

BUREAU OF COMMERCE & LABOR
 PLATE $\frac{7}{16}$ = $\frac{9.3125 - 1.4375}{9.3125} \times 100 = 84.5\%$
 RIVET $\frac{7}{16}$ = $\frac{5 \times 1.4375 \times .85 \times 100}{9.3125 \times 1.3125} = 98.7\%$

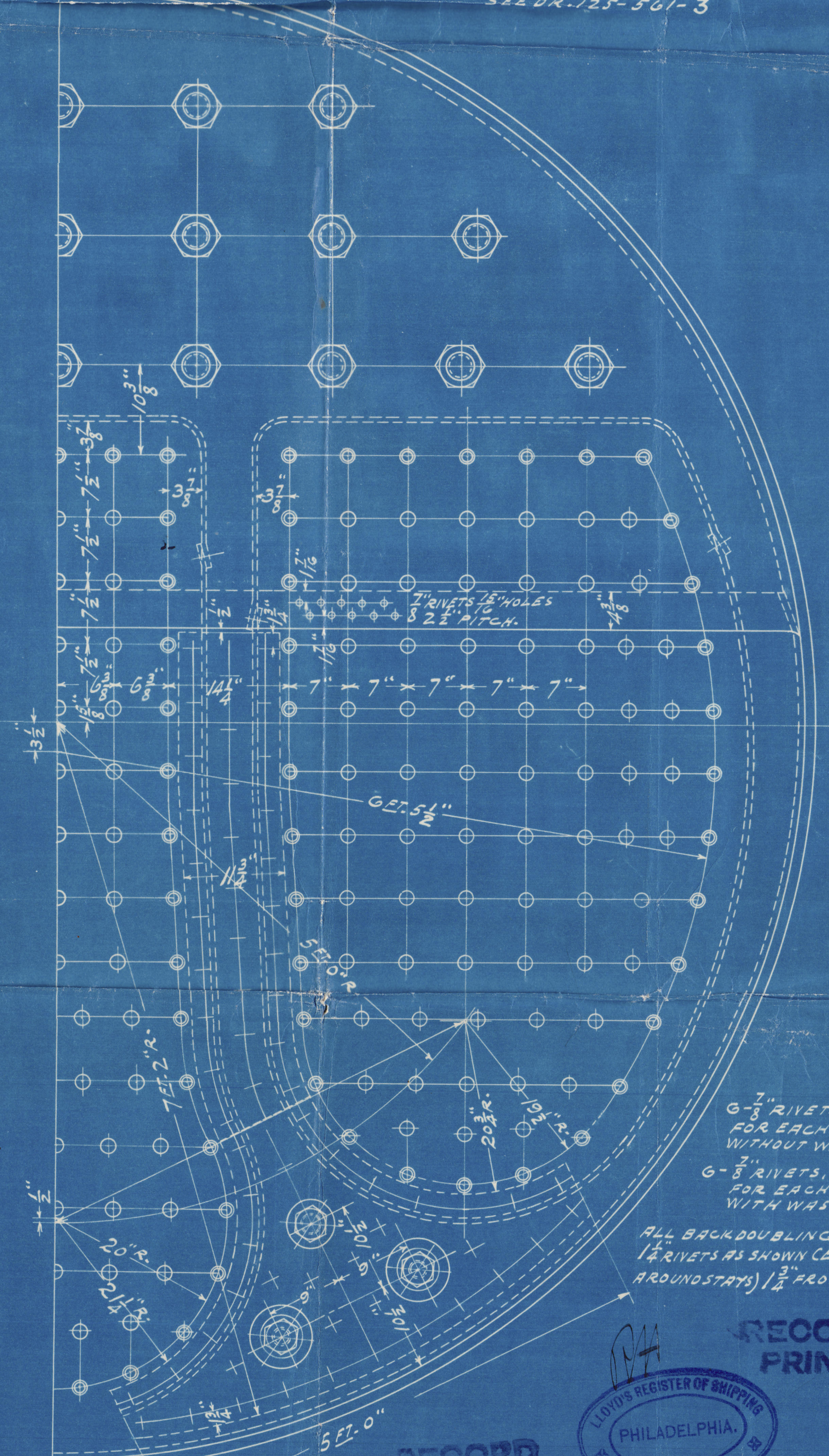
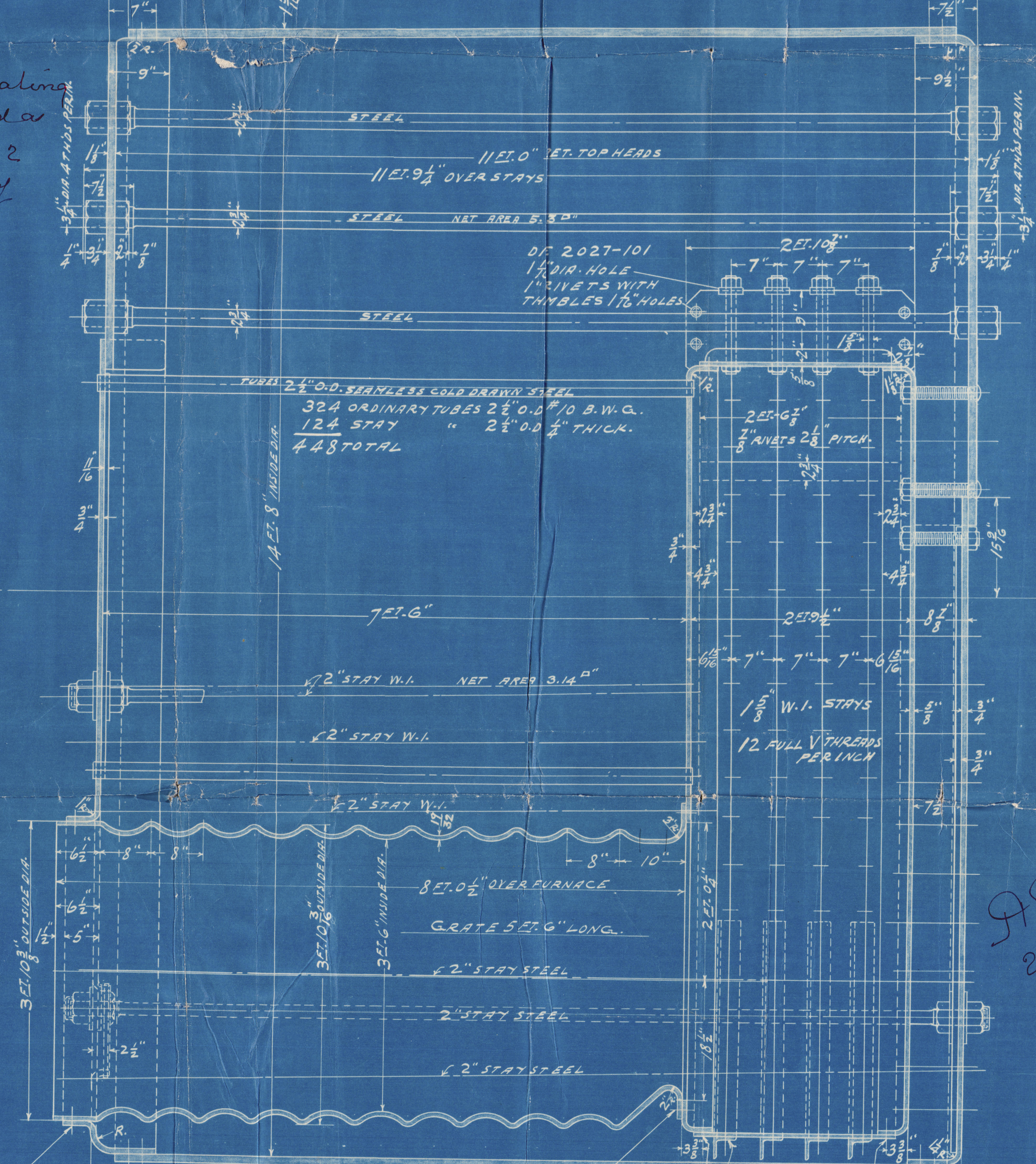
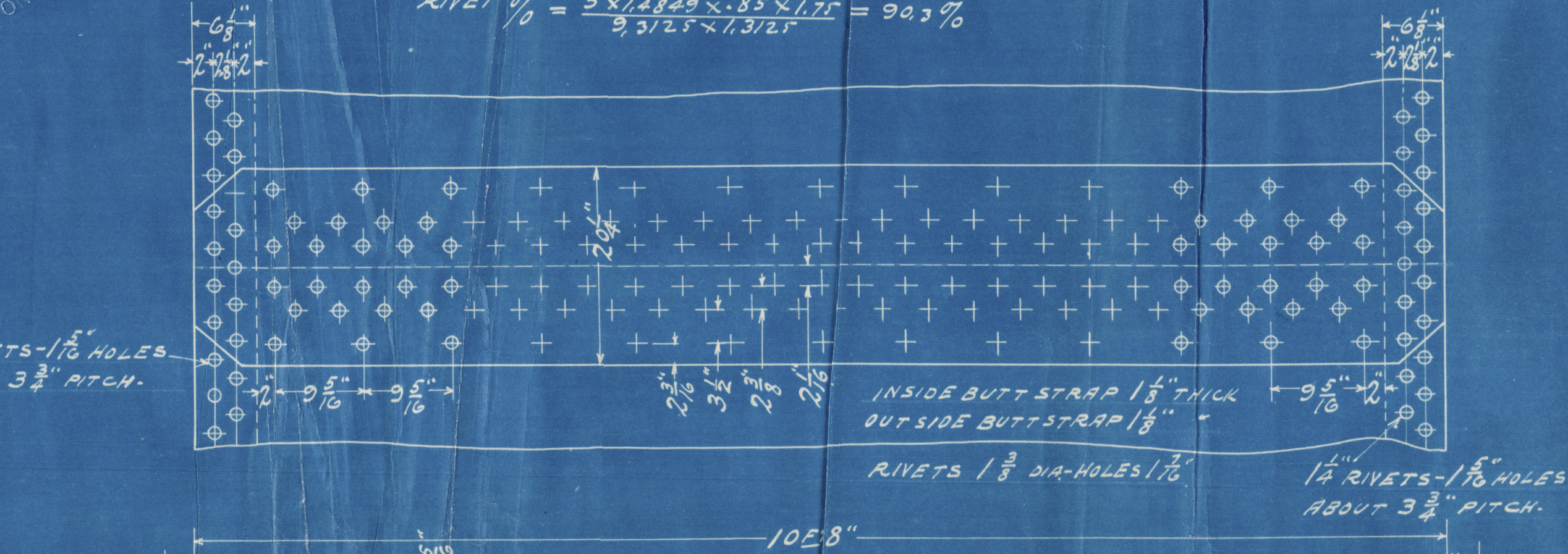
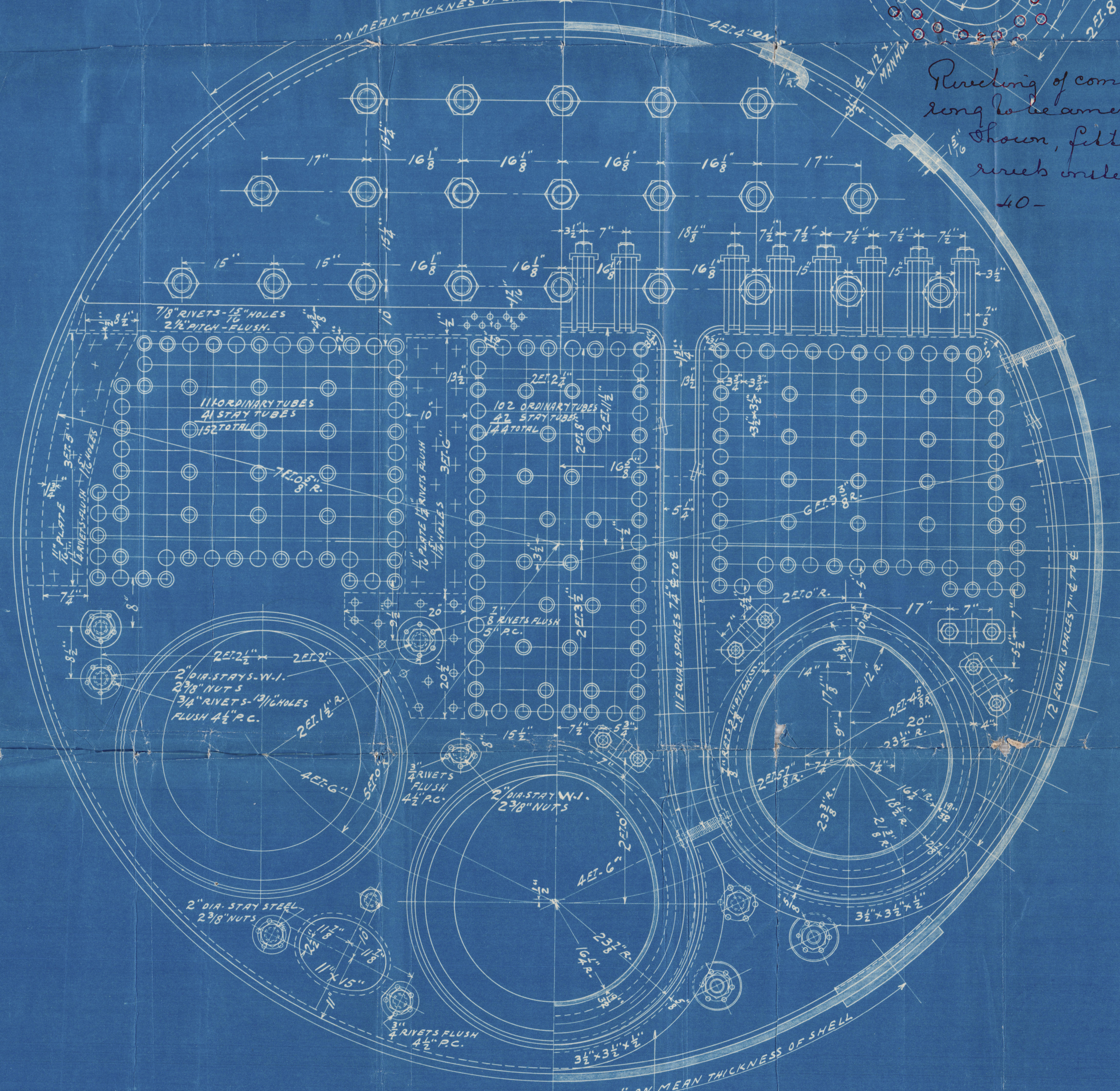
LLOYD'S RULE

PLATE $\frac{7}{16}$ = $\frac{9.3125 - 1.4375}{9.3125} \times 100 = 84.5\%$
 RIVET $\frac{7}{16}$ = $\frac{5 \times 1.4375 \times .85 \times 100}{9.3125 \times 1.3125} = 90.3\%$

DESCRIPTION	THICKNESS	U.S. RULES	LLOYD'S RULES	BOILER DATA ONE BOILER HEATING SURFACE
SHELL	$\frac{1}{16}$	$P = \frac{65000 \times 3.1416}{\pi \times 85} = 193\%$	$P = \frac{22 \times 22 \times 3.1416}{171.3125} = 199\%$	TUBES 219.1
FURNACE	$\frac{1}{16}$	$P = \frac{15000 \times 5.931}{44} = 210\%$	$P = \frac{12.5 \times 9 \times 3.1416}{40.1875} = 204\%$	FURNACES 149.4
TOP HEAD PLATE	$\frac{1}{8}$	$P = \frac{175 \times 18}{17} = 196\%$	$P = \frac{175 \times 18}{260.71} = 217\%$	COMB. CHAMBER 220
TOP HEAD STAYS	$\frac{1}{8}$	$S = \frac{175 \times 18 \times 180}{8.225} = 8293\%$	$S = \frac{175 \times 18 \times 180}{8.225} = 8293\%$	BACKTUBE PLATE 46
TUBE PLATE	$\frac{3}{16}$	$P = \frac{3.1416 \times 22 \times 22 \times 17000}{33.5 \times 3.75} = 235\%$	$P = \frac{3.1416 \times 22 \times 22 \times 17000}{33.5 \times 3.75} = 235\%$	TOTAL H.S. 2614.5
C.C. CROWN PLATE	$\frac{5}{16}$	$P = \frac{135 \times 10}{7.52} = 240\%$	$P = \frac{135 \times 10}{5.262} = 256\%$	GRATE SURFACE 57.75
C.C. CROWN STAYS	$\frac{1}{8}$	$S = \frac{135 \times 10 \times 180}{1.709} = 5836\%$	$S = \frac{135 \times 10 \times 180}{1.709} = 5836\%$	H.S. 45.3
C.C. WRAPPER PLATE	$\frac{5}{16}$	$P = \frac{135 \times 10}{7.52} = 240\%$	$P = \frac{135 \times 10}{5.262} = 256\%$	CALORIMETER 11.5
C.C. WRAPPER STAYS	$\frac{1}{8}$	$S = \frac{135 \times 10 \times 180}{1.709} = 5836\%$	$S = \frac{135 \times 10 \times 180}{1.709} = 5836\%$	C.S. 5
C.C. BACK PLATE	$\frac{5}{16}$	$P = \frac{135 \times 10}{7.52} = 240\%$	$P = \frac{135 \times 10}{5.262} = 256\%$	
C.C. BACK STAYS	$\frac{1}{8}$	$S = \frac{135 \times 10 \times 180}{1.709} = 5836\%$	$S = \frac{135 \times 10 \times 180}{1.709} = 5836\%$	
CROWN GIRDER	$\frac{3}{4}$	$P = \frac{9150 \times 9 \times 11}{33.5 \times 7.75 \times 2.906} = 213\%$	$P = \frac{11850 \times 9 \times 11}{33.5 \times 7.75 \times 3.35} = 252\%$	

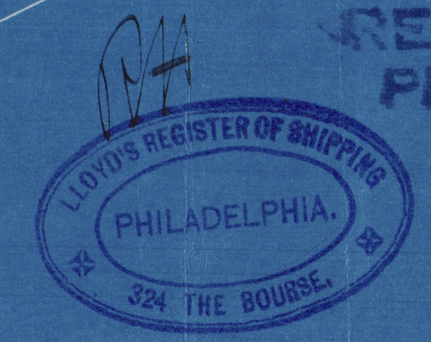
TENSILE STRENGTH OF SHELL PLATES & GIRDER 65000 TO 71680 LBS.
 " " PLANGE " 58240 TO 67200 "
 WORKING PRESSURE 190 LBS PER SQ. IN.
 WATER TEST " 285 " " "
 EVAPORATION 270 LBS. OF WATER PER SQ. FT. OF GRATE PER HOUR.
 TWIN SAFETY VALVE COMBINED AREA OF 4 1/2" DIA.
 FOR DETAILS OF BOTTOM HEAD STAYS SEE DR. 125-501-3

Rectifying of compensating
 long to be amended as
 shown fitting 32
 rivets instead of
 40-



6-3/4" RIVETS 5" AC. FLUSH FOR EACH BOLT WITHOUT WASHERS.
 6-5" RIVETS 5" AC. FLUSH FOR EACH BOLT WITH WASHERS.
 ALL BACK DOUBLING PLATES HAVE 1/2" RIVETS AS SHOWN (EXCEPT AROUND STAYS) 1/2" FROM EDGE.

RECORD PRINT.

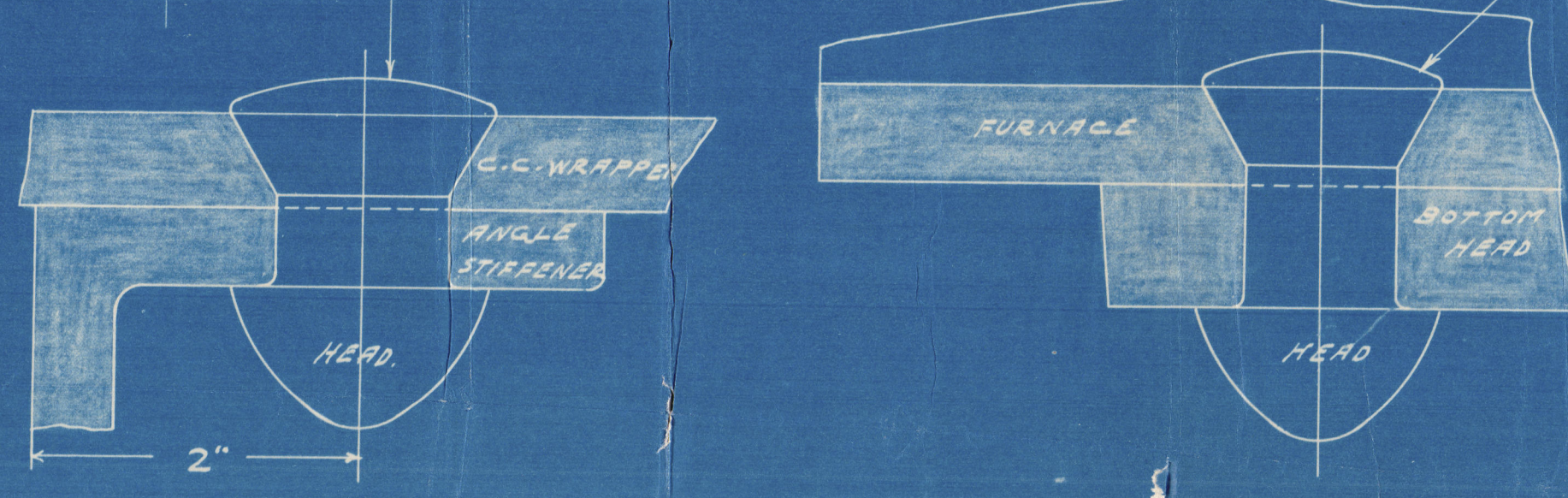


ALL SCREW STAYS W.I.
 SCREW STAYS ON BACK HEAD MARKED THUS
 O 2" DIA. NUTS 1 1/2" DEEP NET AREA 2.692" D

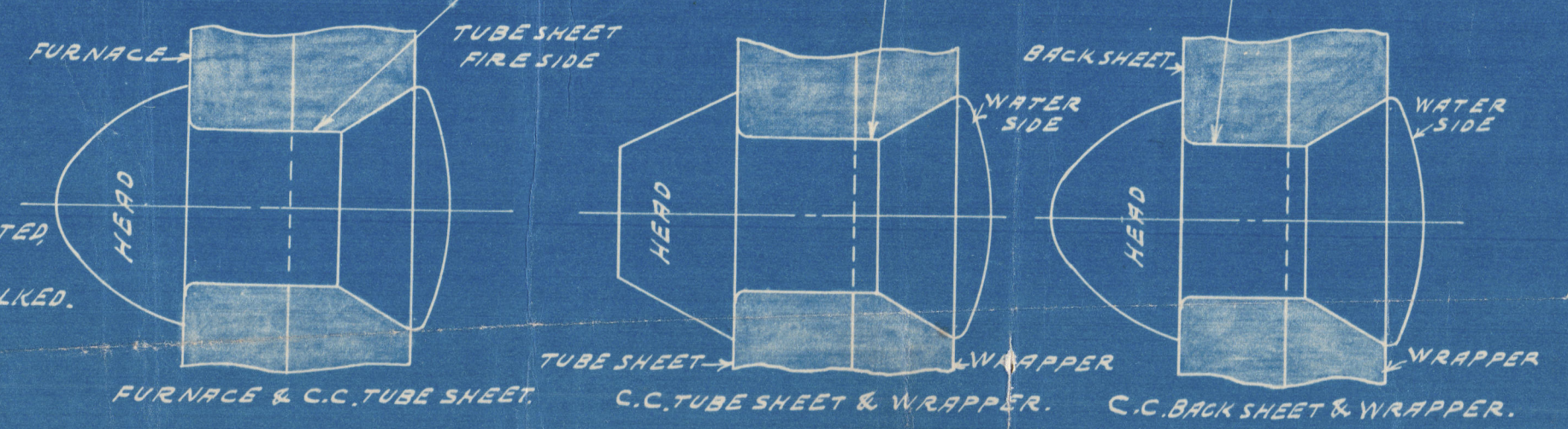
1. 90K 1
 2. 90K 1
 3. 90K 1
 4. 90K 1
 5. 90K 1
 6. 90K 1
 7. 90K 1
 8. 90K 1
 9. 90K 1
 10. 90K 1
 11. 90K 1
 12. 90K 1
 13. 90K 1
 14. 90K 1
 15. 90K 1

SCREW STAYS ON BACK HEAD MARKED THUS
 O 2" DIA. NUTS 1 1/2" DEEP NET AREA 2.692" D
 WRAPPER SCREW STAYS 1 1/2" DIA. NUTS 1 1/2" DEEP
 GIRDER SCREW STAYS 1 1/2" DIA. NUTS 1 1/2" DEEP
 ALL SCREW STAYS HAVE 1/2" FULL V THREADS
 PER INCH
 ALL SCREW STAYS TO HAVE 1/2" HOLE DRILLED 1/2"
 BEYOND INNER SURFACE OF PLATE.

ENGINE DEPARTMENT.
 TITLE 14 1/2" INS. DIA. X 11 1/2" RET. HEAD S
 S.E. SCOTCH BOILER.
 190 LBS. WORKING PRESS.
 SCALE 1/4" = 1 FT. DRAWN BY 223 DATE
 TRACED BY 555 CHECKED BY CHIEF DRAFTSMAN
 NEW YORK SHIP BUILDING COMPANY,
 CAMDEN, NEW JERSEY, U.S.A.
 DR 125-501-1
 APPROVED CHIEF ENGINEER



ALL RIVULING EDGES OF BOILER
 PLATE TO BE MARKED PLANNED
 SEAMS, BUTTS, AND LAP TO BE
 CLOSELY DRAWN UP, METAL TO
 METAL, AND WATER BEING RIVETER
 CHALKED INSIDE AND OUTSIDE.
 ALL REINFORCE PLATES TO BE RIVULING.



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

11/42-0110

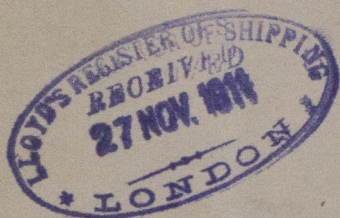
PHILADELPHIA.

New York S B &

Contract #125

3 Main Boilers

W. P. 190th



3 Main Boilers

No 33

LLOYD'S Test

285 lbs

31.5.12

R. H

PHILADELPHIA

Rpt No 1965

W42-0110



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Lloyd's Register
Foundation

W42-0110

RECORD
PRINT.

N. Y. S. CO. CONT. 125
FROM *Lloyd's Register of S.*
See Letter of *S. L. 11*

Rec'd DEC 9 1911 Dept. 74
Dr. No. 125-561-1
Print No. 11

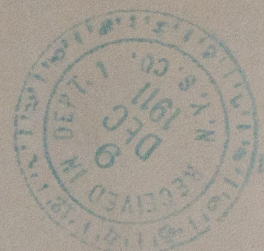
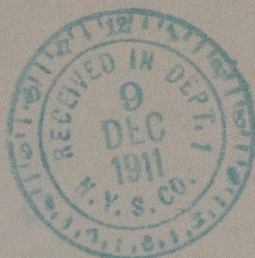
N. Y. SHIPBUILDING CO.	
CAMDEN, N. J.	
PRINT No.	11
Made	NOV 15 1911
FOR	HAIG



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