

# BOILER ONE OFF THUS.

TO LLOYDS REQUIREMENTS.

FOR WORKING PRESSURE OF 180 LBS. PER SQ. IN.

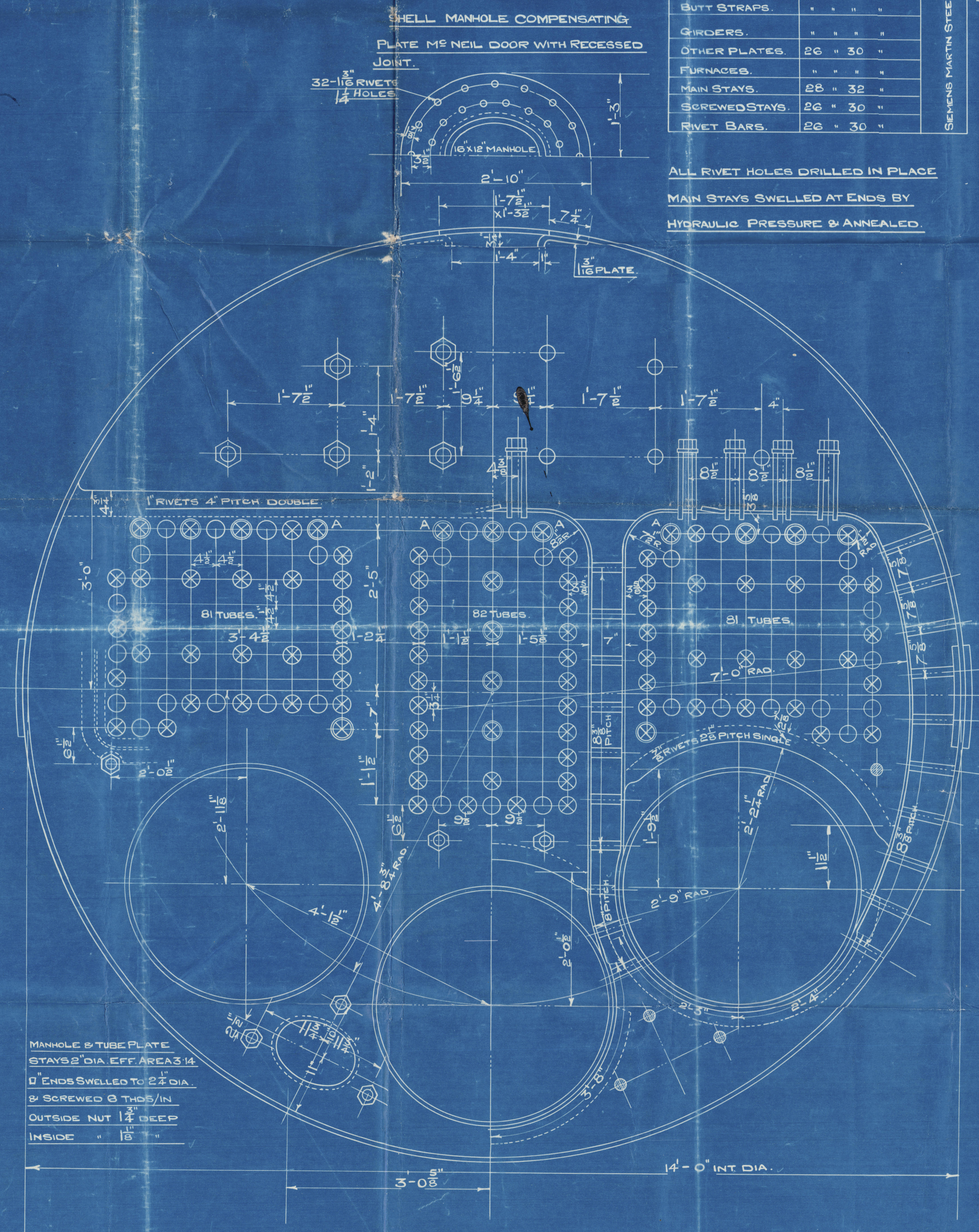
APPROVED BY LLOYDS 10/5/18.

BOILER 9/2/20 2073

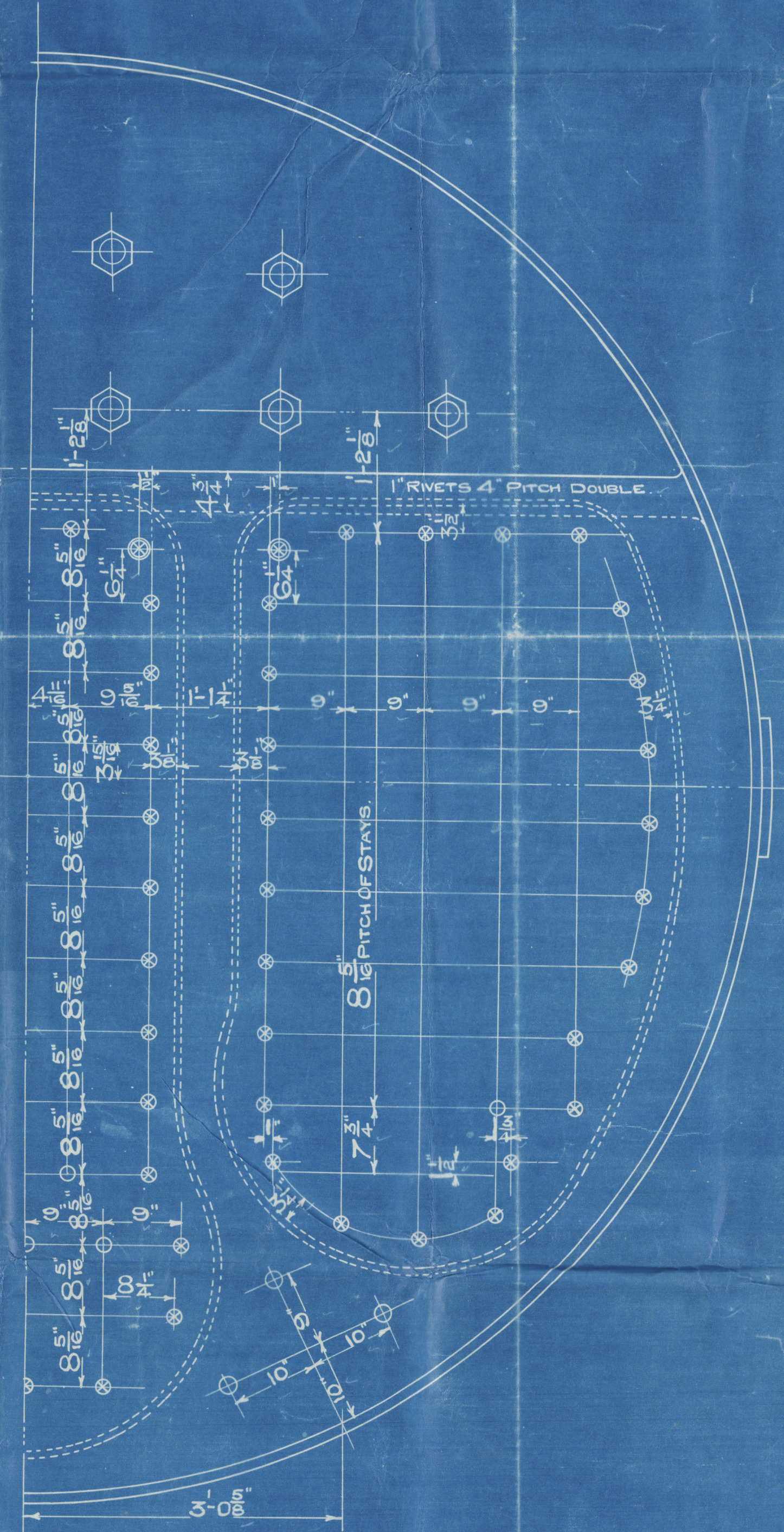
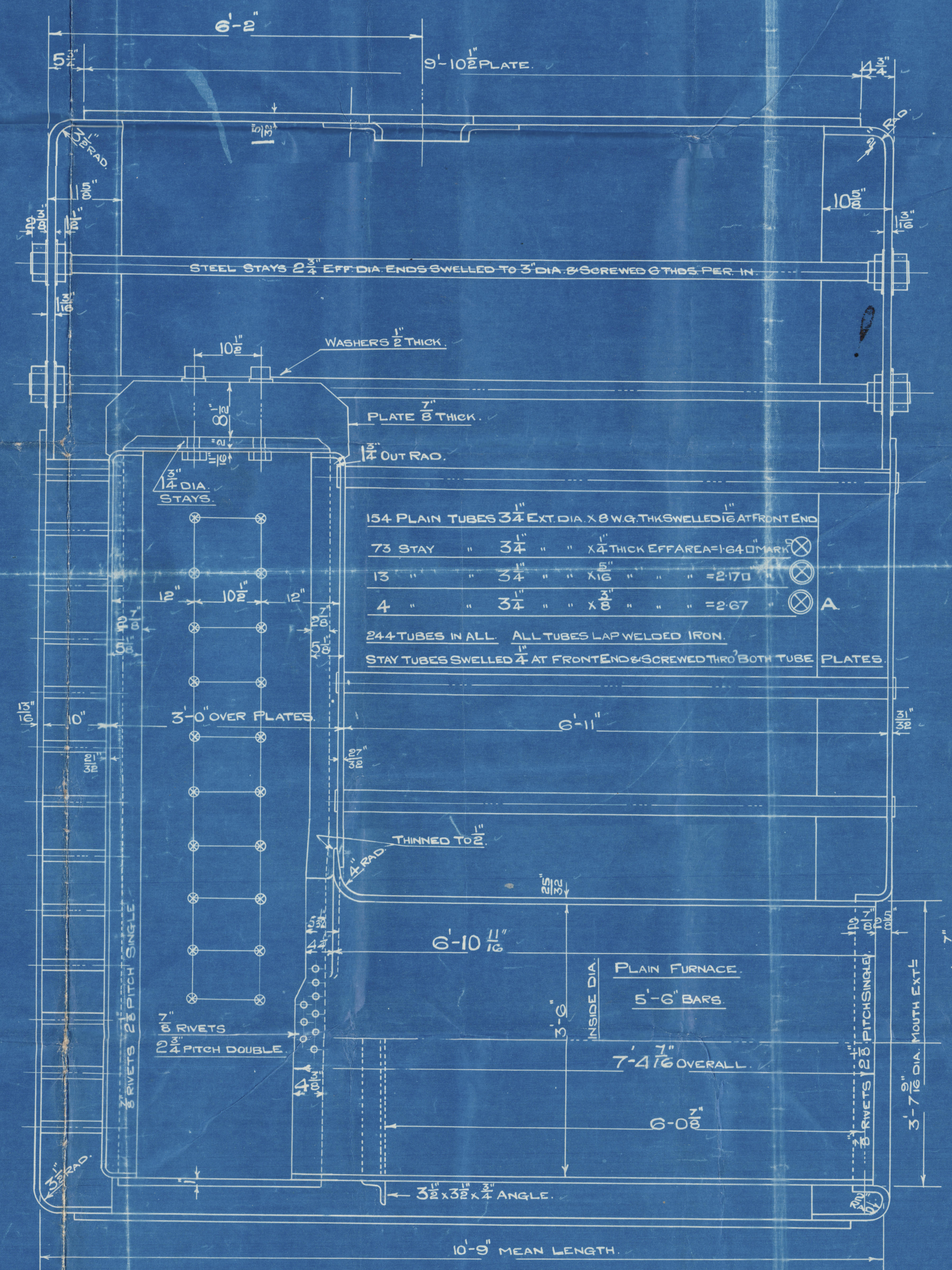
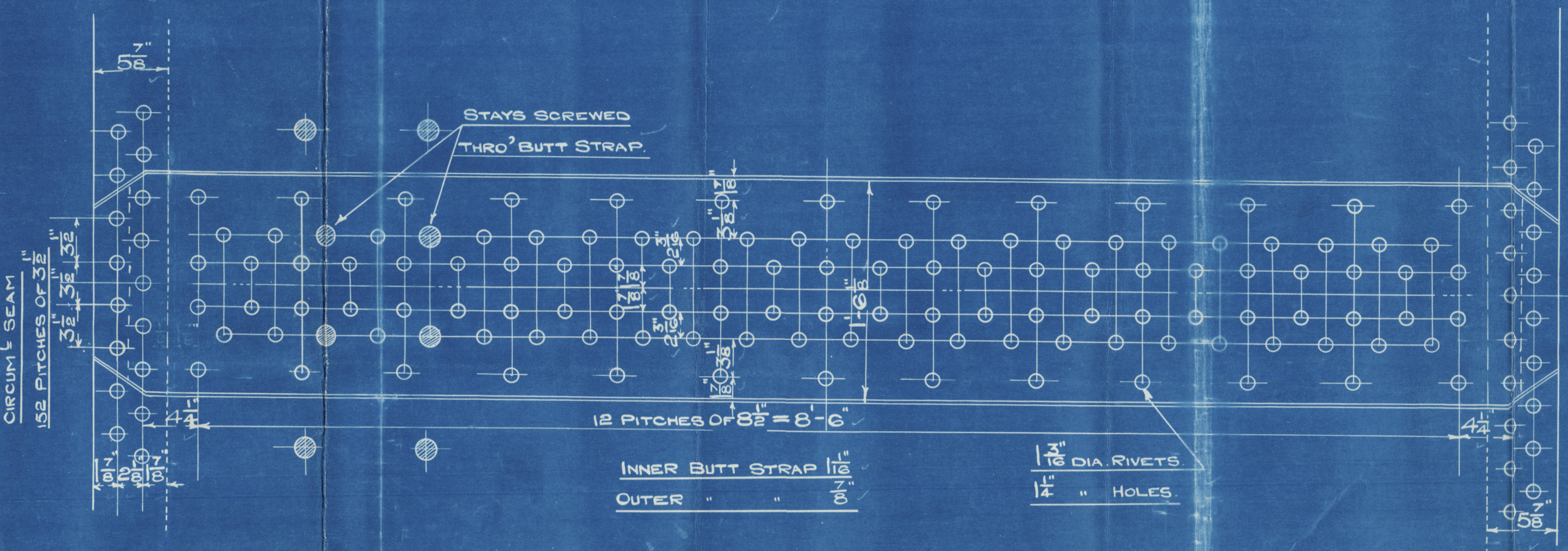
RIVETTING.		
	LONGITUDINAL	CIRCUMF.
DIA. RIVET.	1 1/8	1 1/8
HOLE	1 1/4	1 1/4
PITCH	8 1/2	3 1/2
PLATE PERCENTAGE	85.3	64.4
RIVET	83	51

LIMITS OF TENSILE STRENGTH & MATERIAL.	
SHELL.	28 TO 32 TONS/D
BUTT STRAPS.	" " "
GIRDERS.	" " "
OTHER PLATES.	28 " 30 "
FURNACES.	" " "
MAIN STAYS.	28 " 32 "
SCREWED STAYS.	28 " 30 "
RIVET BARS.	28 " 30 "

ALL RIVET HOLES DRILLED IN PLACE  
MAIN STAYS SWELLED AT ENDS BY  
HYDRAULIC PRESSURE & ANNEALED.



MANHOLE & TUBE PLATE  
STAYS 2 1/2" DIA. EFF. AREA 3 1/4  
0" ENDS SWELLED TO 2 1/2" DIA.  
& SCREWED 8 THOS. IN  
OUTSIDE NUT 1 1/4 DEEP  
INSIDE " 1 1/2 "



PARTICULARS	
HEATING SURFACE IN 244 TUBES.	1436 Sq. Ft.
" " " 3 COMB. CH.	246 " "
" " " 3 FURNACES.	127 " "
TOTAL HEATING SURFACE	1809 " "
GRATE AREA 5' 6" BARS.	57.75 " "
AREA THRO' TUBES.	10.82 " "
RATIO GRATE TO HEATING SURFACE.	1:31.3 " "
" " " AREA THRO' TUBES.	5.34:1 " "
STEAM SPACE CUBIC FEET.	34.6
WEIGHT OF WATER AT WORKING LEVEL	
TEMPERATURE.	

STEEL COMBUSTION CHAMBER STAYS.					
POSITION	MARK	DIA.	THOS. IN	EFF. AREA	DEPTH NUTS.
BACK TOP CORNERS.	⊗	2"	9	2.71 "	1 1/2
" MARGINAL TOP & SIDES.	⊗	1 1/2"	9	2.03 "	1"
BACK.	⊗	1 1/8"	9	1.73 "	1"

ALL COMB. CH. STAYS SCREWED THRO' BOTH PLATES & FITTED WITH NUTS EACH END.  
EXCEPT STAYS THRO' SHELL WHICH PROJECT 3/8" & ARE TO BE RIVETTED & CAULKED.

SCALES 1" & 1/2" = 1 FOOT.



Lammell Laird  
& Co. Ltd.

Boiler No 2073.

for McKie & Baxter,  
s/s No 939.

S. S. "ARDSHEAN"

LIVERPOOL

Report No. 81326.

GLASGOW REPORT No H052H

s/s Ardshean.

W71-0028



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