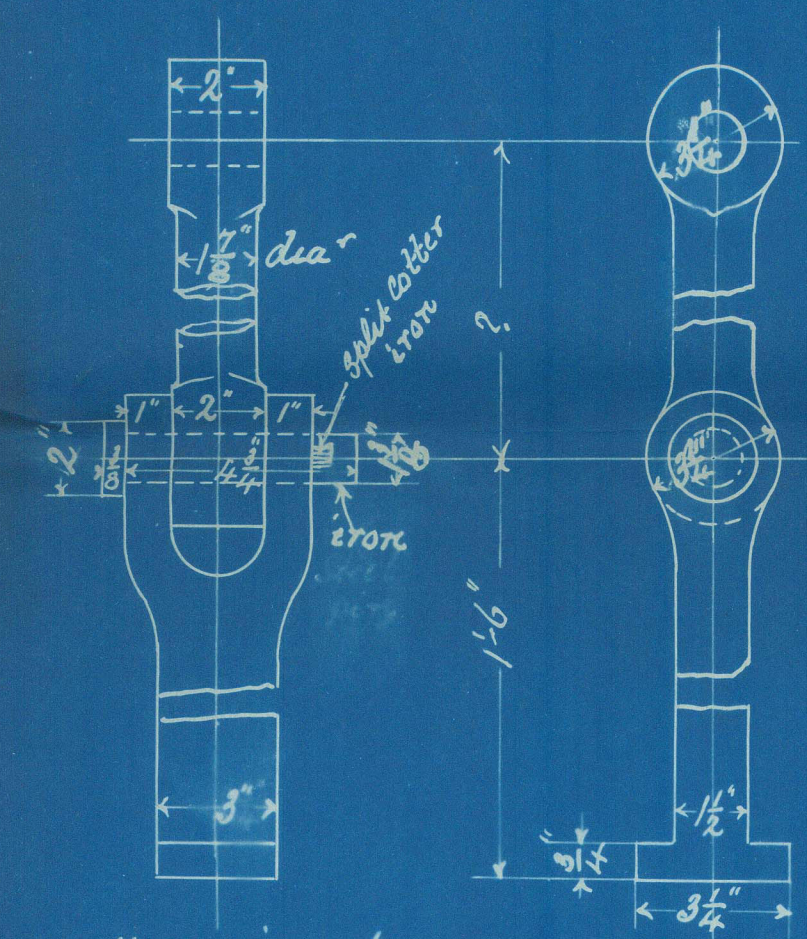


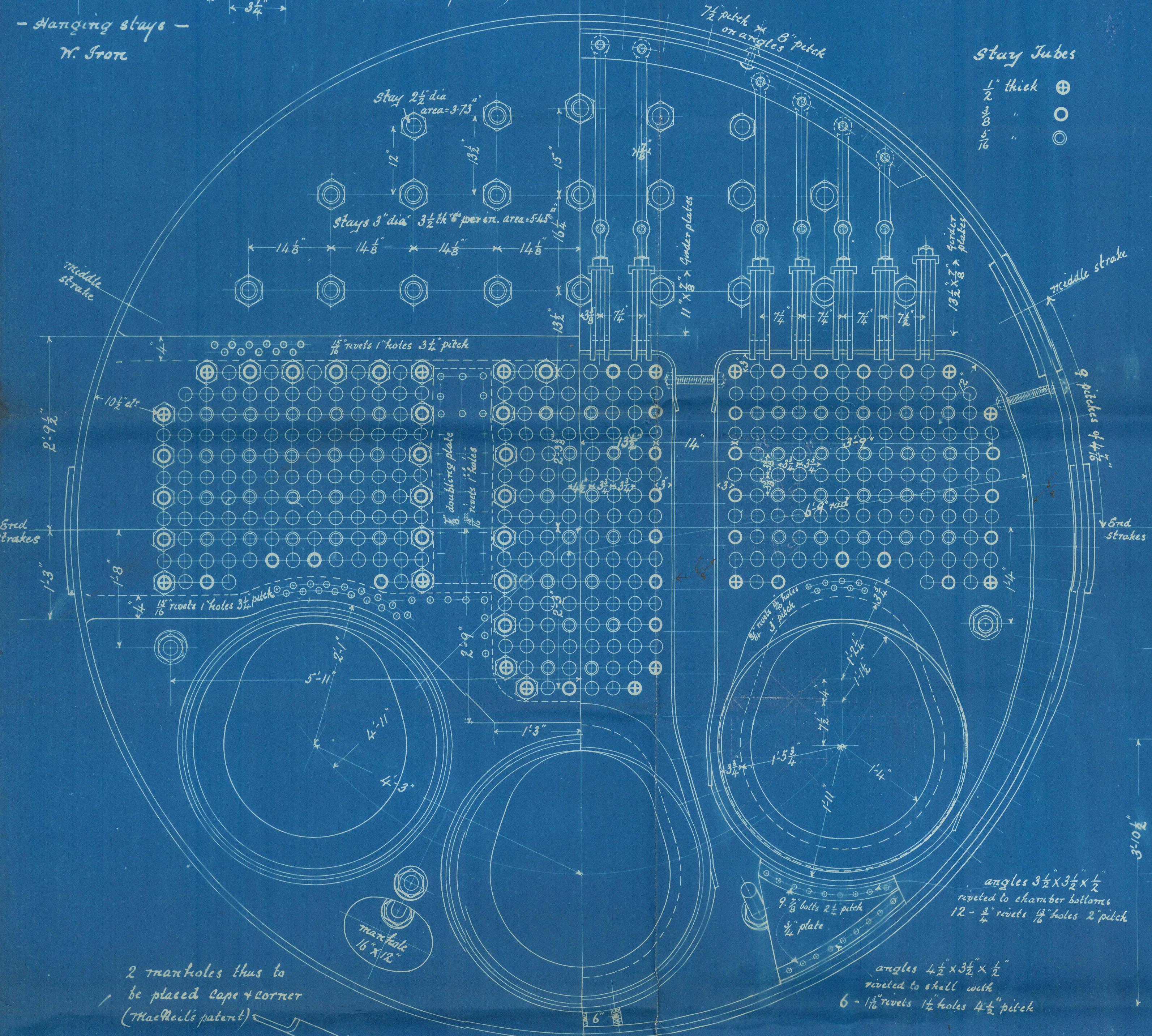
15.12.97



Boiler to be entirely of steel except tubes + hanging stays which are of Iron, also screwed stays in Combustion Chambers which are of Locomotive Iron

Tensile strength of shell plates + straps 29-32 Tons
all other plates 26-30
including Furnaces

Manhole in shell 17" x 12 1/2" (oval) compensating ring 1 1/2" thick (MacNeil's patent)

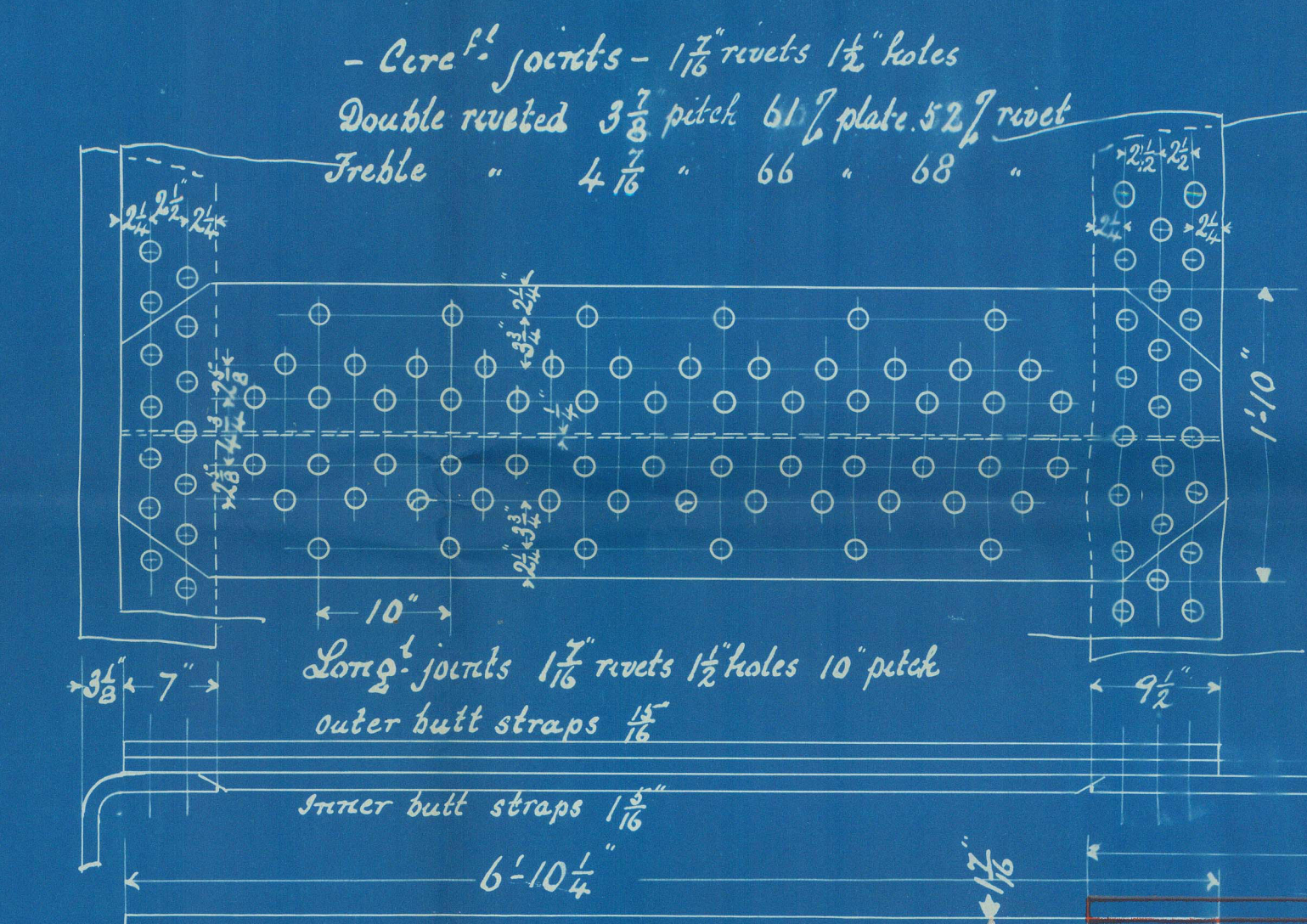


Stay Tubes
1/2" thick
3/8" dia
5/16"

2 manholes thus to be placed Cape + corner (MacNeil's patent)

angles 4 1/2" x 3 1/2" x 1/2" riveted to shell with 6 - 1/8" rivets 1 1/2" holes 4 1/2" pitch

angles 3 1/2" x 3 1/2" x 1/2" riveted to chamber bottoms 12 - 5/8" rivets 1 1/2" holes 2" pitch

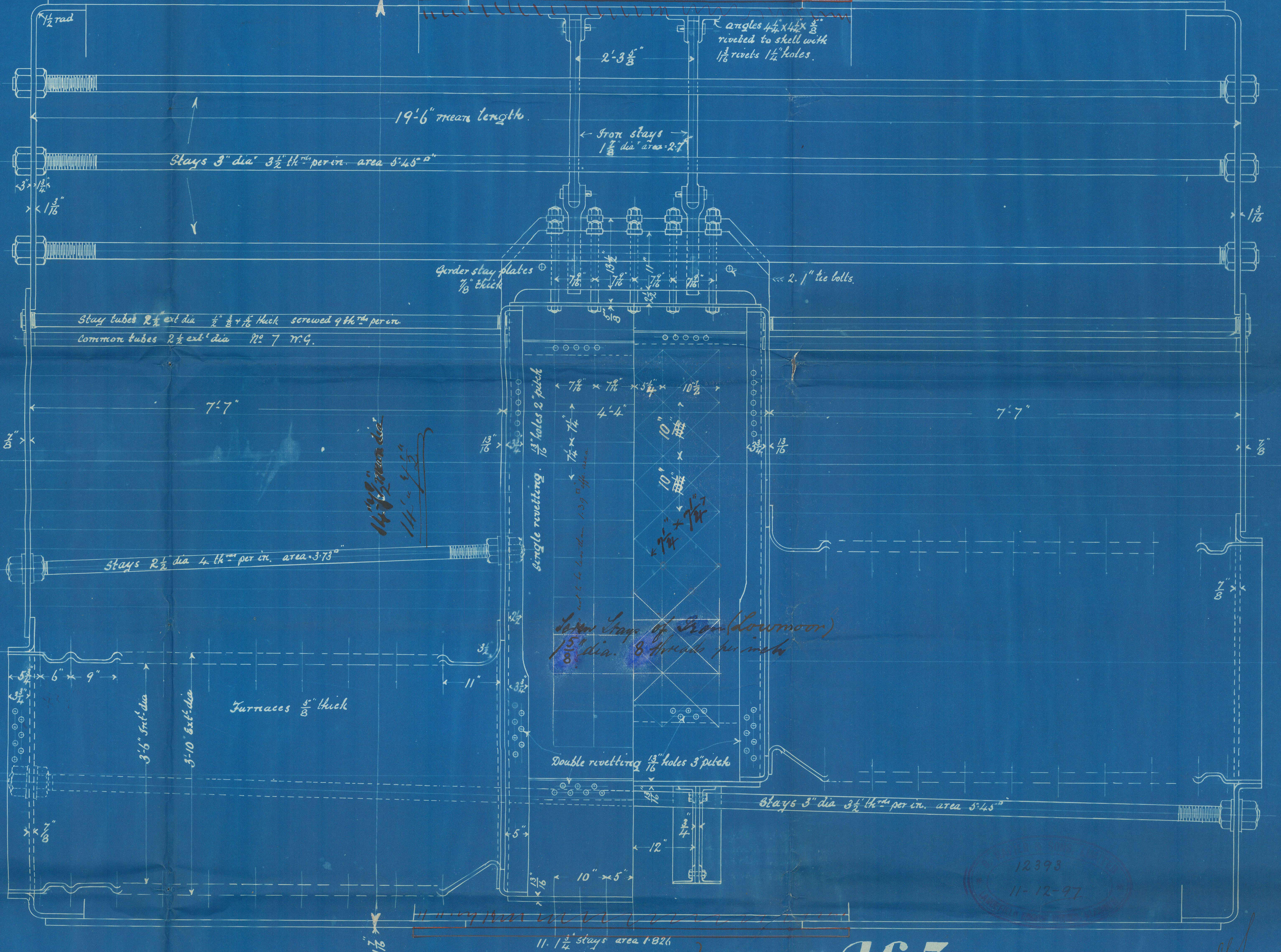


Strength of Long joint -

	Lloyds	-	B. of T
plate	85%		85%
rivet	90-9%		84-669%

To Lloyds + B. of Trade requirements for a working pressure of 200 lbs per sq in
Test " 400 "

To suit Howden's patent Forced Draught.



Stays 3" dia 3 1/2" thick per in. area 5.45"

Furnaces 5/8" thick

11. 1 1/2" stays area 1.826
screwed onto both plates
Stays of Locomotive Iron

463 -
Main Boilers - 2 off

Scale: 1" = 1'-0"



Robt Napier & Sons
 No 463 S/s. Moravian
 Glasgow Report No 16720



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 Foundation