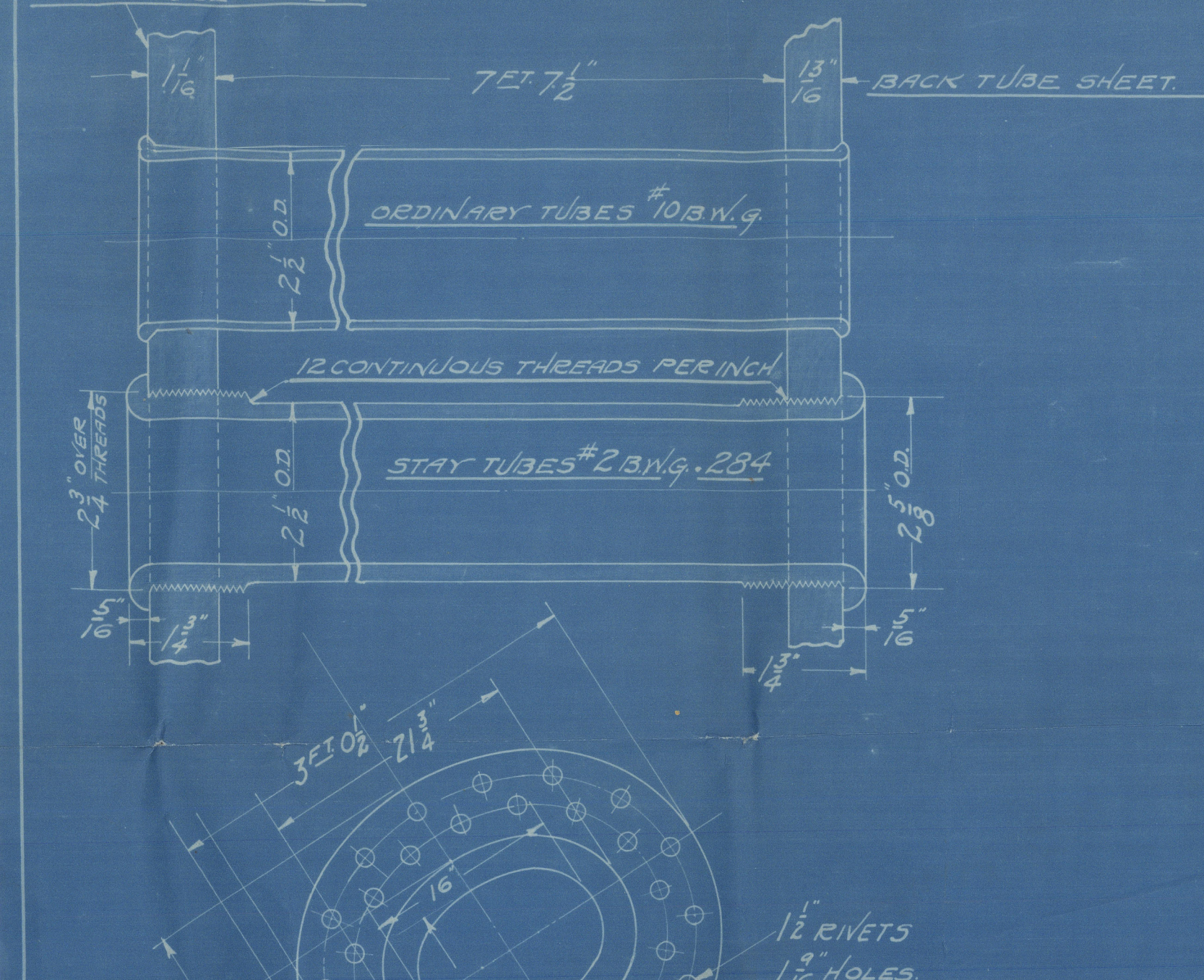


FRONT TUBE SHEET



BUREAU OF COMMERCE

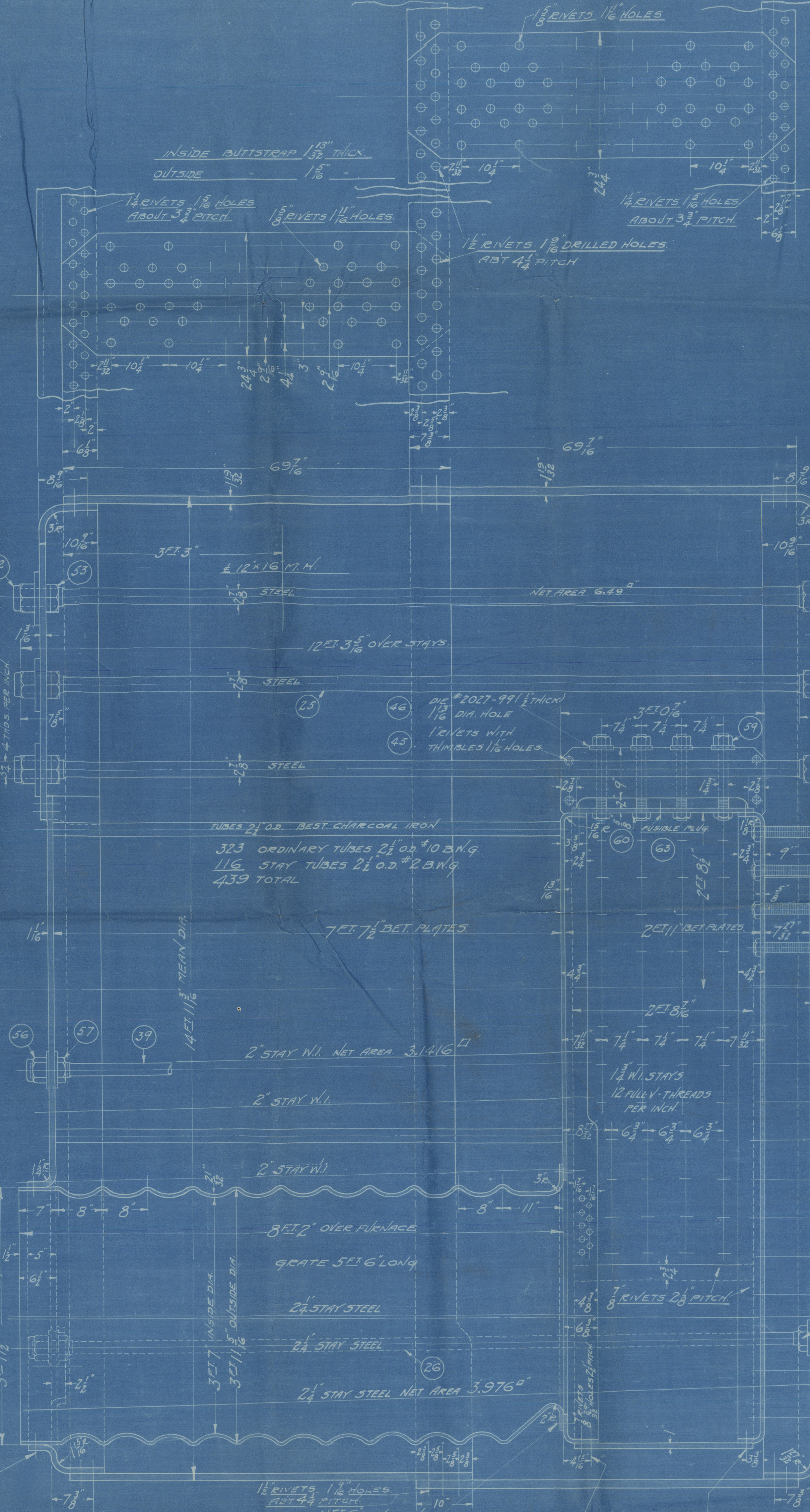
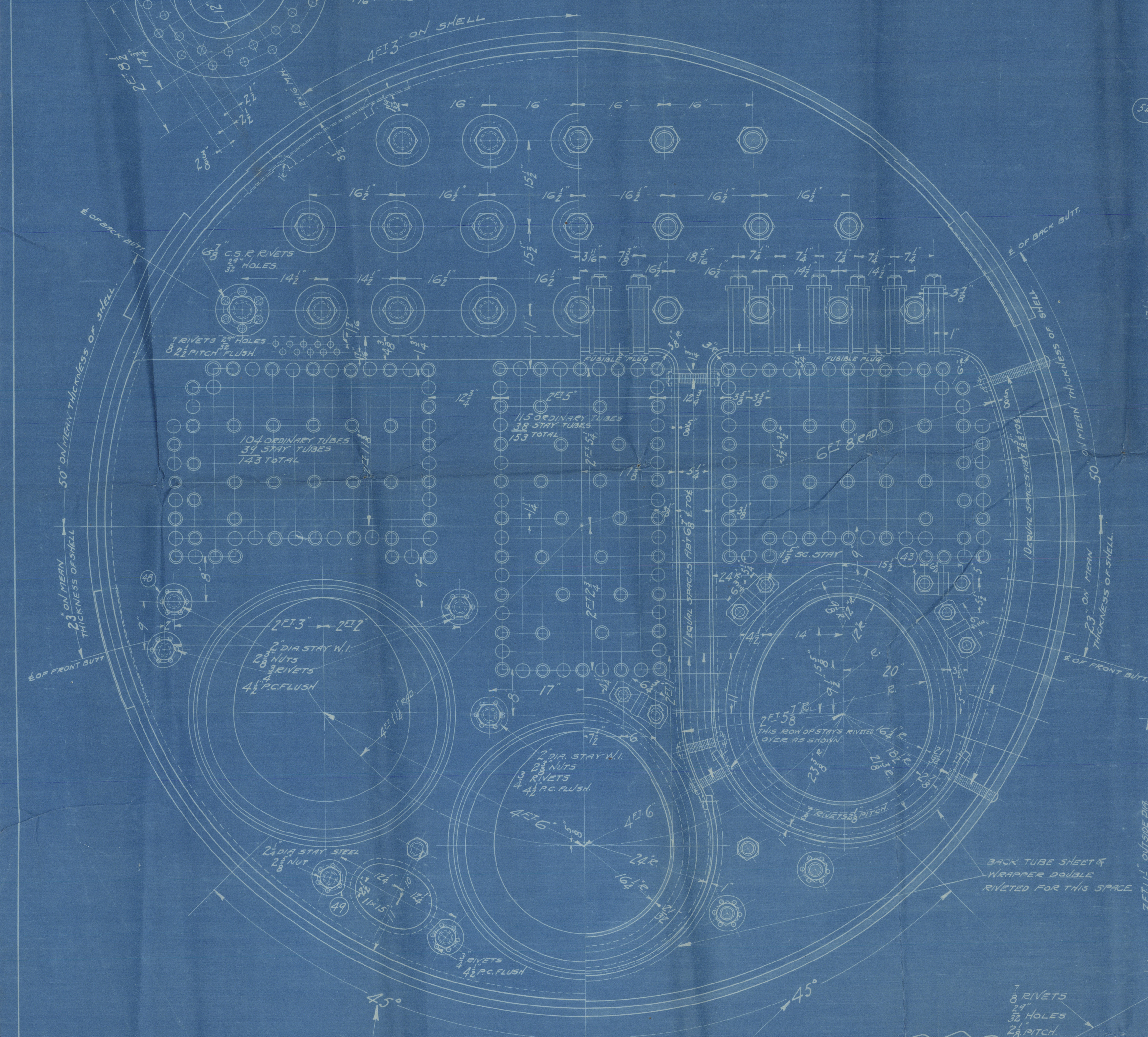
$$\text{PLATE \%} = \frac{10.25 - 1.6875}{10.25} \times 100 = 83.5\%$$

$$\text{RIVET \%} = \frac{5 \times 2.236 \times 1.75 \times .85}{10.25 \times 1.593} \times 100 = 101\%$$

LLOYD'S RULE

$$\text{PLATE \%} = \frac{10.25 - 1.6875}{10.25} \times 100 = 83.5\%$$

$$\text{RIVET \%} = \frac{5 \times 2.073 \times 1.75 \times .85}{10.25 \times 1.593} = 94\%$$



DESCRIPTION	THICK	U.S. RULE	LLOYD'S RULE	BOILER DATA	ONE BOILER HEATING SURFACE
SHELL	19	R 63000 X 1593	R 22655 X 2315	238 #	2190 #
FURNACE	21	P 15600 X 6362	P 12571 X 520	226 #	156 #
TOP HEAD	16	A 175 X 19	A 175 X 19	246 #	214.7 #
TOP HEAD STAYS	28	S 165 X 15 X 220	S 165 X 15 X 220	265 #	40.8 #
TUBE PLATE	16	P 36252 X 2320	P 36252 X 2320	231 #	2601.5 #
CROWN PLATE	5	R 135 X 10	R 135 X 10	252 #	59.25 #
CROWN STAYS	13	S 7375 X 220	S 7375 X 220	280 #	44 #
WRAPPER PLATE	5	P 7625	P 7625	243 #	11.3 #
WRAPPER STAYS	13	S 725 X 7625 X 220	S 725 X 7625 X 220	270 #	5.23 #
C.C. BACK PLATE	5	R 135 X 10	R 135 X 10	252 #	9.5 CAL.
C.C. BACK STAYS	13	S 7375 X 220	S 7375 X 220	280 #	ALTERATIONS
CROWN GIRDERS	9	P 77 X 7 X 2	P 118 X 9 X 2	268 #	DATE APP'D
WIDE WATER GIRDER	16	P 140 X 17	P 140 X 17	248 #	

FOR CONT 190 SEE 173-561-1 TO 16 INCL.

TENSILE STRENGTH OF SHELL PLATES & GIRDERS 63000 TO 71680 LBS.

FLANGE 58240 TO 67200 LBS.

WORKING PRESSURE 220 LBS. PER SQ. INCH.

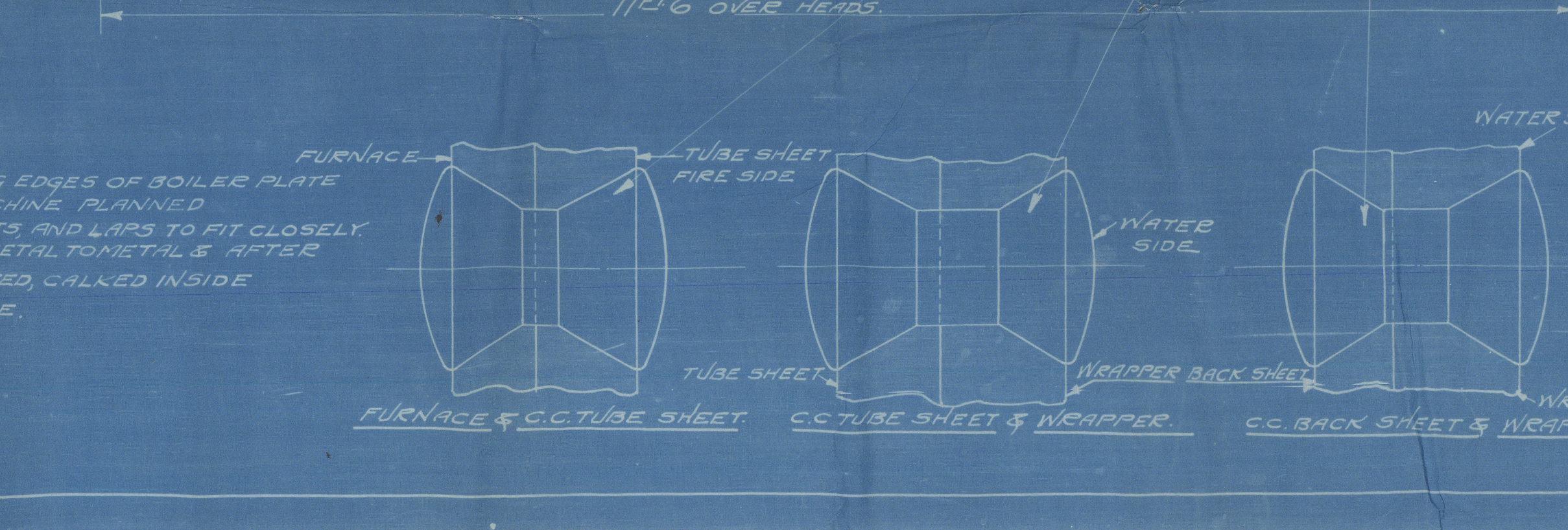
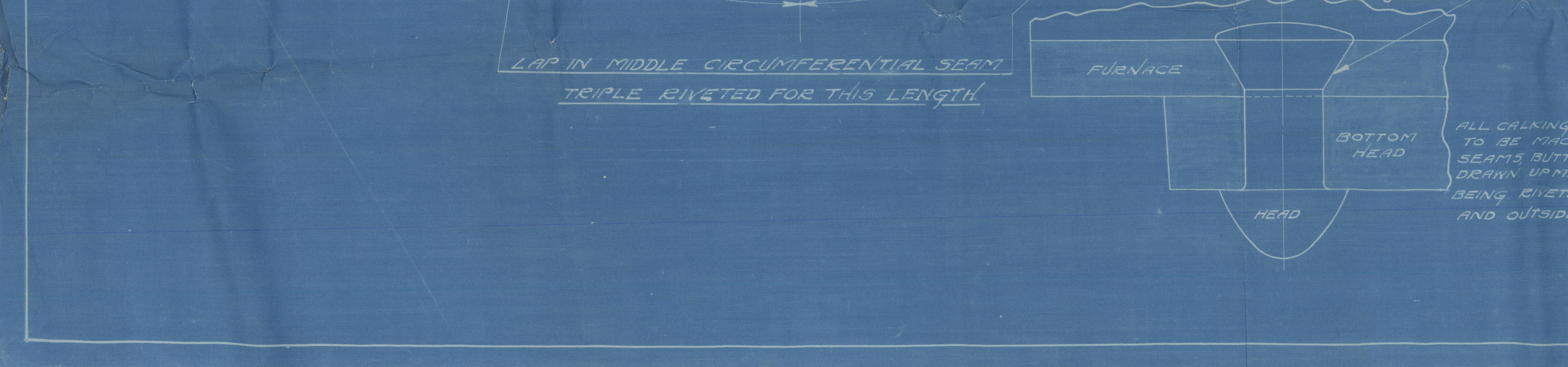
WATER TEST 330 "

EVAPORATION 300 LBS. OF WATER PER SQ. FT. OF GRATE PER HOUR.

TWIN SAFETY VALVE COMBINED AREA OF 19.62"

FOR DETAILS OF BOTTOM HEAD STAY & ETC. SEE DR. 167-561-3

2-BOILER AS DRAWN FOR ONE 1-BOILER TO OTHER HAND SHIP



ALL SCREW STAYS W/1 SCREW STAYS ON BACK HEAD MARKED THUS

2 DIA. NUTS 1 1/2\"/>

SCREW STAYS ON BACK HEAD MARKED THUS

1 1/2\"/>

WRAPPER SCREW STAYS 1 1/2\"/>

GIRDER SCREW STAYS 1 1/2\"/>

ALL SCREW STAYS HAVE 12 FULL V THREADS PER INCH.

ALL SCREW STAYS TO HAVE 1 1/2\"/>

BEYOND INNER SURFACE OF PLATE.

THIS DR SUPERSEDES DR 173-561-1

ENGINE DEPARTMENT

14 FT 11 1/2\"/>

HEADS 5 E SCOTCH BOILER

220 LBS WORKING PRESSURE

SCALE 1\"/>

NEW YORK SHIPBUILDING COMPANY

173-561-2

Lloyd's Register Foundation

"E. G. Soubert"

PHL 3042

A. V. F. B. G.

Main Bakers

N° 190

220 G. W. P.

EL Dohenny



W240-0223

James Dohenny

W240-0223



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