

LIST OF STEEL PLATES

A. 3 Plates 16.10 x 5.4 1/2 x 3/8 shell
 B 3 do 16.8 1/2 x 5.4 1/2 x 3/8 do
 C 1 do 8.1 x 5.4 1/2 x 3/8 back middle
 D 1 do 8.1 x 5.4 1/2 x 3/8 back middle
 E 1 do 16.3 x 5.4 1/2 x 3/8 back middle
 F 1 do 8.1 x 5.4 1/2 x 3/8 back middle

G 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 H 1 do 16.3 x 5.4 1/2 x 3/8 back middle

I 1 do 16.3 x 5.4 1/2 x 3/8 back middle
 J 1 do 16.3 x 5.4 1/2 x 3/8 back middle

K 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 L 1 do 16.3 x 5.4 1/2 x 3/8 back middle

M 1 do 16.3 x 5.4 1/2 x 3/8 back middle
 N 1 do 16.3 x 5.4 1/2 x 3/8 back middle

O 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 P 2 do 16.3 x 5.4 1/2 x 3/8 back middle

Q 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 R 2 do 16.3 x 5.4 1/2 x 3/8 back middle

S 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 T 2 do 16.3 x 5.4 1/2 x 3/8 back middle

U 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 V 2 do 16.3 x 5.4 1/2 x 3/8 back middle

W 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 X 2 do 16.3 x 5.4 1/2 x 3/8 back middle

Y 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 Z 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AA 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AB 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AC 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AD 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AE 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AF 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AG 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AH 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AI 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AJ 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AK 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AL 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AM 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AN 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AO 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AP 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AQ 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AR 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AS 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AT 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AU 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AV 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AW 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AX 2 do 16.3 x 5.4 1/2 x 3/8 back middle

AY 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 AZ 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BA 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BB 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BC 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BD 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BE 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BF 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BG 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BH 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BI 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BJ 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BK 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BL 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BM 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BN 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BO 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BP 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BQ 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BR 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BS 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BT 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BU 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BV 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BW 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BX 2 do 16.3 x 5.4 1/2 x 3/8 back middle

BY 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 BZ 2 do 16.3 x 5.4 1/2 x 3/8 back middle

CA 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 CB 2 do 16.3 x 5.4 1/2 x 3/8 back middle

CC 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 CD 2 do 16.3 x 5.4 1/2 x 3/8 back middle

CE 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 CF 2 do 16.3 x 5.4 1/2 x 3/8 back middle

CG 2 do 16.3 x 5.4 1/2 x 3/8 back middle
 CH 2 do 16.3 x 5.4 1/2 x 3/8 back middle

28 plates brought forward
 Q 1 Plate 11.2 x 4.3 x 1/2 back middle
 R 2 do 9.1 x 2.3 x 1/2 do sides inner wings
 S 1 do 8.4 x 2.3 x 1/2 do do middle
 T 2 do 12.4 x 2.3 x 1/2 do do do
 U 1 do 7.1 x 2.3 x 1/2 do do outer wings
 V 1 do 8.4 x 2.0 x 1/2 do do inner
 W 4 do 2.3 x 1.9 x 1/2 do do do
 X 2 do 2.0 x 1.0 x 1/2 do do do
 Y 1 do 2.6 x 1.0 x 1/2 do do do
 Z 1 do 2.6 x 1.0 x 1/2 do do do

43 plates total
 28 plates brought forward
 15 plates new

28 plates brought forward
 15 plates new

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TWO - STEEL BOILERS, ENGINES No 1911

WORKING PRESSURE 90 LBS PER SQUARE INCH . TEST 180 LBS

SCALE 1 INCH = 1 FOOT

ALL HOLES DRILLED IN PLACE AND ALL MATERIAL OF STEEL EXCEPT TUBES AND PLATE STAYS.

Heating surface in tubes 1 Boiler 1636.5 x 2 = 3273 squareft
 Furnaces 1 177 x 2 = 354
 Combustion Case 1 225 x 2 = 450
 Front tube plate 1 54 x 2 = 108
 2092.5 x 2 = 4185 squareft

Steam room in 1 boiler 460 x 2 = 920 Cubic ft total

Area through tubes 1325 x 2 = 2650 sq ft total

Fire bar surface 66 x 2 = 132 sq ft total

Water surface 139 x 2 = 278 sq ft total

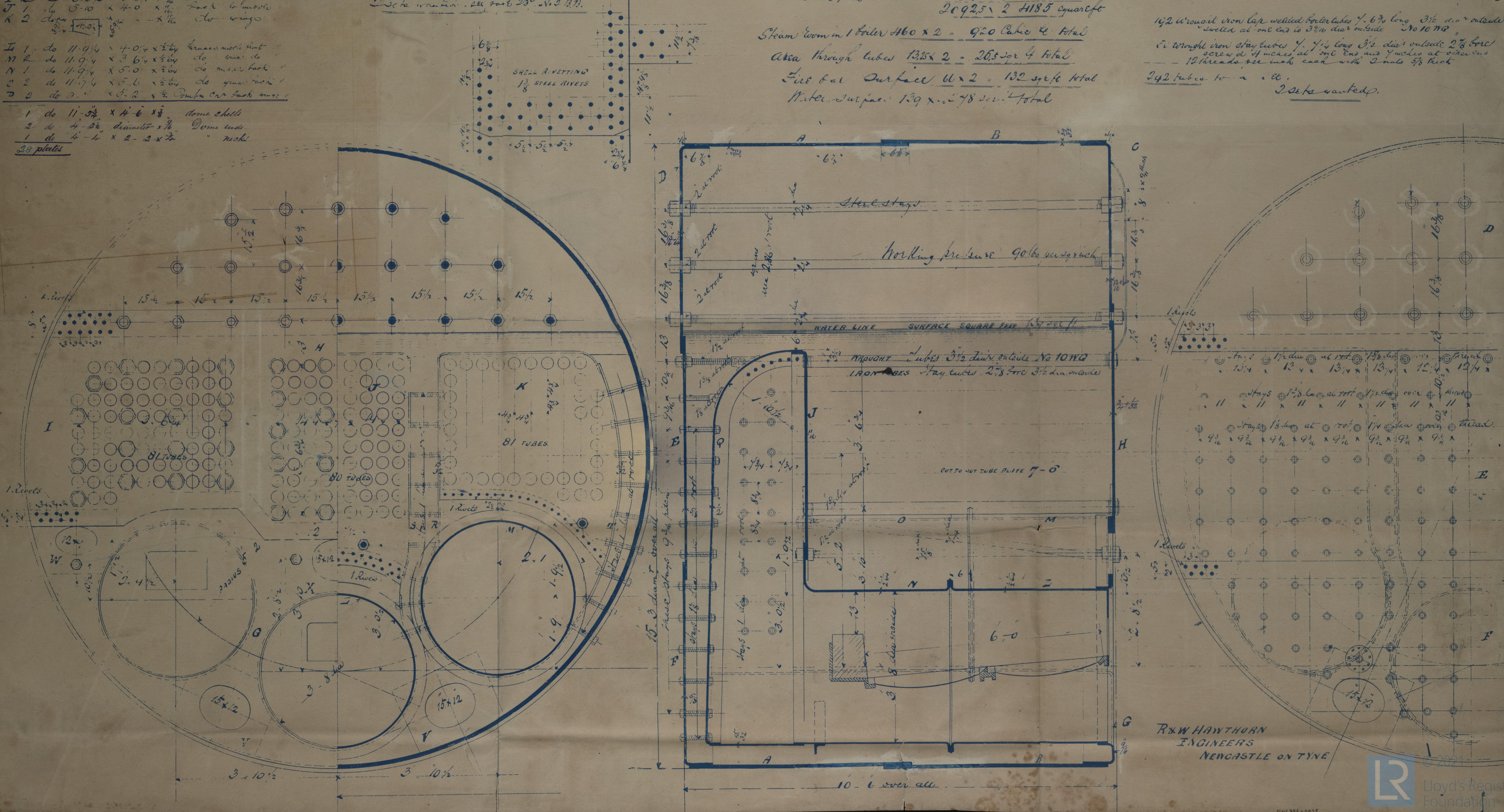
192 wrought iron lap welded boiler tubes 7.6 3/4 long 3 1/2 dia outside
 welded at one end to 3 1/2 dia outside No 10 WG

5 wrought iron stay tubes 7.6 3/4 long 3 1/2 dia outside 2 1/2 bore
 screw d 1/4 inches at one end and 7 inches at other end
 12 threads per inch each with 2 nuts 3/8 thick

242 tubes to be set.

2 sets wanted.

Examined by J. B. 1872
 John P. 1872
 H. Schuler



R. W. HAWTHORN
 ENGINEERS
 NEWCASTLE ON TYNE

Susan & Hunter
71 Beanel

S.S. "bardi gaus hie"
Nwc. Report No 16936



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Lloyd's Register
Foundation

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