

HEATING SURFACE

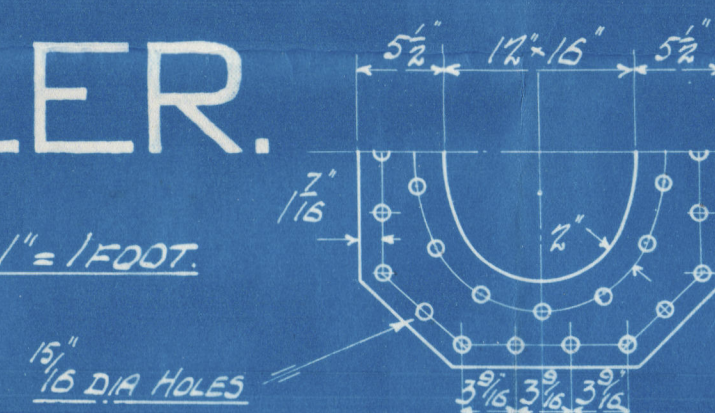
<u>TUBES</u>	=	<u>429</u>	<u>sq. FEET.</u>
<u>FURNACES.</u>	=	<u>84</u>	<u>" "</u>
<u>C. CHAMBERS</u>	=	<u>94</u>	<u>" "</u>
<u>TUBE PLATES</u>	=	<u>38</u>	<u>" "</u>
<u>TOTAL</u>	=	<u>945</u>	<u>" "</u>

LENGTH OF FIREBARS = 5'-0"
TOTAL GRATE AREA = 30.4 SQ. FEET

MARINE BOILER.

MATERIALS.
PLATES - STEEL.
RIVETS - "
STAYS - "
TUBES - IRON.

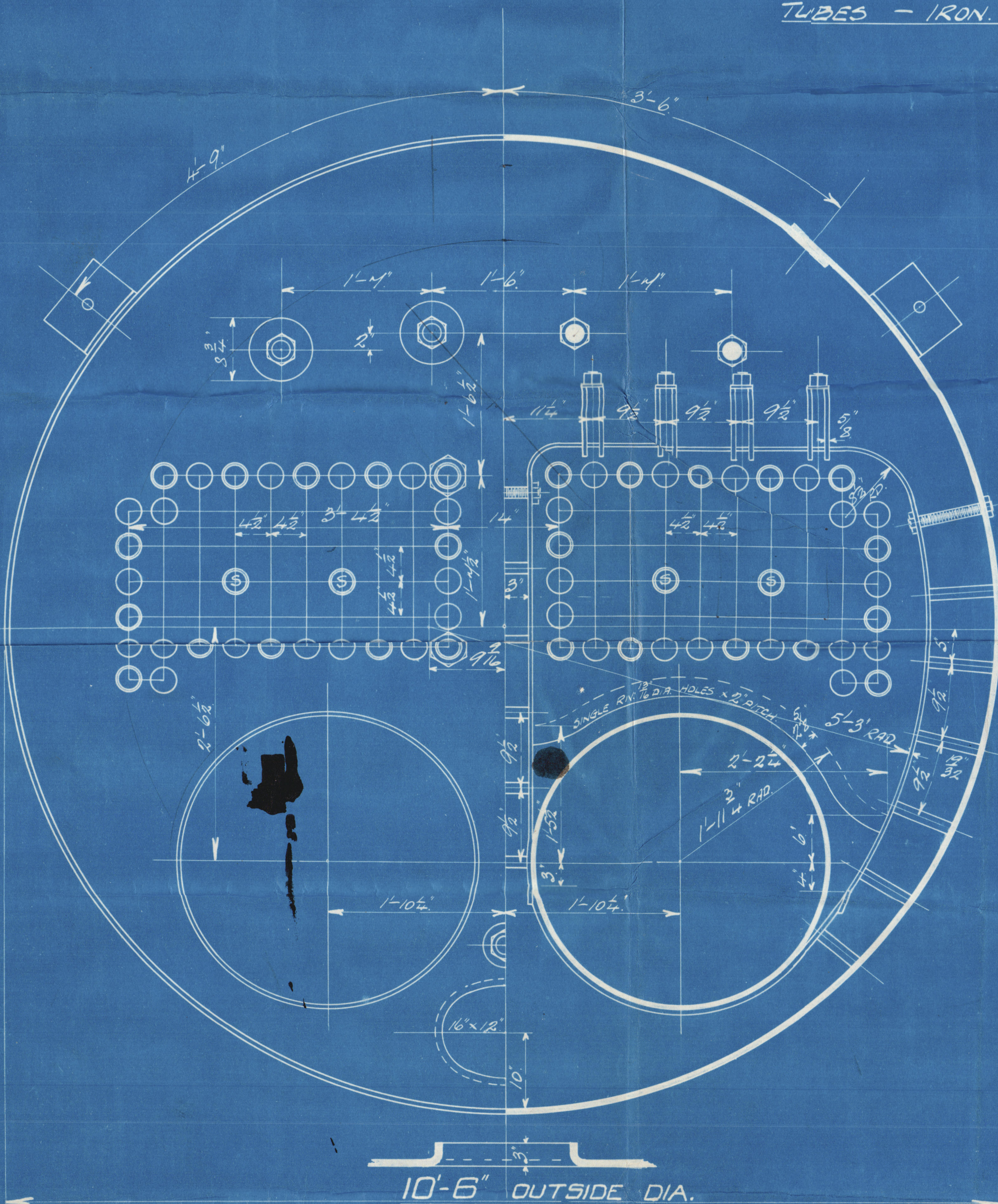
SCALE 1" = 1 FOOT.



DETAIL OF SHELL MANHOLE COMPENSATION
PLATE $\frac{3}{16}$ " THICK.

<u>LIMITS OF TENSILE STRENGTH.</u>	
<u>SHELL PLATE</u>	29 to 33 TONS.
<u>COMPENSATION PLATE</u>	" - " "
<u>GIRDER PLATES</u>	28 - 32 "
<u>ALL OTHER PLATES</u>	26 - 30 "
<u>MAIN STAYS</u>	28 - 32 "
<u>SCREW STAYS</u>	26 - 30 "

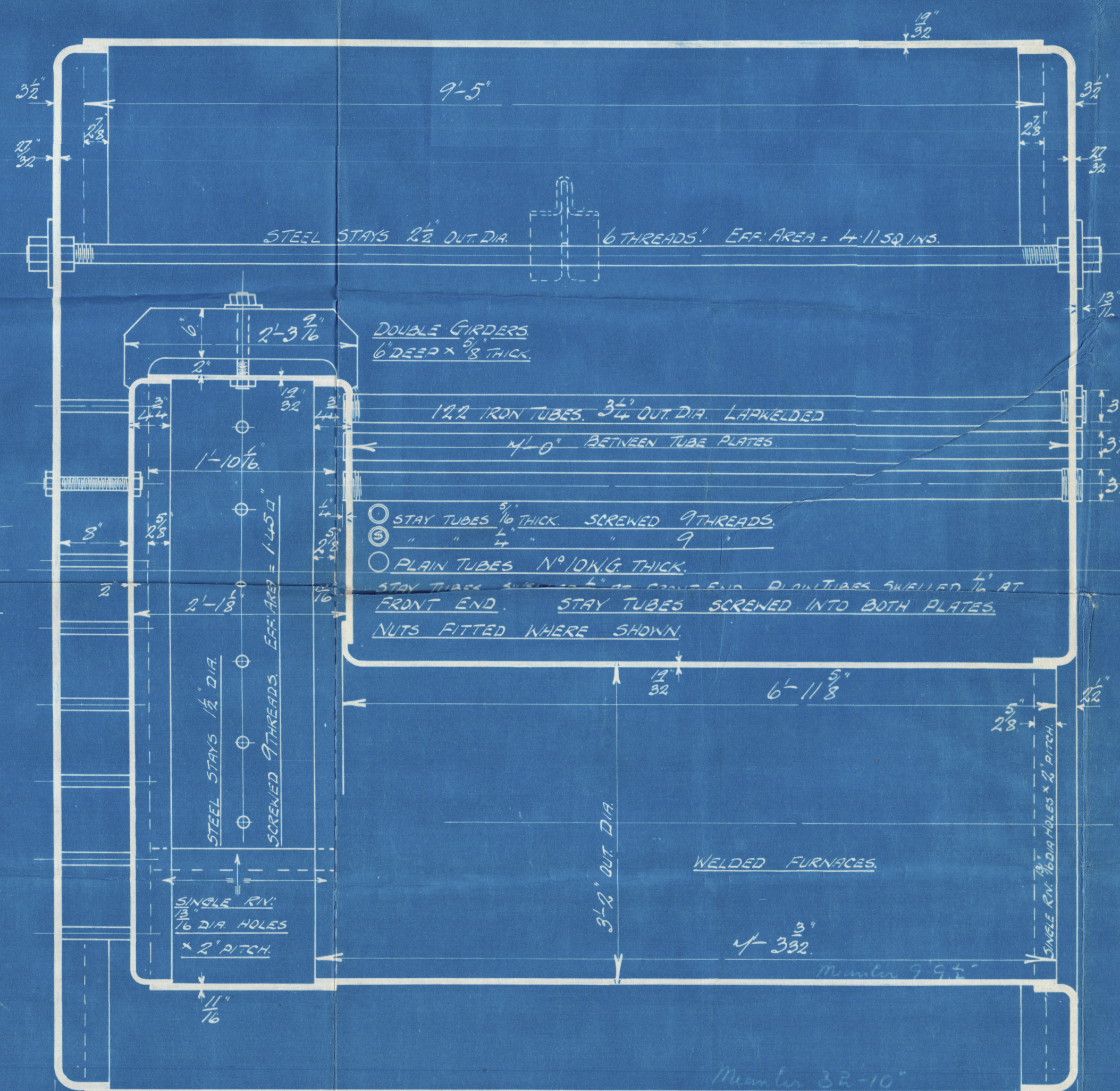
PLATES BY JOHN SPENCER AND SONS LTD.



WORKING PRESSURE 100 LBS PER SQ. INCH.

TEST " 200 " " " "

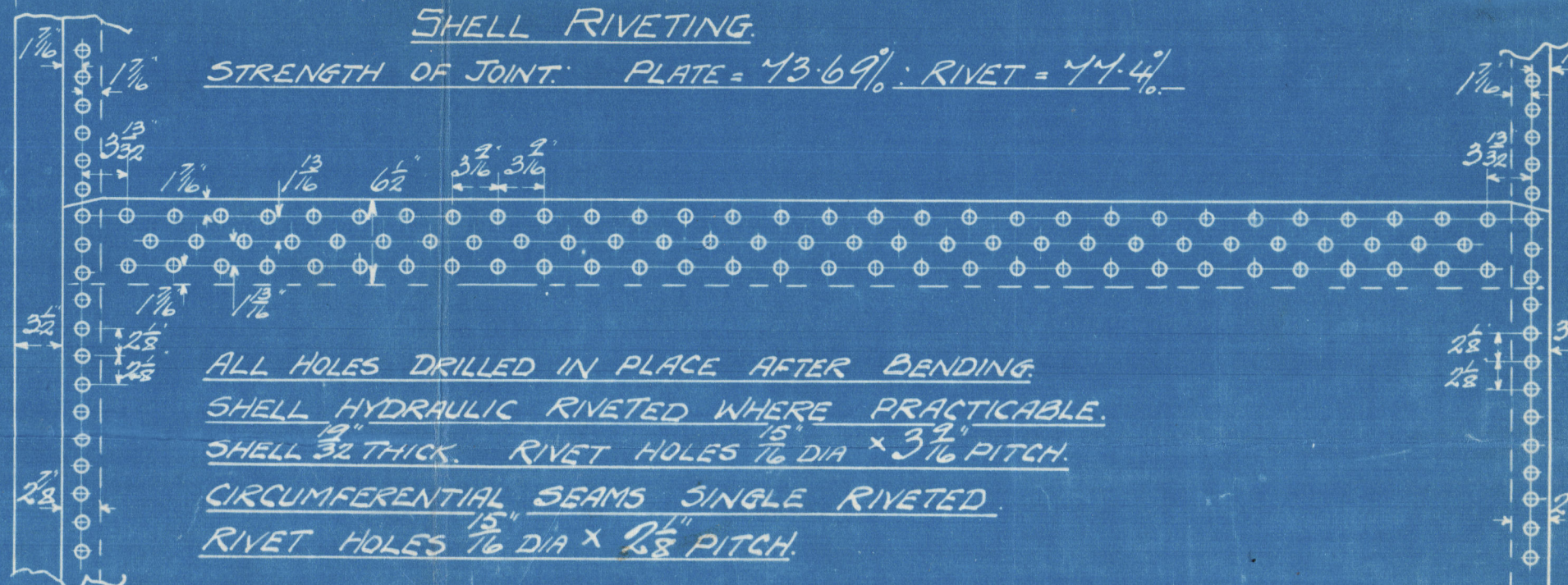
TO BE CONSTRUCTED TO PASS LLOYDS SURVEY.



10'-0" OUTSIDE LENGTH.

SHELL RIVETING

STRENGTH OF JOINT: PLATE = 43.69% : RIVET = 44.4%



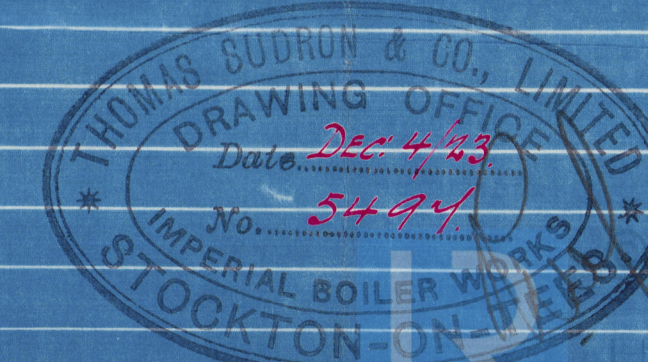
ALL HOLES DRILLED IN PLACE AFTER BENDING
SHELL HYDRAULIC RIVETED WHERE PRACTICABLE.
SHELL $\frac{3}{8}$ " THICK. RIVET HOLES $\frac{1}{8}$ " DIA \times $3\frac{1}{2}$ " PITCH.
CIRCUMFERENTIAL SEAMS SINGLE RIVETED.
RIVET HOLES $\frac{1}{8}$ " DIA \times $2\frac{1}{8}$ " PITCH.

C 91 ~~41~~
11-12-23.

STEEL STAY $2\frac{1}{2}$ " OUT. DIA. =
6 THREADS EFF. AREA = 4.11 IN²
WASHER $8\frac{3}{4}$ " DIA \times $\frac{13}{16}$ " THICK.

● STEEL 3TAYS $\frac{3}{4}$ " DIA. SCREWED 9 THREADS EFF. AREA = 2.09 \square "
 ⊗ " " $\frac{1}{2}$ " " " 9 " " " = 1.45 \square "
 ○ " " $\frac{3}{8}$ " " " 9 " " " = 1.19 \square "
 ○ " " $\frac{1}{4}$ " " " 9 " " " = .96 \square "

ORDER NO	FOR
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THOS: SUDRON & C^oL^d. STOCKTON-ON-TEES.

WS96-0058

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In (Cassrough) Report
No. 11841

S.S. "KENTON."

NEWCASTLE ON TYNE

Report No. 80909.

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