

5/4/16

1687
1742
3181
4105

SURVEY TO LLOYD'S REQUIREMENTS AND OWNERS APPROVAL

HEATING SURFACE ON TUBES = 2407 SQ. FT.

ELSEWHERE = 628 SQ. FT.

TOTAL = 3335 SQ. FT. PER BOILER.

STEAM SPACE = CUB. FT.

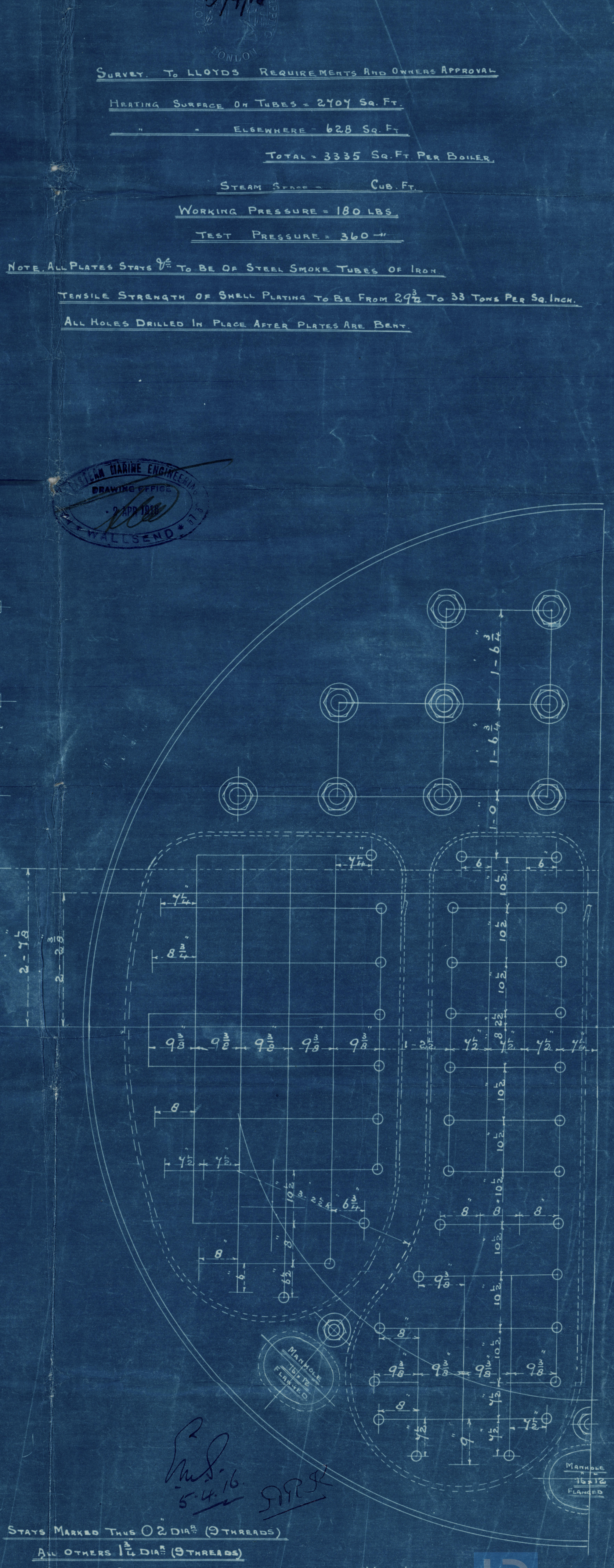
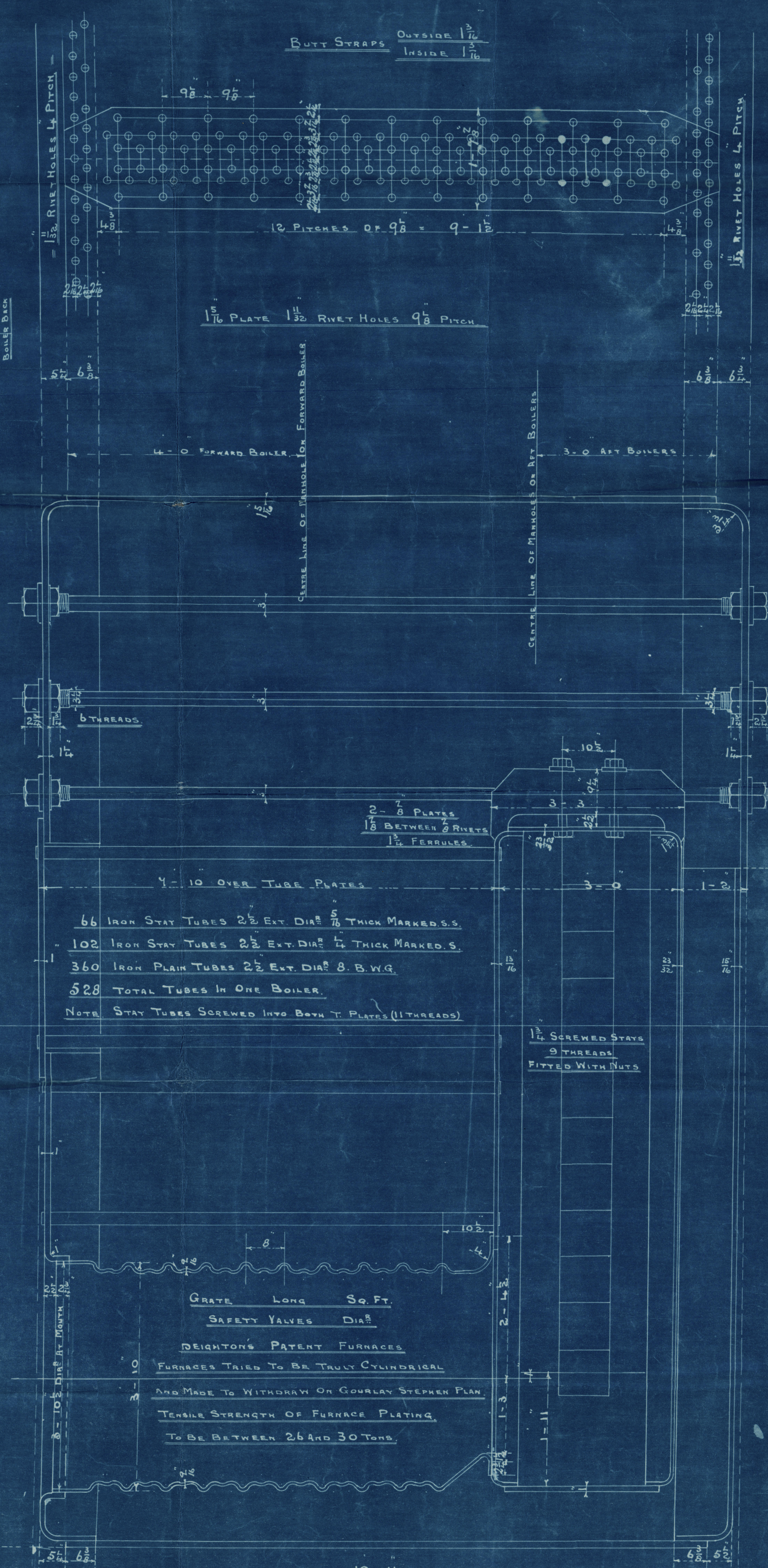
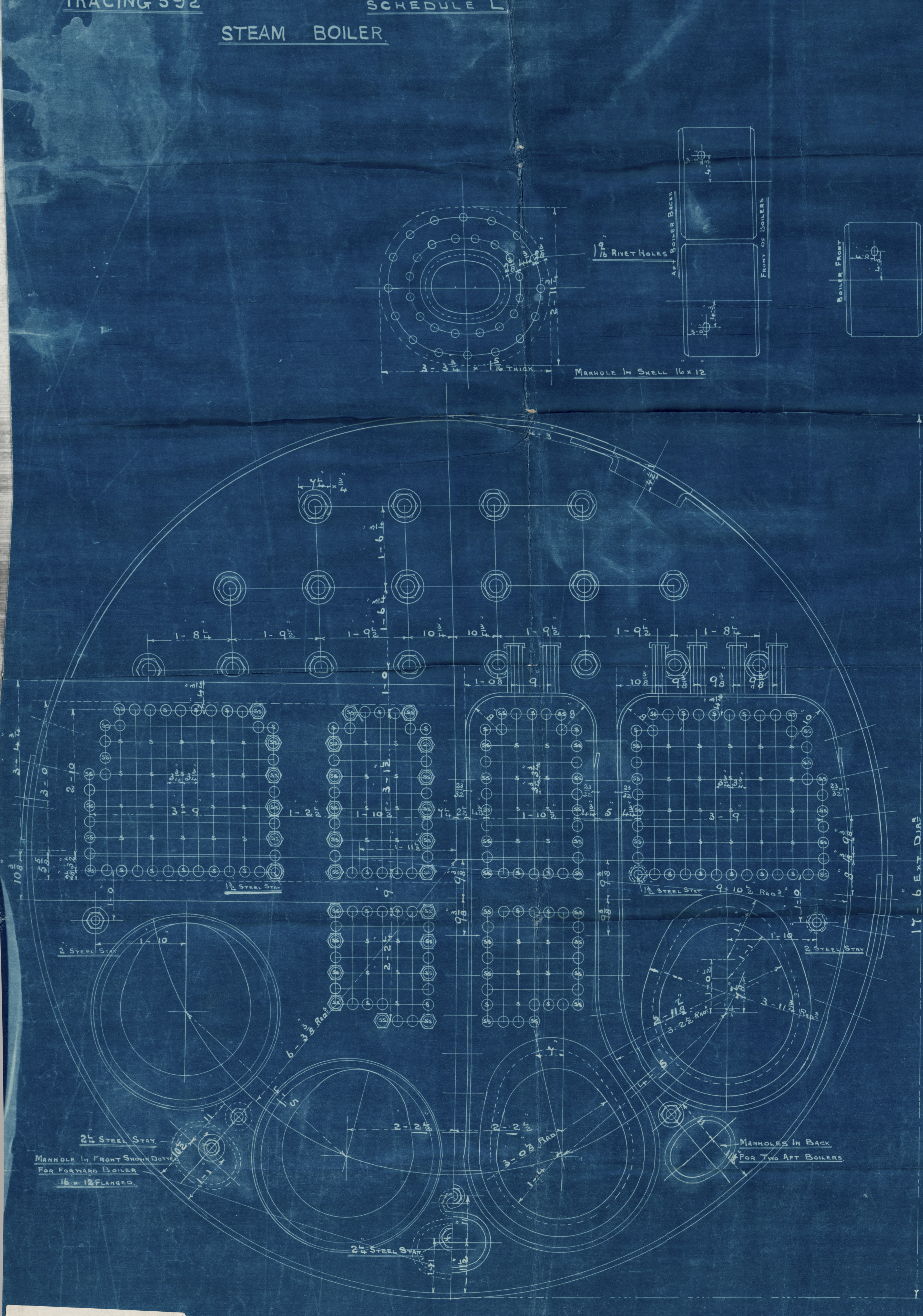
WORKING PRESSURE = 180 LBS.

TEST PRESSURE = 360 LBS.

NOTE: ALL PLATES STAYS $\frac{9}{16}$ " TO BE OF STEEL SMOKE TUBES OF IRON.

TENSILE STRENGTH OF SHELL PLATING TO BE FROM 29 $\frac{1}{2}$ TO 33 TONS PER SQ. INCH.

ALL HOLES DRILLED IN PLACE AFTER PLATES ARE BENT.



- 66 IRON STAY TUBES 2 $\frac{1}{2}$ " EXT. DIA. $\frac{5}{16}$ " THICK MARKED S.S.
- 102 IRON STAY TUBES 2 $\frac{1}{2}$ " EXT. DIA. $\frac{1}{4}$ " THICK MARKED S.
- 360 IRON PLAIN TUBES 2 $\frac{1}{2}$ " EXT. DIA. 8 B.W.G.
- 528 TOTAL TUBES IN ONE BOILER.
- NOTE: STAY TUBES SCREWED INTO BOTH T. PLATES (11 THREADS)

GRATE LONG SQ. FT.
SAFETY VALVES DIA.

DEIGHTON'S PATENT FURNACES

FURNACES TAIED TO BE TAULT CYLINDRICAL
AND MADE TO WITHDRAW ON GOWLEY STEPHEN PLAN.
TENSILE STRENGTH OF FURNACE PLATING
TO BE BETWEEN 26 AND 30 TONS

STAYS MARKED THUS O 2 DIA. (3 THREADS)

ALL OTHERS 1 $\frac{1}{2}$ " DIA. (9 THREADS)

NOTE: ALL SCREW STAYS SCREWED INTO PLATE AND FITTED WITH NUTS.

FOR POSITION OF MANHOLES

SEE SKETCH ABOVE.

3. OFF CONTRACT. 2247. 2281.

N. E. Marine
Boilers Nos 2247-2281
for
Northumberland S.B. 231-238

180 lbs pressure
Newcastle 4/4/16

Duplicate of C. 2223

2247 S. S. 'Clan Mackenzie'

S/S. CLAN MACKENZIE

NEWCASTLE ON TYNE.

Report No. 70,004

S.S. "MONTCALM"

NEWCASTLE ON TYNE.

Report No. 70257.

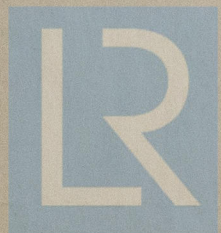


WS15-0048

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J. E. Bowers

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