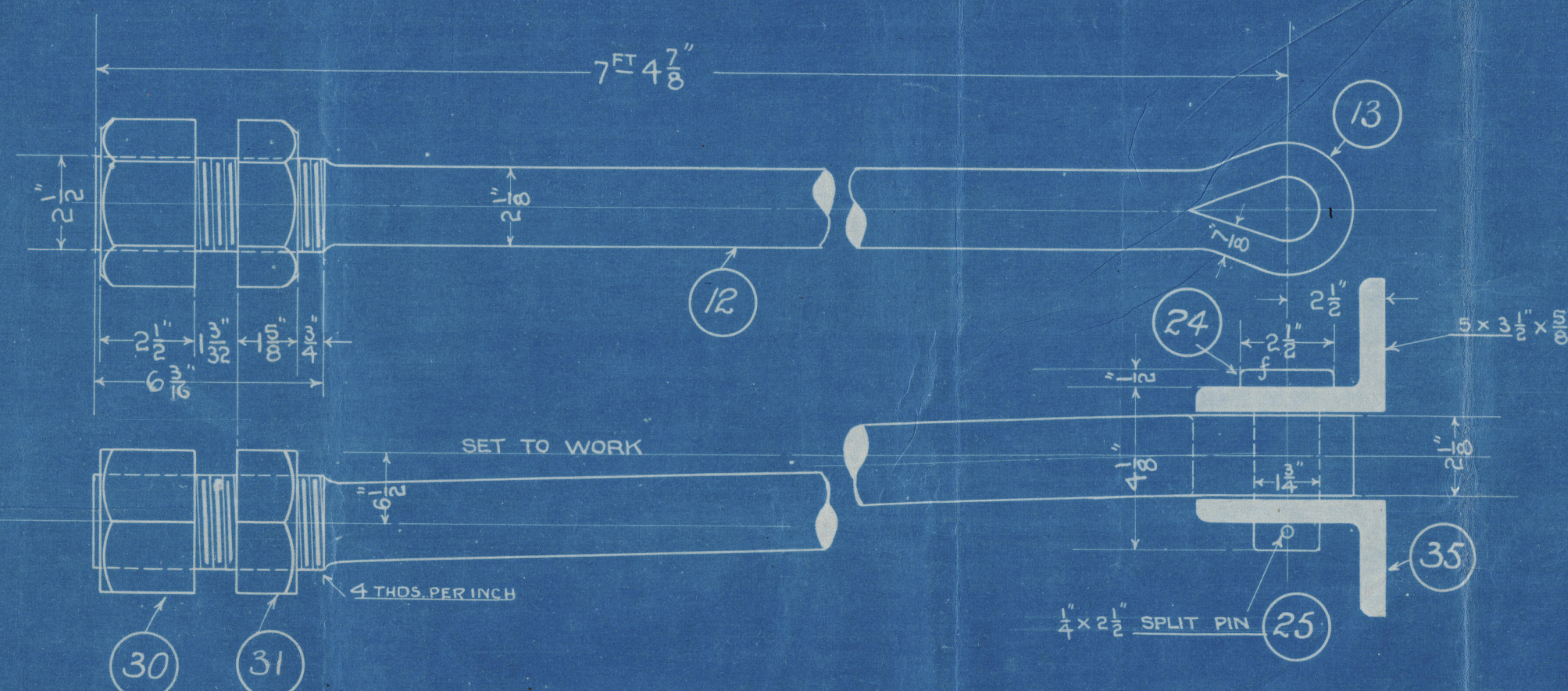
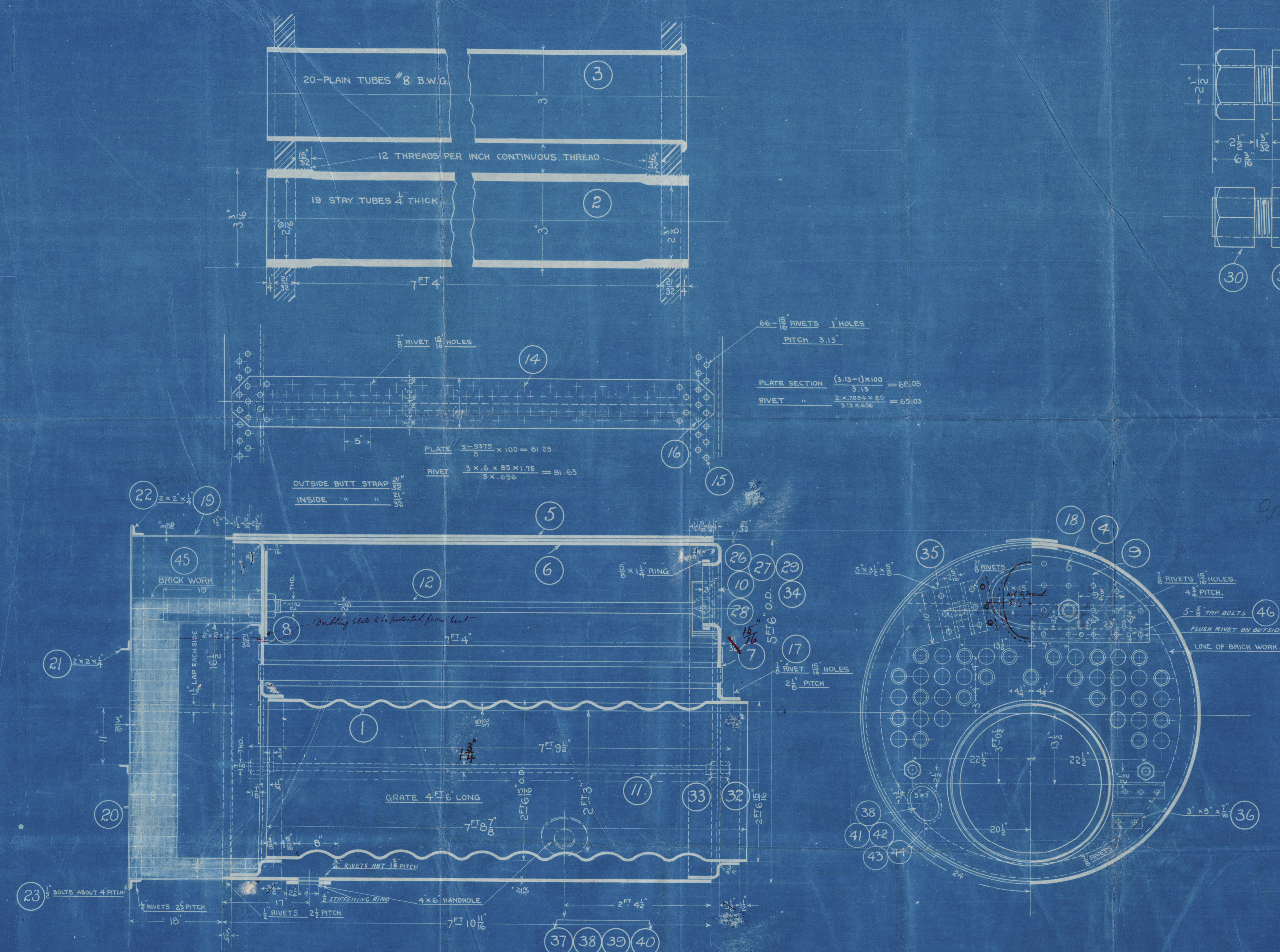


PHILADELPHIA DISTRICT.
U.S.A.

29.7.02



BUILT TO LLOYDS & U.S. TREASURY RULES.	
SHELL & BUTT STRAPS 60480 TO 71880, ALL OTHER PLATES 58240 TO 67200 LBS	
LLOYDS RULES	U.S. RULES
SHELL $C \times (T-2) \times \frac{1}{2} = \frac{21 \times (10.5-2) \times 81.25}{63.343} = 221$	SHELL $\frac{T^2 \times T}{R} + 20\% = \frac{60480 \times 656}{6 \times 32.67} = 243$
HEAD PLATE $C \times (T + \frac{1}{2})^2 = \frac{175 \times (10.5 + \frac{1}{2})^2}{153.12} = 224$	HEAD PLATE $\frac{C \times ((T + \frac{1}{2}) \times \frac{R}{2})^2}{P^2} = \frac{200 \times ((\frac{11}{2} + \frac{1}{2}) \times 80)^2}{153.12} = 256$
TUBE SHEET $\frac{140 \times T^2}{P^2} = \frac{140 \times 110.25}{68.06} = 226$	
FURNACE $\frac{1259 \times (T-2)}{D} = \frac{1259 \times (7.5-2)}{30.93} = 223$	FURNACE $\frac{15000 \times T}{D} = \frac{15000 \times 4.68}{28.968} = 242$

HEATING SURFACE	
TUBES	224.6
FURNACE	29.7
COM. CHAMBER	5.1
TOTAL	259.4
LENGTH OF GRATE	4' 6"
GRATE SURFACE	10' 2"
RATIO H.S. to G.S.	25.63
CALORIMETER	1.52
RATIO G.S. to CAL.	6.06
WORKING PRESSURE	215 LBS

29.7.02

NAME: DONKEY BOILER

SCALE: 1" 3 8" = 1 FT. DATE: 13 JE 02 R

MADE BY NO. 233 - TRACED BY NO. 214 - CHECKED BY NO. 233

NEW YORK SHIPBUILDING COMPANY

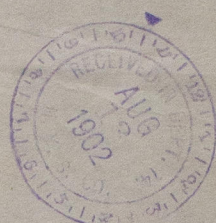
CAMDEN, NEW JERSEY, U.S.A.

SEE OTHER DRAWINGS

DR: 5-641-1

GEN. SUPT.

For
Print No. *5*
Made JUL 10 1902
DR. 5-641-1
N. Y. SHIPBUILDING CO.
CAMDEN, N. J.



W1008-0053

5-641-1

DATE REC'D 13 JUL 1902
DATE ACK'D
DATE FORW'D
REF. TO
COPY

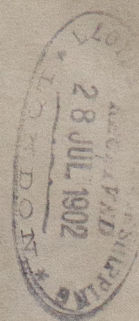
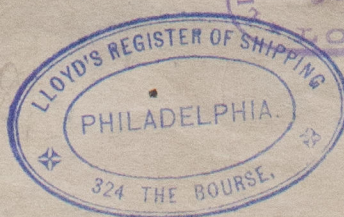
In Panamanian

New York SBC
S.S. No 576

W1008-0053
Donkey boiler
W.P. 215#

ss "Mongolia"
PHILADELPHIA. Rpt. No 1234

ss "Manchuria"
PHILADELPHIA. Rpt. 1253



ETAN



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