

Midship Section

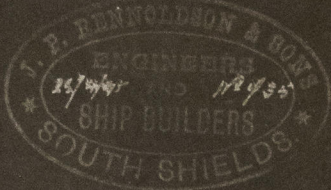
Pennoldson's 168

Steel Screw Tug

Class 100 A1

Dimensions 135 x 24 x 14.5 md

Scale $\frac{3}{4}$ - one foot



Material All Steel excepting Keel, Stem, Stern frame, Rudder, Pillars, Bulkheads, Engine & Boiler seats
Hatchways liners & rivets
Deck plate $4 \times \frac{5}{16}$ ends $\frac{5}{16}$

Proportions

Breadths 5.5
Depths 8.9

$\frac{1}{2}$ Breadth 12.0
 $\frac{1}{2}$ Girth 22.58
Depth as per rule 15.0
49.58

49.58 x 134 = 6643.42

Note

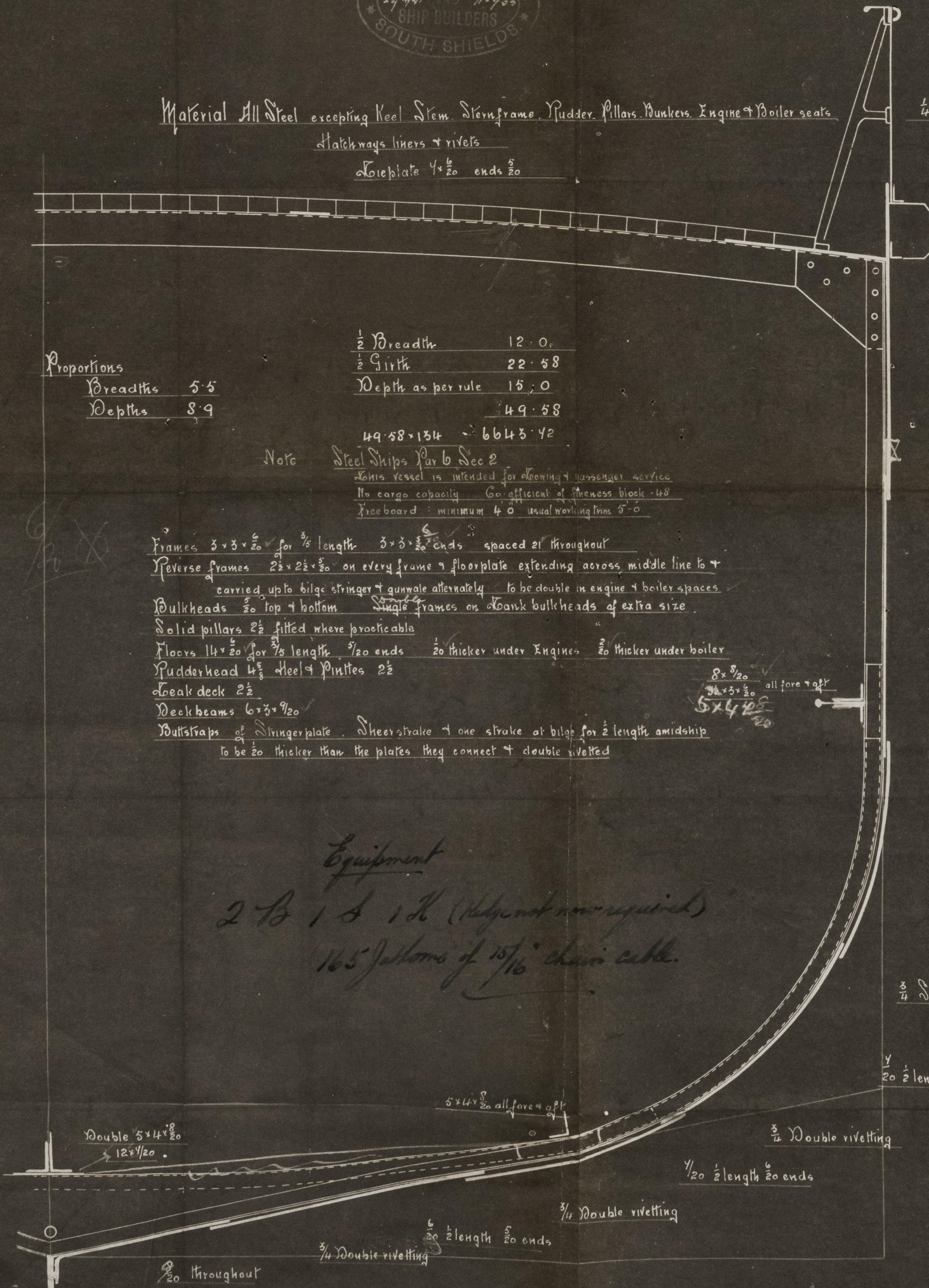
Steel Ships Par 6 Sec 2

This vessel is intended for towing & passenger service
No cargo capacity Co-efficient of fineness block .48
Free board minimum 4.0 usual working trim 5.0

Frames $3 \times 3 \times \frac{5}{16}$ for $\frac{1}{2}$ length $3 \times 3 \times \frac{5}{16}$ ends spaced 21" throughout
Reverse frames $2 \frac{1}{2} \times 2 \frac{1}{2} \times \frac{5}{16}$ on every frame & floorplate extending across middle line to & carried up to bilge stringer & gunwale alternately to be double in engine & boiler spaces
Bulkheads $\frac{5}{16}$ top & bottom Single frames on tank bulkheads of extra size
Solid pillars $2 \frac{1}{2}$ fitted where practicable
Floors $14 \times \frac{5}{16}$ for $\frac{1}{2}$ length $\frac{3}{16}$ ends $\frac{1}{2}$ thicker under Engines $\frac{3}{16}$ thicker under boiler
Rudderhead $4 \frac{1}{2}$ Heel & Pintles $2 \frac{1}{2}$
Deck deck $2 \frac{1}{2}$
Deck beams $6 \times 3 \times \frac{5}{16}$
Bultraps of Stringer plate Sheerstrake & one strake at bilge for $\frac{1}{2}$ length amidship to be $\frac{1}{2}$ thicker than the plates they connect & double rivetted

Equipment

2 B 1 & 1 H (Hulps not now required)
165 fathoms of $1 \frac{1}{16}$ " chain cable.



Stringer plate $28 \times \frac{5}{16}$ ends $19 \times \frac{5}{16}$

Stringer bar $3 \times 3 \times \frac{5}{16}$

$\frac{1}{20}$ length $\frac{5}{16}$ ends

$\frac{3}{4}$ Double rivetting

$\frac{5}{16}$ length $\frac{5}{16}$ ends

$\frac{3}{4}$ Single rivetting

$\frac{1}{20}$ length $\frac{5}{16}$ ends

$\frac{3}{4}$ Single rivetting

$\frac{1}{20}$ length $\frac{5}{16}$ ends

$\frac{3}{4}$ Double rivetting

$\frac{1}{20}$ length $\frac{5}{16}$ ends

$\frac{3}{4}$ Double rivetting

$\frac{5}{16}$ length $\frac{5}{16}$ ends

$\frac{3}{4}$ Double rivetting

$\frac{5}{16}$ throughout

Keel $4 \times 1 \frac{1}{8}$

Stem $6 \frac{1}{2} \times 1 \frac{1}{8}$

Stern frame $6 \frac{1}{2} \times 3 \frac{1}{4}$

J.H.L.
20/5/95



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NWC844-0173

St. L. K. CHAMPION
1895

Midship Section.

(Ware)

Answer
Spencer

Ware 33403



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