

U.S. RULES  
 PLATE % =  $\frac{2.28 - .687}{2.28} \times 100 = 69.8\%$   
 RIVET % =  $\frac{2 \times .371 \times .85}{2.28 \times .312} \times 100 = 88.6\%$

LLOYDS RULES  
 PLATE % =  $\frac{2.28 - .687}{2.28} \times 100 = 69.8\%$   
 RIVET % =  $\frac{2 \times .306 \times .85}{2.28 \times .312} = 73.1\%$

ALTERATIONS	DATE	APPROVED

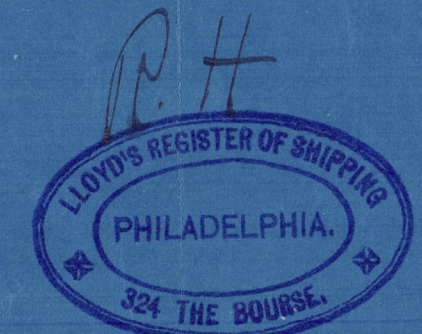
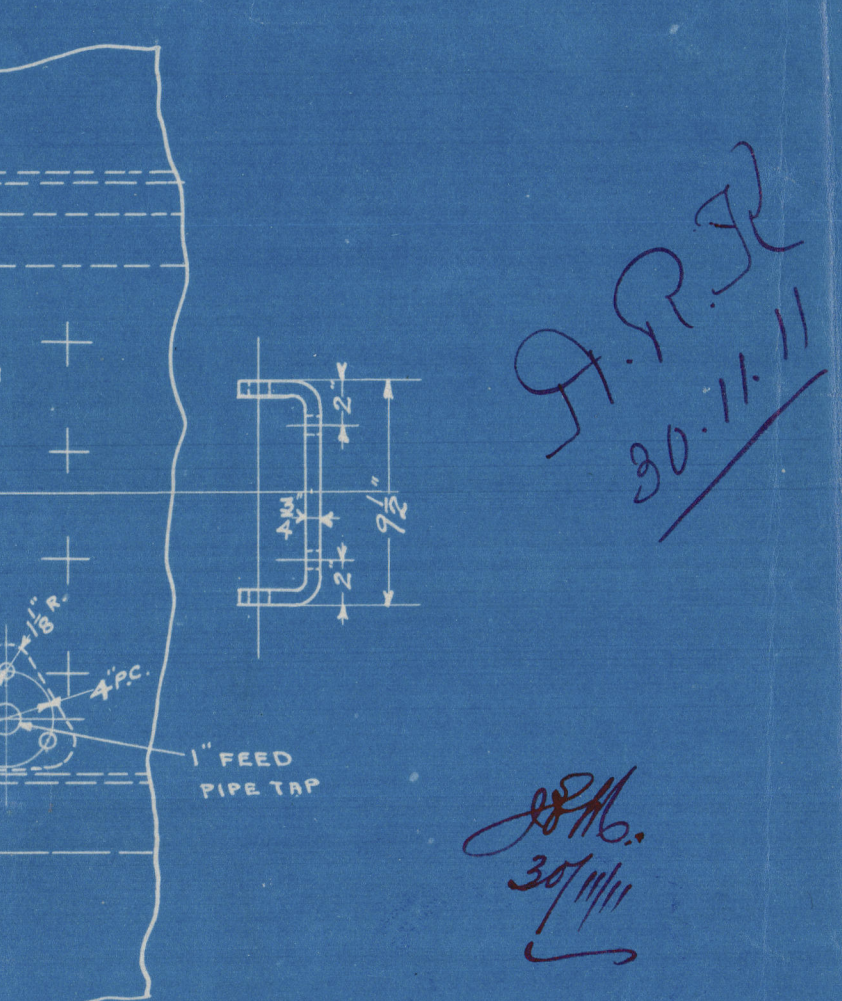
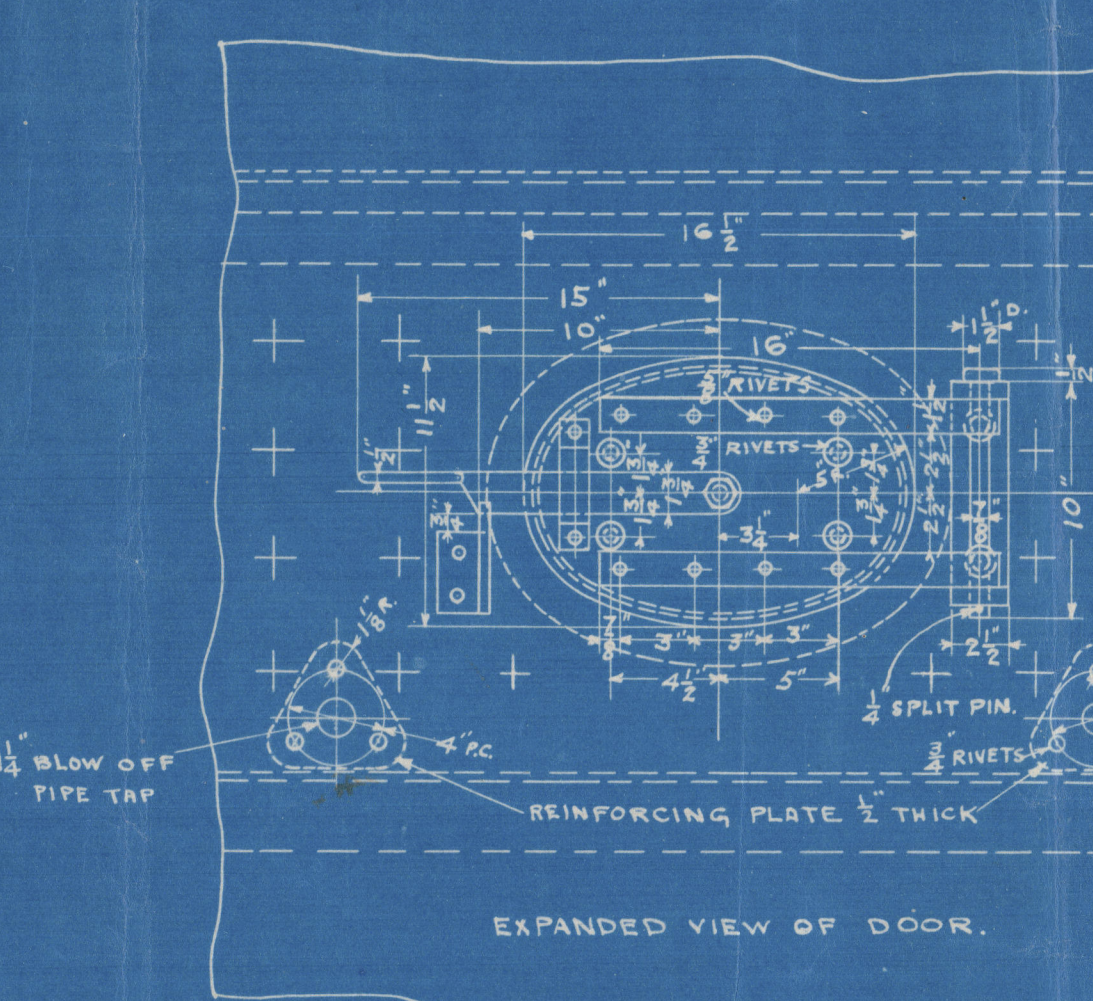
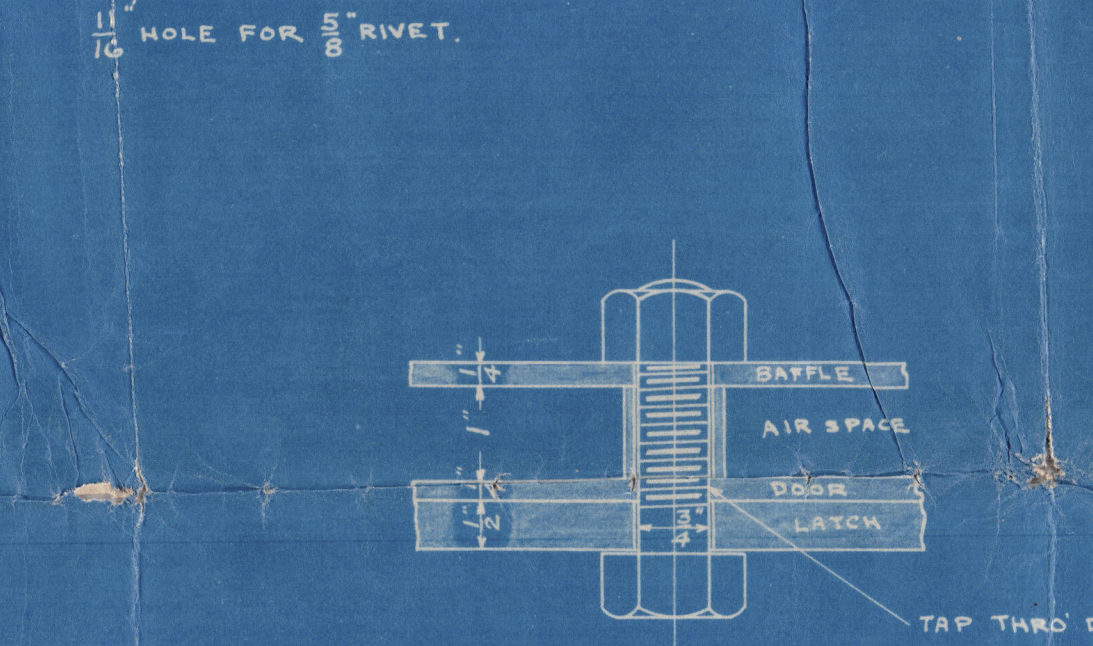
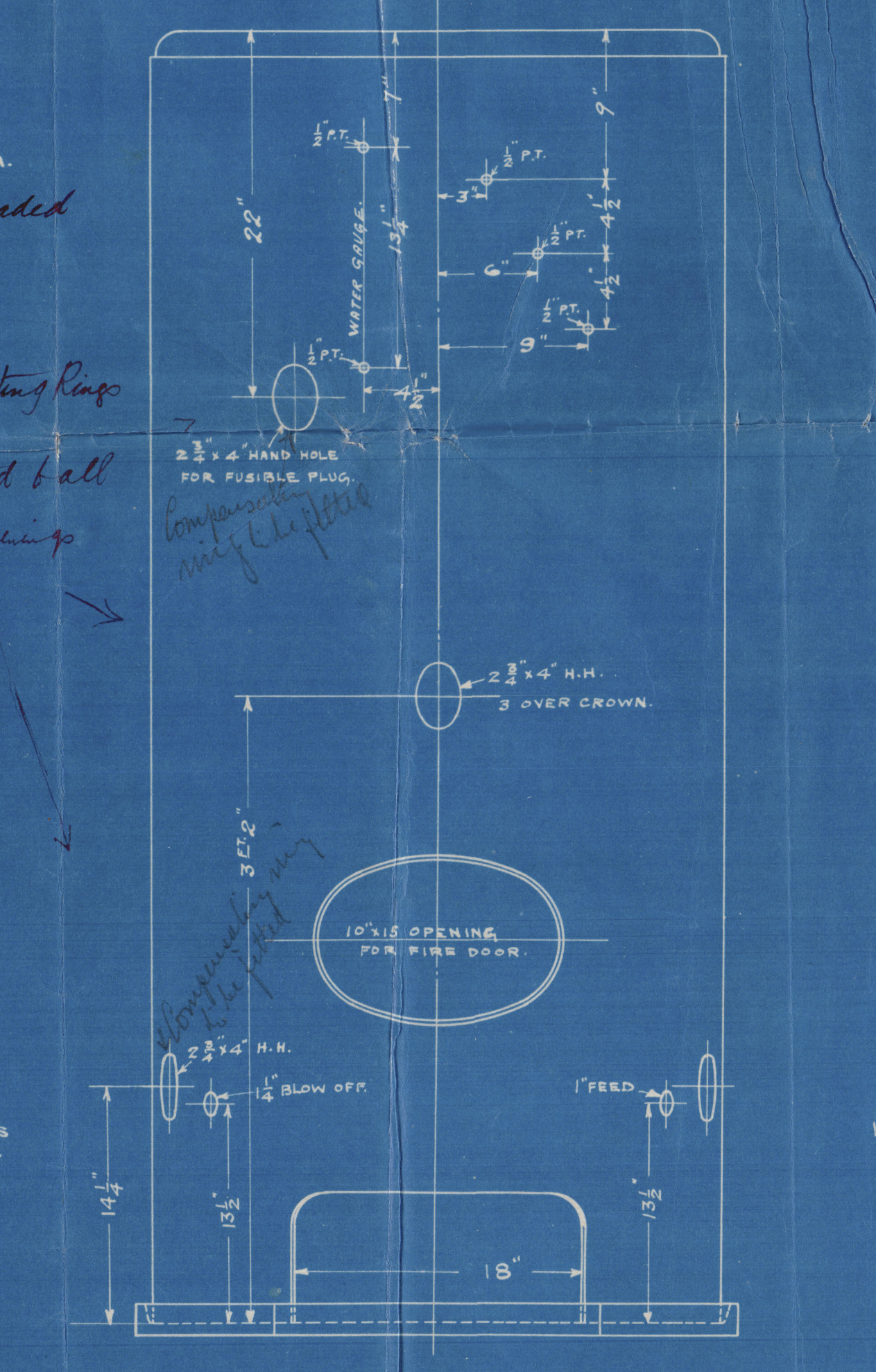
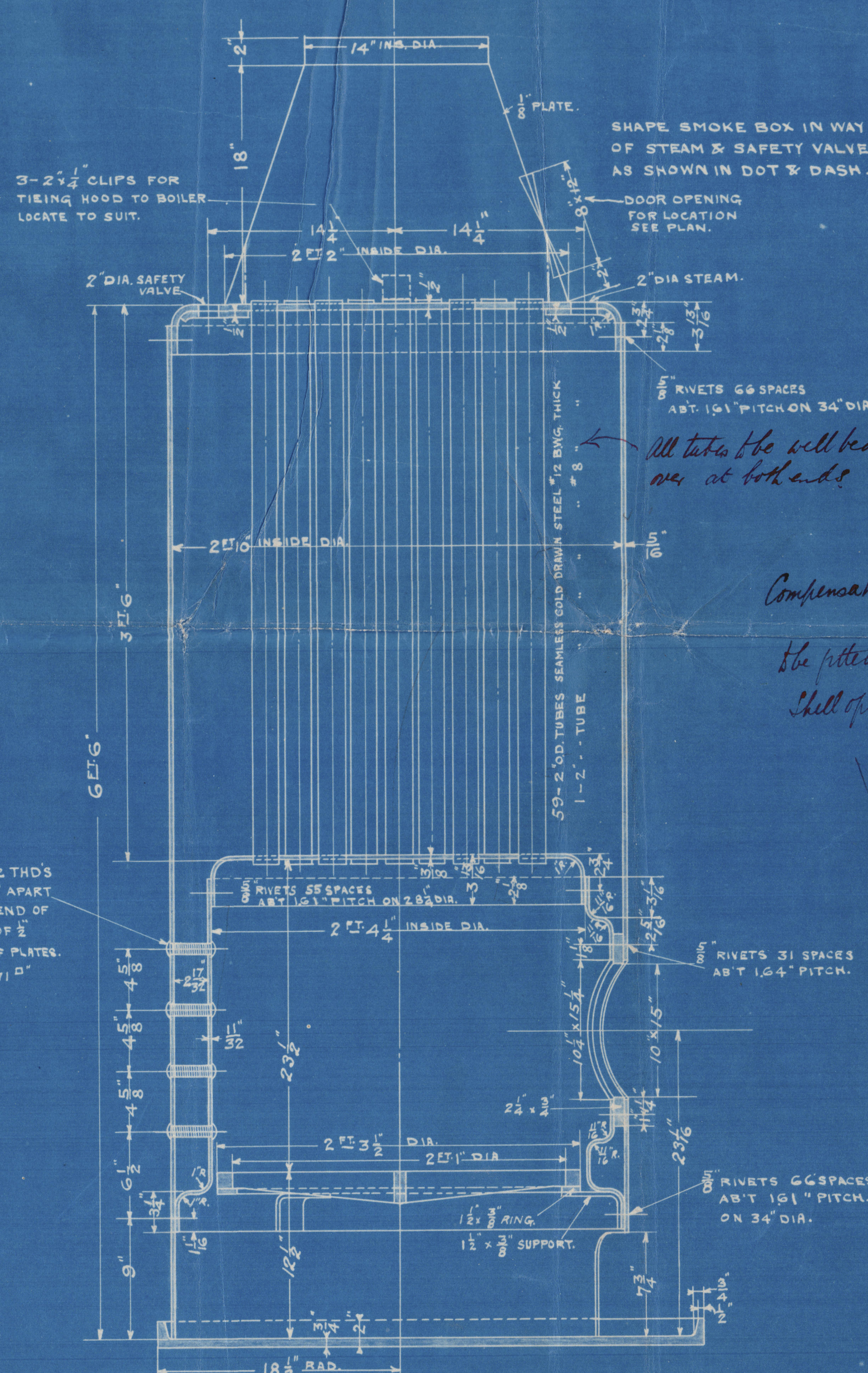
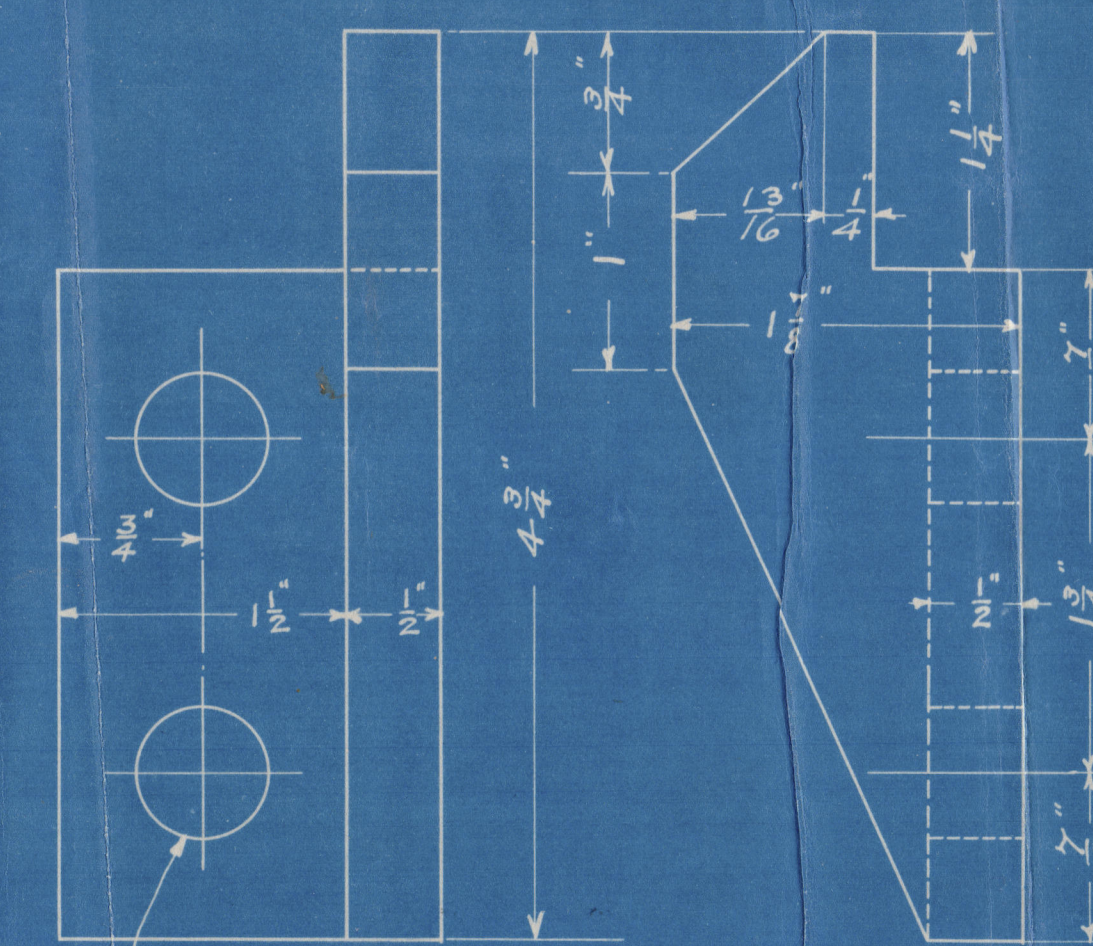
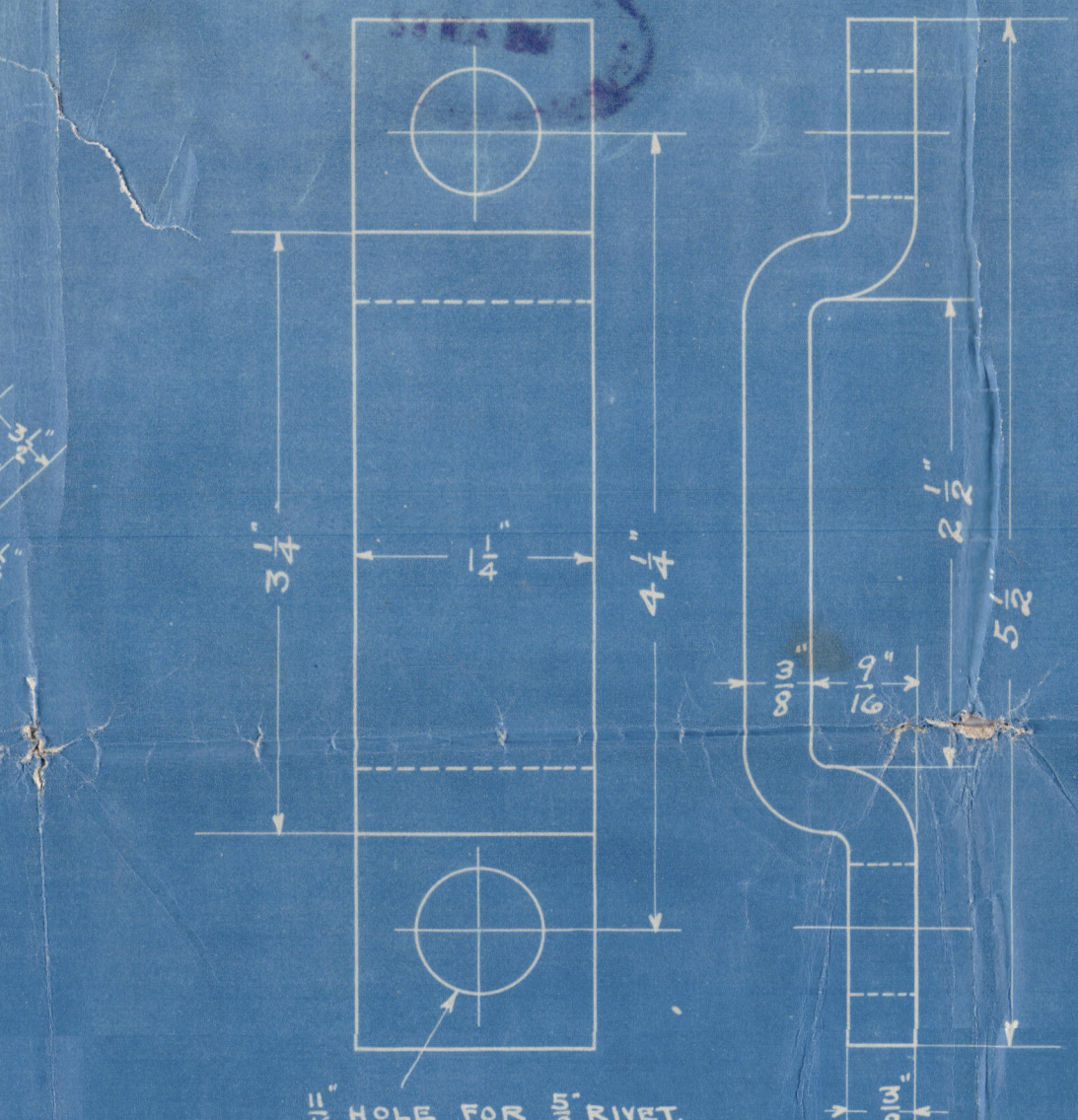
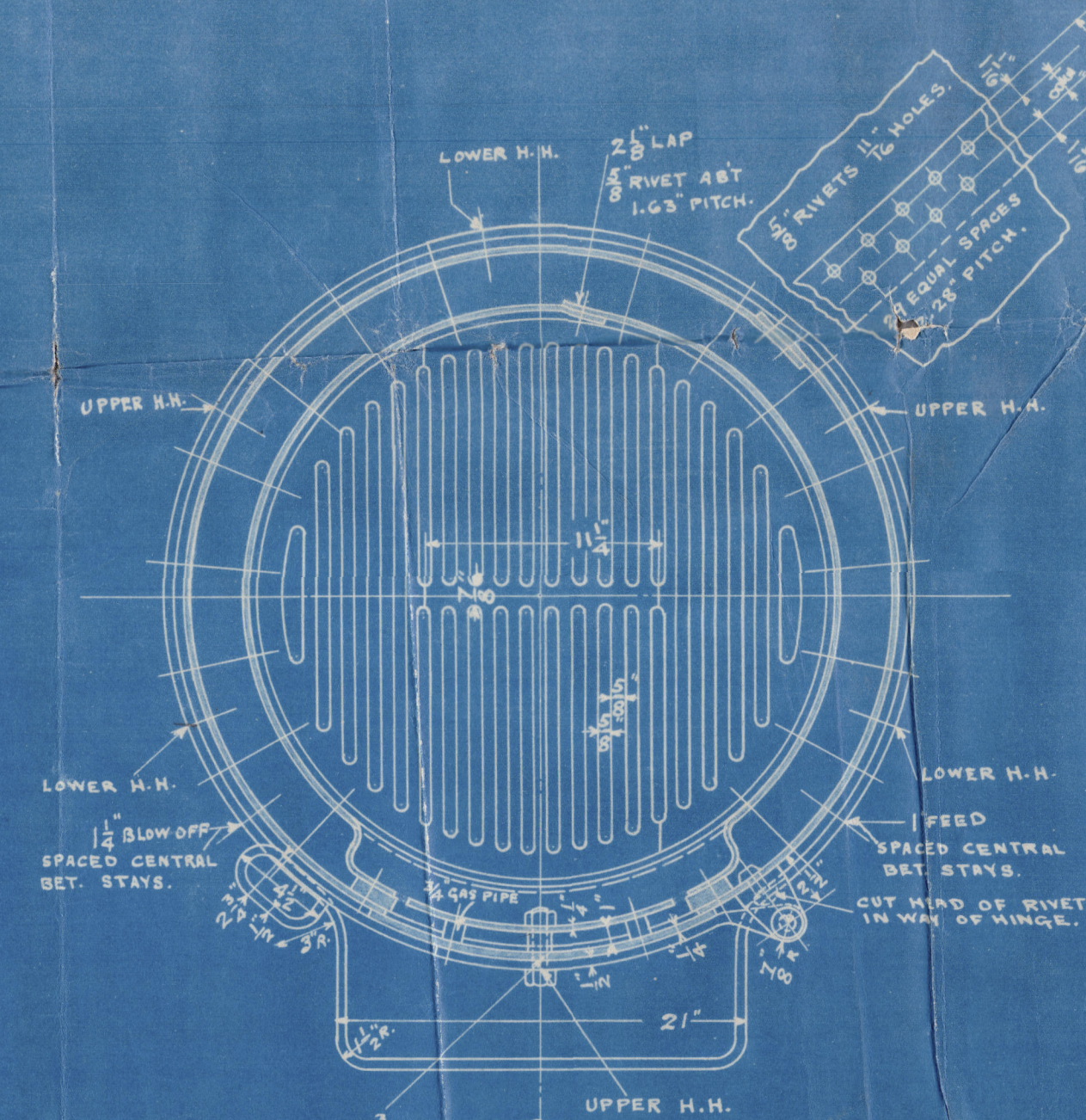
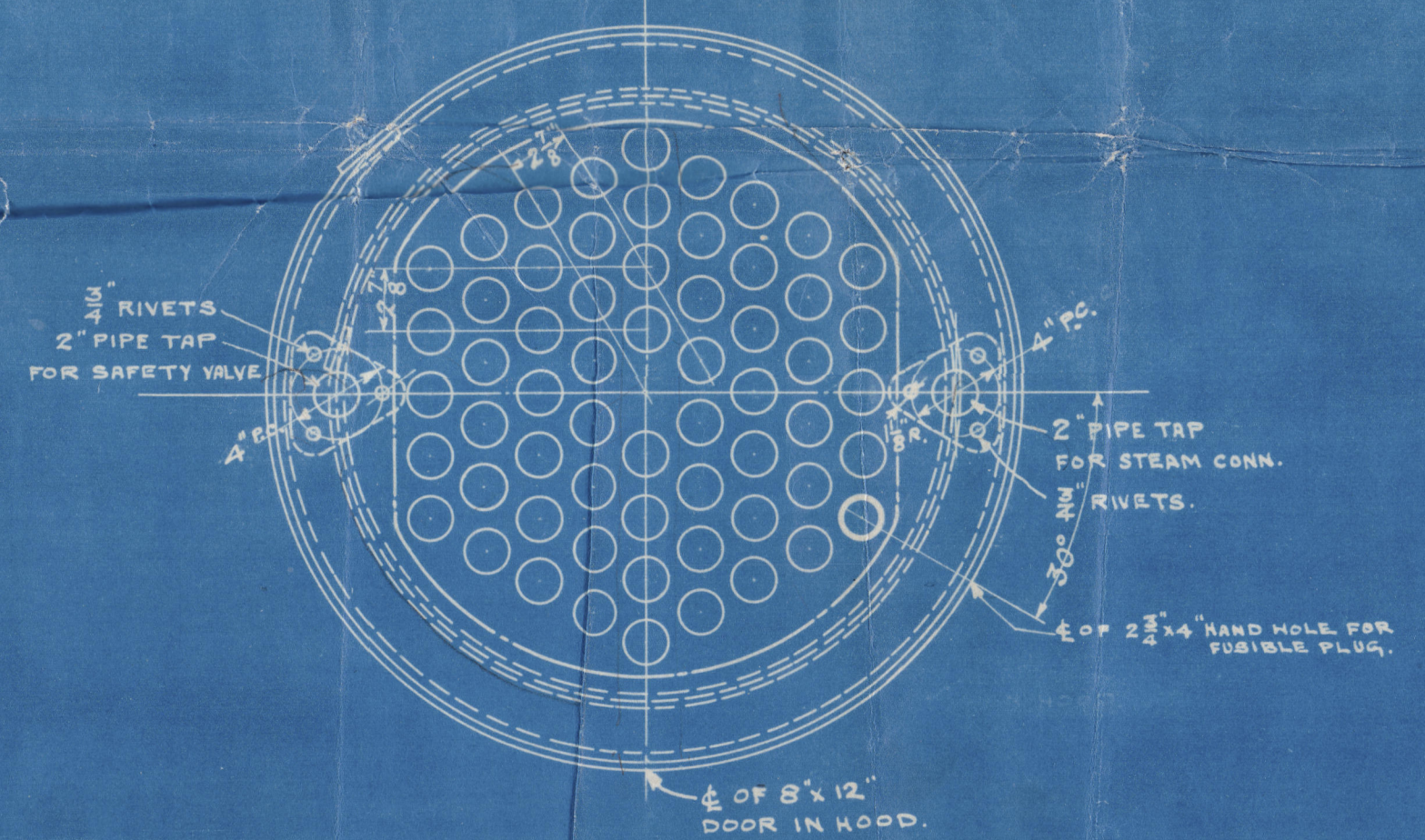
CONSTRUCTED UNDER THE RULES OF THE BOARD OF SUPERVISING INSPECTORS  
 DEPT OF COMMERCE & LABOR & LLOYDS REGISTER.  
 FOR 120 LBS WORKING STEAM PRESS.

DESCRIPTION	THICKNESS	U.S. RULES	LLOYDS RULES
SHELL PLATE	$\frac{5}{16}$ "	$P = \frac{62720 \times .312}{6 \times 17} + 2\% = 230^*$	$P = \frac{205 \times (2-12) \times 6.78}{34 \times 312} = 125^*$
FIRE BOX	$\frac{11}{32}$ "	$P = \frac{112 \times 5.5^2}{4625} = 1.8^*$	$P = \frac{90 \times 5.5^2}{19.726} = 136^*$
FIRE BOX STAY	$\frac{1}{8}$ " DIA	$S = \frac{120 \times 42.5 \times 4.25}{4071} = 5794^*$	

#### HEATING SURFACE

TUBES	197.6 #
FIRE BOX	9.1 #
TOTAL H.S.	126.7 #
GRATE SURFACE	4.3 #
RATIO $\frac{H.S.}{G.S.}$	29.4
CALORIMETER	103 #
RATIO $\frac{H.S.}{C.A.}$	4.1
EVAPORATION	50 LBS. WATER PER SQ.FT. OF GRATE PER HR.

TENSILE STRENGTH OF SHELL PLATES 62720 TO 71680 LBS  
 " " FLANGE " 58240 " 67200 "  
 WORKING PRESS. 120 LBS PER SQ. INCH  
 WATER TEST " 180 " " "  
 2" DIA. SAFETY VALVE SINGLE SPRING.

ENGINE DEPARTMENT  
 TITLE  
 1 5001  
 14 N.Y.  
 2-3 ANNEX 2  
 4-5 43, I. 2  
 6 N-11  
 68 1110 3  
 17-26-11  
 AUXILIARY BOILER 2' 10" INSIDE DIA.  
 BY 6' 6" HIGH. 120 LBS. PRESS.  
 SCALE 1/4" = 1'-0" H.T. DRAWN BY 222 DATE  
 TRACED BY 222 CHECKED BY CHIEF DRAFTSMAN  
 NEW YORK SHIPBUILDING COMPANY,  
 CAMDEN NEW JERSEY, U.S.A.  
 # 125-641-1.  
 APPROVED 11/11/11 CHIEF ENGINEER



42-0111



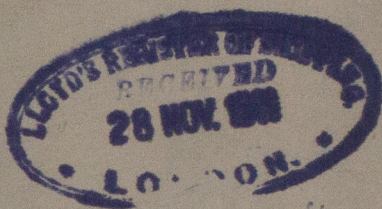
Philadelphia.

New York S/B Co.

Contract No. 125

Donkey boiler

Working Pressure 120 lbs.



"Galfoil"

No 35  
LLOYD'S Test-  
180<sup>th</sup>  
9-19-1912. P H

[PHILADELPHIA. Rpt No 1965

W42-0111



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Foundation



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N. Y. SHIPBUILDING CO.	
CAMDEN, N. J.	
PRINT No.	2
Made	NOV 17 1911
FOR	HAI G

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