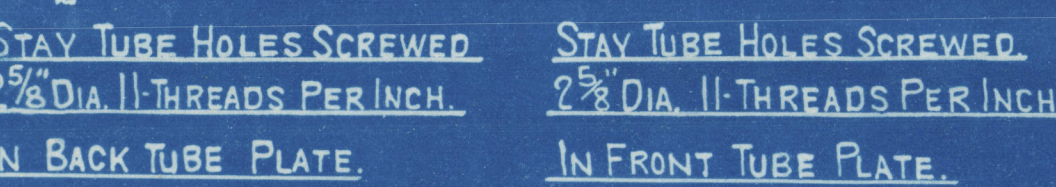
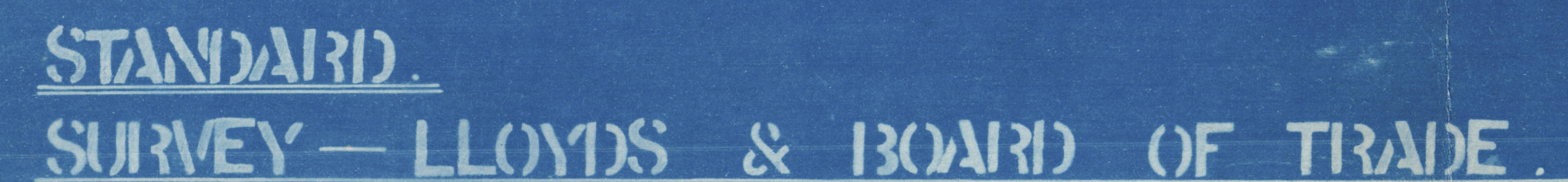
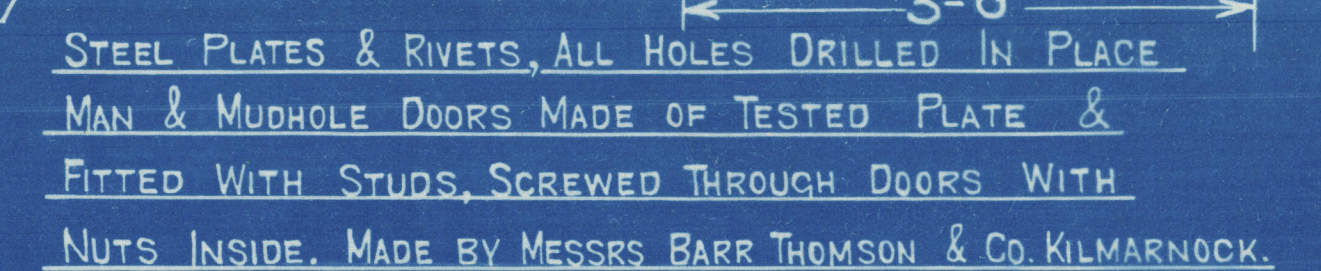
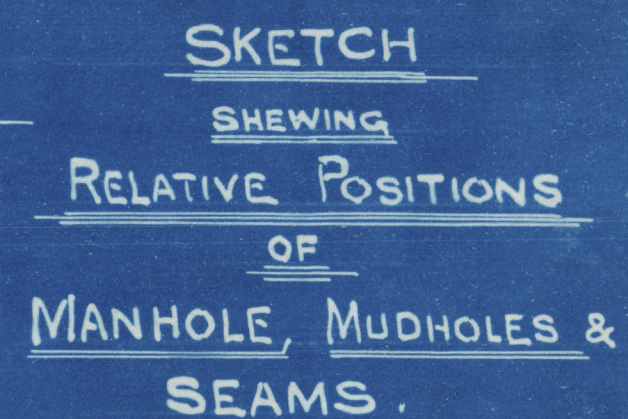


HORIZONTAL FLUE TUBES.



LLOYDS			
PLATE	$255 - 84375$	$\times 100$	$= 67\%$
	755		
RIVETS	5591×85		$= 71\%$
	667×5		
FRONT TUBE PLATE	$4 - 59375$	$\times 100$	$= 35\%$
	7		
BACK TUBE PLATE	$4 - 56525$	$\times 100$	$= 359\%$
	4		
SHELL	20×5	$\times (8-2)$	$= 105 \text{ LBS.}$
	78		
FRONT TUBE PLATE	$20 \times 35 \times 2$	$\times (13-2) \times 26$	$= 1013 \text{ LBS.}$
	$2 \times 36 \times 35 \times 28$		
BACK TUBE PLATE	20×35994	$\times (11.5-2) \times 26$	$= 100 \text{ LBS.}$
	$2 \times 37 \times 35 \times 28$		
FURNACE	1250	$\times (8-2)$	$= 113.6 \text{ LBS.}$
	60		
DEEP RING	$516 \times 13\frac{1}{2}$		$= 100 \text{ LBS.}$
	$78 \times (78 - 66)$		

BOARD OF TRADE			
PLATE	$\frac{7.55}{9.55} \times 100$	=	67.5%
RIVETS	$\frac{73 \times 5591 \times 4.9}{73 \times 9767 \times 5 \times 4.5} \times 100$	=	74.5%
FRONT TUBE PLATE	$\frac{4 \times 7.5375}{4} \times 100$	=	35.2%
BACK TUBE PLATE	$\frac{4 \times 2.5625}{4} \times 100$	=	35.94%
SHELL	$\frac{28 \times 2240 \times 67 \times 8 \times 5}{4 \times 9 \times 7 \times 10} \times 100$	=	110 LBS
FRONT TUBE PLATE	$\frac{76 \times 9240 \times 35.9 \times 8175}{66 \times 4375 \times 4.5 \times 100}$	=	140 LBS
BACK TUBE PLATE	$\frac{76 \times 9240 \times 35.94 \times 7187.5}{2 \times 211 \times 4.5 \times 100}$	=	158 LBS
FURNACE	$\frac{14000 \times 5}{60}$	=	106 LBS
QUEEN RING	$\frac{60000 \times 13.97}{73 \times 6}$	=	106 LBS



For approval

17
PATENT BOILER N^{OS} 6538
6537-8.

$$\underline{6'-6'' \times 16'-7'' \times 500 \text{ } \frac{\text{lb}}{\text{ft}} \times 100 \text{ LBS.}}$$

SCALE 1 INCH TO 1 FOOT.

SIEMENS MARTIN MILD STEEL PLATES.

PLATES NOT EXPOSED TO FLAME OR FLANGED. _____	28 TO 32 TONS.
PLATES EXPOSED TO FLAME OR FLANGED EXCEPT FURNACE CROWN. _____	26 TO 30 TONS.
FURNACE CROWN. _____	26 TO 29 TONS.

COCHRAN & CO ANNAN LTD.

ENGINEERS & BOILERMAKERS

ANNAN, SCOTLAND.

DRAWING N° 10212.

2411
 27/3/14

10212.

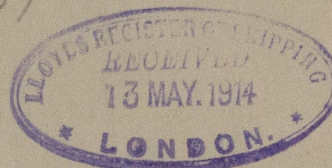
COCHRAN & CO., ANNAN, LD.

Boiler No. 6538

Drawing No. 10212

GLASGOW REPORT No. 33977

duplicate of 6537 ~~duplicate~~ *Approved 30/5/14*



T.S.S. "ABELIA"

NEWCASTLE-ON-TYNE.

Report No 67766



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Foundation

W971-0013