

20.6 Ave.  
2/18/84

Heating Surface for 1 Boiler  
 Tubes (inside tube plate) — 1745 sq. ft.  
 Furnaces — 147  
 Comb. Chamber — 195  
 Back tube plate — 48.5  
 Front — 44.5  
Total — 2180 sq. ft.  
 Grate Surface — in four bar shed  
 Tube section — 15.4 sq. ft.  
 Furnace — 21.6  
 Working pressure — 85 lbs.  
 Test — 170  
 Calh. Weight of Boiler & Receiver.

# BOILER

All parts of Boiler & Receiver of Steel  
except Stays & Tubes.

## Shell Riveting.

Rivet holes  $\frac{1}{8}$  in. dia. pitch  $5\frac{1}{4}$ "  
 plates  $\frac{3}{16}$  thick

## Dome Riveting.

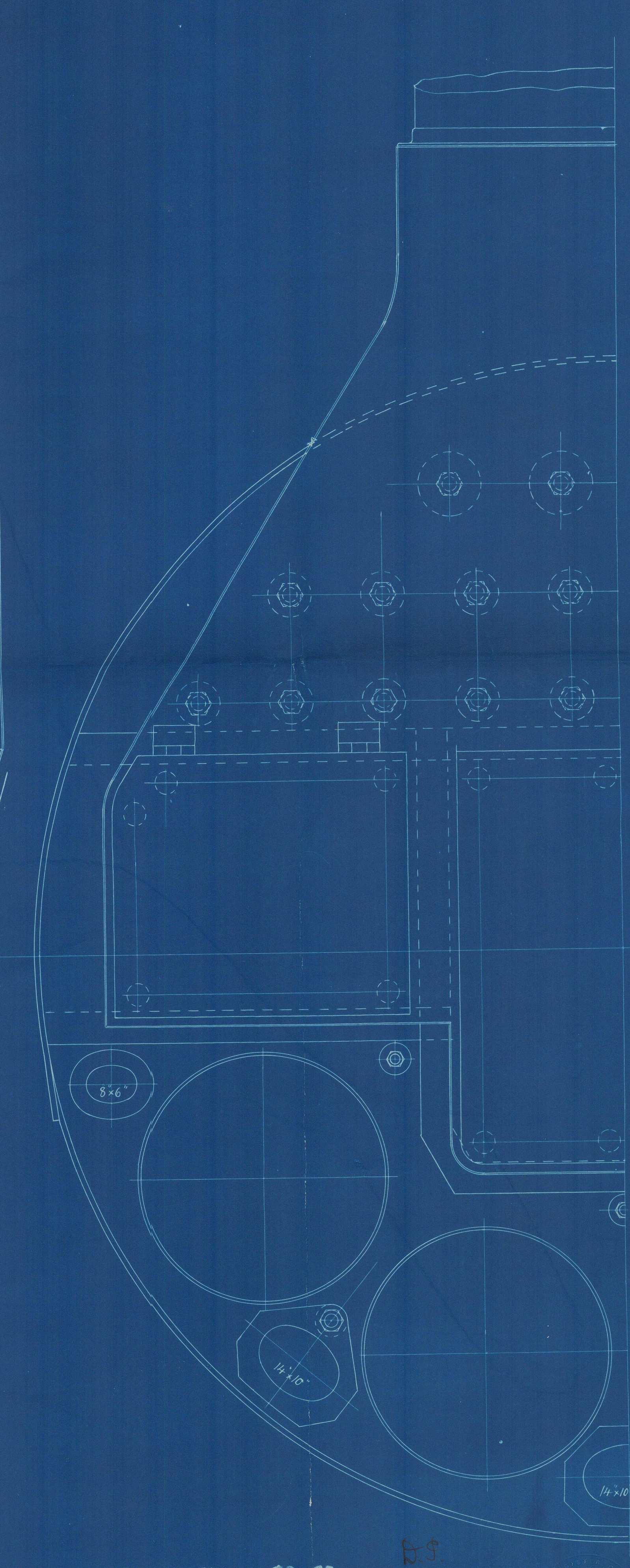
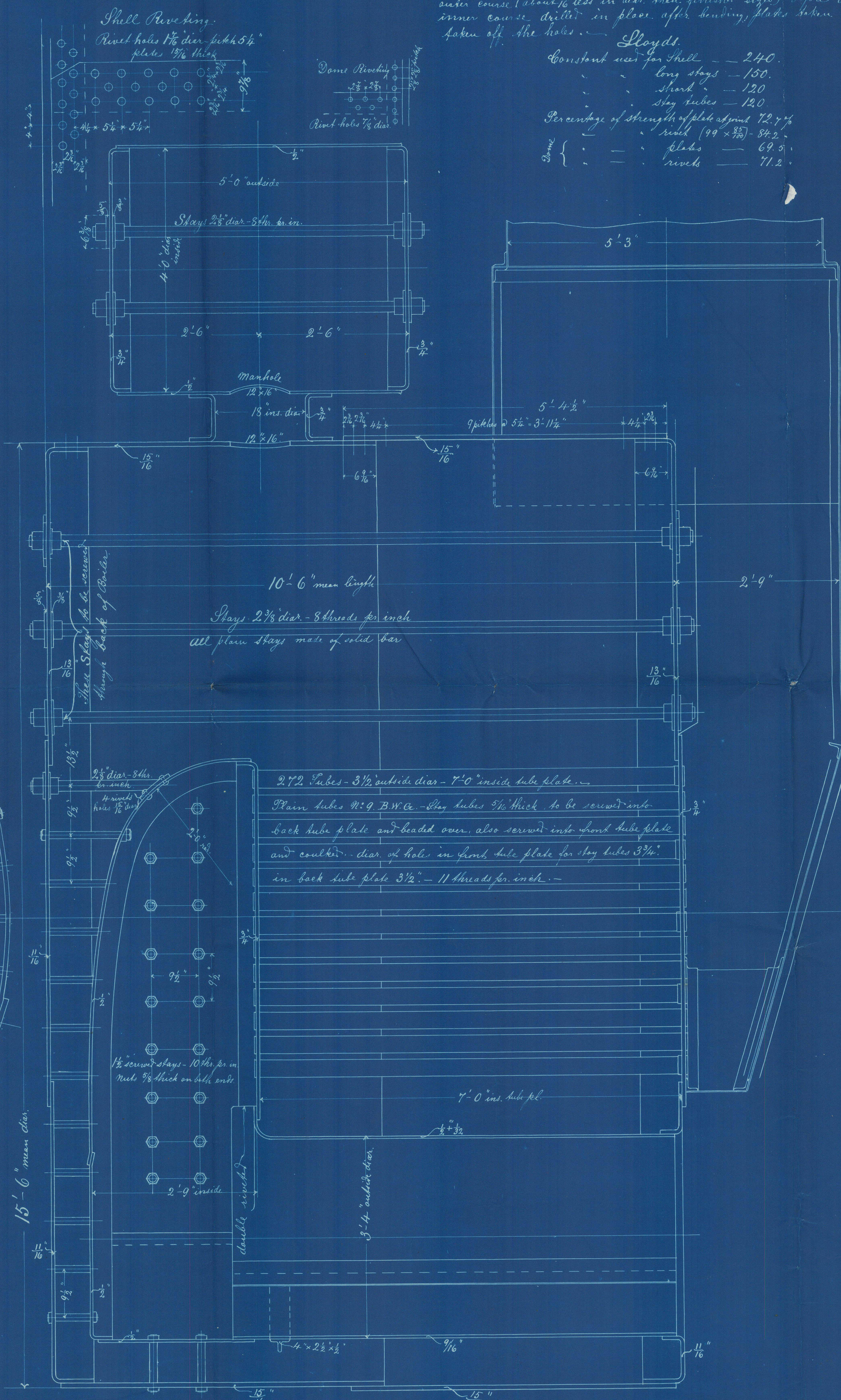
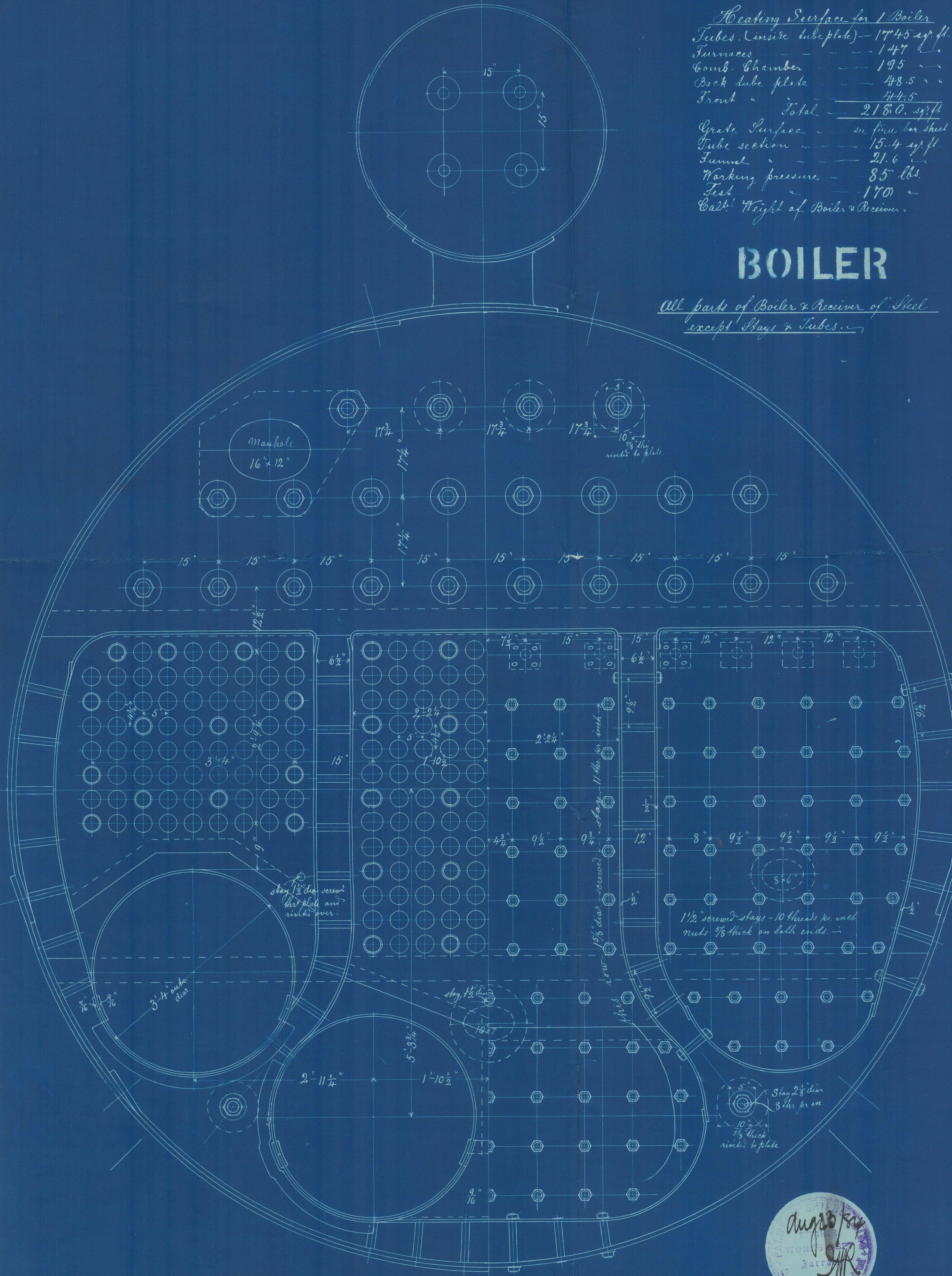
Rivet holes  $\frac{1}{8}$  in. dia.

## Condition of Construction

Longitudinal seams double riveted lap joints, holes drilled in place after bending the plates then taken apart, the burr taken off and the holes slightly countersunk from the inside. Circumferential seams double riveted lap joints, holes drilled in outer course (about  $\frac{1}{16}$  in. dia. than finished size) before bending, holes in inner course drilled in place after bending, plates taken apart and the burr taken off the holes.

## Lloyds

Constant area for shell — 240.  
 Long stays — 130.  
 Short — 120.  
 Stay tubes — 120.  
 Percentage of strength of plate about 72.7%  
 rivet (99 x  $\frac{3}{16}$ ) — 84.2.  
 plates — 69.5.  
 rivets — 71.2.



ENGINES N<sup>o</sup> 459

N<sup>o</sup> 6488



Foundation



Palmer S. S. 546  
Engine 459.

S.S. "Chelsea"

Swc. Report No. 180574



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Lloyd's Register  
Foundation

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