

7/1/20

SURFACES

TUBES	1317.0#
FIREBOX TOPS & SIDES	88.6"
" BACKS	62.0"
" TUBELATES	113.2"
FURNACES	98.1"
TOTAL HEATING SURFACE	1608.9"
GRATE AREA (BARS 6'-0")	145.0#
TUBE	9.3"
WATER	110.0"
STEAM SPACE	285.0#
GRATE AREA HEATING SURFACE	1.36.0
" " TUBE	1.2.9
" " AREA	4.85.1
" " WATER	1.2.145
" " STEAM SPACE	1.5.2
WEIGHT OF WATER	16.2 TONS

RIVETING

RIVET HOLE DIA	1 1/8"	END CIRCUM
PITCH	8"	4 1/2"
% PLATE	89.5	52.5
% RIVET	85.9	69.2

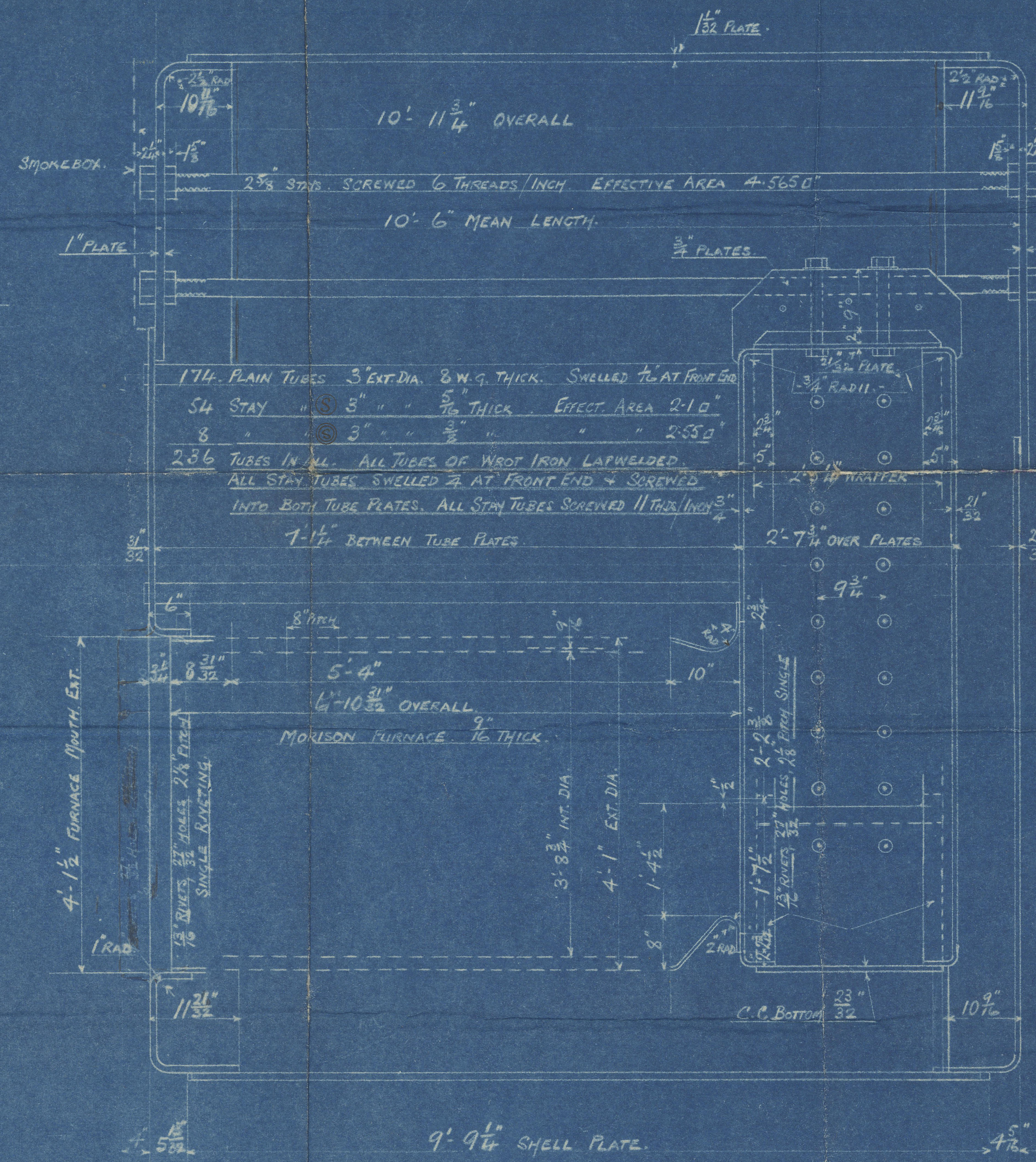
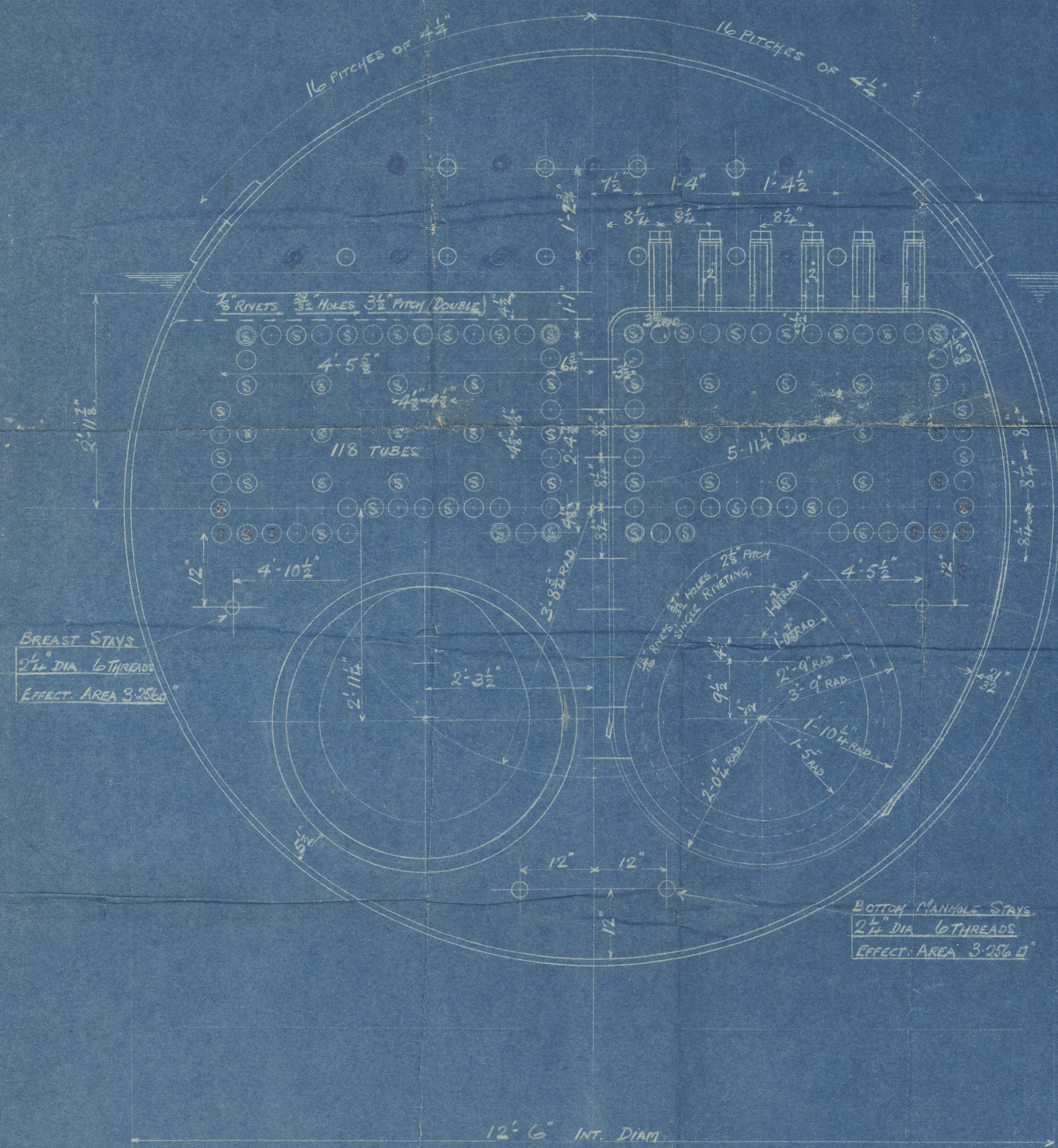
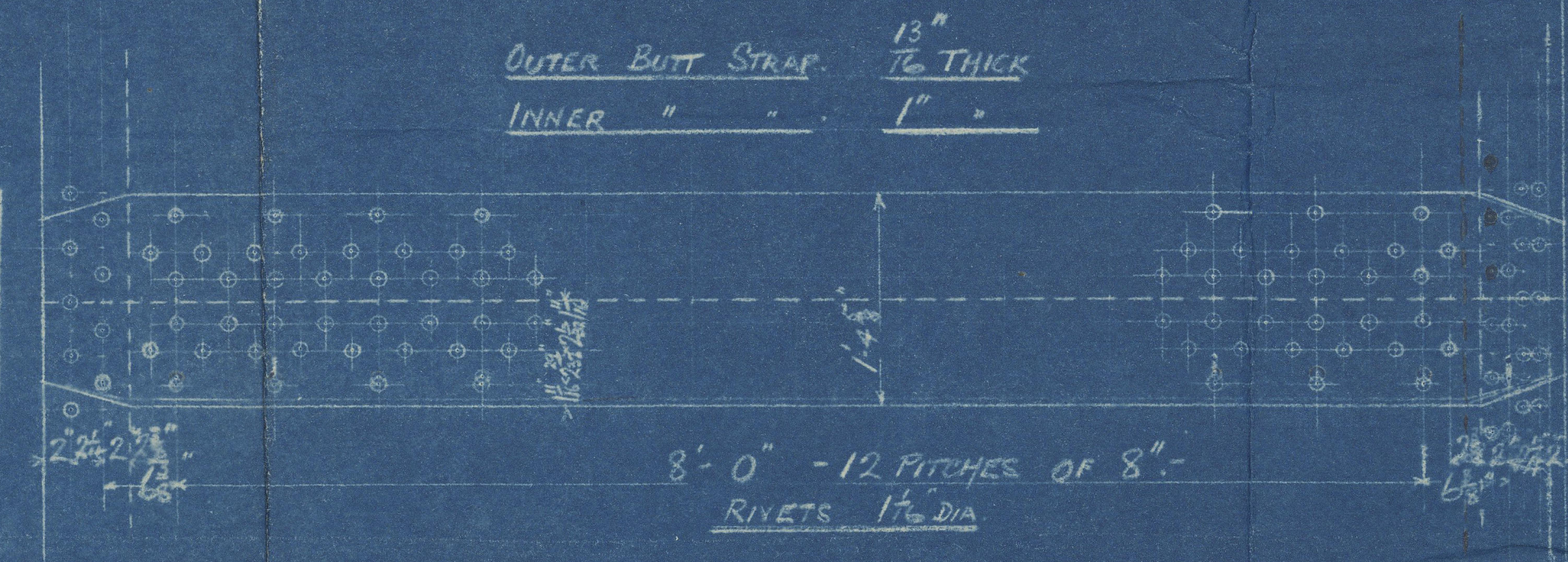
ALL RIVET HOLES DRILLED IN PLACE

LIMITS OF TENSILE STRENGTH

SHELL & BUTT STRAPS	28 TO 32 TONS
END PLATES C.C. PLATES & C.C. STAYS	26 + 30 "
GIRDERS & LONGIT. STAYS	28 + 32 "
FURNACES	26 + 30 "
RIVETS	26 + 30 "

OUTER BUTT STRAP 1 1/8" THICK
INNER " " 1" "

112 PITCHES 4 1/2"
RIVETS 1 1/8"



POSITION	MARK	DIA	EFFECT AREA
MARGINAL ROWS	⊙	1 3/4"	2.066 sq
BACK NESTS	⊙	1 5/8"	1.76 sq
SIDES & TOPS	⊙	1 3/4"	2.066 sq
TOP CORNER BACK	⊗	2"	2.752 sq

ALL FIREBOX STAYS SCREWED THRU BOTH PLATES & NUTTED ON BOTH ENDS. NUTS FOR 2" STAYS TO BE 1 1/2" DEEP. NUTS FOR 1 3/4" & 1 1/2" STAYS TO BE 1" DEEP EXCEPT GIRDER OUTSIDE NUTS WHICH ARE TO BE 1 1/2" DEEP.

MAIN BOILER NOS 1099-1100-1-2

12'-6" INT. DIA X 10'-6" MEAN LENGTH.

4-OFF LLOYDS SURVEY

W.P. 180 LBS / sq IN TEST PRESS. 360 LBS / sq

SCALE: 1" = 1 FOOT

BOW, McLAUGHLIN & CO. LTD.
ENGINEERS, SHIPBUILDERS, & IRONFOUNDERS.
THISTLE WORKS.
PAISLEY.
Drawing No. 4981/14 Date 30/12/14



Bow McLachlan

1099. 1100. 1101 & 1102.

app 4/1/20.

S/s Maria Kyriakides.

N.N. New Star
GLASGOW REPORT No.

4/131

Wreck Section

347

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