

Mult. Steel Boiler by Mess Dunsmuir & Jackson (N<sup>o</sup> 202)  
for Mess C. Connell & Co<sup>p</sup> N<sup>o</sup> 252 1/2.

Single Ended Boiler. 180 lbs. working pressure.

Plate<sup>9</sup>.  $\frac{9.531 - 1.4375}{9.531} \times 100 = 84.7$  End top  $\frac{145 \times 21^2}{17.5^2} = 250 \text{ lbs}$

Rivet<sup>9</sup>.  $\frac{5 \times 1.62 \times 1.75 \times 85}{9.531 \times 1.4375} = 88.5$  Stay  $\frac{6.33 \times 10000}{17 \times 18} = 207 \text{ lbs}$

Shell  $\frac{28}{27} \times \frac{21 \times 84.7(23-2)}{189} = 206 \text{ lbs}$  Front tube  $\frac{150 \times 16^2}{14.25^2} = 189 \text{ lbs}$

Furnace  $\frac{1259(10-2)}{48} = 210 \text{ lbs}$  Back "  $\frac{140 \times 14^2}{11.25^2} = 216 \text{ lbs}$

Comb<sup>n</sup> th<sup>9</sup>.  $\frac{135 \times 10.5^2}{8.75^2} = 194 \text{ lbs}$  Stay "  $\frac{4500(7.67-4.9)}{11.625 \times 9} = 257 \text{ lbs}$

" " Stay  $\frac{1.76 \times 8000}{9 \times 8.5} = 184 \text{ lbs}$  Boiler Back  $\frac{135 \times 14^2}{14.25^2 \times 8.5} = 192 \text{ lbs}$

" " Back  $\frac{135 \times 10^2}{8.5^2} = 184 \text{ lbs}$  " " Stay  $\frac{1.99 \times 9000}{11.375 \times 8.5} = 186 \text{ lbs}$

Girders.  $\frac{9900 \times 7.5^2 \times 2}{(28.5-8.5)9 \times 28.5} = 217 \text{ lbs}$

Double Ended Boilers.

Comb<sup>n</sup> th<sup>9</sup>.  $\frac{135 \times 11^2}{9.125^2} = 185 \text{ lbs}$

" " Stay  $\frac{199 \times 9000}{9.25 \times 9} =$

Back tube  $\frac{140 \times 16^2}{11.25^2} = 282 \text{ lbs}$

Furnace to front.  $\frac{60(300 \times 977-50)}{48} = 250 \text{ lbs}$

Girders.  $\frac{9900 \times 9.5^2 \times 2.5}{(39.5-9.25)9 \times 39.5} = 211 \text{ lbs}$

T. tube plates  $\frac{180 \times 40.5 \times 45}{1600(45-3)} = 14 \frac{1}{16}$

W.K.H.  
31<sup>st</sup> May 1898.  
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Foundation

W107-0207.1