

N.B. :- SCANTLINGS GIVEN WITHOUT UNIT TO BE OF $\frac{1}{4}$ "
SECTIONS IN $\frac{1}{4}$ " DENOTE "JAPANESE STANDARD" AND
THOSE IN INCHES DENOTE "YAWATA SEITETSU STANDARD"

PRINCIPAL DIMENSIONS		
LENGTH P.P.	L	140M
BREADTH MOULDED	B	12M
DEPTH	TO UPPER DECK D	10.5M
	TO BRIDGE DECK D'	12.95M
DRAUGHT EXTREME		8.325M

SCANTLING NUMERALS		
1ST LONGITUDINAL NUMERAL	L x D	1.470
2ND	L x (B+D)	4.130
PROPORTION TO UPPER DECK	D	13.33
BRIDGE DECK	D'	10.81
% OF LENGTH OF SUPER STRUCTURES TO		54%

EQUIPMENT NUMBER		
L x (B+D)	141 x (12 + 10.5)	4.159.5
FILE	136 x 230 x 3/4	23.46
POOP	71 x 230 x 3/4	12.25
BRIDGE DECK	34 x 230 x 3/4	10.57
HOUSE	29 x 230 x 3/4	34.08
UPPER BRIDGE DECK HOUSE	28.6 x 230 x 3/4	33.61
BOAT DECK HOUSE	27 x 230 x 3/4	11.40
CASING TOP	112 x 30 x 3/4	1.68
HOSPITAL	40 x 230 x 3/4	4.6
SUM.		4.384.25

EQUIPMENTS		
3-BOWER ANCHORS STOCKLESS	COLLECTIVE WT 220	
1-STREAM ANCHOR ORDINARY	EX STOCK	125.3
STUD CHAIN CABLE	350	640
STEEL WIRE FOR STREAM ANCHOR (SPECIAL FLEXIBLE)	225	380
TOWLINE STEEL WIRE (SPECIAL FLEXIBLE)	240	440
HAWSER (SPECIAL FLEXIBLE STEEL W.R.)	3-185	240
WARPS (MANILLA)	4-185	680
(SPECIAL FLEXIBLE STEEL W.R.)	2-185	280
* SPECIALLY INCREASED IN NUMBER AND SIZE TO OWNERS REQUIREMENTS		

FORGING & CASTING		
STEM: FORGED STEEL WITH FASHION PLATE	AS PER PLAN (RULE SIZE 260 x 70)	
STERN FRAME, STERN POST (RULE SIZE 280 x 225)		
RUDDER	() * 280 x 225	
DETAILS AS PER PLAN		

KEEL & SHELL PLATING		
KEEL PLATE	1340 x 22.5	20.5
BOTTOM	18	13
SIDE	175	12
POOP		
FILE SIDE PLATE	11	
BRIDGE	16.5	
POOP	10	
SHEER STRAKE	1900 x 28	12
STRAKE BELOW SHEER STRAKE	2130 x 175	12
SHEER STRAKE DOUBLED AT BRIDGE ENDS WITH PLATE 175		

ENGINE CASING		
COAMING PLATE	7.5 (8.5 WHERE EXPOSED)	
CASING	6.5	
COAMING ANGLE	75 x 75 x 9 A	
STIFFENERS	75 x 45 x 8 A OR 75 x 9 F.B.	
SPACING	ABOUT 800	

DOUBLE BOTTOM		
CENTRE GIRDER	PLATE 170 x 175 x 11.5	1860 x 13.9
KEEL ANGLE	130 x 130 x 11.5 A	180 x 13.5 A
TOP	20 x 20 x 11.5 A	20 x 20 x 12 A
VERT. PL.	20 x 20 x 11.5 A	130 x 130 x 12 A
PLATE	11.5	11.5
SIDE GIRDER	PLATE 70 x 70 x 11.5 A	90 x 90 x 11.5 A
TOP	20 x 20 x 11.5 A	AS PER PLAN
VERT. PL.	75 x 75 x 10 A	130 x 130 x 12 A
PLATE	11	12
SOLID FLOOR	PLATE 20 x 20 x 11.5 A	90 x 90 x 11.5 A
REV. FRAME	90 x 75 x 11.5 A	130 x 130 x 13 A
W.T.	12.5	12.5
BOUNDARY A	20 x 20 x 12.5 A	90 x 90 x 12.5 A
STIFFENER	150 x 75 x 9.5 A	100 x 75 x 10.5 A
INNER M.L. STRAKE	1350 x 13	11
OTHER	11.5 x 10.5 x 10	13.5
BOTTOM	MARGIN PLATE 905 x 14	14
TOP A BOTTOM A	130 x 130 x 13 A	SHELL ANGLE AT AFT END
N.B.	DETAILS OF ENGINE SEATING AND OPEN FLOOR AS PER PLAN	

STRENGTHENING OF BOTTOM FORWARD		
FROM FORWARD OF 1/2 L TO COLLISION BMD		
PITCH OF RIVET IN FRAMES 5 x D (EACH ARMS OF DOUBLE ANGLE FRAMES 5)		
DOUBLE ANGLE FRAMES 5) FROM MARGIN PLATE TO MARGIN PLATE INTERCOSSES		
FITTED NOT MORE THAN 1050 ADAPT. & HALF HEIGHT		
GIRDERS EXTENDED AS FAR FORWARD AS PRACTICABLE		
SHELL PLATING - THREE STRAKES NEXT TO THE KEEL 20 IN THICKNESS (10% IN EXCESS OF MIDSHIP THICKNESS) ESPECIALLY 25 IN THICKNESS IN WAY OF BOTTOM PLAT. PART		

FRAMING		
FRAME DEPTH (4)		
IN WAY OF CARGO HOLD	6.4M	
" " " " " " " "	3.7M	
" " " " " " " "	7.5M	
FRAME SPACE		
BOTH PEAKS	600	
P.N. 1/2 - COLLISION BMD	650	
OTHER SPACE	800 (RULE 7675)	

TANK SIDE BRACKET & GUSSET ATTACHMENT		
TANK SIDE BRACKET	17.5	11.5
GUSSET PLATE	17.5	11.5
NE OF TOP FRAME	18 x 225 RIV.	17 x 210 RIV.
TO GUSSET	8 x 220 RIV.	40 x 220 RIV.
TO ANGLE	25 x 220 RIV.	18 x 220 RIV.
HT OF TANK SIDE BR.	5.850	1.800
VERT. ANCHOR PL.	130 x 130 x 12 A	130 x 130 x 12 A
" " " " " " " "	130 x 130 x 12 A	130 x 130 x 12 A
WHERE TANK TOP IS FLAT, TANK SIDE BRACKET EXTEND 220 ABOVE TANK TOP		

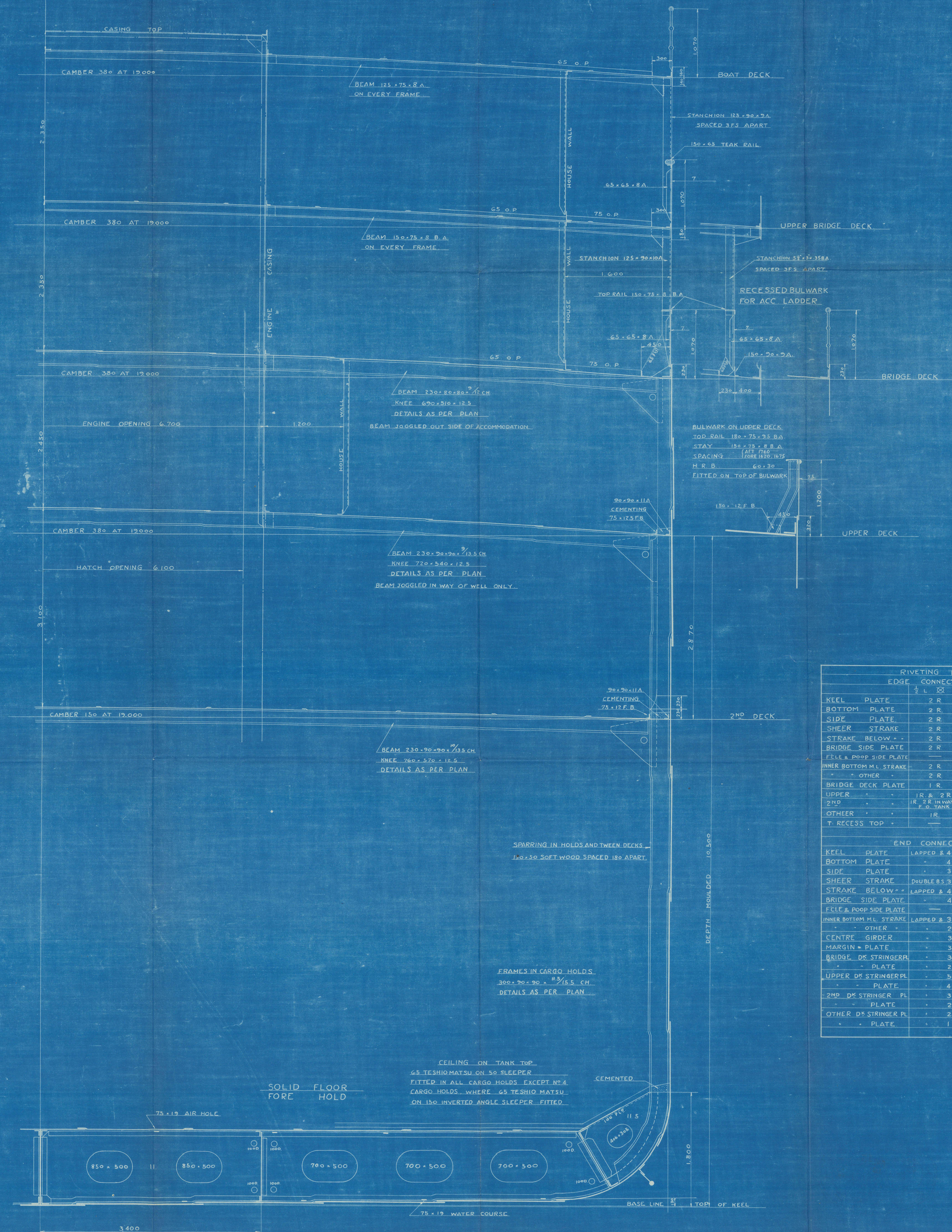
DECK HOUSES		
COAMING PLATE	7	7
HOUSE PLATE	6	6
COAMING ANGLE	75 x 75 x 9 A	130 x 130 x 9 A
TOP ANGLE	75 x 75 x 9 A	130 x 130 x 9 A
STIFFENERS	75 x 9 F.B.	75 x 9 F.B.
SPACING OF STIF.		800

BILGE KEEL		
LENGTH	22.2M (T. 6.2 - F. 11.5)	
PLATE	210 x 125 WITH 65 SOLID R. C/WELDED	
CONNECTING BAR	130 x 130 x 12 A	
DEPTH OF KEEL	330	

DECKS		
STRINGER PLATE	315 x 10.5	205 x 10
ANGLE	20 x 20 x 11 A	20 x 20 x 10 A
DECK PLATE	10 (RULE 9)	10
2ND DECK		
STRINGER PLATE	210 x 11.5	965 x 9
ANGLE	20 x 20 x 11.5 A	20 x 20 x 11 A
INSIDE	75 x 12 F.B.	75 x 12 F.B.
DECK PLATE	10	8.5
WITHIN LINE OF OPENING	11.5	9
STRINGER PLATE DOUBLED AT BRIDGE ENDS WITH PLATE 175		

UPPER DECK		
STRINGER PLATE	2000 x 27	1040 x 11
ANGLE	20 x 20 x 11.5 A	20 x 20 x 11 A
INSIDE	75 x 12 F.B.	75 x 12 F.B.
DECK PLATE	10	8.5
WITHIN LINE OF OPENING	11.5	9
STRINGER PLATE DOUBLED AT BRIDGE ENDS WITH PLATE 175		

BRIDGE DECK UP BRIDGE DECK BOAT DECK		
STRINGER PLATE	1300 x 14.5	1260 x 8
ANGLE	20 x 20 x 11.5 A	20 x 20 x 11 A
G.W. WAY	45 x 22.5	65 x 9 F.B.
DECK PLATE	11.5	6.5
WITHIN LINE OF OPENING	10.5	
WOODEN PLANK	100 x 100 x 10	65 x 10
CURTAIN PLATE		300 x 7
DECK PLATE IN WAY OF BATH & W.C.	7.5	



RIVETING NOTE		
EDGE CONNECTION	1/2 L	AT ENDS
KEEL PLATE	2 R	2 R
BOTTOM PLATE	2 R	2 R
SIDE PLATE	2 R	2 R
SHEER STRAKE	2 R	2 R
STRAKE BELOW	2 R	2 R
BRIDGE SIDE PLATE	2 R	2 R
FILE & POOP SIDE PLATE	1 R	
INNER BOTTOM M.L. STRAKE	2 R	2 R
OTHER	2 R	2 R
BRIDGE DECK PLATE	1 R	
UPPER	1 R & 2 R	1 R
2ND	1 R & 2 R	1 R
OTHER	1 R	1 R
T. RECESS TOP	1 R	1 R

END CONNECTION		
KEEL PLATE	LAPPED & 4 R	LAPPED & 4 R
BOTTOM PLATE	4 R	3 R & 4 R
SIDE PLATE	3 R	3 R
SHEER STRAKE	DOUBLE & 3 R	4 R & 3 R
STRAKE BELOW	LAPPED & 4 R	4 R & 3 R
BRIDGE SIDE PLATE	4 R	
FILE & POOP SIDE PLATE	LAPPED & 1 R	
INNER BOTTOM M.L. STRAKE	LAPPED & 3 R	2 R
OTHER	2 R	2 R
CENTRE GIRDER	3 R	3 R
MARGIN PLATE	5 R	3 R
BRIDGE DECK STRINGER	3 R	
PLATE	2 R	
UPPER DECK STRINGER PL.	5 R	LAPPED & 3 R
PLATE	4 R	1 R
2ND DECK STRINGER PL.	3 R	2 R
PLATE	2 R	1 R
OTHER DECK STRINGER PL.	2 R	2 R
PLATE	1 R	1 R

Nagasaki Report No. 2584.

S.N. 687

M.S. "ASAKA MARU"

MIDSHIP SECTION

SCALE 1/25

140M x 19M x 10.5M

(FINISHED PLAN)

河谷 博
1972



Lloyd's Register
Foundation

013240-013244-0173