

ALL PLATES STAYS & RIVETS OF
SIEMENS MARTIN STEEL
TUBES OF WROT IRON.

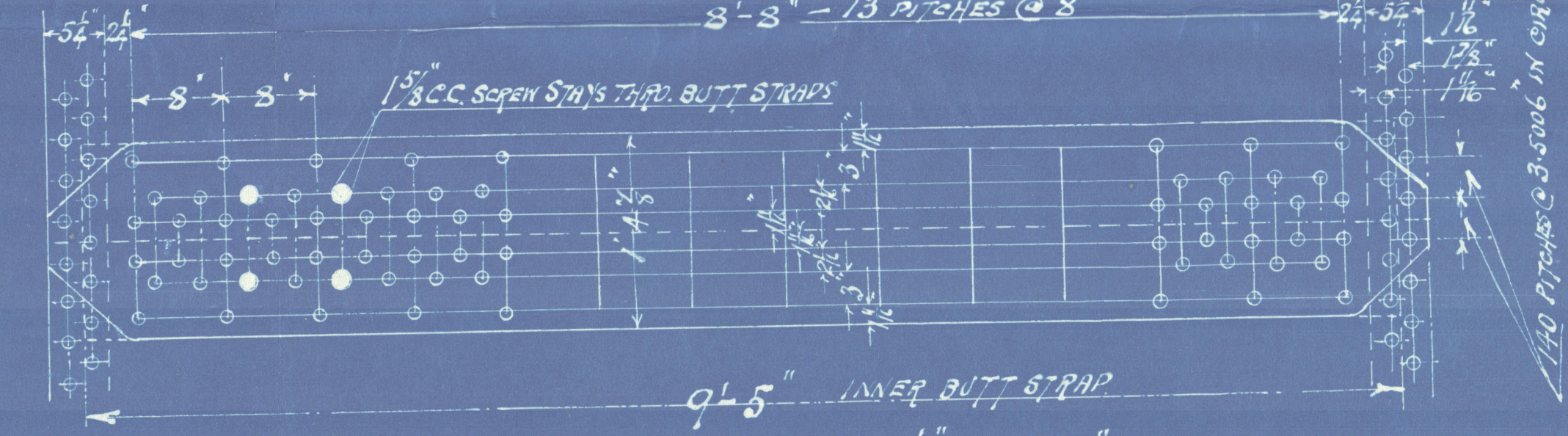
LONG+ SEAMS TREBLE RIVETED WITH
DOUBLE BUTT STRAPS
CIRCUM+ SEAMS DOUBLE RIVETED LAP JOINT
WORKING PRESSURE = 180 LBS/IN²
TEST --- 360 ---

ALL HOLES DRILLED IN PLACE THEN
PLATES TAKEN APART & BURRS
REMOVED
HYDRAULIC RIVETING WHERE PRACTICABLE

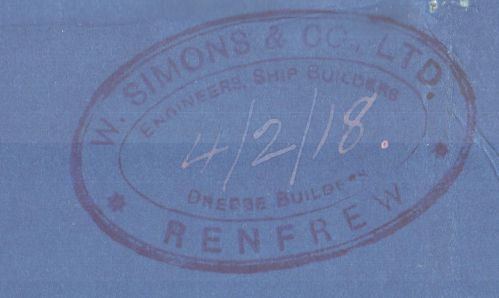
THICKNESSES	
SHELL PLATES	1 1/16"
INNER BUTT STRAPS	1"
OUTER ---	1 1/4"
TOP END PLATES	1 1/4"
BACK END BOT.	1 3/16"
FRONT TUBE PLATE	1"
BACK ---	3/4"
C.C. BACKS	5/8"
C.C. TOP + SIDES	5/8"
C.C. BOTTOM	4/16"
C.C. GIRDERS	4/16"
FURNACES	1/2"
MANHOLE COMP. RING	1 1/16"

TENSILE STRENGTHS	
SHELL PLATES 28-32 TONS"	
BUTT STRAPS ---	
MANHOLE COMP. RING ---	
C.C. GIRDERS ---	
SOLID STEEL STAYS ---	
ALL OTHER PLATES 26-30 TONS"	
FURNACES ---	
RIVET BARS ---	
SCREENED STAYS ---	

HEATING & GRATE SURFACE	
H. SURFACE IN 186 TUBES = 1120.4	
" C. CHAMBERS = 199	
" FURNACES = 124	
TOTAL HEATING SURFACE = 1443.4	
HEATING SURFACE IN 2 BOILERS = 2886.8	
FIREBARS 5'-3" LONG IN TWO LENGTHS	
GRATE AREA PER BOILER = 43.56	
" 2 BOILERS = 87.12	
RATIO - G.S. : H.S. = 1 : 24.71	
2 - 2 1/2" DIA. SAFETY VALVES PER BOILER	



LONGITUDINAL SEAM - 1 1/16" RIVETS 1 3/8" HOLES - 8" PITCH
CIRCUM+ --- 1 1/16" --- 1 3/8" --- 3.5006
SHELL PLATES 1 1/16" THICK OUTER BUTT STRAP 1" INNER BUTT STRAP 1 1/16" THICK
PLATE - 85.93% LONG+ SEAM RIVET 86.48%
WORKING PRESSURE BY RULES = 181.8 LBS



BOILERS. N° 626.

4-OFF.
SCALE 1" = 1 FT.

TO LLOYDS REQUIREMENTS FOR 180 LBS/IN² H.P.

13'-0" MEAN DIA. X 10'-6" MEAN LENGTH.

WM SIMONS & CO LTD
LONDON WORKS
RENFREW.

Wm. Simons & Co Ltd No 626.

4 SE Main Boilers

W P 180 lbs^{sq}

For North British Diesel Eng Co 17-18.

Copy of plan approved 31.1.18

for Ross & Duncan.

C 5 Class. Standard Coaster

A.C. 5.2.18.

REGISTERED

GLASGOW REPORT No. 38646

75 Lombard St



RETAIN



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Lloyd's Register
Foundation

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