

**PARTICULARS FOR FREEBOARD.**

LENGTH AT LOAD LINE.....310' 0"  
 BREADTH REGISTERED.....41' 0"  
 DEPTH.....18' 4"  
 DEPTH MOULDED TO SPAR DECK.....28' 4"  
 ROUND OF BEAM ON SPAR DECK 10' MINIMUM 10'  
 TONNAGE UNDER DECK.....2640 TONS  
 COEFFICIENT.....79  
 SHEER AFT 3' 2" FORWARD.....4' 2"  
 FORECASTLE 2' 36" LONG x 4' 0" HIGH  
 BRIDGE DECK 62' 0" x 4' 3"  
 POOP DECK 30' 0" x 4' 0"

# SCREW STEAMER.

**Nº 156.**

SCALE  $\frac{1}{2}$  = 1 FOOT.

12.7.93  
2.8.93

SHEER STRAKE 40 x  $\frac{1}{2}$ "  
 FOR  $\frac{1}{2}$  LENGTH TO  $\frac{1}{2}$ " AT ENDS.  
 INCREASED  $\frac{1}{2}$ " FOR  $\frac{1}{2}$  LENGTH.  
 DOUBLED AT ENDS OF BRIDGE.

$\frac{1}{2}$ " TO  $\frac{1}{2}$ "  
 INCREASED  $\frac{1}{2}$ " FOR  $\frac{1}{2}$  LENGTH

SHEER STRAKE 42 x  $\frac{1}{2}$ "  
 FOR  $\frac{1}{2}$  LENGTH TO  $\frac{1}{2}$ " AT ENDS

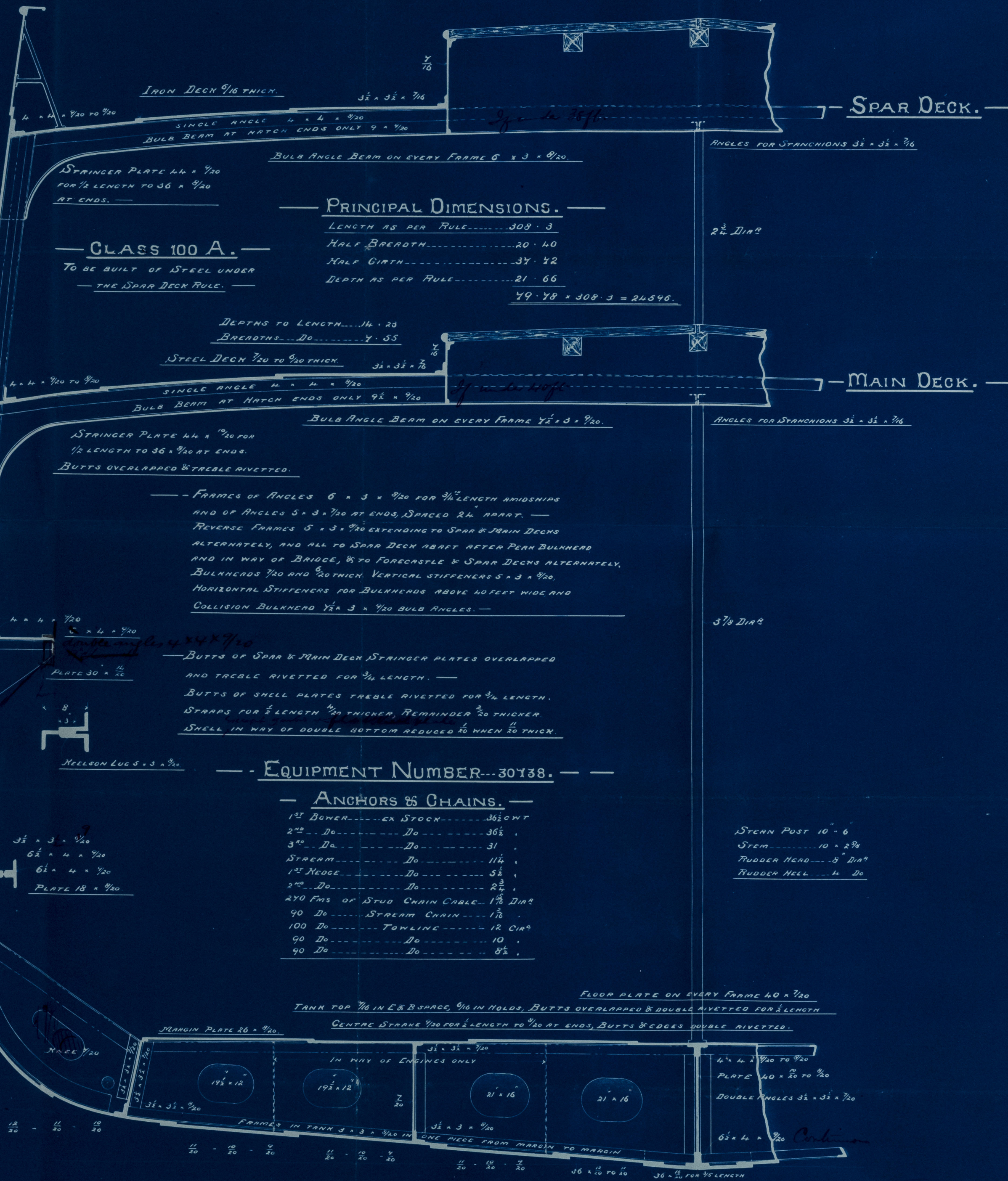
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$\frac{12}{20}$  -  $\frac{11}{20}$  -  $\frac{10}{20}$



**CLASS 100 A.**  
 TO BE BUILT OF STEEL UNDER  
 THE SPAR DECK RULE.

**PRINCIPAL DIMENSIONS.**

LENGTH AS PER RULE.....308' 3"  
 HALF BREADTH.....20' 40"  
 HALF GIRTH.....34' 42"  
 DEPTH AS PER RULE.....21' 66"  
 49' 48" x 308' 3" = 24346.

DEPTHS TO LENGTH.....14' 28"  
 BREADTHS.....4' 55"

STEEL DECK  $\frac{1}{2}$ " TO  $\frac{1}{2}$ " THICK

STRINGER PLATE 44 x  $\frac{1}{2}$ "  
 FOR  $\frac{1}{2}$  LENGTH TO 36 x  $\frac{1}{2}$ " AT ENDS.

BUTTS OVERLAPPED & TREBLE RIVETTED.

FRAMES OF ANGLES 6 x 3 x  $\frac{1}{2}$ " FOR  $\frac{1}{2}$  LENGTH AMIDSHIPS  
 AND OF ANGLES 5 x 3 x  $\frac{1}{2}$ " AT ENDS, SPACED 24" APART.  
 REVERSE FRAMES 5 x 3 x  $\frac{1}{2}$ " EXTENDING TO SPAR & MAIN DECK  
 ALTERNATELY, AND ALL TO SPAR DECK AHEAD AFTER PERK BULKHEAD  
 AND IN WAY OF BRIDGE, & TO FORECASTLE & SPAR DECKS ALTERNATELY.  
 BULKHEADS  $\frac{1}{2}$ " AND  $\frac{1}{2}$ " THICK. VERTICAL STIFFENERS 5 x 3 x  $\frac{1}{2}$ ".  
 HORIZONTAL STIFFENERS FOR BULKHEADS ABOVE 40 FEET WIDE AND  
 COLLISION BULKHEAD  $\frac{1}{2}$ " x 3 x  $\frac{1}{2}$ " BULB ANGLES.

BUTTS OF SPAR & MAIN DECK STRINGER PLATES OVERLAPPED  
 AND TREBLE RIVETTED FOR  $\frac{1}{2}$  LENGTH.  
 BUTTS OF SHELL PLATES TREBLE RIVETTED FOR  $\frac{1}{2}$  LENGTH.  
 STRAPS FOR  $\frac{1}{2}$  LENGTH  $\frac{1}{2}$ " THICKER, REMAINDER  $\frac{1}{2}$ " THICKER  
 SHELL IN WAY OF DOUBLE BOTTOM REDUCED TO WHEN  $\frac{1}{2}$ " THICK.

NELSON LUGS 5 x 3 x  $\frac{1}{2}$ ".

**EQUIPMENT NUMBER--30738.**

**ANCHORS & CHAINS.**

1<sup>ST</sup> BOWER.....EX STOCK.....362 CWT  
 2<sup>ND</sup> Do.....Do.....362  
 3<sup>RD</sup> Do.....Do.....31  
 STREAM.....Do.....114  
 1<sup>ST</sup> HEDGE.....Do.....52  
 2<sup>ND</sup> Do.....Do.....22  
 270 FMS OF STUD CHAIN CABLE.....178 DIA  
 90 Do.....STREAM CHAIN.....178  
 100 Do.....TOWLINE.....12 DIA  
 90 Do.....Do.....10  
 90 Do.....Do.....8 1/2

STEAM POST 10" 6"  
 STEM.....10" x 2 3/4"  
 RUDDER HEAD.....8" DIA  
 RUDDER KEEL.....4" 20

FLOOR PLATE ON EVERY FRAME 40 x  $\frac{1}{2}$ "  
 TANK TOP  $\frac{1}{8}$ " IN L & B SPACE,  $\frac{1}{16}$ " IN HOLDS, BUTTS OVERLAPPED & DOUBLE RIVETTED FOR  $\frac{1}{2}$  LENGTH  
 CENTRE STRAKE  $\frac{1}{2}$ " FOR  $\frac{1}{2}$  LENGTH TO  $\frac{1}{2}$ " AT ENDS, BUTTS & EDGES DOUBLE RIVETTED.

MARGIN PLATE 20 x  $\frac{1}{2}$ ".

IN WAY OF ENGINES ONLY

FRAMES IN TANK 3 x 3 x  $\frac{1}{2}$ " IN ONE PIECE FROM MARGIN TO MARGIN

4 x 4 x  $\frac{1}{2}$ " TO  $\frac{1}{2}$ "

PLATE 40 x  $\frac{1}{2}$ " TO  $\frac{1}{2}$ "

DOUBLE ANGLES 3 1/2 x 3 1/2 x  $\frac{1}{2}$ "

6 1/2 x 4 x  $\frac{1}{2}$ "

BARTHAM HASWELL & CO.

IRON & STEEL SHIPBUILDERS

SOUTH DOCK

SUNDERLAND.



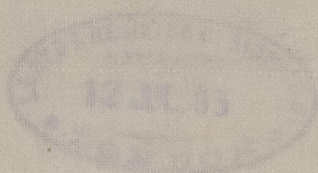
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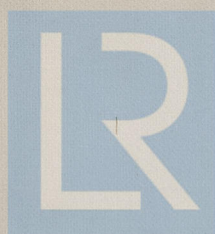
MISS BARTON, MRS. W. W. W.

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S. S. KIRKDALE  
Sunderland Report No. 17297



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