

17/7/19

PERCENTAGES	B of T.	LLOYDS
% OF PLATE	85.27%	85.27%
% OF RIVETS	85.98%	85.93%

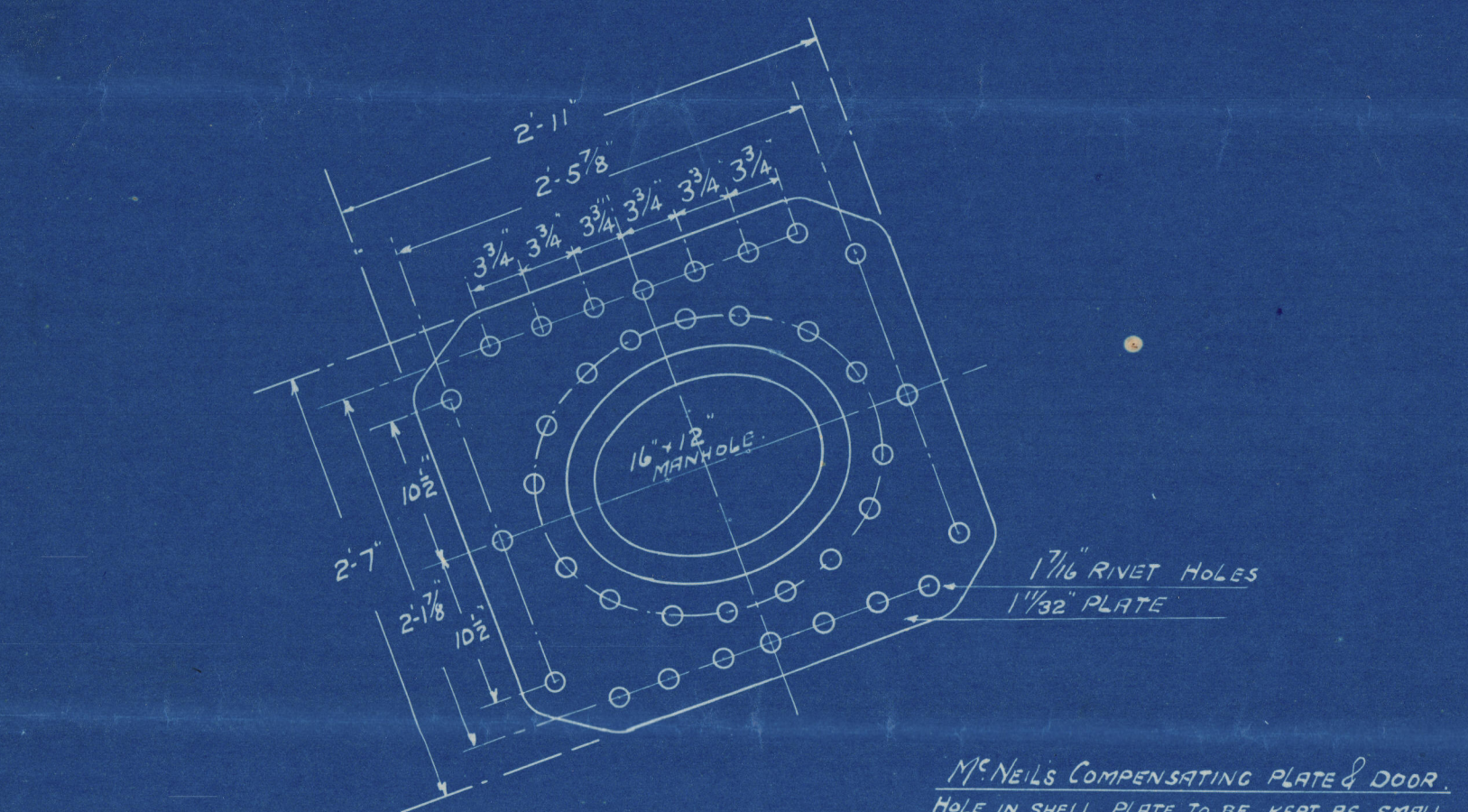
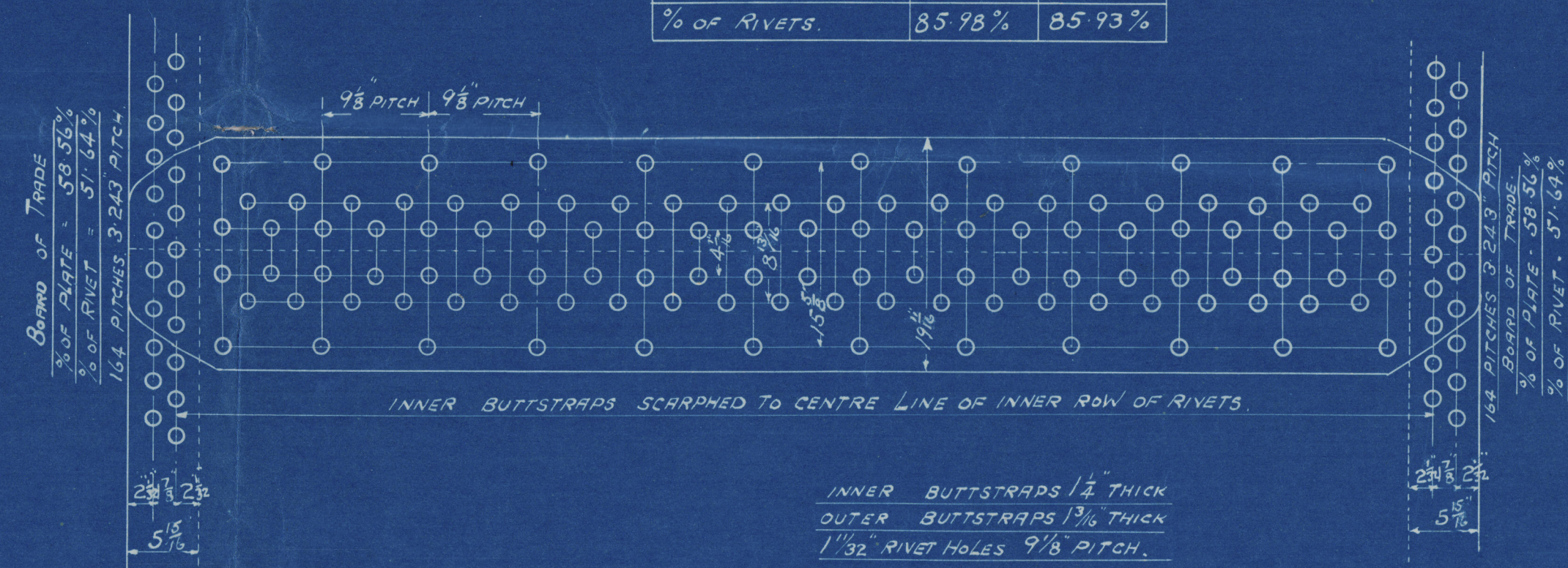
	BACK END	FRONT END	LONGT.
RIVET HOLE DIA	1 1/8"	1 1/8"	1 1/8"
PITCH	3 2/43	3 2/43	9 1/25

SURFACES	ONE BOILER
HEATING SURFACE OF TUBES	1321.5 Sq. Ft.
" " " FIREBOX TOP & SIDES	1111.6 Sq. Ft.
" " " TUBEPLATES	40.2 Sq. Ft.
" " " BACKPLATES	60.4 Sq. Ft.
" " " FURNACES	118.5 Sq. Ft.
TOTAL HEATING SURFACE	1818.2 Sq. Ft.
GRATE AREA (5-0" BARS)	49.95 Sq. Ft.
STEAM SPACE	335 Cu. Ft.
HEATING SURFACE GRATE AREA	31.19
WEIGHT OF WATER (COLD)	21.06 TONS

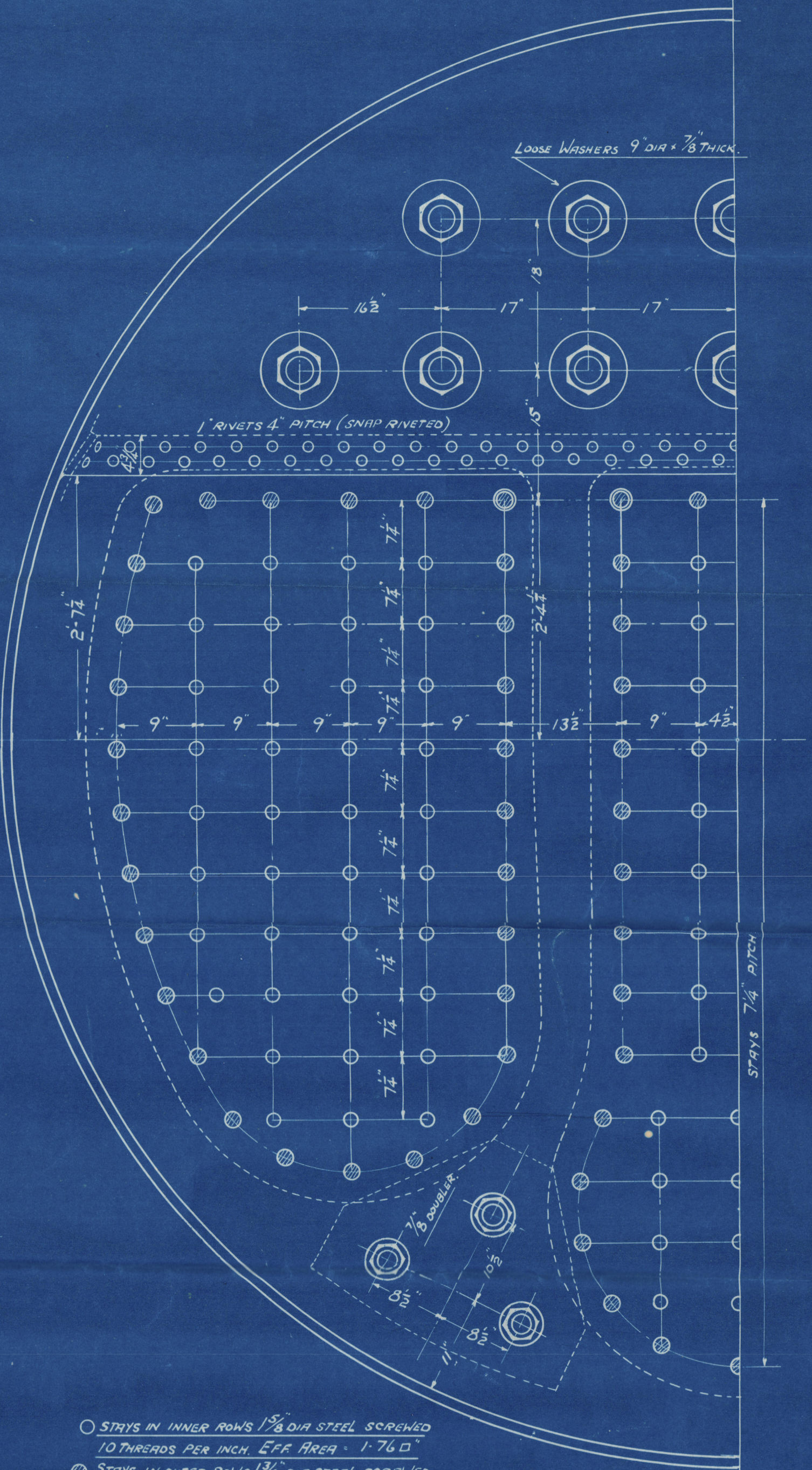
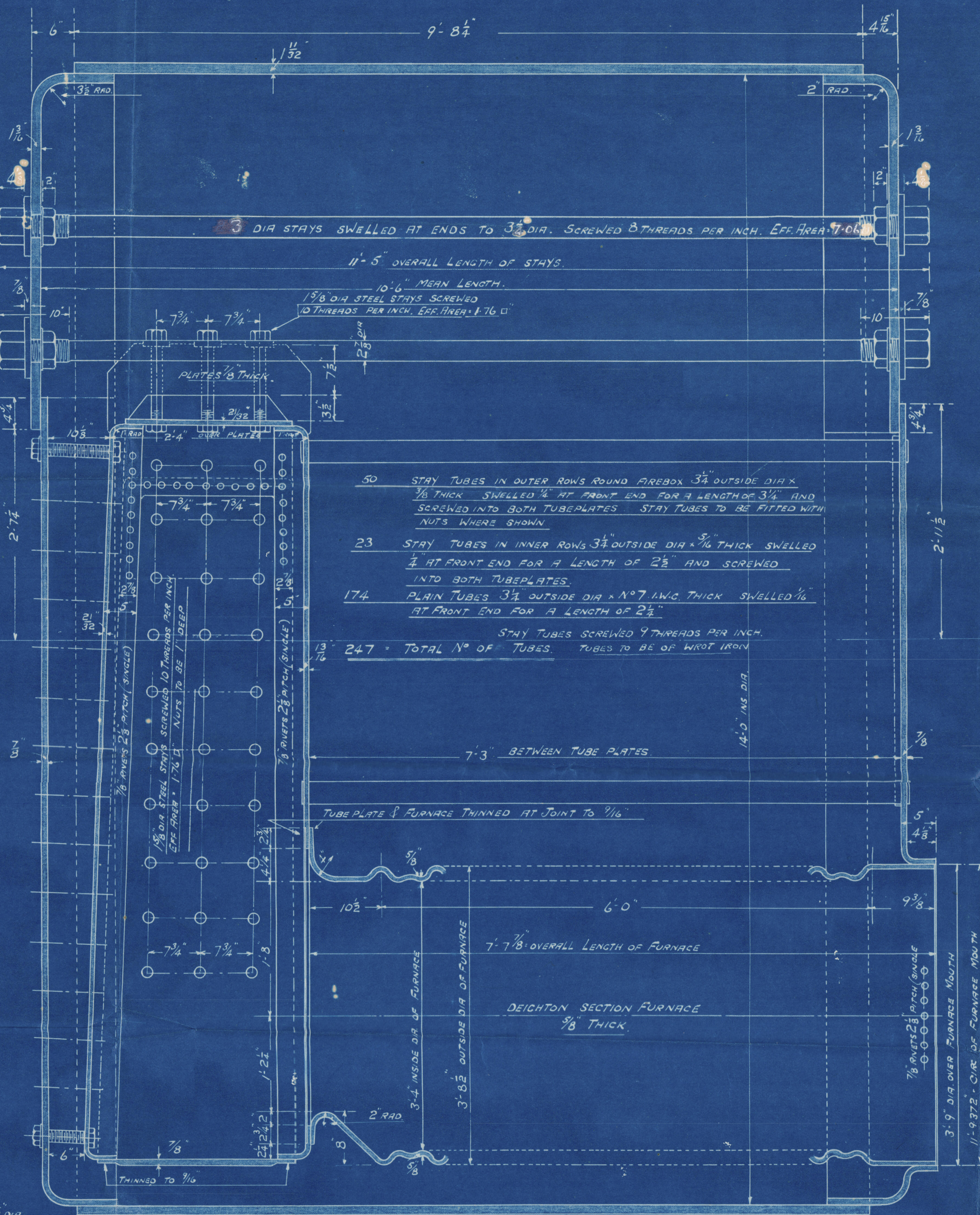
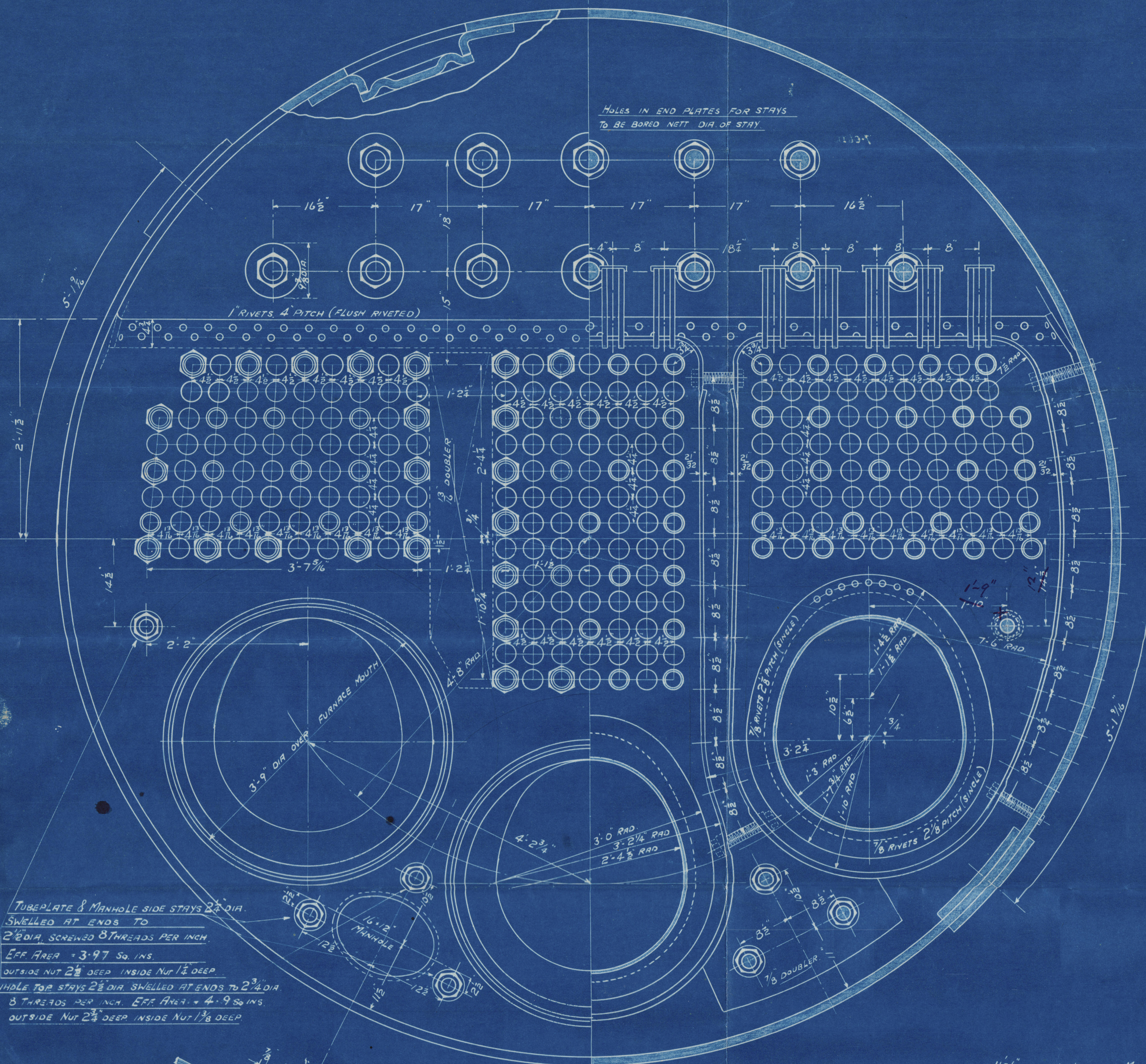
LIMITS OF TENSILE STRENGTH OF MATERIAL	
SHELL PLATES	29 TO 33 TONS
BUTTRAP GIRDERS & DOUBLERS	28 TO 32 TONS
OTHER PLATES	26 TO 30 TONS
FURNACES	26 TO 30 TONS
MAIN STAYS	28 TO 32 TONS
SCREWED STAYS	26 TO 30 TONS
RIVET BARS	26 TO 30 TONS

SIEMENS MARTIN STEEL

ALL RIVET HOLES DRILLED IN PLACE



McNELL'S COMPENSATING PLATE & DOOR
HOLE IN SHELL PLATE TO BE KEPT AS SMALL
AS POSSIBLE. FOR CORRECT POSITION
OF MANHOLE SEE DRAWING DIVER.



TUBEPLATE & MANHOLE SIDE STAYS 2 1/2" DIA.
SWELLED AT ENDS TO 2 3/4" DIA.
SCREWED 10 THREDS PER INCH. EFF. AREA = 3.97 SQ. INS.
OUTSIDE NUT 2 1/2" DEEP. INSIDE NUT 1 1/2" DEEP.
MANHOLE TOP STAYS 2 1/2" DIA. SWELLED AT ENDS TO 2 3/4" DIA.
8 THREDS PER INCH. EFF. AREA = 4.95 SQ. INS.
OUTSIDE NUT 2 1/2" DEEP. INSIDE NUT 1 1/2" DEEP.

ARRANGEMENT OF STAYS THRU SHELL
STAYS 1 3/8" DIA. SCREWED 10 THRS
PER INCH. EFF. AREA = 1.76 SQ. IN.
NO NUTS ON ENDS THRU SHELL PLATE

30 STAY TUBES IN OUTER ROWS AROUND FIREBOX 3 1/2" OUTSIDE DIA. X
3/8" THICK. SWELLED 1/2" AT FRONT END FOR A LENGTH OF 3 1/4" AND
SCREWED INTO BOTH TUBEPLATES. STAY TUBES TO BE FITTED WITH
NUTS INSIDE SHOWN.

23 STAY TUBES IN INNER ROWS 3 1/2" OUTSIDE DIA. X 3/8" THICK. SWELLED
1/2" AT FRONT END FOR A LENGTH OF 2 1/2" AND SCREWED
INTO BOTH TUBEPLATES.

17 1/2 PLAIN TUBES 3 1/2" OUTSIDE DIA. X 3/8" THICK. SWELLED 1/2"
AT FRONT END FOR A LENGTH OF 2 1/2".

STAY TUBES SCREWED 9 THREDS PER INCH.

24 1/2 = TOTAL N° OF TUBES. TUBES TO BE OF MILD IRON.

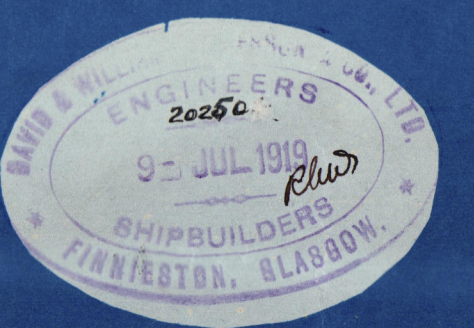
- ① STAYS IN INNER ROWS 1 3/8" DIA. STEEL SCREWED 10 THREDS PER INCH. EFF. AREA = 1.76 SQ. IN.
- ② STAYS IN OUTER ROWS 1 3/8" DIA. STEEL SCREWED 10 THREDS PER INCH. EFF. AREA = 2.07 SQ. IN.
- ③ CORNER STAYS 2 1/2" DIA. STEEL SCREWED 10 THREDS PER INCH. EFF. AREA = 2.75 SQ. IN.
- NUTS ON EACH END OF ALL STAYS THRU COMB. CHAMBER BACK & BACK END PLATE NUTS TO BE 1" DEEP.

TO PASS BOARD OF TRADE FOR A WORKING PRESSURE OF 215 LBS PER SQ. INCH.

LLOYDS TEST PRESSURE 430 LBS PER SQ. INCH.

N°504
AUXY BOILER

SCALE 1" = 1 FOOT.
ONE OFF REQUIRED.



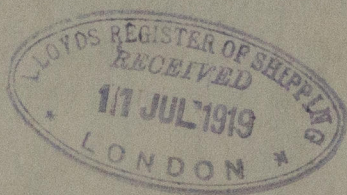
W.P.
R.L.D.
9.7.19

W652-0167 (1/4)

From DAVID & WILLIAM HENDERSON & CO., LTD.
FOR ENCLOSURE TO

LLOYD'S REGISTER OF SHIPPING
Foundation

Glasgow
W & W Henderson & Co
Auch Boiles
No 504



app 7/7/19

S.S. "Hogarth"
Glasgow 41586.

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