

Ref 5: 4: 91

No. 227 SS & Can Ross Brw Rpt No 607

Brw 3/4/94
J.B.

STAY TUBES 28 Stay Tubes 3" ext. dia x 6' 5 1/2" long x 5/16" thk. Iron
One end screwed 3 1/4" dia (in F.T.P.) 2 1/2" up and the other end screwed 3" dia (in B.T.P.) 2 1/2" up, 9 threads per inch in one continuous line & fitted with a nut 3 1/4" on outside of F.T.P. Effective area = 1.980"

Makers of Material.

Plates made by Stockton Malleable Iron Co.
Stay Bars " W. Beardmore & Co. Glasgow.
Tubes made by J. & L. Stewart & Clydesdale Ld. Glasgow.
Rivets made by W. Beardmore & Co. Glasgow.

LIST OF PLATES.

Mark	No	Length	Breadth	Thk	Purpose.
A	2	15' 6 1/2"	8' 5 3/8"	5/8"	Shell
B	2	5' 3" Rad	13/16"		Top ends front & back
C	1	5' 3 3/4" rad	3/4"		Bottom end front
D	1	5' 3 3/8" rad	1/16"		Bottom end back
E	2	7' 9 1/2"	6' 1' 3"	5/16"	Furnace tops.
F	2	7' 0"	3' 1"	5/16"	" Bottoms.
G	8	6' 5"	5 3/8"	5/8"	" Butt straps
H	2	4' 6"	4' 4' 1/4"	1/16"	Back tube plates.
I	2	6' 2 1/2"	4' 5 1/2"	1/2"	Com. Chamber backs
J	2	12' 8 1/2"	1' 11 1/2"	1/2"	" " sides & top.
K	2	4' 6"	1' 11 1/2"	3/16"	" " bottom.
L	1	2' 8 1/4"	2' 4 1/2"	5/8"	Manhole in shell
M	1	2' 4"	1' 7"	3/4"	" Front bottom
N	1	13' 8"	2' 4"	1/2"	Com. chamber girders

All plates & stays to be of Siemens mild steel, to be tested in the presence & to the satisfaction of the Board of Trade & Lloyd's surveyors.
Shell plates to be not less than 28 tons tensile

LIST OF STAY BARS.

10 Bars	9' 4 1/2" long by 2" dia
2 "	9' 6 3/4" " " 1 1/2" "
2 "	6' 9 1/2" " " 1 1/4" "
20 ft	of stay bars 1 3/8" dia
130 "	" " " " 1 1/4" "

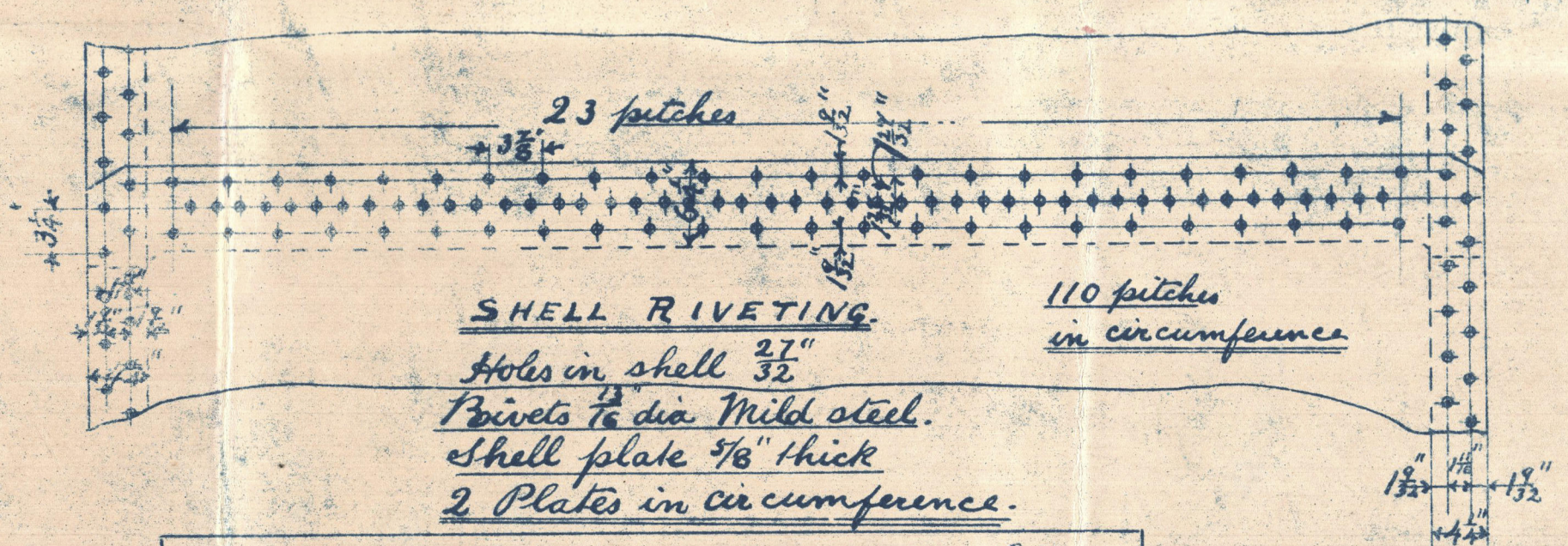
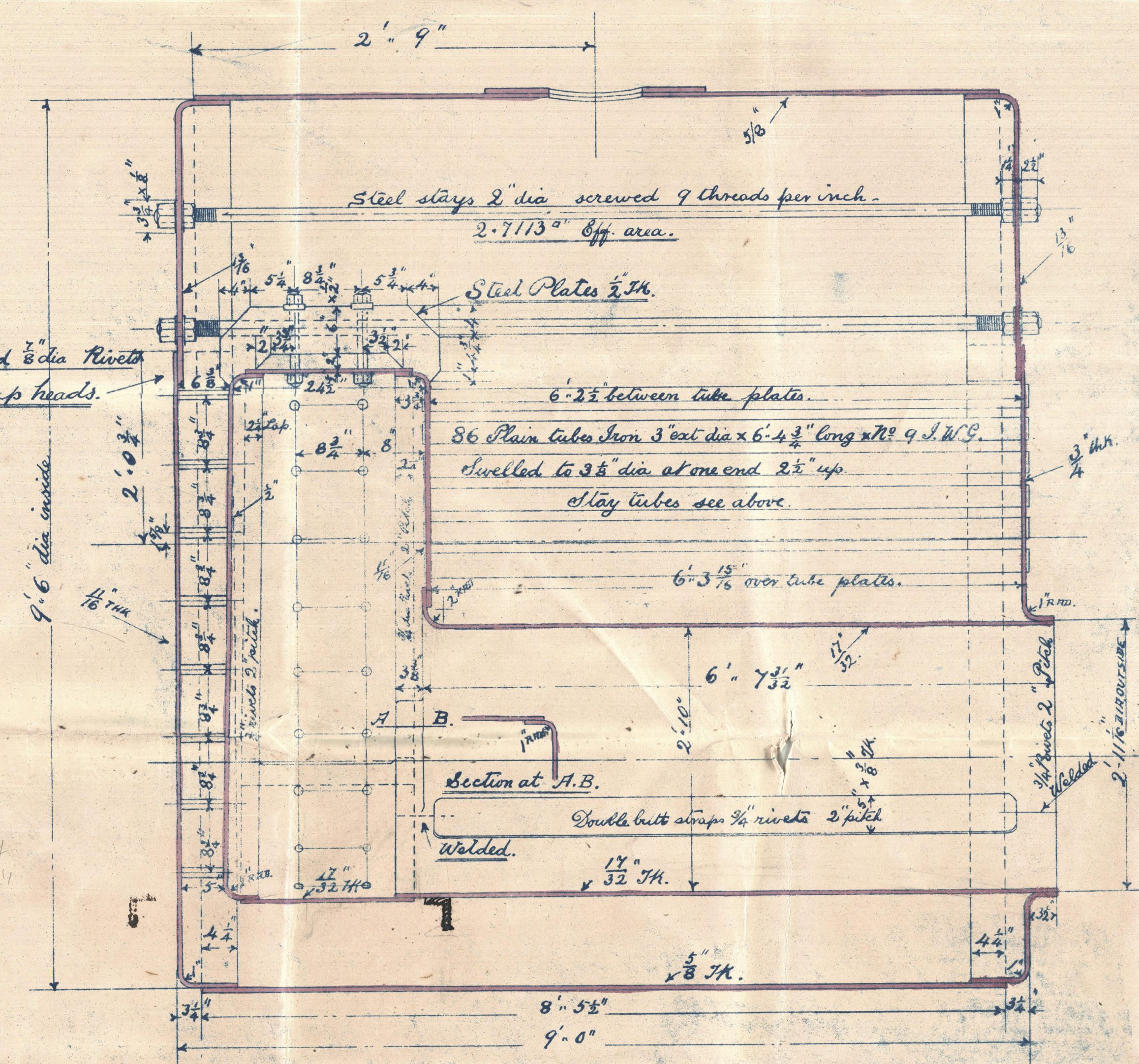
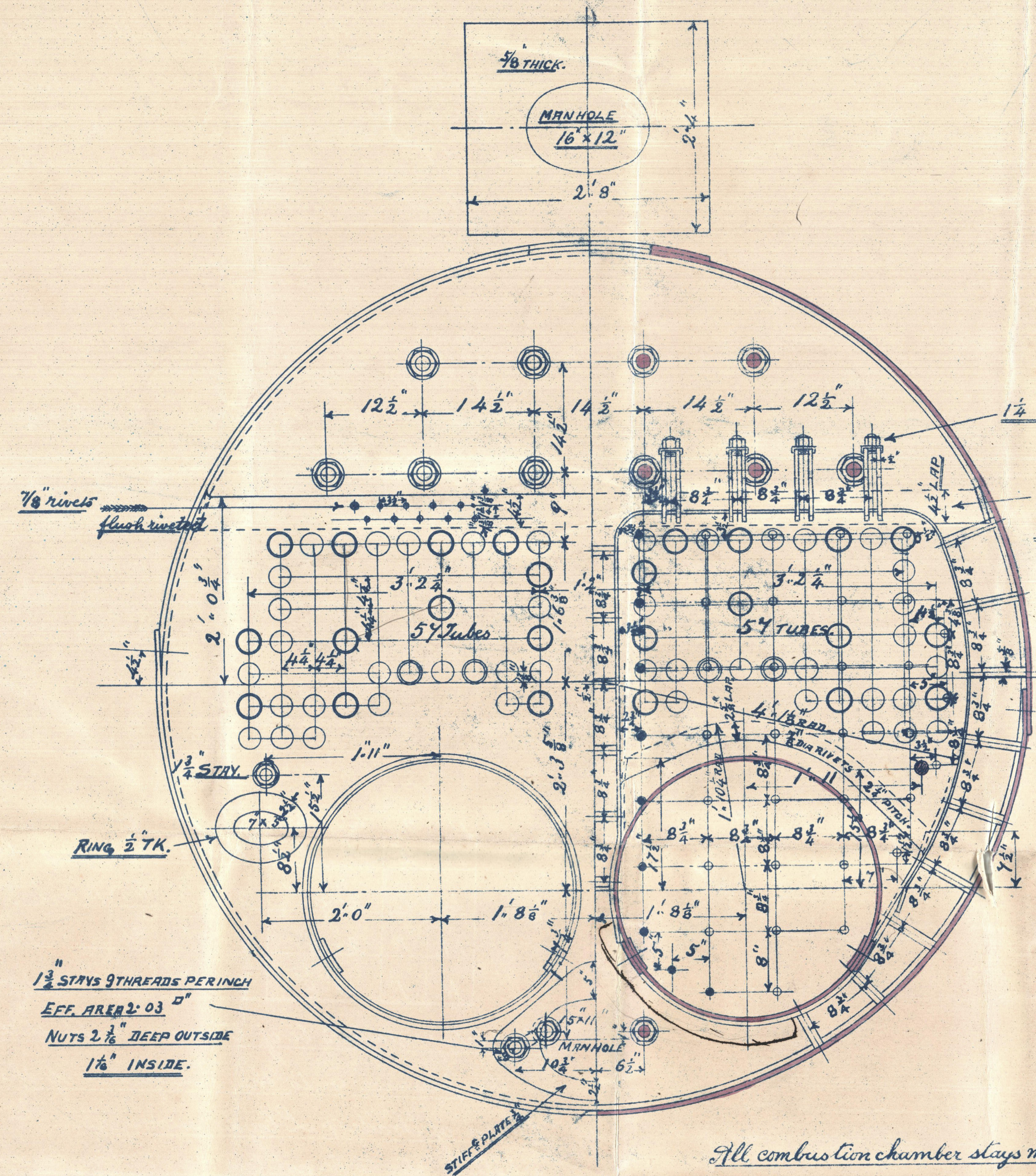
ONE SET OFF PLATES & BARS FOR EACH NO.

DONKEY BOILER.

SCALE 1" = 1 FOOT



NO 227-8-8-9
Found 2003-0074



B of T. Lloyd			
Longitud seams	Plate	78.2%	78.2%
	Rivets	85.8%	78.5%
Circumf seams	Plate	74%	74%
	Rivets	51.3%	46.8

TO BOARD OF TRADE & LLOYDS REQUIREMENTS-

ONE OFF FOR EACH NO.

HEATING SURFACE.

114 tubes 3" ext dia	555.86 #
2 furnaces	75.75
2 combustion chambers	98.58
Total heating surface	730.19 #
Bar surface 2' 10" x 5' 6" Bars	31.16 #
Area thro tubes	4.3 #
Funnel area 2' 5" dia	4.59 #
Ratio bar to heating surface	1: 23.4.
Ratio tube area to bar surface	1: 7.23.

All combustion chamber stays marked +
are 1 1/2" dia 1' 2 1/4" off area. 11 threads per inch
All others are 1 1/4" dia 1' 0 1/4" off area 11 threads per inch
All cc. stays to be screwed thro both plates
with a nut on each end.

WORKING PRESSURE 100 LBS PER SQ IN

TO BE TESTED TO 200 LBS PER SQ INCH -

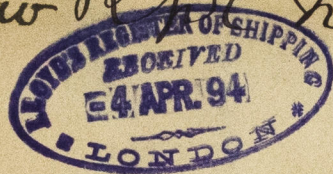
METHOD OF CONSTRUCTION -

All holes drilled in place.
Longitud seams lap jointed triple riveted.
Circumf " " " double riveted.
Board of Trade working factor 5.1.
Furnaces double butt straps single riveted

DRAWING NO 4112

J.M.
4/4/94

A & A Co
Nos 227-8-9
Wontley Boilers
SS Clan Ross
Brw R 48 No 607



BRW 43-0074

Shanghai



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Lloyd's Register
Foundation