

To Miss M. J. H. L. *Principal* Hull Report No: 5349.  
 Vulcan Iron Works Company Limited  
 Scott Street.  
 Hull.

# IRON BOILER

SCALE 1" INCH TO A FOOT

Working Pressure 80 lbs.

Dimensions	
Length of Tubes	
Area of fire case	
Dia of Tubes outside	3"
Length of Tube over plate	6-6
No of Tubes	138
Surface of Tubes in sq feet	602
Total heating surface	855
Working Pressure	80 lbs
Dia of Safety Valve.	

Note. The rivet holes in the circumferential seams of the shell to be punched before rolling the plates. No two longitudinal seams to be in the same line. To be lap jointed and double riveted. Holes in longitudinal seams to be drilled in place after bending. The diam<sup>s</sup> given of the stays are effective except the screw stays which are 1/8 effective diam<sup>s</sup> they are screwed into both plates and fitted with nuts each end.

The stay tubes are 2 1/2 inside diam<sup>s</sup> and a 1/8 effective thickness

Mantle in shell of boiler 16x12 Placed with shorter axis longitudinally

doubling plate around mantle 2-4 x 2-0 x 3/4

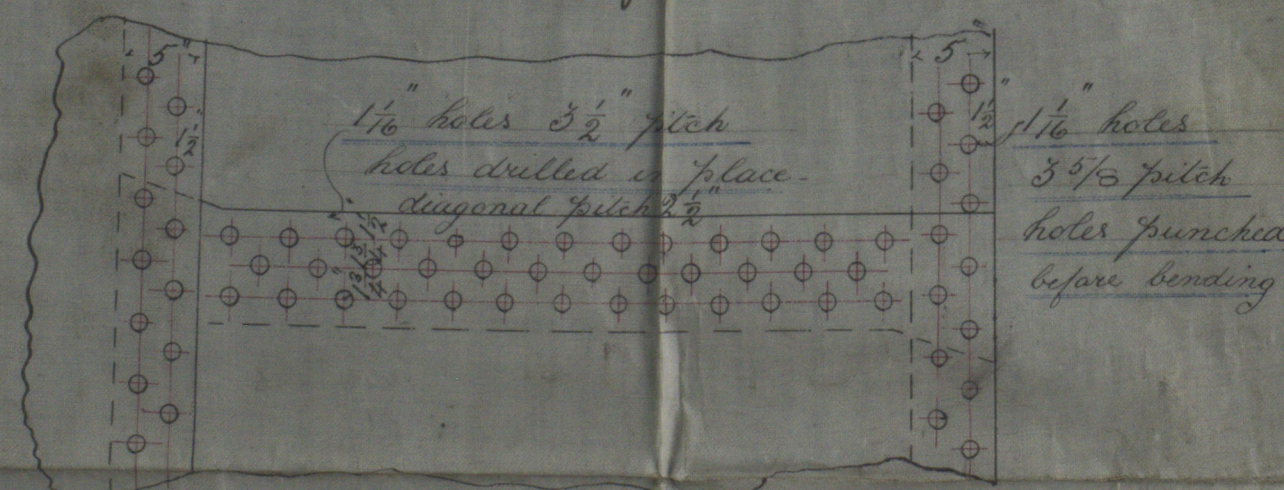
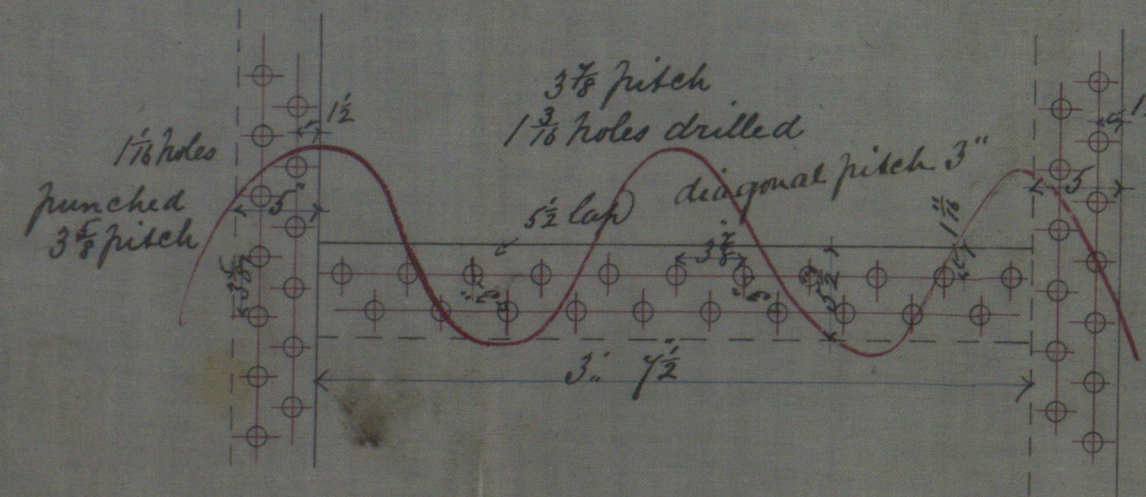
The shell plates to be in two lengths circumferentially

18.8.82

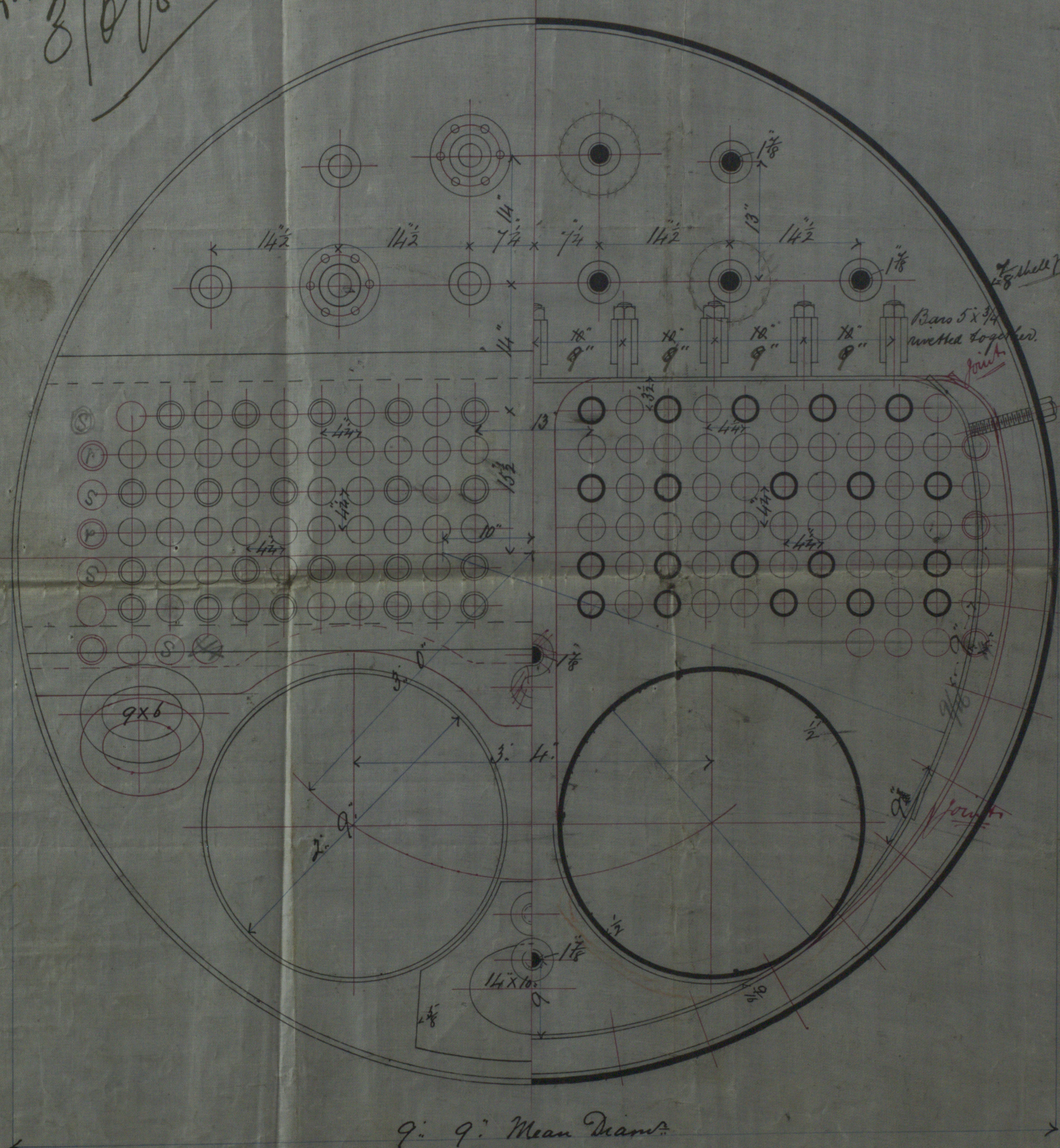


Lt. H. Hull  
 8/6/82

S. J. 3/6/82



Plan of altered shell rivetting.



Alterations in Red.

