

HEATING SURFACE.

TUBES	1987
FURNACES	156
COMBUSTION CHAMBERS	238
TUBE PLATES	86

ONE BOILER 2467 229 sq. metres

TOTAL IN THREE BOILERS 7401 689 sq. metres

WORKING PRESSURE 180 LBS. PER SQ. INCH. 12.655 Mils. per sq. in.

TEST 360 25.81 Mils. per sq. in.

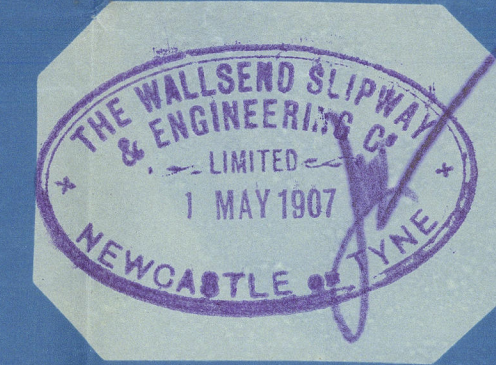
BOILER. CONTRACT N° 646.

MESSRS. SIR W. G. ARMSTRONG WHITWORTH & CO. SS N° 301

CONSTRUCTED TO PASS LLOYD'S BOARD OF TRADE & HAMBURG LAW REQUIREMENTS.

3. OFF THIS

SCALE 1" = ONE FOOT.



MATERIAL MANUFACTURED BY

PLATES STEEL

RIVETS

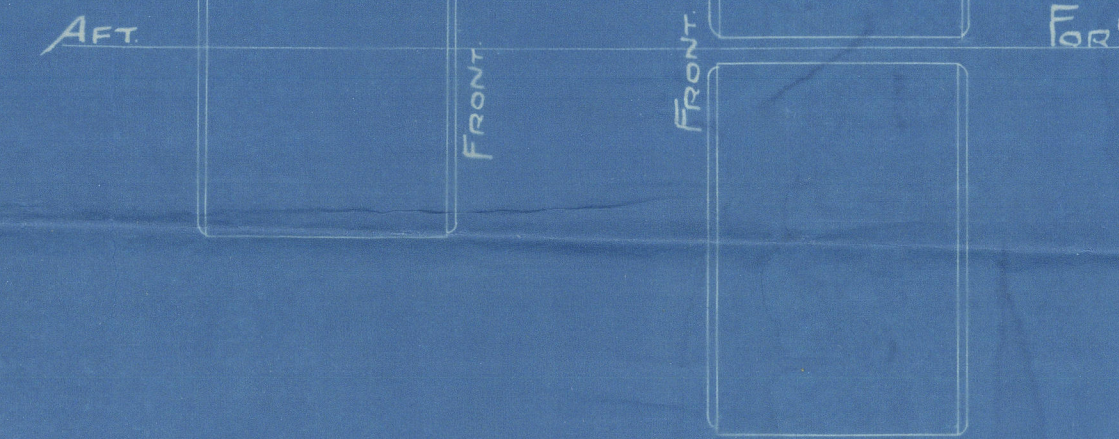
LONGITUDINAL STAYS

SCREW IRON

TUBES

SPARE GEAR

90 BOILER TUBES



PLAN OF SHELL RIVETING

STRENGTH OF JOINT

PLATE = 85%

RIVET =

= 87.2 B OF TRADE (4.5 FACTOR)

STRESS IN = 6.78 MILS. PER SQ. CM. HAMB. LAW

TENSILE STRENGTH OF SHELL & BUTT STRAPS 27 TO 33 TONS PER SQ. IN.

SHELL HYDRAULIC RIVETED WHERE PRACTICABLE

ALL HOLES DRILLED IN PLACE AFTER BENDING

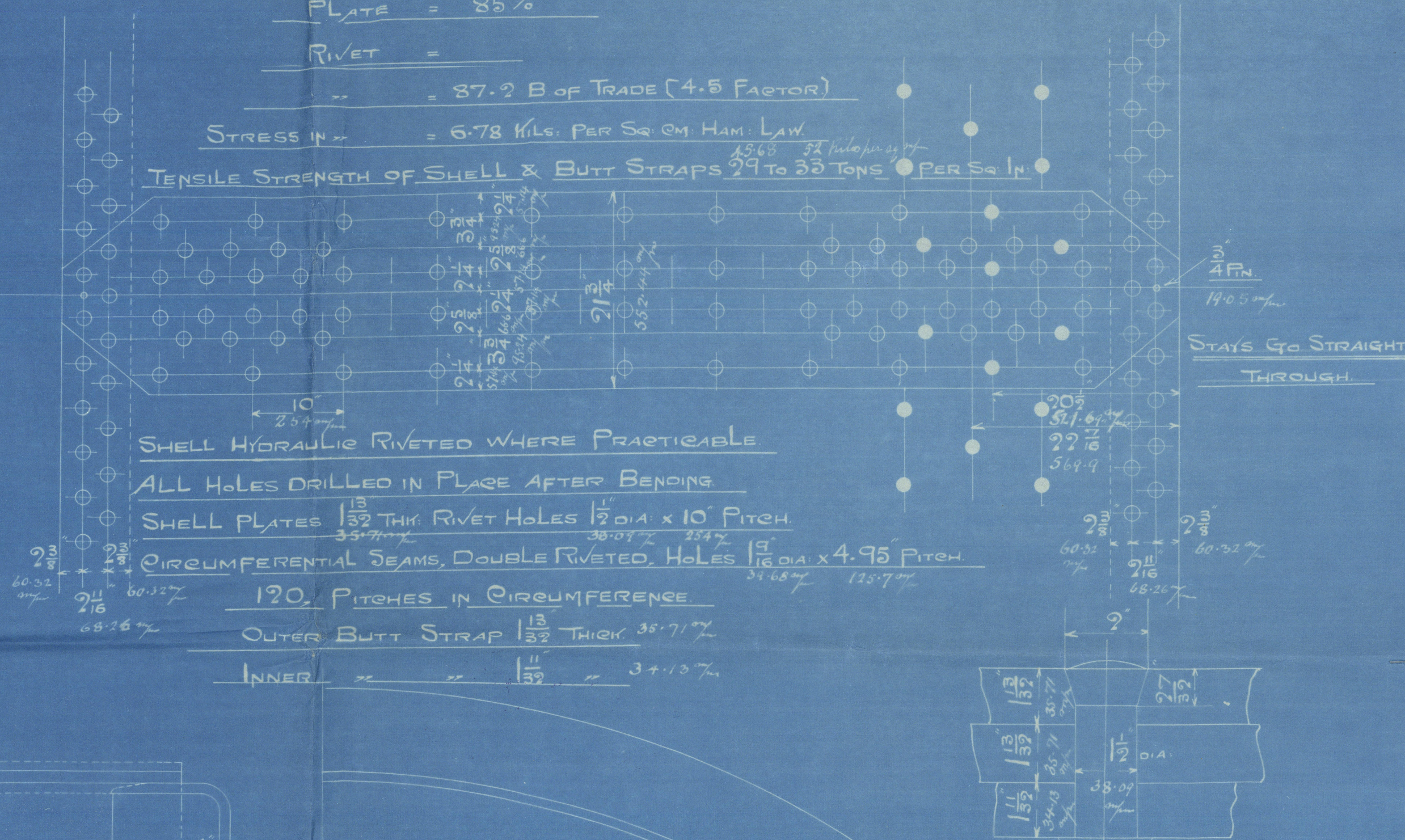
SHELL PLATES 1 1/2" THIN RIVET HOLES 1 1/2" DIA. x 10" PITCH

CIRCUMFERENTIAL BEAMS, DOUBLE RIVETED, HOLES 1 1/2" DIA. x 4.95" PITCH

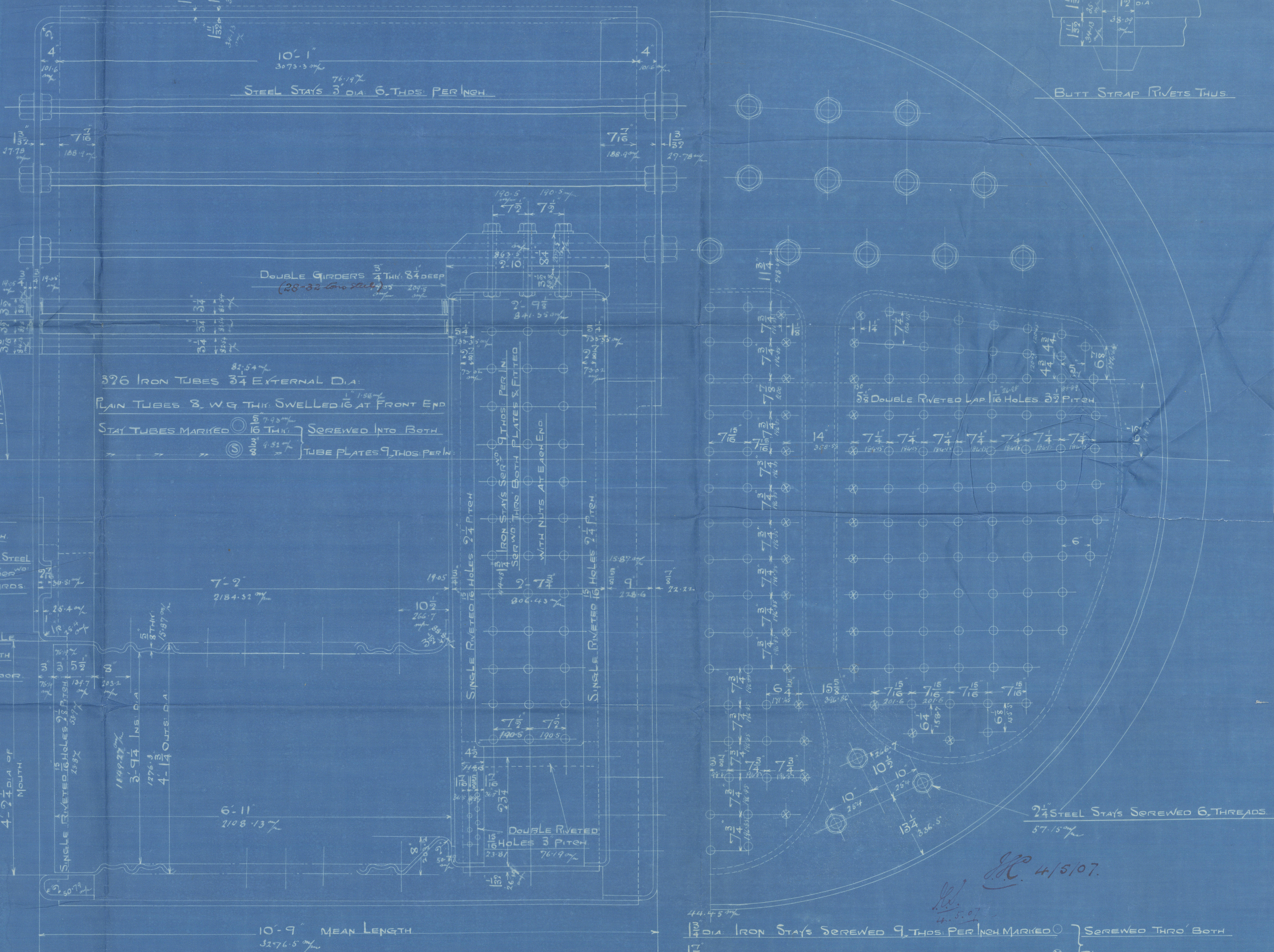
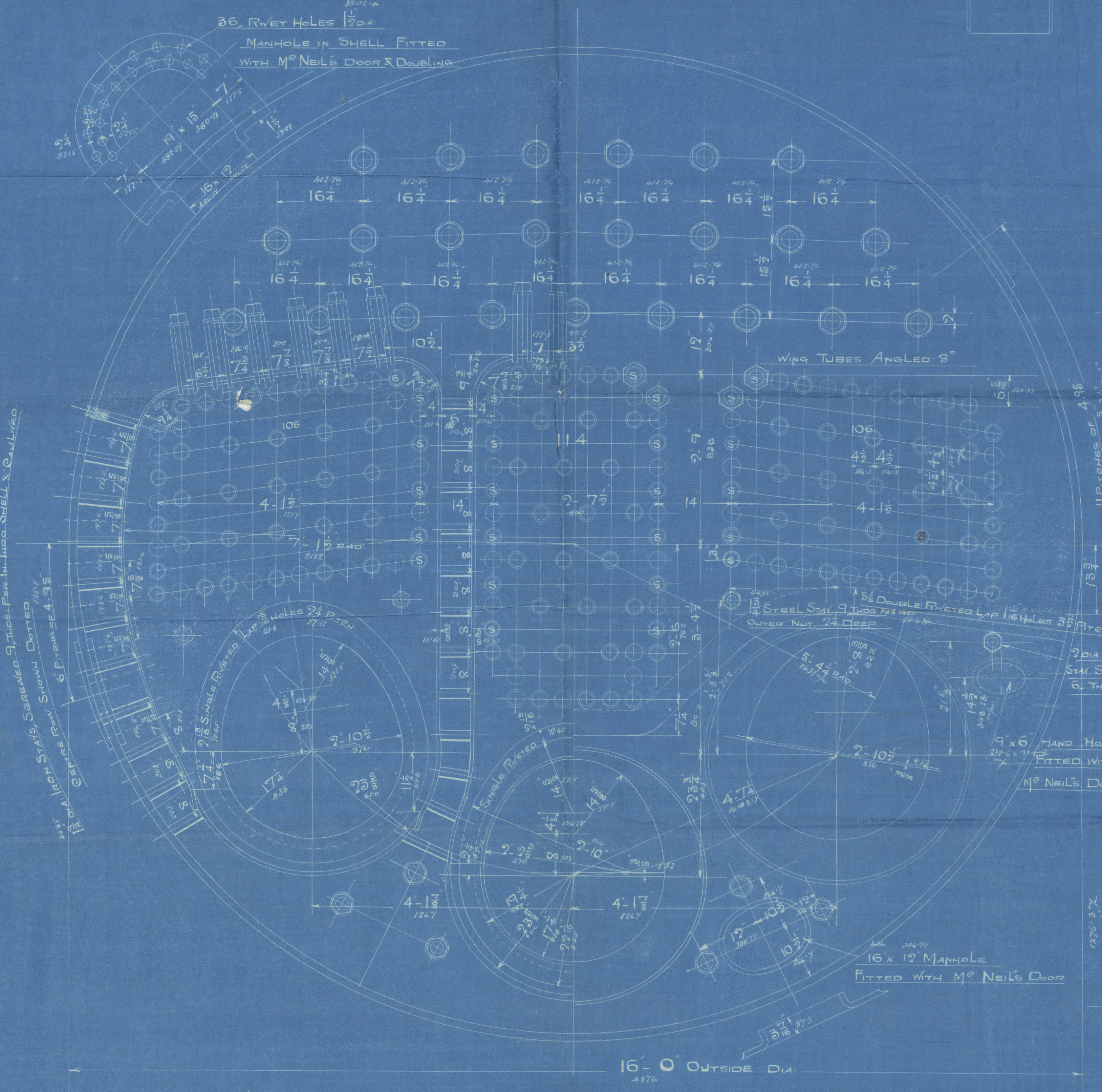
120" PITCHES IN CIRCUMFERENCE

OUTER BUTT STRAP 1 1/2" THIN 35.71%

INNER 1 1/2" 34.43%



BUTT STRAP RIVETS THUS



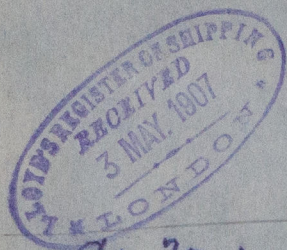
4/5/07.

4 1/2" DIA. IRON STAYS SERewed 9 THRS PER INCH MARKED 17 SERewed Thro' BOTH PLATES & FITTED WITH NUTS EACH END

Roller Plan
Armstrong White ^m
S/S 801.

Wallsend Slip way 6⁰
N° 646

180



S/S "Oberon"

S.S. "Oberon".....

Newcastle Report

N° 54.026.....

RETAIN

LR

© 2021.

WS87 Lloyd's Register
Foundation