

ALL PLATES, LONGITUDINAL STAYS & RIVETS OF SIEMENS
MARTIN MILD STEEL.
ALL SCREW STAYS OF TESTED IRON.
ALL RIVET HOLES TO BE DRILLED AFTER PLATES ARE BENT
AND FITTED TOGETHER, THEN PLATES TAKEN APART & BURRS
REMOVED. RIVETING TO BE DONE BY HYDRAULIC PRESSURE WHERE
PRACTICABLE.

STRENGTH OF MATERIALS	
PART	TENSILE STRENGTH
SHELL PLATES	28 TO 32 TONS STEEL
BUTT STRAPS	28 TO 32 "
MANHOLE COMPENSATING	28 TO 32 "
FURNACES	26 TO 30 "
GIRDERS	28 TO 32 "
BOILER END PLATES	26 TO 30 "
COMB. CHAMBER PLATES	26 TO 30 "
LONGITUDINAL STAYS	28 TO 32 "
SCREW STAYS	NOT LESS THAN 2 1/2 TONS IRON

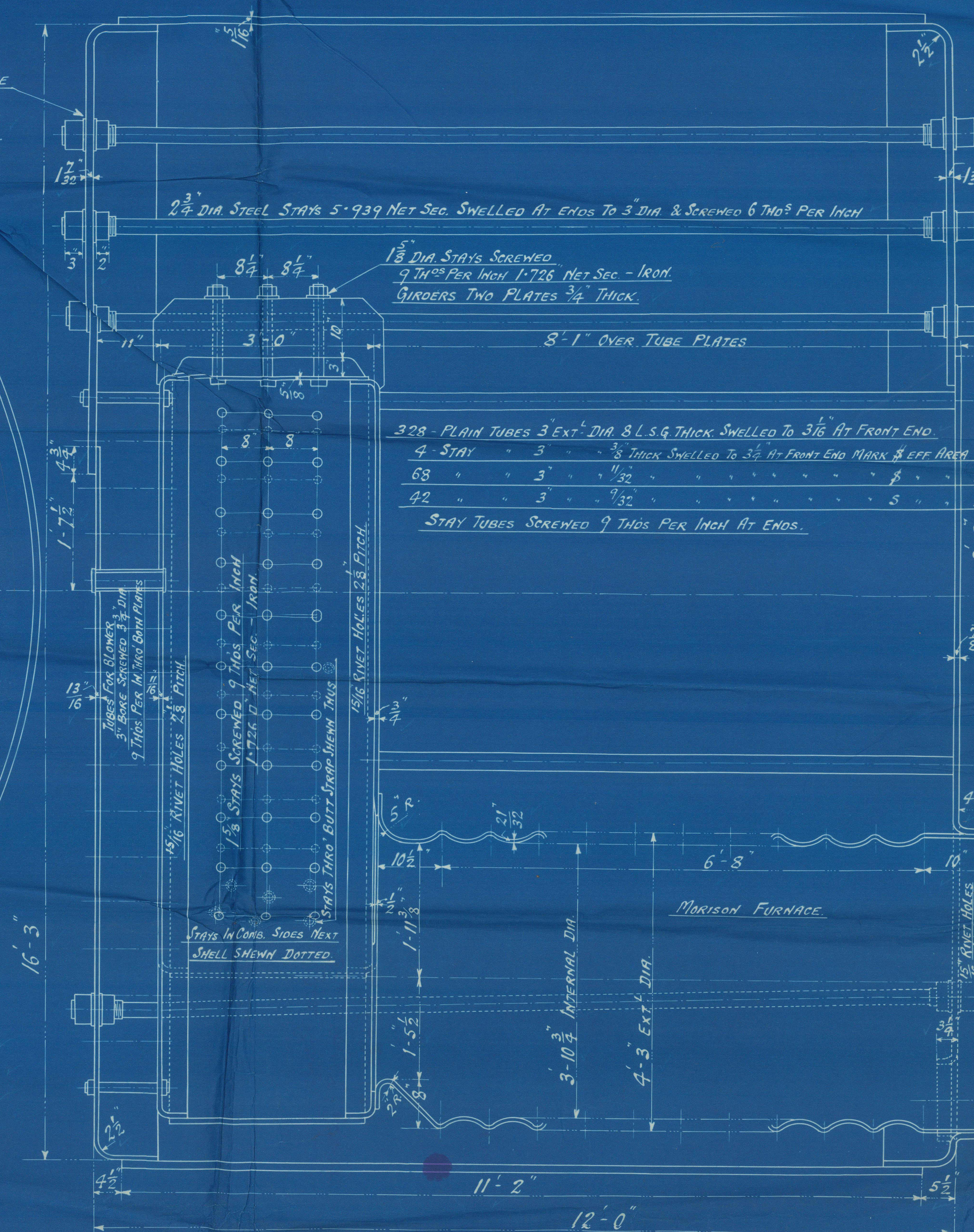
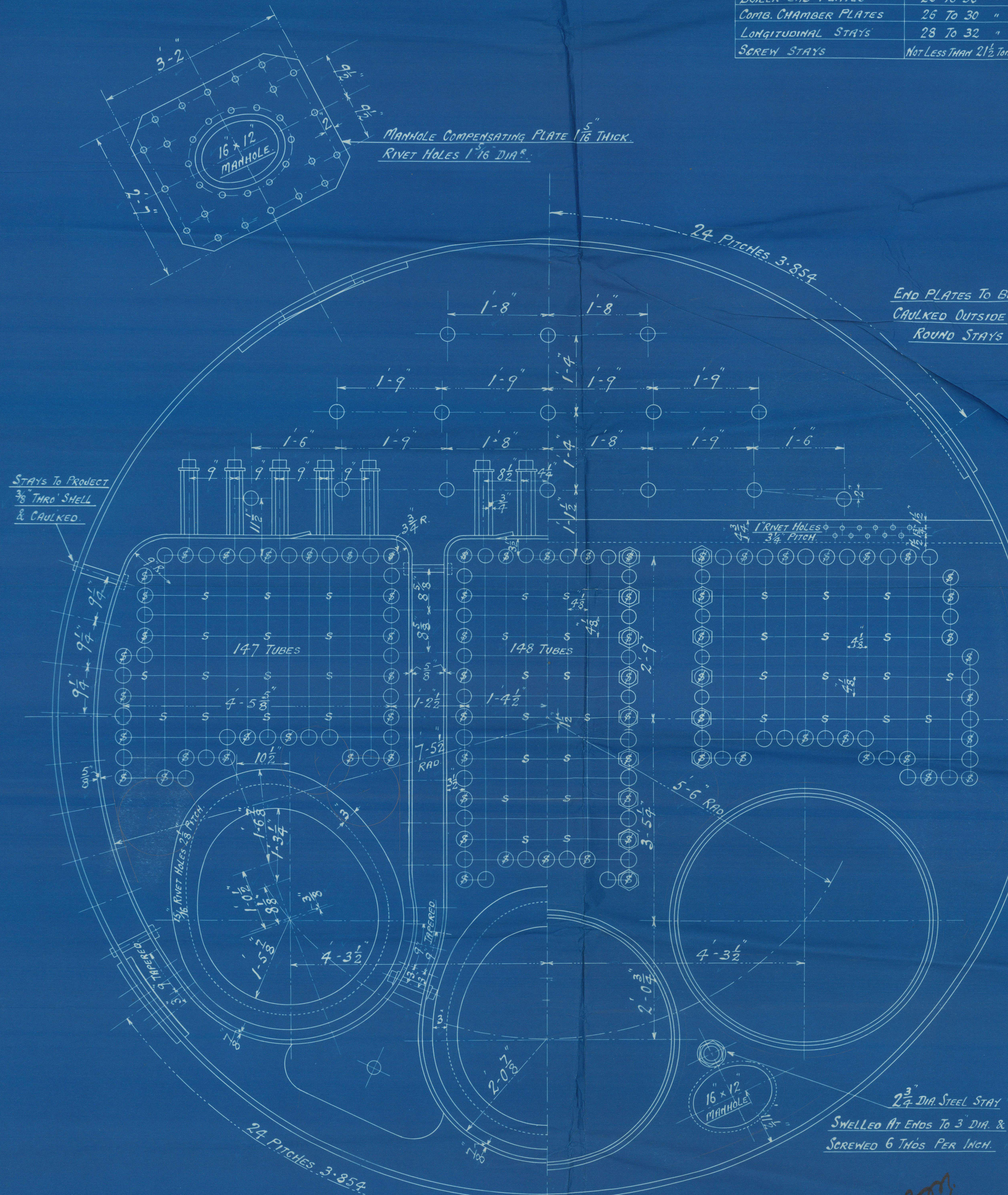
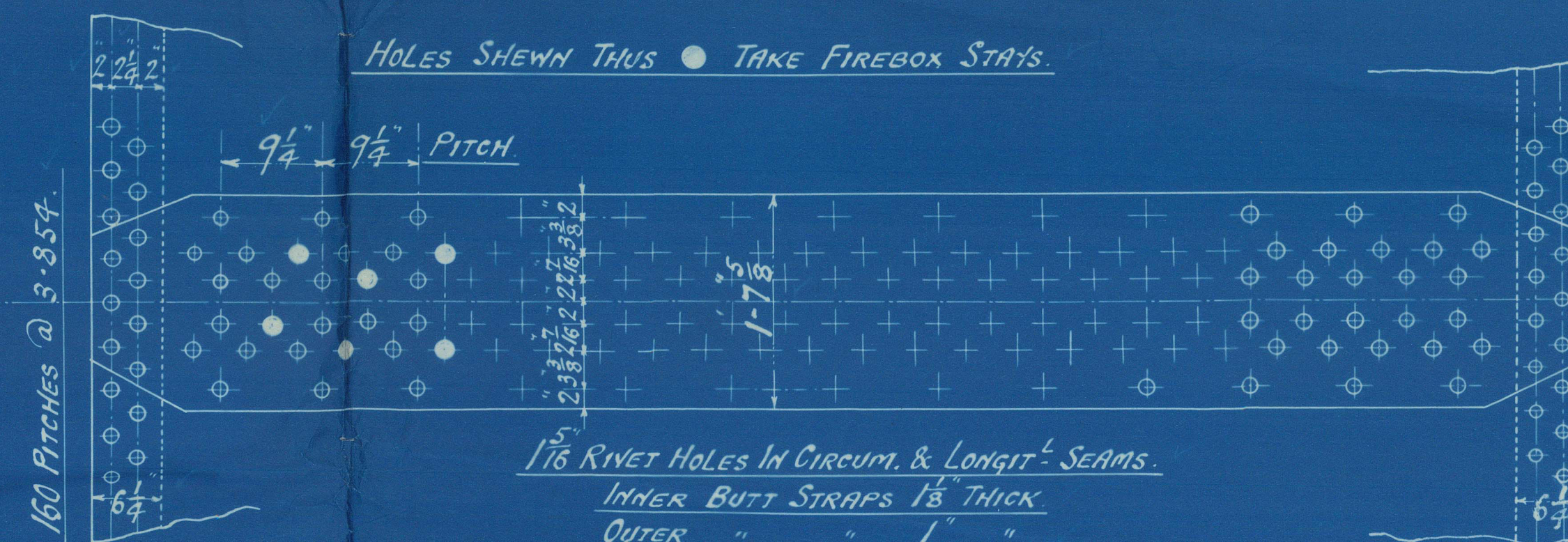
$$\text{STRENGTH OF PLATE } \frac{100(p-d)}{p} = \frac{100(9.25 - 1.3125)}{9.25} = 85.81\%$$

$$\text{STRENGTH OF RIVETS } \frac{100(S_2 \times a \times \pi \times c)}{S_1 \times p \times t} = \frac{100(23 \times 1.353 \times 5 \times 1.875)}{28 \times 9.25 \times 1.3125} = 85.82\%$$

$$\text{WORKING PRESSURE } \frac{(t-2) \times S \times J}{C \times D} = \frac{(42-2) \times 28 \times 85.81}{2.75 \times 195} = 180 \text{ LBS.}$$

442 TUBES 3" EXT. DIA. 8'-1" LONG = 2804 Sq. Ft.
FURNACES = 177 "
TOPS & SIDES OF COMB. CHAMBER = 170 "
COMB. CHAMBER BACKS = 93 "
BACK TUBE PLATES = 56 "
TOTAL = 3300 Sq. Feet.

GRATE AREA WITH 5'-0" FIREBARS = 60 Sq. Ft.
WORKING PRESSURE 180 LBS PER SQ. INCH
TEST " 320 " " " "
TO PASS LLOYD'S SURVEY.



ENG. N° 600-601.
MAIN BOILER.
Scale: 1" = 1 Foot.
DRAWING N° 11986.
TUBE N°

W382-0166

R

18-1-26

Main Boiler

Serial No. 528-601

S/S No. 528/529

MP 1860

600. S.S. "Dalblair"

Sub. Report No. 18601.

S.S. "Dalcairn."

Sub. Report No. 18642.

RETAIN

W382 - 0166

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