

BOILERS No. 12.

(27-3-17)

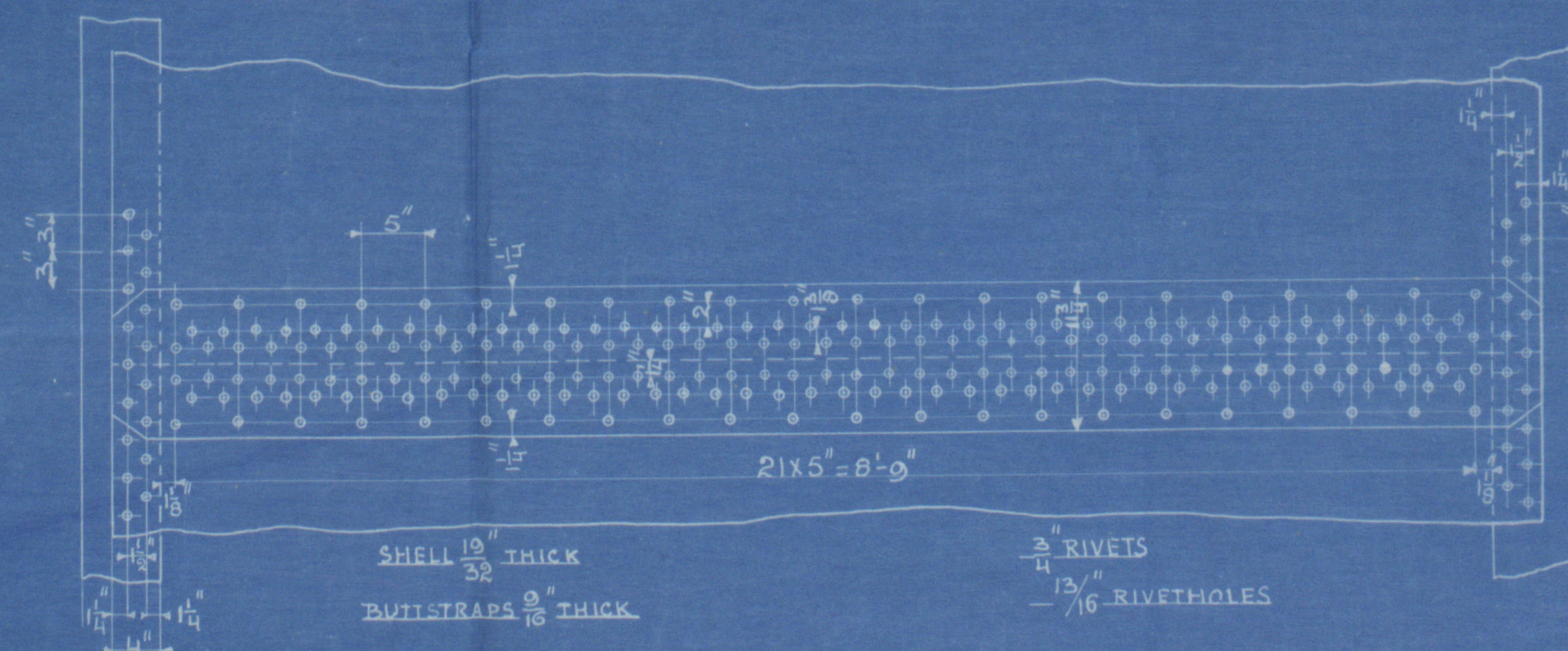
SCALE 1"=4 FEET. 2-8-15.



THICKNESS OF PLATES.	
SHELL	19/32"
BUTTSTRAPS	9/16"
MANHOLERING	7/8"
FRONT AND BACK	3/4"
FURNACES	3/8"
BACK TUBE PLATES	5/8"
BACK OF FIREBOX	9/16"
TOP " " "	9/16"
BOTTOM " " "	3/4"
GIRDERS	1"

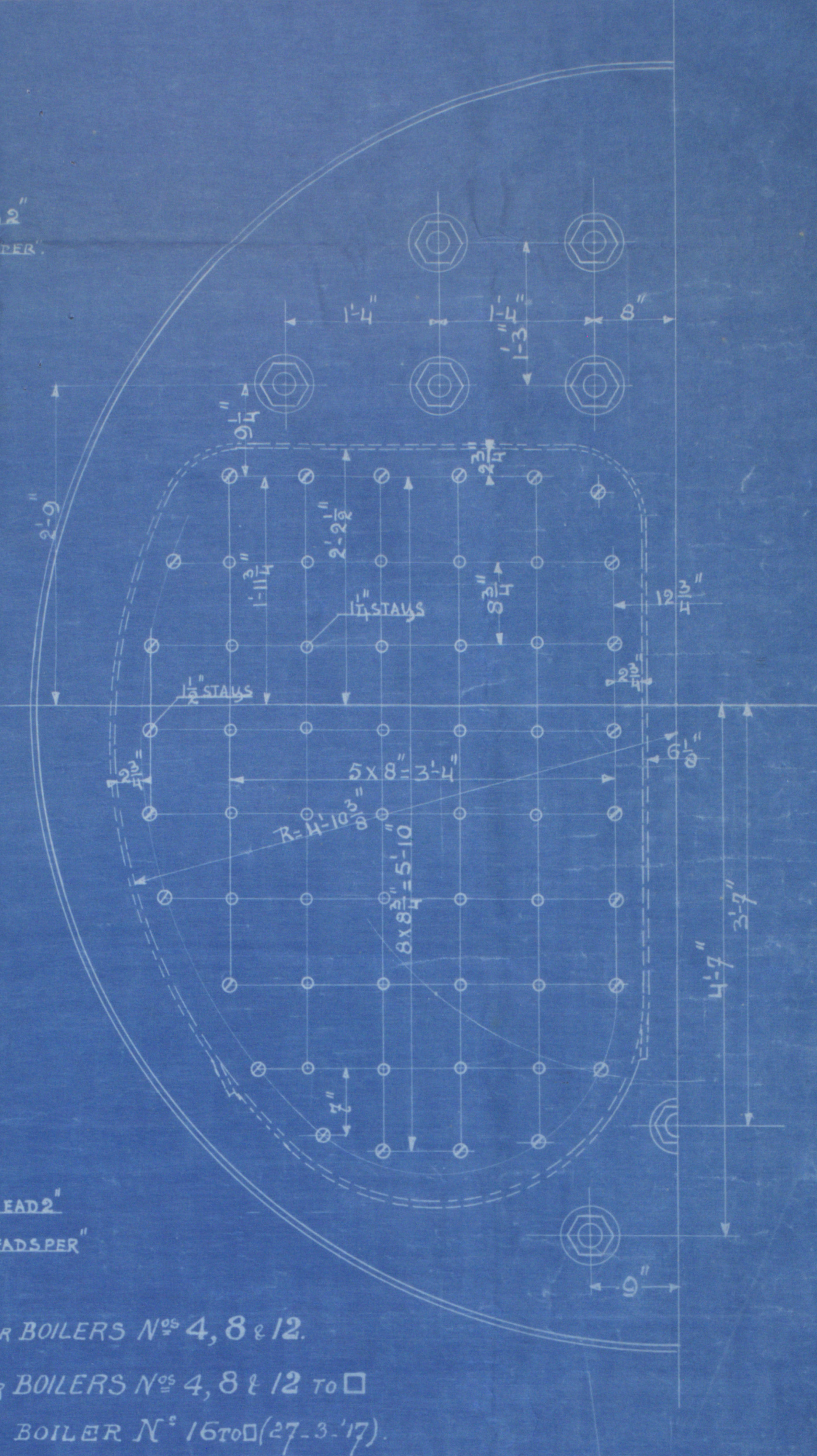
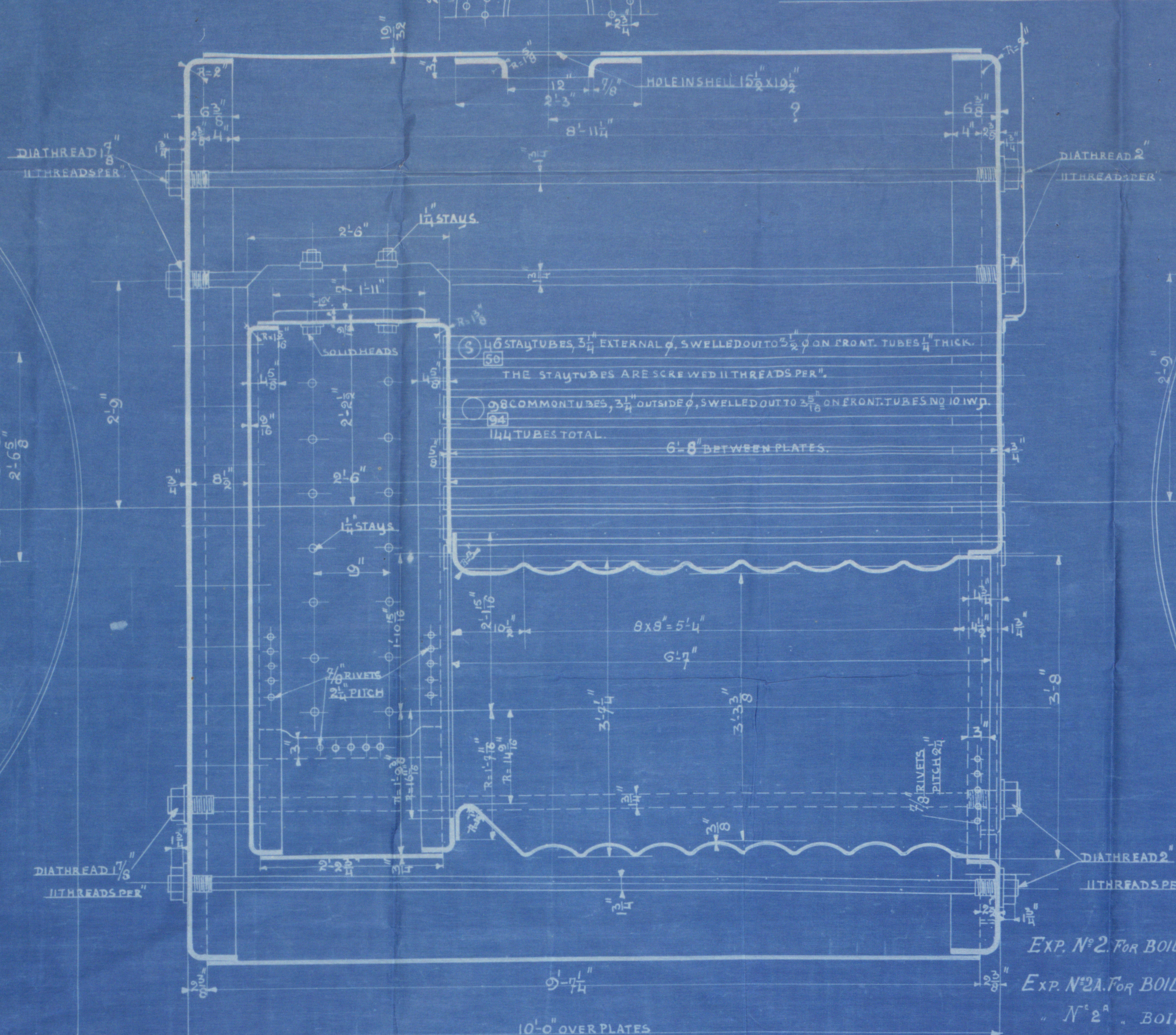
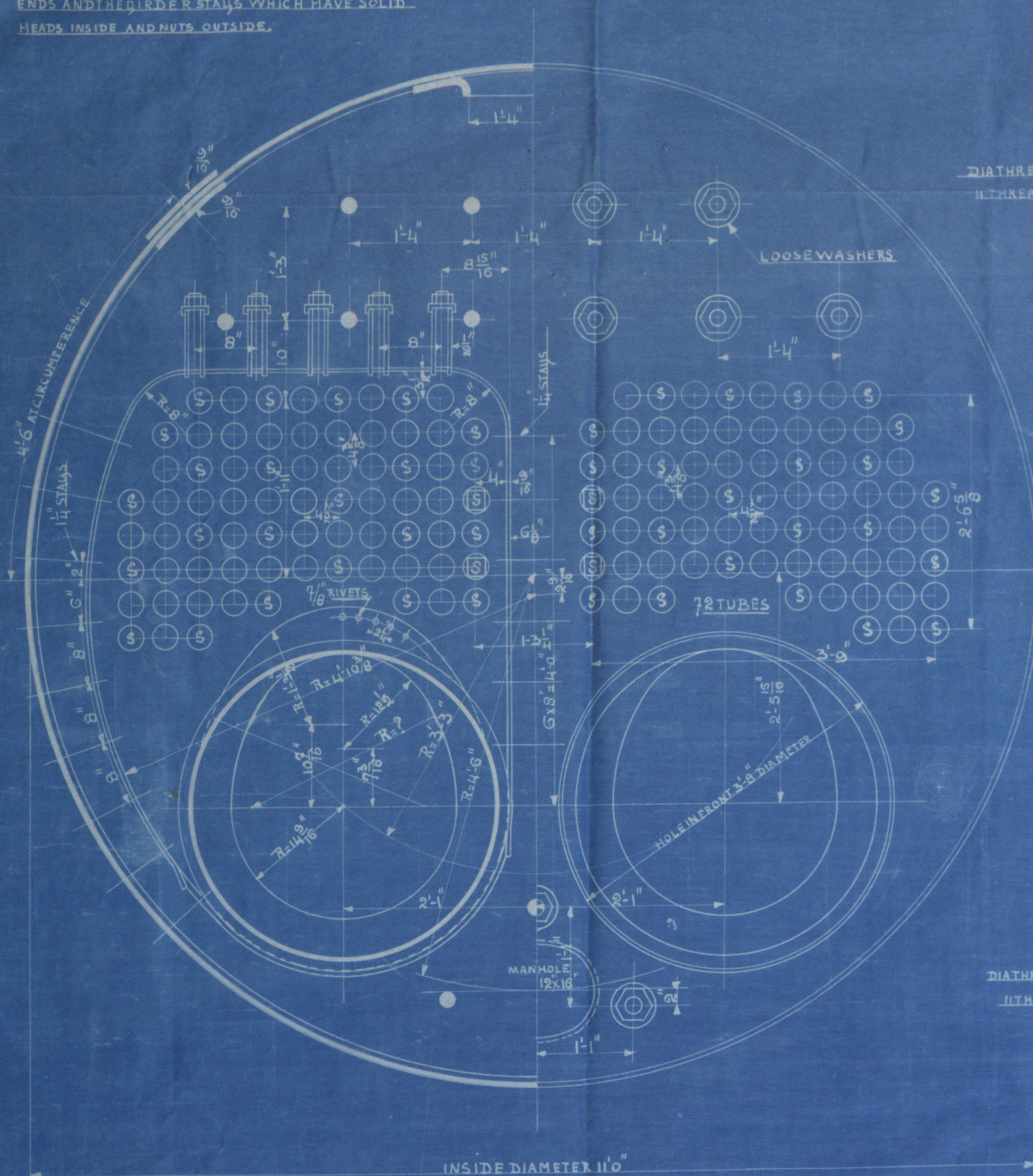
SURFACES	
144 TUBES 3 1/4" OUTSIDE DIA x 6'-0 1/2" LENGTH.	832 sq. ft.
2 FURNACES	79 sq. ft.
2 FIREBOXES	105 sq. ft.
TOTAL HEATING SURFACE	1016 sq. ft.
GRATE 5'-6" x 3'-4" x 2	36.7 sq. ft.
WATER SURFACE BY 8" ON TOP OF FIREBOX	92 sq. ft.
STEAM SPACE	158 cu. ft.
AREA THROUGH TUBES	9.44 sq. ft.
RATIO GRATE TO HEATING SURFACE	1:27.7
" " " TUBE " "	1:22.7
" " " WATER " "	1:2.5
" " " AREA THROUGH TUBES	1:0.175
" HEATING SURFACE TO TUBE SURFACE	1:0.019
WEIGHT OF BOILER [BARE]	
" " WATER IN BOILER	13.6 tons

ALL THE STAYS ARE SCREWED INTO THE PLATES. THE COMBUSTION CHAMBER STAYS ARE SCREWED 12 THREADS PER INCH AND RIVETED OVER EXCEPT THE MARGIN STAYS MARKED O WHICH HAVE NUTS ON BOTH ENDS AND THE GIRDER STAYS WHICH HAVE SOLID HEADS INSIDE AND NUTS OUTSIDE.



TO PASS LLOYD'S SPECIAL SURVEY.
WORKING PRESSURE 100 LBS.

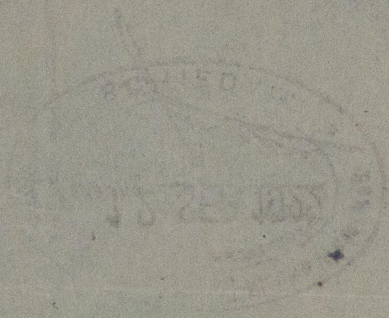
MATERIAL OF SHELL, STRAPS, MANHOLERING AND GIRDERS 28-32 TONS S.M. STEEL, 20% ELONGATION ON 8" LENGTH.	
" " FURNACES	26-30 " " " " " " " " " " " "
" " REST OF PLATES	" " " " " " " " " " " "
" " COMBUSTION CHAMBER STAYS	" " " " " " " " " " " "
" " LONGITUDINAL STAYS	28-32 " " " " " " " " " " " "
" " RIVETS	26-30 " " " " " " " " " " " "



EXP. N° 2 FOR BOILERS N° 4, 8 & 12.
EXP. N° 2A FOR BOILERS N° 4, 8 & 12 TO □
N° 2, BOILER N° 16 TO □ (27-3-17).

Copy of plans of
New Waltham, Hupl Co.,
Donkey boiler N° 12

now fitted
in $\frac{3}{4}$ "Fensterberg"
Rot. 12518



W540-0033



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