

# — STEEL PLATES —

A	1	PLATE	36'-0 1/2" x 9'-6 1/2" x 1/4"	SHELL TOP
B	2		1 1/2" x 5'-1 1/2" x 1/4"	BUTT STRAPS
C	2		1 1/2" x 5'-1 1/2" x 1/4"	FRONT END TOP & BACK
D	2		13'-1 1/2" x 16'-1 1/2" x 1/4"	FRONT T.P. & LOWER BACK PLATE
E	2		5'-1 1/2" x 16'-1 1/2" x 1/4"	BACK T.P.
F	2		7'-5 1/2" x 5'-7" x 1/4"	COMBUSTION CHAMBER BACK
G	2		14'-0" x 2'-5" x 1/4"	SIDES
H	2		10'-9" x 9'-5 1/2" x 1/4"	FURNACES
J	4		6 3/8" x 4'-3 1/2" x 1/4"	BUTT STRAPS
K	1		5'-6" x 1'-2" x 1/4"	WASHERS
M	1		2'-6 1/2" x 2'-2 1/2" x 1/4"	MANHOLE RING

13-9-07

## HEATING SURFACE - 1 BOILER

TUBES	3 1/2" x 150 x 6'-9"	926 SQ. FT.
FURNACES	(3 CIRCUMFERENCE)	93
COMBUSTION CHAMBER		118
BACK TUBE PLATES		26
FRONT		22
TOTAL	1 BOILER	1185 SQ. FEET

WORKING PRESSURE - - - 125 LBS

TEST - - - 250

LLOYD'S SURVEY

## — BOILER - 1 OFF —

— SCALE 1" = 1 FOOT —

ALL STEEL EXCEPT WHERE OTHERWISE MARKED

## SHELL RIVETING

### DOUBLE BUTT STRAP JOINT

SHELL PLATE 1/4" THICK - BUTT STRAPS 5/16" THICK

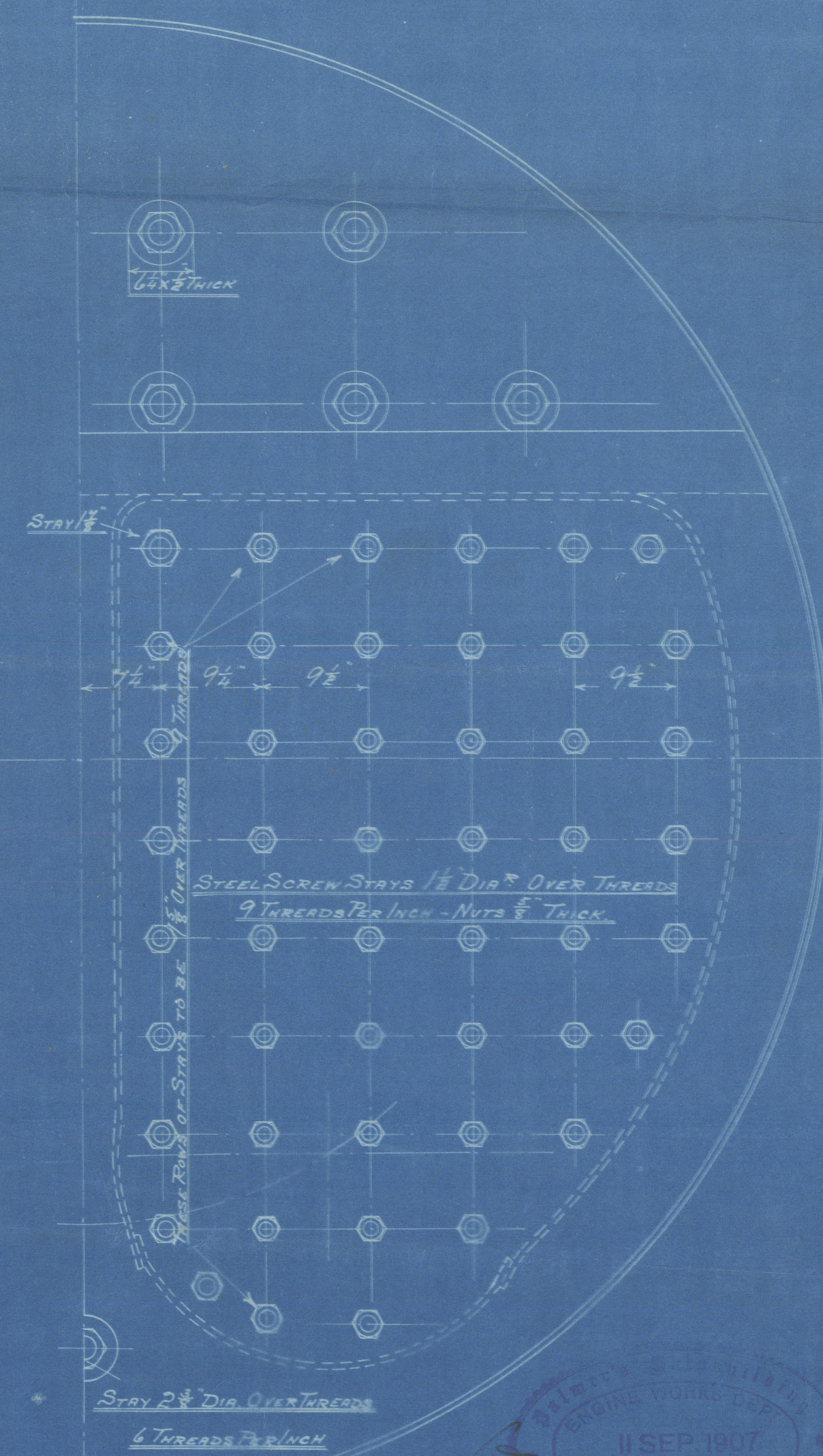
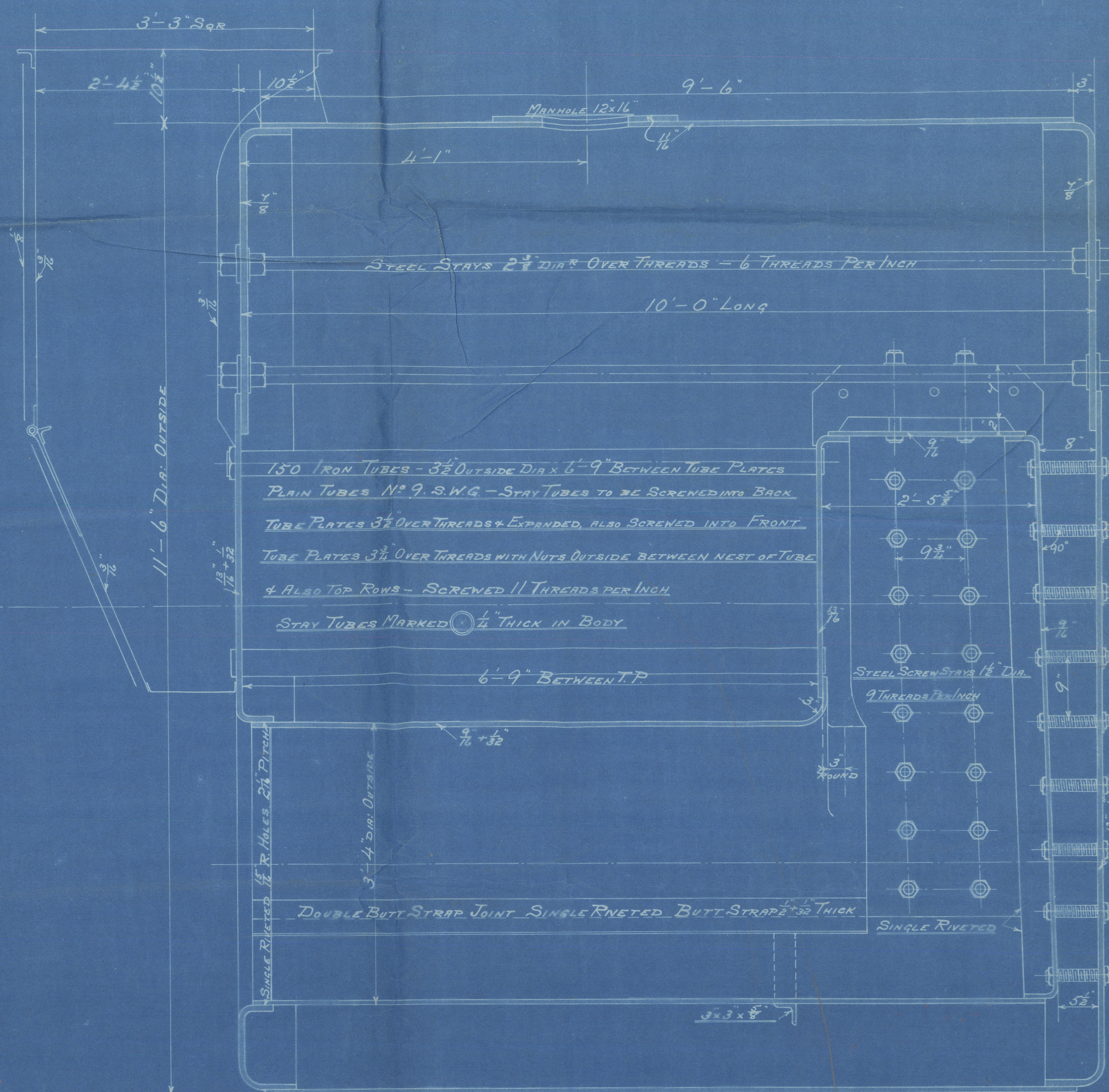
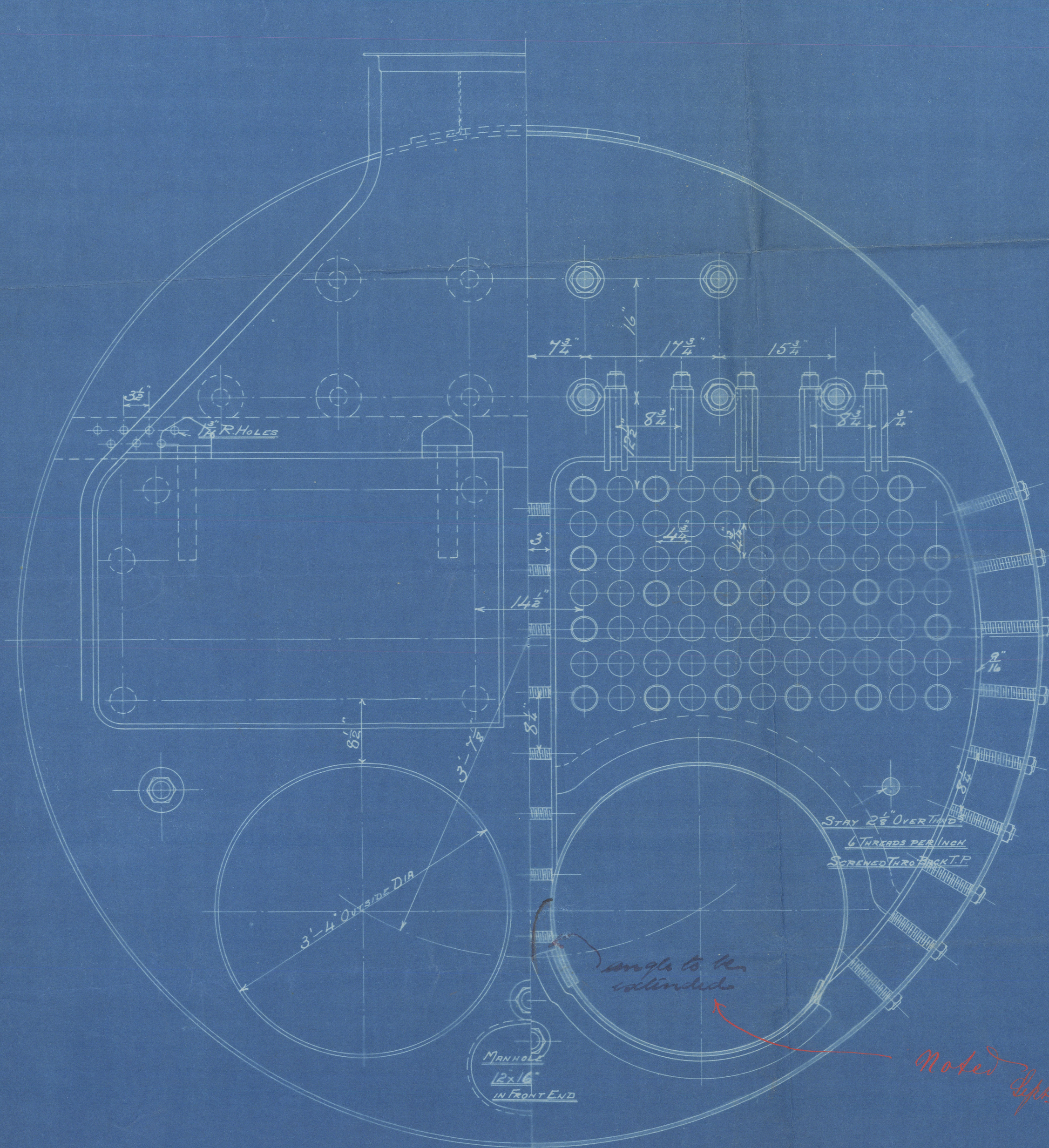
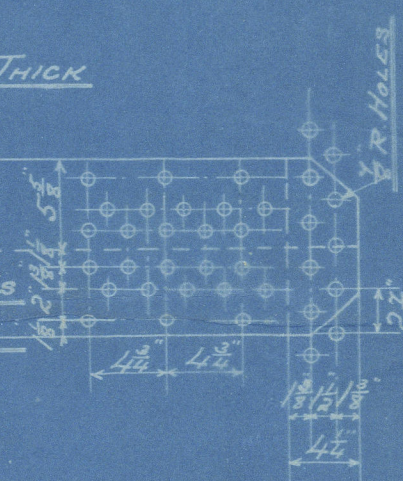
RIVET HOLES 1 1/2" DIA - GREATEST PITCH 4 1/2"

% OF STRENGTH OF PLATE AT JOINT - 85.0

RIVETS - (109 x 1 1/2) - 92.5

TENSILE STRENGTH OF SHELL PLATES - 29 TONS

CONSTANT USED FOR - 22.8



JO13 N°114.4

— BOILER FOR MESSRS J. P. RENNOLDSON & SONS. —

— SCALE 1" = 1 FOOT —

13-9-07

13-9-07



NO. 155

W1575-2027



Palmer's Co Job No 1144  
Main Boiler for  
J. P. Renoldson & Sons.

Eng No 681.

J. P. "Salvage"

Newcastle Report

No 54.210



**RETAIN**

W1575-0027



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