

TYPE "B" STANDARD STEAMERS MIDSHIP SECTION

DIMENSIONS 400'0" x 52'0" x 3'0" MOULDED.
TO CLASS 100 A 1. AT LLOYDS REGISTER.

SCALE 1/2"

EQUIPMENT

2 BOKER ANCHORS - 60 CWT STOCKLESS
1 STREAM 50 1/2" EX STOCK
210 FATHOMS 2 1/2" STUD LINK CHAIN CABLE
74 1/2" STEEL NICE ROPE
2 3/4" 20 FATHOMS 2 1/2"

EQUIPMENT NUMBER

HULL + 00 (52 x 31) = 33200
POOP BRIDGE POLE 200 x 8 x 3 1/2" = 189
DECKHOUSE 31 x 8 x 7 1/2" = 189
TOTAL = 34589

STEEL SECTIONS

COMPLETE LIST OF SECTIONS USED
INCLUDING THIS VESSEL

8 x 5	BULKHEAD
9 x 3	"
10 x 3	"
6 x 3 1/2	ANGLE
6 x 6	"
3 x 3 1/2	"
3 x 3	"

RIVETING TABLES.

SHELL

KEEL BUTTS OVERLAPPED & 4 R. NIPPLE OVER 1/2" REMAINDER 3 R.
BUTTS OF A TO D STRAKES OVERLAPPED 9 1/2" FOR 1/2" L. REMAINDER 3 R. EXCEPT WHERE STRAKES
ARE 8 1/2" IN. WHEN BUTTS ARE TO BE 5 R. FOR 1/2" L. BUTTS OF E TO H STRAKES OVERLAPPED
AND 3 R. FORE & AFT.
BUTTS OF I STRAKE OVERLAPPED AND 4 R. WHERE OVER 6 1/2" REMAINDER 3 R.
BUTTS OF J STRAKE OVERLAPPED & 3 R. IN WAY OF BRIDGE.
BUTTS OF SHEERSTRAKE OVERLAPPED & 3 R. NIPPLE OVER 1/2" FOR 1/2" L. & OUTSIDE 1/2" L.
OVERLAPPED & 4 R. NIPPLE OVER 6 1/2" TO 3 R. BT. ENDS.
BUTTS OF SHEERSTRAKE OVERLAPPED AND 3 R. IN WAY OF BRIDGE.
BUTTS OF BRIDGE SIDE PLATING OVERLAPPED AND 6 R. NIPPLE FITTED IN ONE STRAKE
OVERLAPPED AND 4 R. NIPPLE FITTED IN 2 STRAKES.
BUTTS OF POOP & FORECASTLE SIDE PLATING OVERLAPPED AND 2 R. SHELL LANDINGS 2 R.
ALL FORE & AFT EXCEPT IN POOP & FORECASTLE WHICH ARE TO BE 1 R.

DECK

UPPER DECK STRONGER BUTTS OVERLAPPED AND 4 R. NIPPLE OVER 6 1/2" REMAINDER 3 R.
BUTTS 3 R. IN WAY OF BRIDGE. UPPER DECK STRAKE BEGINNING STRINGER BUTTS
OVERLAPPED AND 4 R. WHERE OVER 6 1/2" OUTSIDE BRIDGE; OVERLAPPED AND 2 R. IN
WAY OF BRIDGE OVERLAPPED & 3 R. OUTSIDE 1/2" L. WHERE OVER 6 1/2" AND NOT
EXCEEDING 6 1/2" AND 2 R. NIPPLE OVER 6 1/2" AND NOT EXCEEDING 6 1/2" REMAINDER SINGLE
REMAINDER OF DECK BUTTS OVERLAPPED AND 2 R. FOR 1/2" L. TO 1 R. AT ENDS
LANDING EDGES 1 R. EXCEPT WHERE MARKED OTHERWISE.
BRIDGE STRINGER BUTTS OVERLAPPED AND 3 R.
BRIDGE PLATING " " 2 R.
POOP AND FORECASTLE STRINGER BUTTS OVERLAPPED AND 2 R.
PLATING " " 1 R.

DOUBLE BOTTOM

CENTRE STRAKE BUTTS OVERLAPPED AND 3 R. FOR 1/2" L. WHERE OVER 4 1/2" REMAINDER 2 R.
PLATING BUTTS OVERLAPPED AND 2 R. FOR 1/2" L. REMAINDER 1 R. AT ENDS
TANK MARGIN BUTTS OVERLAPPED & 3 R. FOR 1/2" L. REMAINDER 2 R. AT ENDS
CENTRE GIRDER BUTTS OVERLAPPED AND 3 R. FORE AND AFT.

KEEL

RIVETS IN SHELL BUTTS & LANDING EDGES.
RIVETS TO BE 1 1/8" DIA. WHERE PLATING IS OVER 3/8" REMAINDER TO BE 1 1/4" RIVETS

SHELL PLATING

RIVETS TO BE 1" DIA. WHERE PLATING EXCEEDS 1/4" 1 1/4" RIVETS WHERE PLATING
IS OVER 1/4" & NOT EXCEEDING 1/2" 1 1/2" DIA. WHERE PLATING IS 1/2" AND UNDER.

UPPER DECK

1" DIA. WHERE PLATING IS OVER 3/8" RIVETS THROUGH BEAMS TO BE 1 1/4" DIA.
WHERE PLATING IS OVER 1/4"

2ND DECK

STRINGER BUTTS OVERLAPPED & 3 R. FORE & AFT.
PLATING BUTTS OVERLAPPED & 2 R. FOR 1/2" L. TO 1 R. AT ENDS.
LANDING EDGES 1 R. FORE & AFT.

NOTE: WHERE IT IS DESIRED TO USE 1 1/4" RIVETS INSTEAD OF 1 1/2", RIVETS, THE SAME SPACING IN DIAS CAN BE ADOPTED.

RIVETS THROUGH SIDE FRAMES & SHELL SPACED 4 DIAS C TO C.

DOUBLE BOTTOM

RIVETS THROUGH FRAMES TO SHELL 4 DIAS C TO C.

PROV. 5/16" FOR 3/8" DIA. C TO C
FLOORS 4 DIAS C TO C FROM 1/2" FOR 3/8" DIA.
TANK TOP 4 DIAS C TO C
CENTRE GIRDER BUTTS SPACED 4 DIAS C TO C
BOTTOM TOP ANGLES SPACED 5 DIAS
CENTRE TO CENTRE IN EACH ROW DOUBLE REELED IN 6" 6" ANGLE
THROUGH CENTRE GIRDER VERTICALS 11 RIVETS IN EACH FLANGE WHERE
SPACED 5 DIAS C TO C WHERE 3 1/2" 5/16"
TANK MARGIN VERTICALS OUTSIDE 12 RIVETS AS PER SECTION
INTERCOSTAL ANGLES TO SMALL TANK TOP 4 RIVETS IN EACH FR. SPACE
TANK MARGIN BUTTS SPACED 4 DIAS C TO C
TOP PLATING BUTTS & EDGES SPACED 4 DIAS C TO C

BULKHEADS

RIVETS THROUGH EDGES & BUTTS OF PLATING SPACED 4 DIAS C TO C
STIFFENERS SPACED 4 DIAS C TO C
FRAMES TO SHELL SPACED 5 DIAS C TO C REELED 2 COMPLETE ROWS
8" DECK TANK TOP 4 DIAS C TO C

DECK

RIVETS THROUGH DECK PLATING TO BEAMS 4 DIAS C TO C
LANDINGS 4 1/2 DIAS C TO C
BUTTS 4 1/2
UPPER DECK STRINGER SPACED 3 1/2 DIAS. WHERE 3 R.
ANGLE IN NIPPLES 4 1/2" C TO C REELED
4 1/2 DIAS C TO C IN EACH REELED ROW
POOP & FORECASTLE
2ND DECK PLATING 4 DIAS C TO C
LANDINGS 4 1/2 DIAS C TO C

SHELL

RIVETS THROUGH BUTTS SPACED 3 1/2 DIAS C TO C WHERE 3 R. 2 R.
4 1/2
LANDINGS 4 1/2
FORE & AFT
SHELL CHOCKS OF D. STRINGERS 4 IN NUMBER IN EACH FRAME 3 1/2"

DOUBLE BOTTOM FRAMES 3 1/2 x 3 1/2 x 40" FOR 1/2" L. & 1/2" L. TO COLLISION BULKHEAD

REVERSE FRAMES 3 1/2 x 3 1/2 x 40" FOR 1/2" L. & 1/2" L. TO COLLISION BULKHEAD

3 1/2 x 3 1/2 x 50" IN BOILER SPACE DOUBLED UNDER BOILER BEAKERS FLOOR PLATES 4 1/2" FOR 1/2" L. TO 3 R. @ ENDS

FLOORS IN BOILER SPACE 50" SOLID FLOORS ON EVERY TANK FRAME EXCEPT IN ENGINE SPACE UNDER BOILER BEAKERS

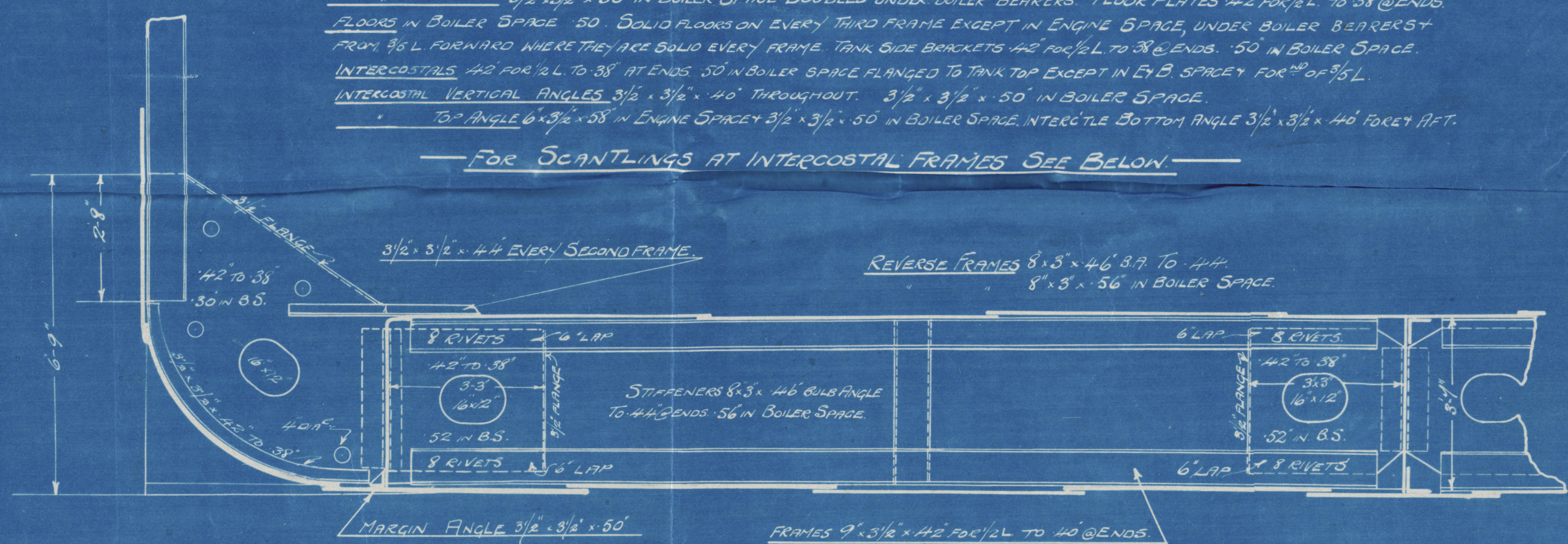
FRONT 1/2" L. FORWARD WHERE THEY ARE SOLID EVERY FRAME TANK SIDE BOWKETS 4 1/2" FOR 1/2" L. TO 3 R. @ ENDS 50" IN BOILER SPACE

INTERCOSTALS 4 1/2" FOR 1/2" L. TO 3 R. @ ENDS 50" IN BOILER SPACE PLANGED TO TANK TOP EXCEPT IN E. B. SPACE FOR 1/2" L. TO 3 R. @ ENDS

INTERCOSTAL VERTICAL ANGLES 3 1/2 x 3 1/2 x 40" THROUGHOUT 3 1/2 x 3 1/2 x 50" IN BOILER SPACE

50" ANGLE 6 x 3 1/2 x 50" IN ENGINE SPACE 3 1/2 x 3 1/2 x 50" IN BOILER SPACE INTERCOSTAL BOTTOM ANGLE 3 1/2 x 3 1/2 x 40" FORE & AFT.

FOR SCANTLING AT INTERCOSTAL FRAMES SEE BELOW



FLAT PLATE KEEL 1/4" x 100" FOR 1/2" L. TO 1 R. @ ENDS

2ND DECK BEAMS

1 1/2 x 3 1/2 x 60" BULB ANGLE ON ALTERNATE FRAMES.
HALF BEAMS ABREAST HATCHWAYS 8 x 3 x 35" BULB ANGLE OUTSIDE ERECTIONS
HALF BEAMS ABREAST E AND B SPACE 8 x 3 x 40" BULB ANGLE INSIDE ERECTIONS

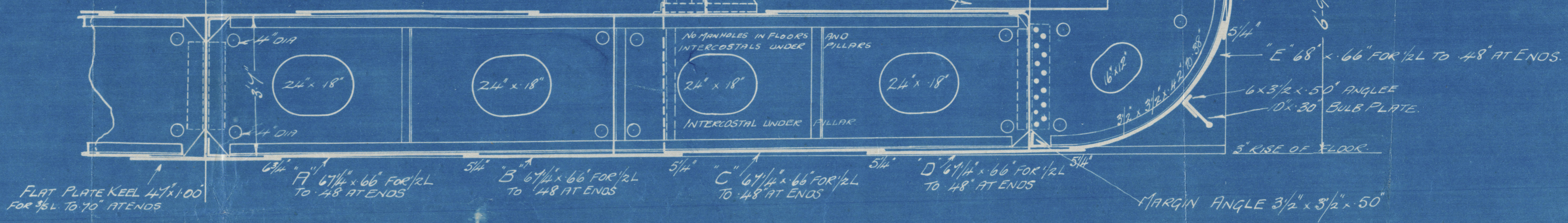
BULKHEADS AS PER RULE
STERN - 10 1/2 x 1 1/2
PROPELLER POST - 10 1/2 x 1 1/2
RUDDER POST - 4 x 1 1/2
CLODDER AS PER RULE
RIVETS FOR SPACING SEE TABLE ALL BUTTS OVERLAPPED

CENTRE GIRDER

4 1/2 x 50" FOR 1/2" L. TO 40" AT ENDS 60" IN BOILER SPACE
BOTTOM ANGLE 6 1/2 x 6 1/2 SINGLE DOUBLE FOR 1/2" L.
TOP ANGLE 6 1/2 x 6 1/2 SINGLE IN ENGINE SPACE
FOR 1/2" L. 3 1/2 x 3 1/2 x 50" TO 40" DOUBLE
VERTICAL ANGLE 6 1/2 x 6 1/2 SINGLE FOR 1/2" L. TO
3 1/2 x 3 1/2 x 40" AT ENDS VERTICAL ANGLE IN B. 6 1/2 x 50"

TANK TOP CENTRE STRAKE 4 1/2 x 50" FOR 1/2" L. TO 40" AT ENDS
TANK TOP PLATING 4 1/2" FOR 1/2" L. TO 3 R. @ ENDS
50" IN BOILER SPACE 4 1/2" IN SPACE CLEAR OF
ENGINE SEAT

PLATING INCREASED .05" IN LIEU OF CEILING UNDER HATCHWAYS



NOTE: 3 STRAKES OF PLATING HAVE MIDSHIP THICKNESS CARRIED FORWARD TO COLLISION BULKHEAD

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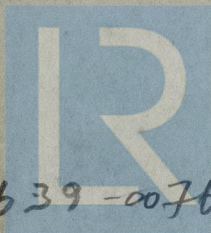
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MIDSHIP SECTION (AS BUILT)

S.S. HINDUSTAN

SUNDERLAND RPT. NO. 27445

1/n "Zingon Maru".



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