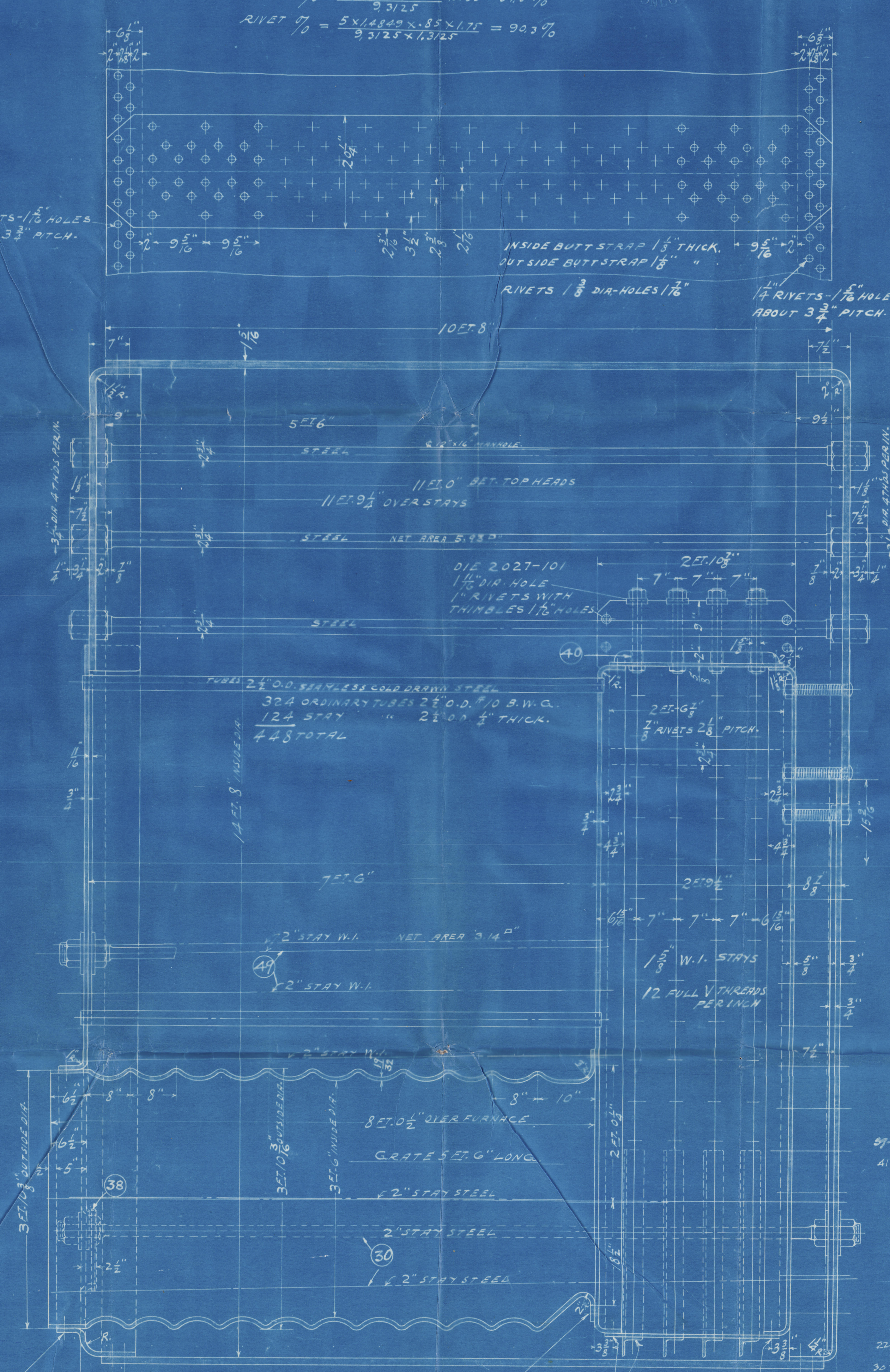
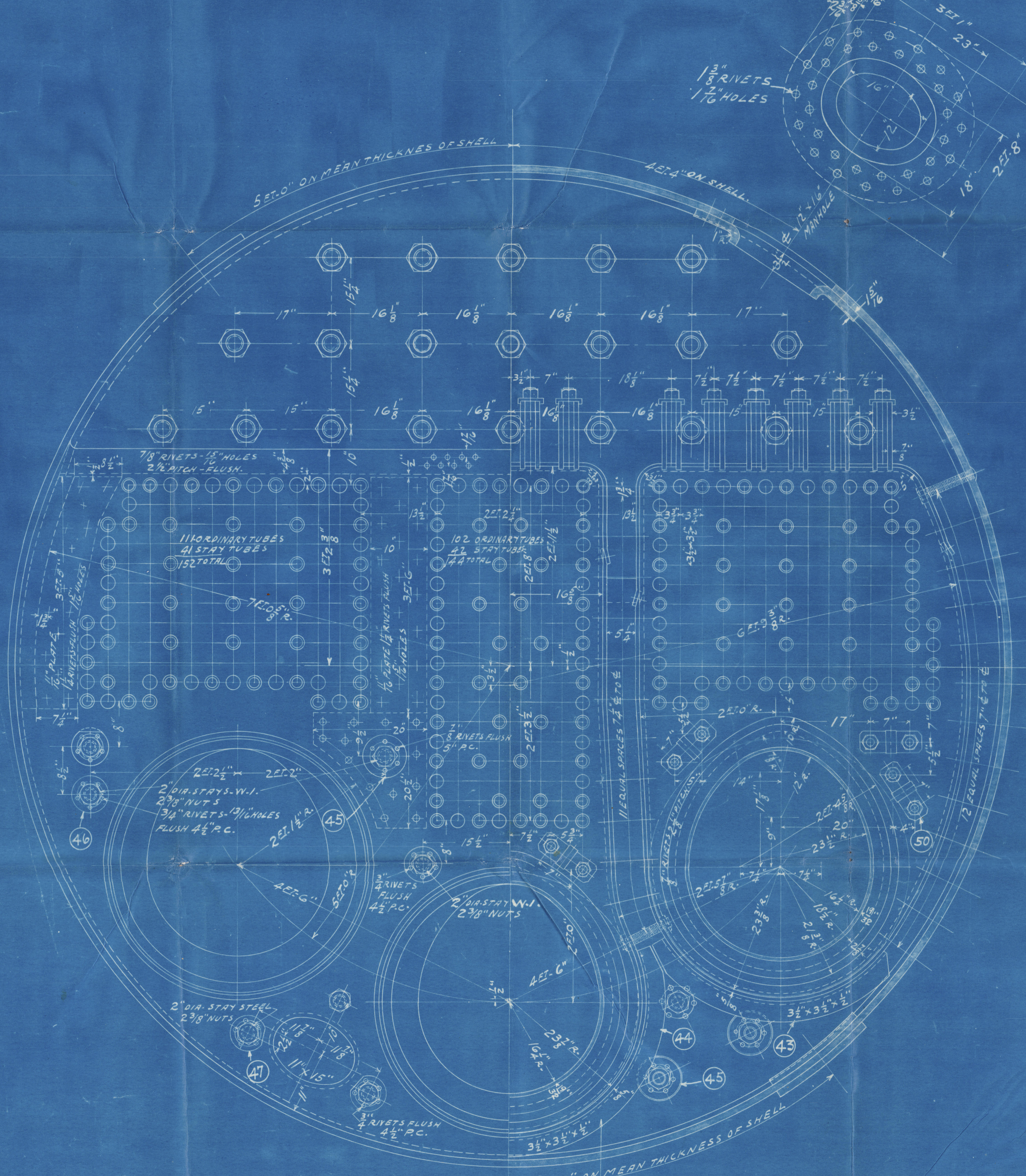
BUREAU OF COMMERCE & LABOR
 PLATE 70 = $\frac{9.3125 - 1.4375 \times 100}{9.3125} = 84.5\%$
 RIVET 70 = $\frac{5 \times 1.623 \times 1.75 \times .85 \times 100}{9.3125 \times 1.3125} = 98.1\%$
 LLOYD'S RULE
 PLATE 70 = $\frac{9.3125 - 1.4375 \times 100}{9.3125} = 84.5\%$
 RIVET 70 = $\frac{5 \times 1.623 \times 1.75 \times .85 \times 100}{9.3125 \times 1.3125} = 98.1\%$

12/8/14

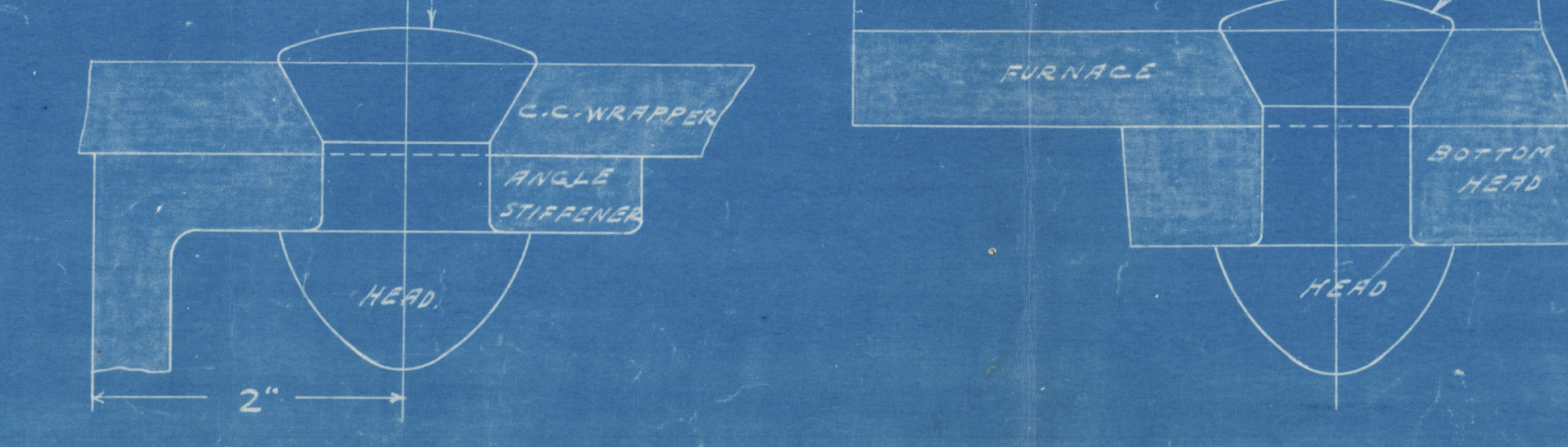
DESCRIPTION	THICKNESS	U.S. RULES	LLOYD'S RULES	NOTES
SHELL	1/8"	$P = \frac{6000 \times 1.3125 + 20\%}{1.3125} = 199\%$	$P = \frac{22 \times 1.3125 \times 84.5}{1.3125} = 199\%$	BOILER DATA - ONE BOILER
FURNACE	3/8"	$P = \frac{6000 \times 5.937}{44} = 210\%$	$P = \frac{22 \times 5.937 \times 84.5}{44} = 204\%$	TUBES
TOP HEAD PLATE	1/8"	$P = \frac{175 \times 1.75}{175} = 196\%$	$P = \frac{175 \times 1.75}{175} = 217\%$	FURNACE
TOP HEAD STAYS	3/8"	$S = \frac{17 \times 1.75 \times 1.75}{5.937} = 8293\%$		COMB. CHAMBER
TUBE PLATE	3/8"	$P = \frac{3.3125 \times 1.75 \times 27000}{5.937 \times 1.3125} = 235\%$	$P = \frac{3.3125 \times 1.75 \times 27000}{5.937 \times 1.3125} = 253\%$	BACK TUBE PLATE
C.C. CROWN PLATE	5/8"	$P = \frac{135 \times 1.75}{7.5} = 240\%$	$P = \frac{135 \times 1.75}{7.5} = 256\%$	TOTAL H.S.
C.C. CROWN STAYS	5/8"	$S = \frac{7.5 \times 1.75 \times 1.75}{1.75} = 5836\%$		GRATE SURFACE
C.W. CROWN PLATE	5/8"	$P = \frac{135 \times 1.75}{7.5} = 256\%$	$P = \frac{135 \times 1.75}{7.5} = 265\%$	M.S.
C.W. CROWN STAYS	5/8"	$S = \frac{7.5 \times 1.75 \times 1.75}{1.75} = 5642\%$		CALORIMETER
C.C. BACK PLATE	5/8"	$P = \frac{135 \times 1.75}{7.5} = 240\%$	$P = \frac{135 \times 1.75}{7.5} = 256\%$	G.S.
C.C. BACK STAYS	5/8"	$S = \frac{7.5 \times 1.75 \times 1.75}{1.75} = 5836\%$		CAL.
C.W. BACK PLATE	5/8"	$P = \frac{135 \times 1.75}{7.5} = 256\%$	$P = \frac{135 \times 1.75}{7.5} = 265\%$	
C.W. BACK STAYS	5/8"	$S = \frac{7.5 \times 1.75 \times 1.75}{1.75} = 5836\%$		

TENSILE STRENGTH OF SHELL PLATES & GIRDERS 65000 TO 71680 LBS.
 " PLATE " 58240 TO 67200 "
 WORKING PRESSURE 190 LBS PER SQ. IN.
 WATER TEST " 285 " " "
 EVAPORATION 270 LBS. OF WATER PER SQ. FT. OF GRATE PER HOUR.
 TWIN SAFETY VALVE COMBINED AREA OF 4 1/2" DIA.
 FOR DETAILS OF BOTTOM HEAD STAYS
 SEE DR. 125-561-3

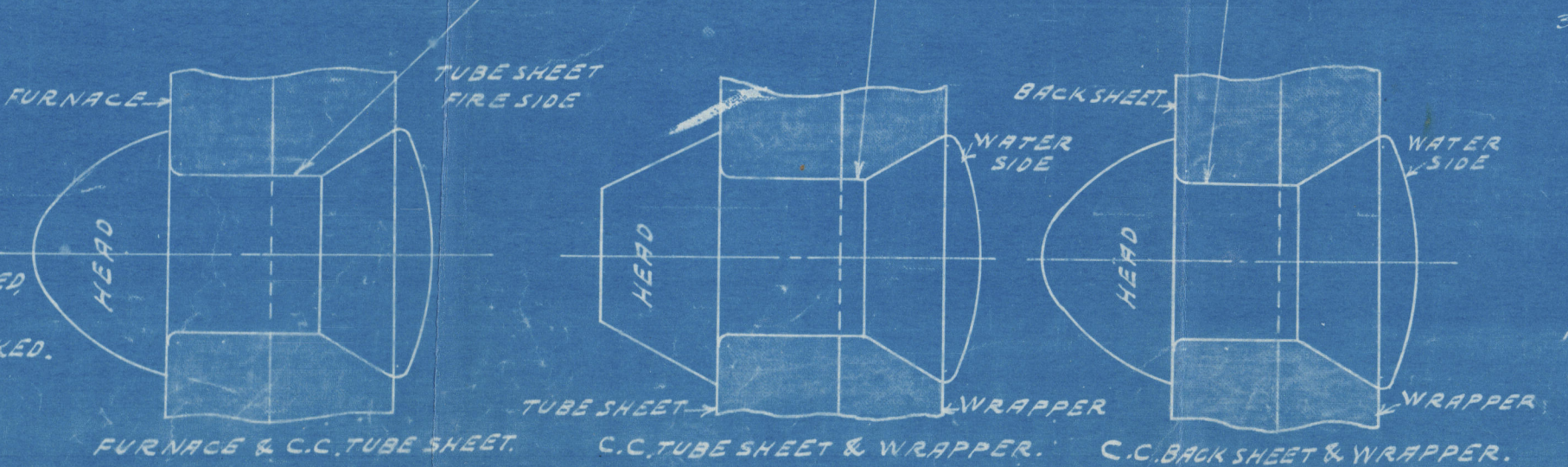
2-BOILERS AS DRAWN
 1-BOILER TO OTHER HAND.



ALL FRONT DOUBLING PLATES
 HAVE 1/2" RIVETS AS SHOWN
 (EXCEPT AROUND STAYS)
 1/2" FROM EDGE C.S. AND FLUSH RIVETED.



ALL DOUBLING EDGES OF BOILER
 PLATE TO BE MACHINE PUNCHED
 SEAMS, BUTTS, AND LAPS TO FIT
 CLOSELY DRAWN UP, METAL TO
 METAL, AND AFTER BEING RIVETED
 CRACKED INSIDE AND OUTSIDE.
 ALL REINFORCE PLATES TO BE CRACKED.



ALL SCREW STAYS W.I.
 SCREW STAYS ON BACK HEAD MARKED THUS
 2" DIA. NUTS 1/2" DEEP NET AREA 2.692"

SCREW STAYS ON BACK HEAD MARKED THUS
 1" DIA. NUTS 1" DEEP NET AREA 1.000"
 WRAPPER SCREW STAYS 1/2" DIA. NUTS 1" DEEP
 GIRDER SCREW STAYS 1/2" DIA. NUTS 1" DEEP
 ALL SCREW STAYS HAVE 12 FULL V THREADS
 PER INCH.
 ALL SCREW STAYS TO HAVE 1/2" HOLE DRILLED 1/2"
 BEYOND INNER SURFACE OF PLATE.

PHILADELPHIA
 FEB 25 1915
 125-561-1

ENGINE DEPARTMENT
 14 1/2" DIA. X 11 1/2" BET. HEADS
 S.E. SCOTCH BOILER.
 190 LBS. WORKING PRESS.
 SCALE 1" = 1' DATE 11-2-14
 TRACED BY 555 CHECKED BY 223
 CHIEF DRAFTSMAN
 NEW YORK SHIP BUILDING COMPANY
 CAMDEN, NEW JERSEY, U.S.A.
 125-561-1

NEW YORK SHIPBUILDING CO.
CAMDEN, N.J., U.S.A.
BLUE PRINT ROOM

Print No. 44

Made JAN 7 1914

For Dep't MAILING



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Lloyd's Register
Foundation

PHILADELPHIA

New York S.B. &
3 Main Boilers
Contract 156-~~7~~

W.P. 190~~7~~

No 62

LLOYD'S TEST

285 ~~7~~/₁₀

4.11.14.

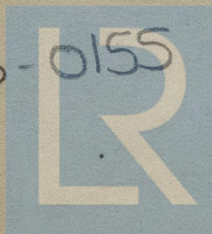
R. H

"Report" ex

S.S. Gulfight. Cont: No 156

PHILADELPHIA. Rpt. No 2160

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