

6.3.03

CHECKED BY
DATE 3.3.03
TIME CHARGED TO
No 1

THE WALLSEND SLIPWAY
& ENGINEERING CO.
3-MAR-1903
NEWCASTLE ON TYNE

BOILER CONTRACT N°579.

MESSRS SIR W.G. ARMSTRONG WHITWORTH & CO. S.S. N° 739

TO BE CONSTRUCTED TO PASS BOARD OF TRADE & LLOYD'S REQUIREMENTS
5. OFF THIS

SCALE 1" = 1 FT.

PLATES MANUFACTURED BY

PLATES STEEL
RIVETS "
MAIN STAYS "
C.C. STAYS WAYERLY IRON
TUBES MALLEABLE IRON

SPARE GEAR
60 PLAIN BOILER TUBES

PLAN OF SHELL RIVETING

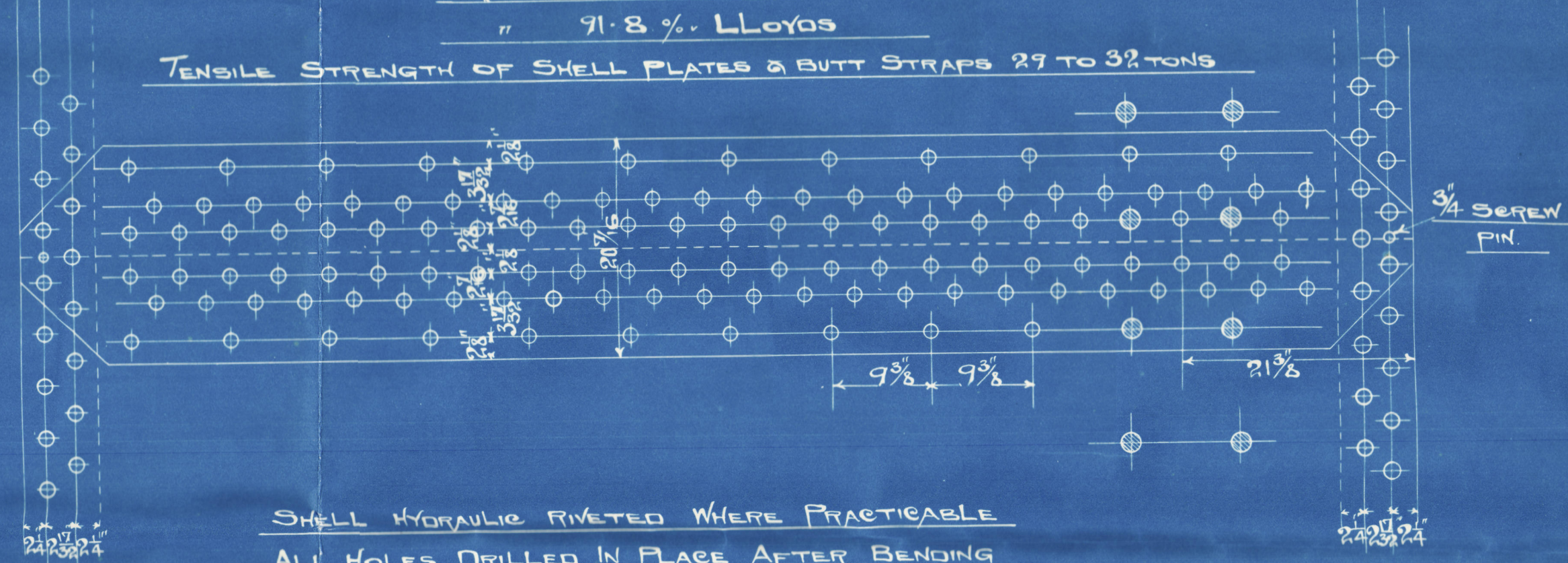
STRENGTH OF JOINT

PLATE 84.8 %

RIVET 85.5 % B.O.T. 4.5 FACTOR USED

" 91.8 % LLOYD'S

TENSILE STRENGTH OF SHELL PLATES & BUTT STRAPS 27 TO 32 TONS



SHELL HYDRAULIC RIVETED WHERE PRACTICABLE

ALL HOLES DRILLED IN PLACE AFTER BENDING

SHELL PLATES 1 1/2" THICK RIVET HOLES 1 1/2" DIA X 9 3/8" PITCH

CIRCUMFERENTIAL SEAMS DOUBLE RIVETED RIVET HOLES 1 1/2" DIA X 4.825" PITCH

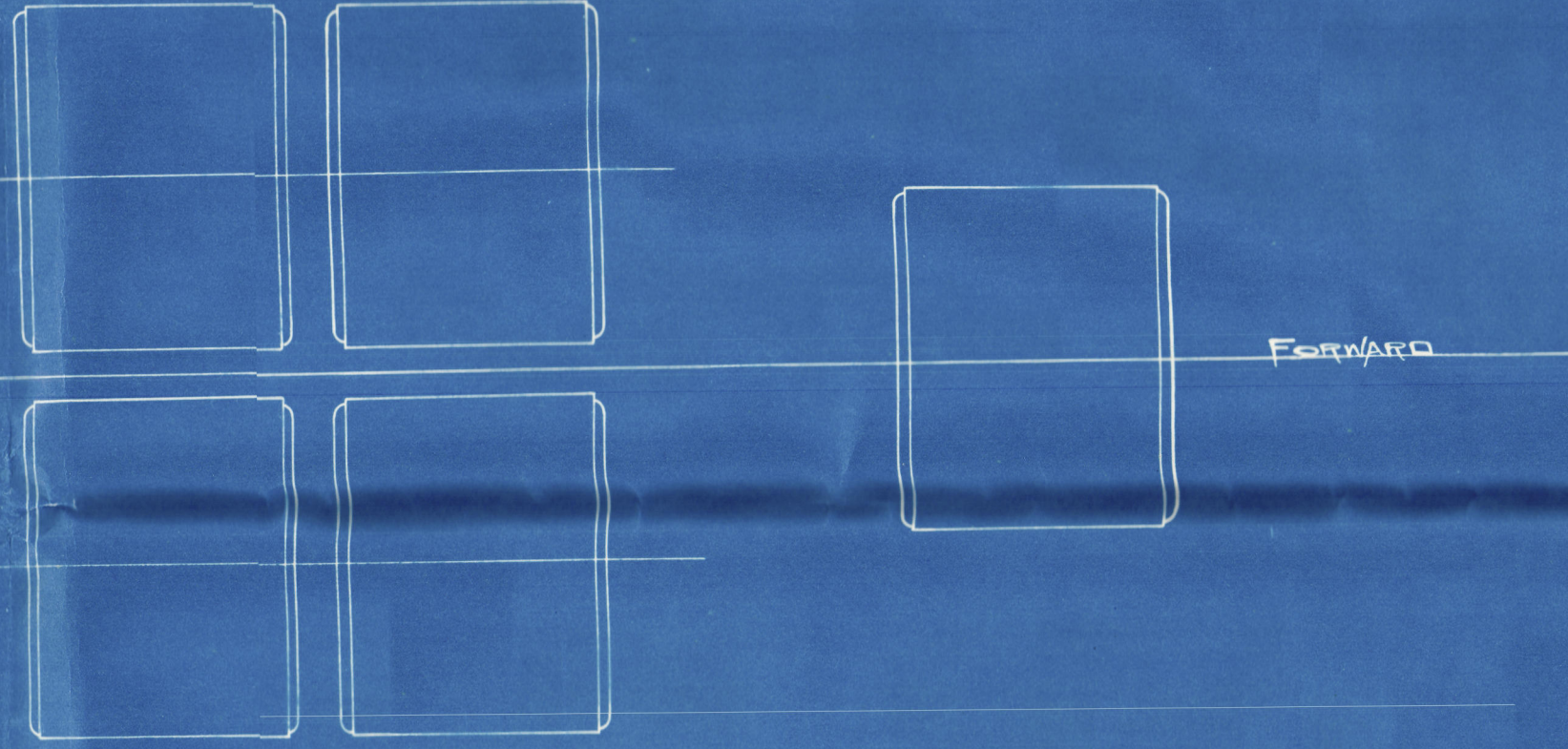
INSIDE BUTT STRAPS 1 1/4" THICK

OUTSIDE " " 1 1/2" "

HEATING SURFACE SQ. FT.
TUBES 2020
FURNACES 175
COMBUSTION CHAMBERS 211
TUBE PLATE 74
1. BOILER 2480
TOTAL 5 BOILERS 12400

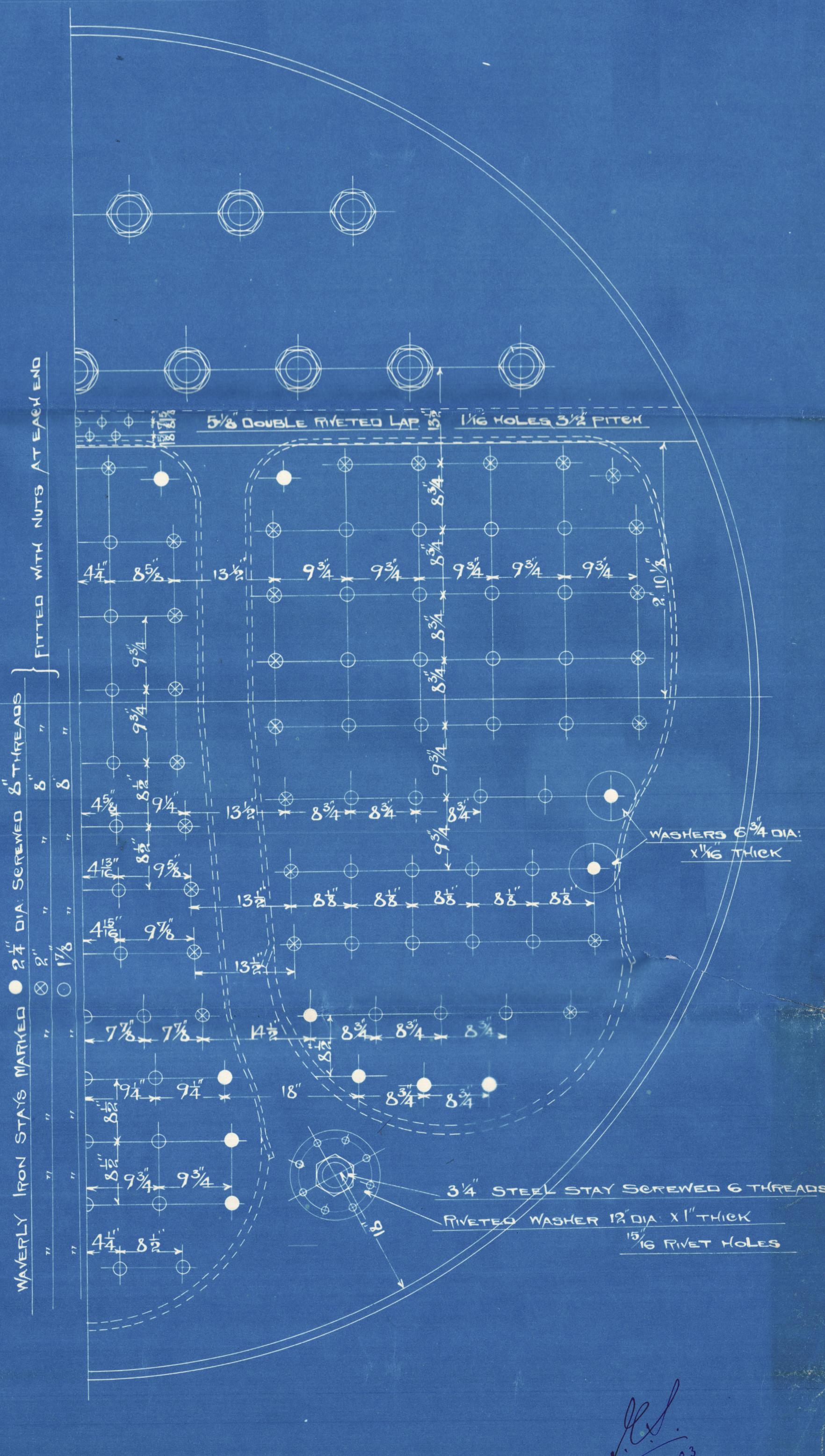
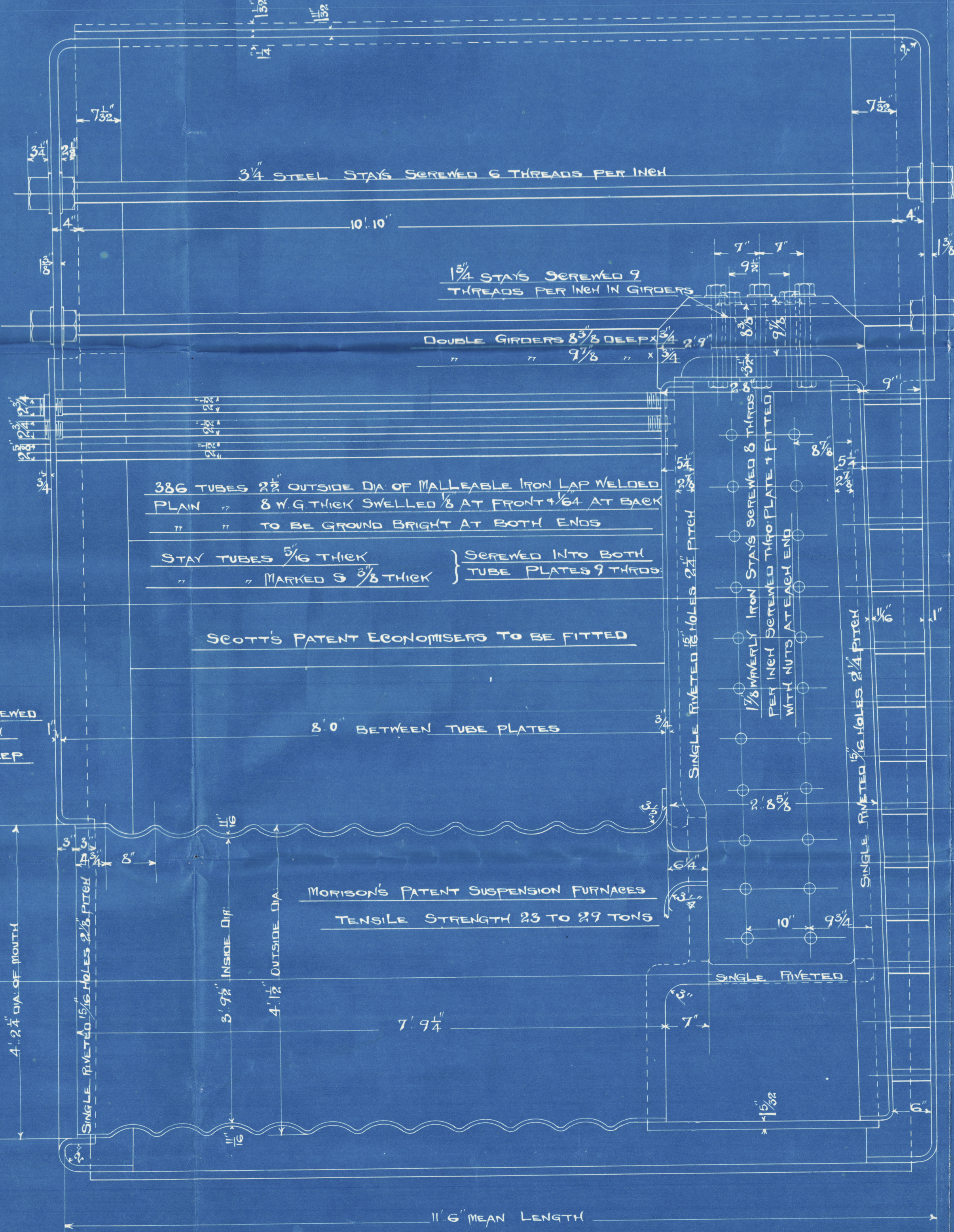
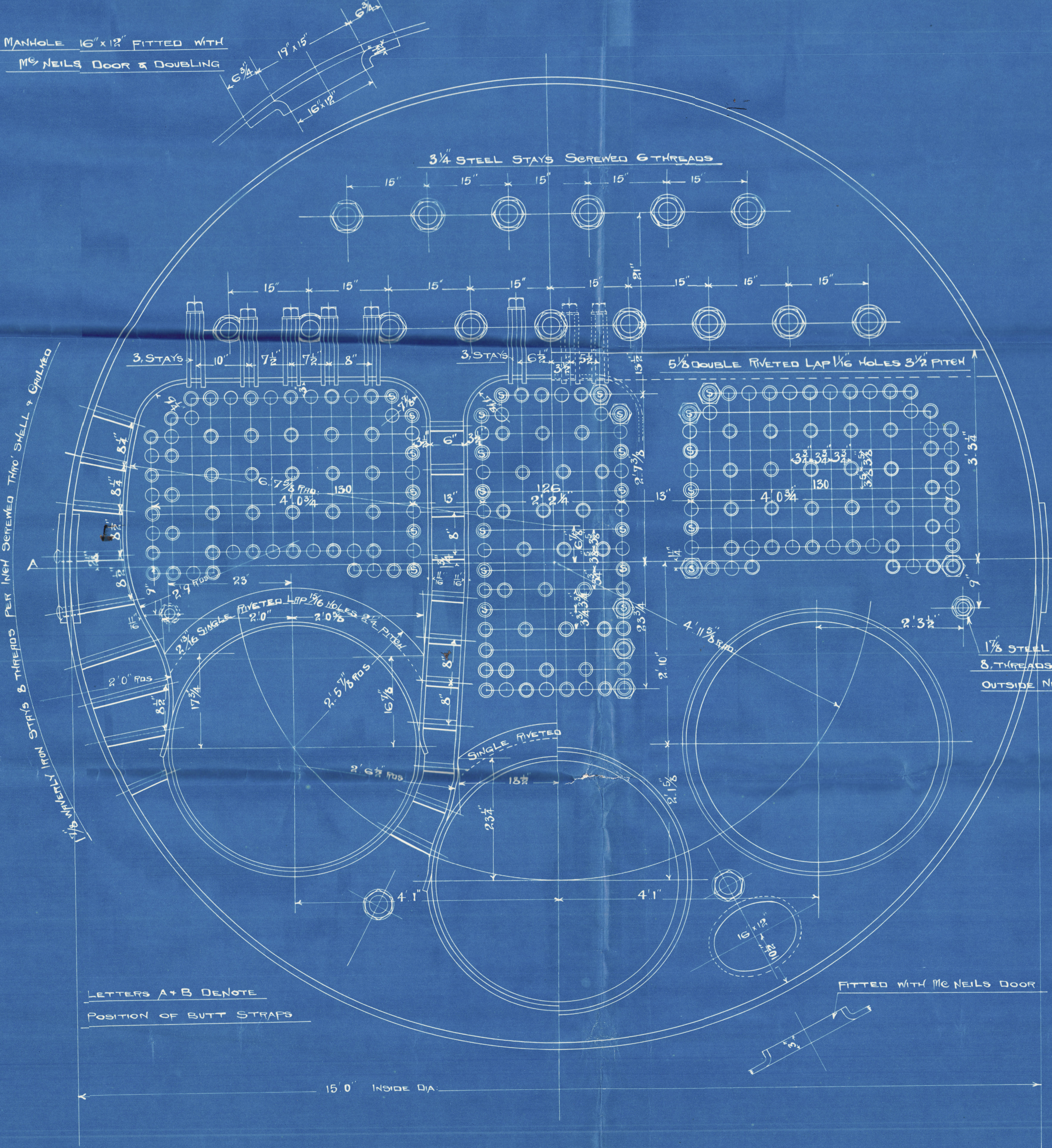
WORKING PRESSURE 180 LBS PER SQ. INCH

TEST " 360 " " " "



FORWARDED

MANHOLE 16" X 12" FITTED WITH
MC NEILS DOOR & DOUBLING



LETTERS A+B DENOTE
POSITION OF BUTT STRAPS

FURNACE MOUTHS TO BE GROUND & BOILER
FRONT PLATES AT FURNACE MOUTHS TO BE BORE

MORISON'S PATENT SUSPENSION FURNACES
TENSILE STRENGTH 23 TO 27 TONS

6.3.03

Wanand Shipway

Ct 579

for

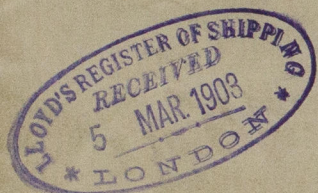
Armstrong Whitworth

S/S 739

SSE.
180 W.P.

No 6646
Lloyds List
360 Ws
S.H.H.
18-8-03

2 Bales to this



6 May 1904
Nov. 11/04

No 6659
Lloyds List
360 Ws
G.A.H. 31/7/03

3 Bales to this

S/S "Maritzburg"
S/S "Mendoza"
Newcastle No 49,382

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W668-0173



READS

Lloyds Register
Foundation

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