

19-6-03

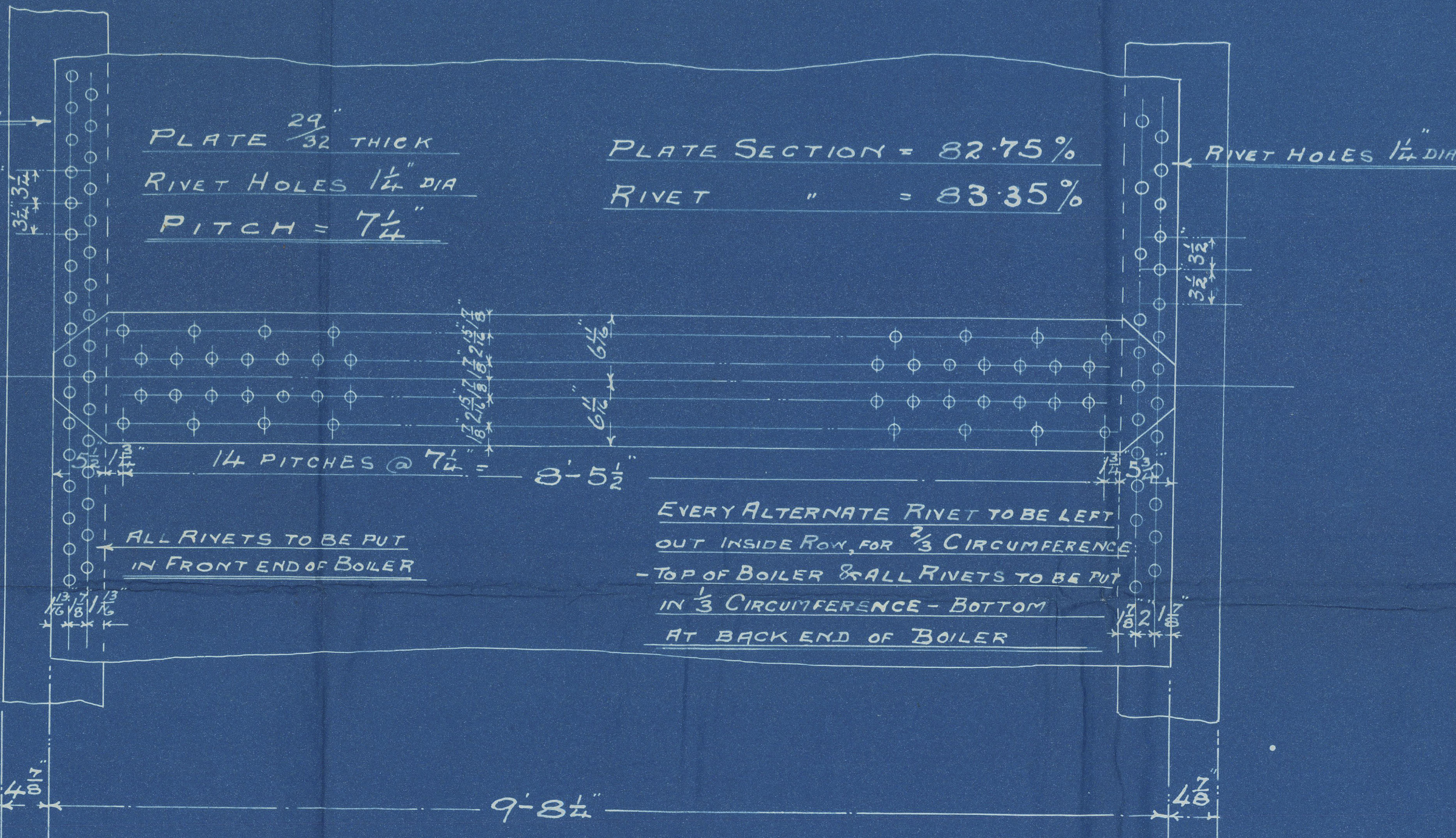
SUNDERLAND ENGINE WORKS  
BOILER

TRACING 281 SCALE - 1 INCH TO A FOOT SCHEDULE "L"

WRITTEN DIMENSIONS ONLY TO BE TAKEN



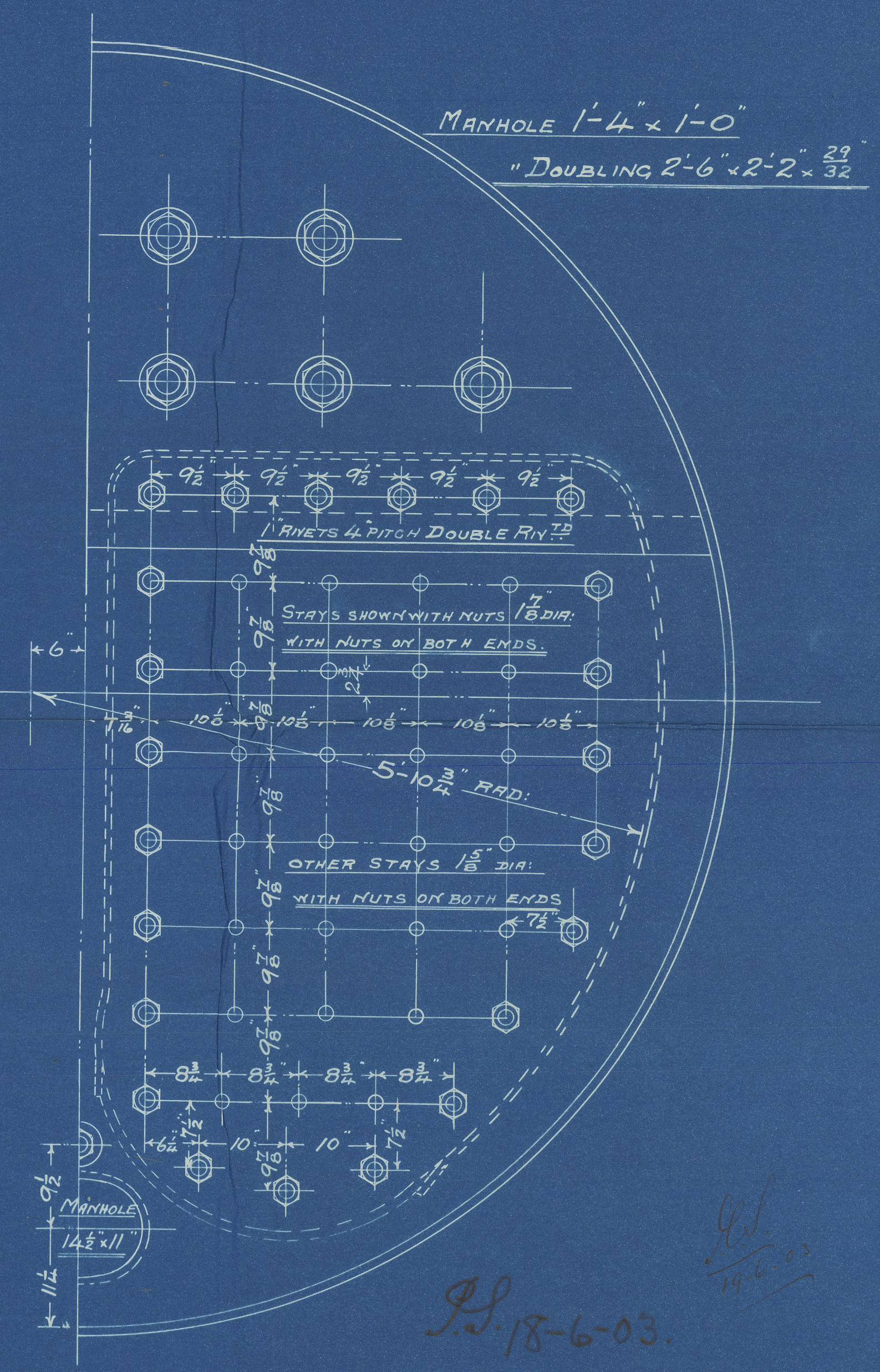
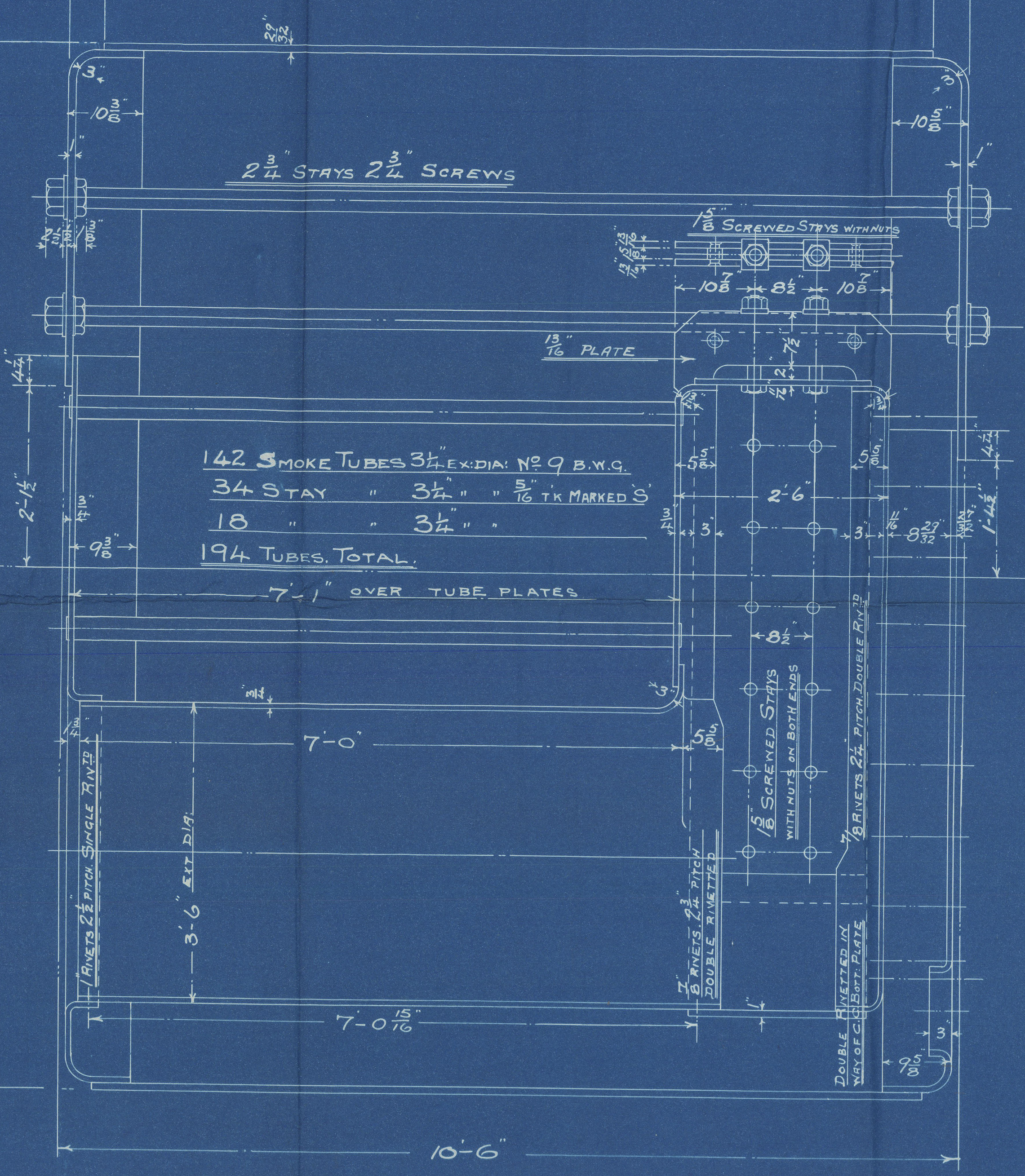
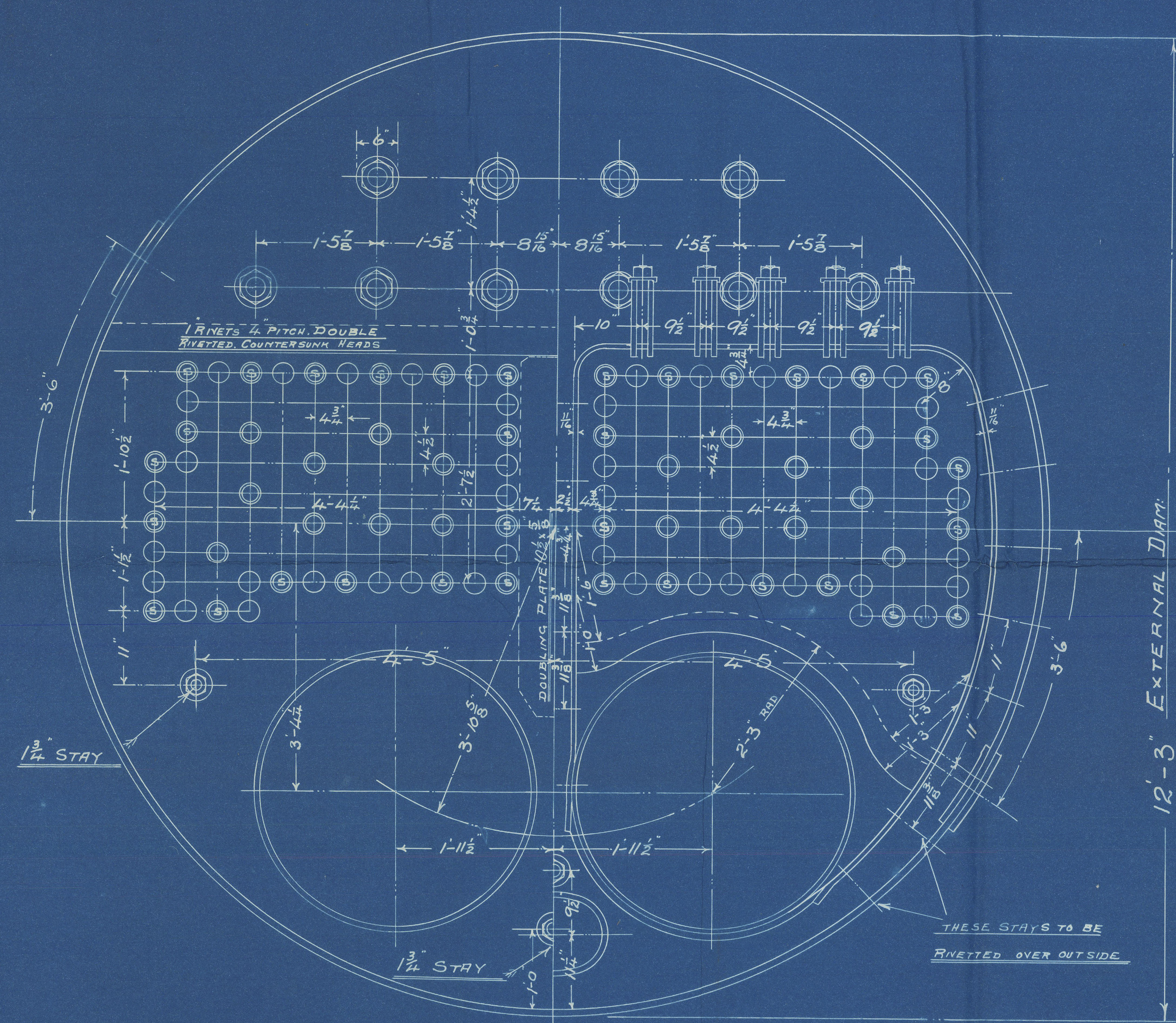
BUTT STRAPS  
INSIDE 22"  
OUTSIDE 32"



LLOYDS	22.55 x (14.5-2) x 82.75	160.6 LBS.
WORKING PRESSURE	=	160 LBS
TEST	"	= 320 "
HEATING SURFACE ON TUBES		1168.4#
" " OTHER PARTS		283.1 "
" " TOTAL		1451.5 "
Ex: FRONT TUBE PLATE		1423.5 "

EFFECTIVE AREA OF STAYS		
3 1/4" STAY TUBES, 7/8" THK 9 THRS PER IN.		2.17 sq. in.
3 1/4" " " 4" 9 " " "		1.64 " "
2 3/4" MAIN STAYS 6 " " "		5.05 " "
1 1/2" " " 6 " " "		1.85 " "
1 1/8" SCREWED " 11 " " "		2.43 " "
1 3/8" " " 11 " " "		1.79 " "

PLATES, RIVETS & STAYS - ALL STEEL  
TUBES - WROUGHT IRON  
HOLES TO BE DRILLED IN PLACE AFTER BENDING  
TENSILE STRENGTH OF SHELL PLATES, NOT LESS THAN 29 TONS  
" " " MAIN STAYS " " 27 "



CLB  
JMS 7/1/03

CONTRACT 1517.2 DEF





Messrs The N. E. M. & Co. Ltd

C. No. 1517.

Boilers for

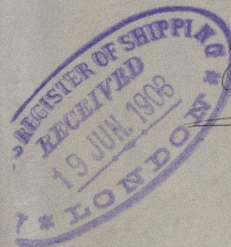
Messrs S. P. Austin & Son Ltds

S.S. No. 224.

W. P. = 160 lbs

% "Factor"

Old. J.E. No. 21574.



W898-0052



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Lloyd's Register  
Foundation