

11: 5: 06

STEEL BOILER N° 525

WORKING PRESSURE = 200 LBS. PER SQ. IN.

SCALE 1 INCH = 1 FOOT

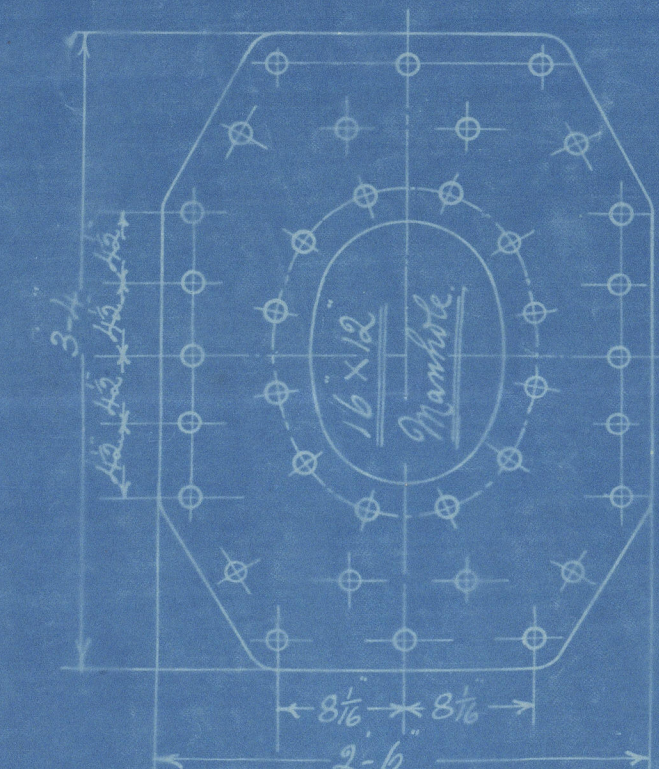
DIMENSIONS

LENGTH OF FIRE BARS	4-0
AREA OF FIRE GRATE	4.94
DIAM. OF TUBES OUTSIDE	3 1/2
LENGTH OF TUBES over plates	6-4
N° OF TUBES	145
AREA THROUGH TUBES	7.254
SURFACE OF TUBES	960.4
TOTAL HEATING SURFACE	12.504
WORKING PRESSURE	200 LBS.

Note!
All plates, stays, and rivets to be of Siemens Martin Steel.
All rivet holes throughout the boiler to be drilled in place
after the plates are bent. The screw stays are 1 1/4", 1 3/8" & 1 1/2"
effective diameter, screwed into both plates and nutted at each end
screwed 10 threads per inch. The tubes are of iron the ordinary
tubes are 3 1/2" ext. diam x 1 1/2" B.S.S.G. thick. The stay tubes
are 2 1/2" int. diam x 5/16" thick effective, screwed at ends to 3 1/2" & 3 3/4" diam.
A Manhole in shell 16" x 12" with shorter axis longitudinally
and a doubling plate 3-4" x 2-6" x 1 1/2" thick fitted round it.

All plates & stay bars made by

Doubling plate round manhole
1 1/2" thick



All 1 1/8" rivet holes
inner row countersunk
& flush riveted.

Plan of Shell Riveting

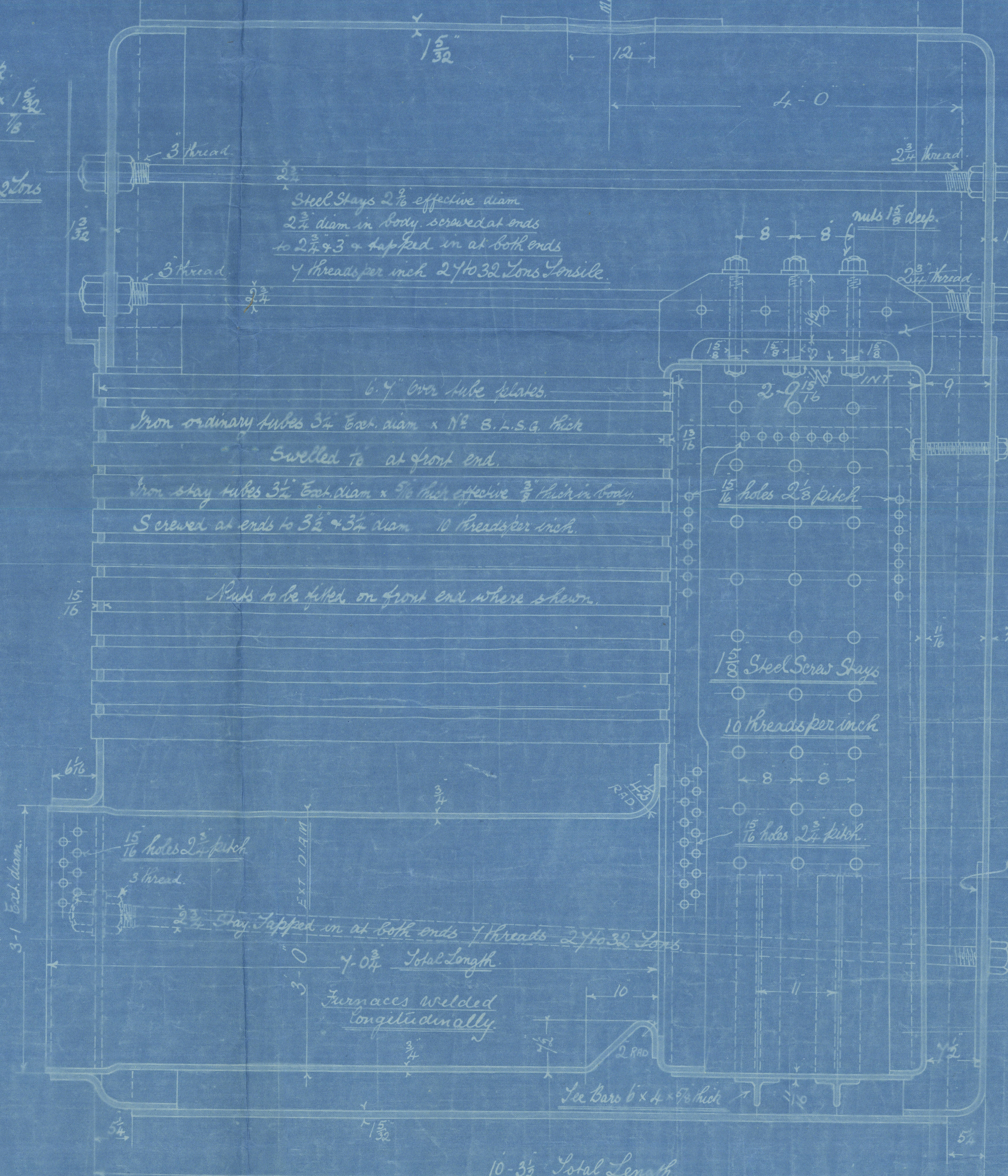
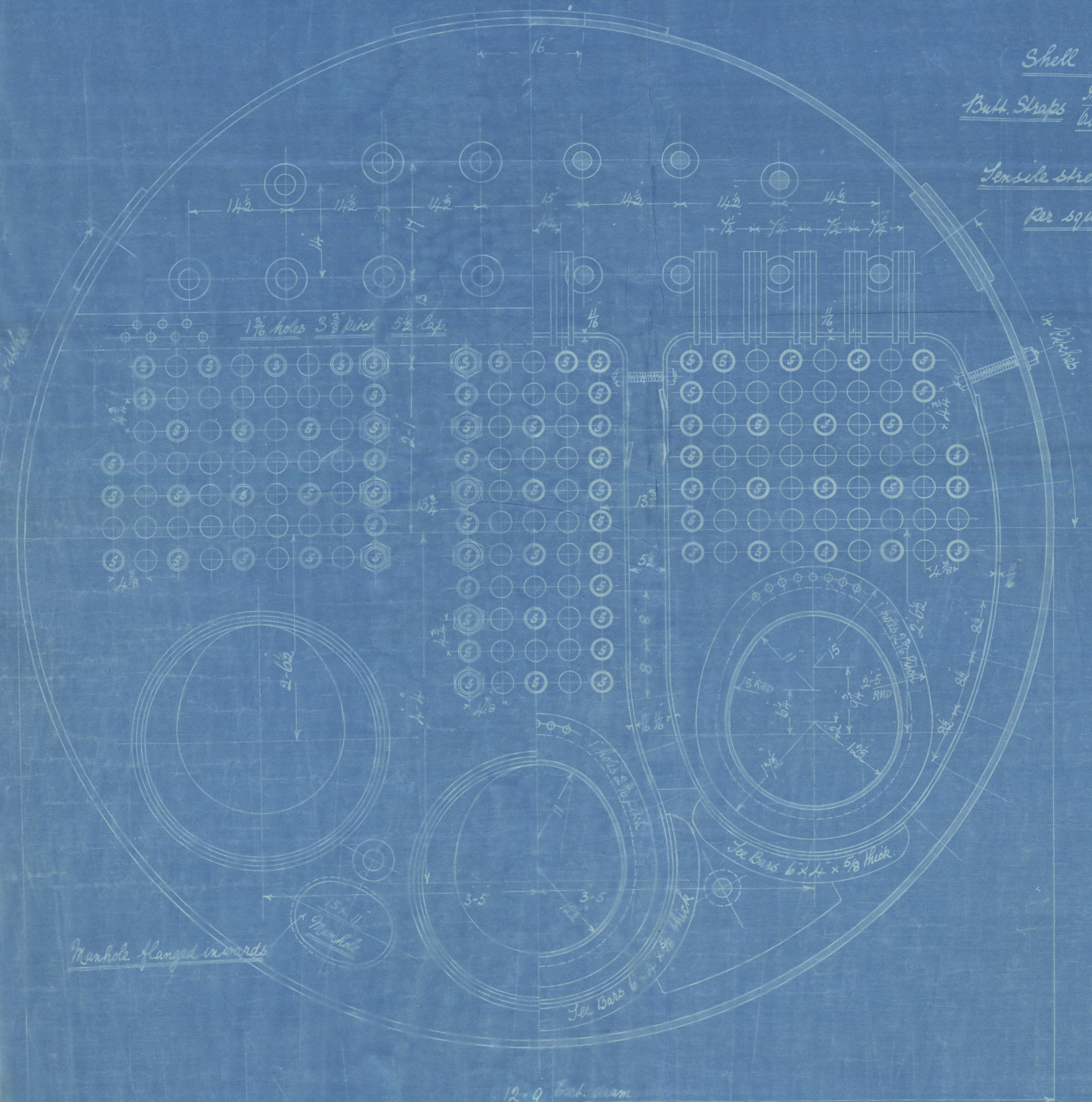
1 1/8" holes 8 1/2" pitch
Percentage of Plate = 35.2%
Rivets = 103.9% Lloyds 86.3%

1 1/2" holes
3 1/2" pitch

1 1/2" holes
3 1/2" pitch

Shell 1 1/2" thick
Butt Straps Inside 1 1/2" x 1 1/2"
Outside 1 1/2" x 1 1/2"

Tensile strength 28432 lbs
Per square inch



All 1 1/4" Steel Screw
Stay except those
which are shown
in section which
are 1 1/8" diam
10 threads per inch
Inside doubling plate
3 1/2" thick
riveted on with
1 rivets
1/8" rivet holes



10.5.06

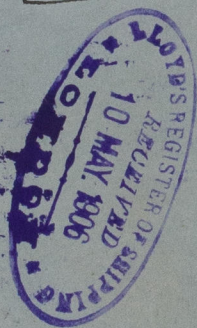
6266A
8-5-06
Lloyds

N° 525

Messrs
Charles b. h

Boiler No 525
of Myton
Hull Rph No. 18539

No 1523
Lloyds Test
400 lbs
J.B.
2.11.06



RETAIN

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