

M.S. "SHUNTEN-MARU."

MIDSHIP SECTION.

SCALE 1/2" TO ONE FOOT.

PRINCIPAL DIMENSIONS.		
LENGTH	(L.)	405'-0"
BREADTH	(B.)	55'-0"
DEPTH	(D.)	32'-0"
LOADED DRAUGHT ABOVE BOTTOM OF KEEL		25'-7 1/2"

SCANTLING NUMERALS.		
1 ST LONGITUDINAL NUMERALS	L x D	12,260
2 ND " " "	L x (B+D)	35,235
PROPORTION TO UPPER DECK	L/D	12.66
" " BRIDGE " "	"	10.25
FRAMING DEPTH CORRECTED FOR T.S. B ^{KT} BEAM KNEES (4) 18.63		

EQUIPMENT NUMBER		
L x (B+D)	405 x (55+32)	= 35,235
F ^{CE} DECK	40.21 x 75 x 3/4	= 226
BRIDGE "	115.50 x 75 x 3/4	= 650
POOP DECK	44.29 x 75 x 3/4	= 249
BRIDGE D ⁵ HOUSE	57.75 x 8 x 1/2	= 231
CASING	35.75 x 2 x 1/2	= 36
		36627

EQUIPMENT		
3-BOWER ANCHOR STOCKLESS COLLECTIVE		182 CWT'S
1-STREAM ANCHOR (EX. STOCK)		17 1/2"
CHAIN CABLE (STUD)	270 FMS.	2 1/2 DIA
STEEL WIRE ROPE FOR STREAM ANCHOR	90 "	4 1/2 CIR
TOW LINE STEEL WIRE	120 "	5 CIR
HAWSEERS MANILA	2-90 "	8 CIR
WARPS "	2-90 "	7 CIR

FORGING & CASTINGS		
STEM (ROLLED MILD STEEL)		10 x 2 1/2
STERN FRAME WITH APERTURE RUDDER POST		9 x 8
PROPELLER POST		10 1/2 x 8

KEEL & SHELL PLATING		
KEEL PLATE	50'-80" x 70"	
BOTTOM PLATE	.66" x 57' x 48"	
SIDE PLATE	.66" x 50' x 46"	
BOSS PLATE (FURNACE PLATE)	.72"	
F ^{CE} SIDE PLATE	.42"	
BRIDGE " "	.60"	
POOP " "	.38"	
SHEER STRAKE (IN WAY OF LONG BRIDGE .66")	50'-87" x 50' x 46"	
BELOW SHEER STRAKE (IN WAY OF LONG BRIDGE .66")	50'-75" x 50' x 46"	

RIVETING NOTE		
END CONNECTION.	FOR 1/2 L. D.	AT ENDS.
KEEL PLATE	LAPPED 4R	LAPPED 3R
BOTTOM PLATING	" " "	" " "
SIDE PLATING	" 3R	" "
SHEER STRAKE	" 5R	" 4R x 3R
STRAKE BELOW SHEER STRAKE	" 4R	" "
BRIDGE SIDE PLATING	" 3R	" "
F ^{CE} " "	" "	" 1R.
POOP " "	" "	" "
INNER BOTTOM M.L. STRAKE	" 3R	" 2R.
" " OTHER "	" 2R.	" 2R.
MARGIN PLATE	" 3R	" 3R.
CENTRE GIRDER PLATE	" "	" "
POOP DECK STRINGER PLATE	" "	" 1R.
" " PLATE	" "	" "
BRIDGE DECK STRINGER PLATE	" 3R	" "
" " PLATE	" 2R.	" "
F ^{CE} DECK STRINGER PLATE	" "	" 1R.
" " PLATE	" "	" "
UPPER DECK STRINGER PLATE	" 5R	" 2R.
" " PLATE (IN WAY OF BRIDGE)	" 2R	" "
" " PLATE	" 3R x 2R	" 1R.
" " PLATE (IN WAY OF BRIDGE)	" 2R	" "
2 ND DECK STRINGER PLATE	" 2R	" 2R.
" " PLATE	" 2R	" 1R.
BOAT DECK STRINGER PLATE	" 1R	" "
" " TIE PLATE	" 1R	" "

DOUBLE BOTTOM.		
PLATE	1/2 L. D. TO ENDS	REMARKS
CENTRE GIRDER	44' x 54" - 44"	IN ENGINE SPACE
BOTTOM ANGLE	4' x 4' x 58" - 54" A	4' x 4' x 58" D. A.
TOP "	3 1/2' x 3 1/2' x 52" - 48" A	3 1/2' x 3 1/2' x 52" D. A.
VERT. "	3 1/2' x 3 1/2' x 42" S. A.	5' x 5' x 42" S. A.
PLATE	40' x 44" WHEREVER	.40"
SIDE GIRDER	3 1/2' x 3 1/2' x 42" S. A.	3 1/2' x 3 1/2' x 42" S. A.
BOTTOM ANGLE	3 1/2' x 3 1/2' x 42" S. A.	5' x 5' x 42" S. A.
TOP "	3 1/2' x 3 1/2' x 42" S. A.	5' x 5' x 42" S. A.
VERT. "	3' x 3' x 38" S. A.	3' x 3' x 38" S. A.
PLATE	42" AT 33' FR. SPACE	.42"
SOLID FRAME	3 1/2' x 3 1/2' x 42" S. A.	3 1/2' x 3 1/2' x 42" S. A.
REV. FRAME	3 1/2' x 3 1/2' x 42" S. A.	5' x 5' x 42" S. A.
W.T. & T. FLOOR	48"	
STIFFENER	3 1/2' x 3 1/2' x 42" S. A.	3 1/2' x 3 1/2' x 42" S. A.
INNER M.L. STRAKE	51' x 50" - 42"	.52"
BOTTOM OTHER	42" - 40" AT 33' F.S.	.52"
MARGIN PL.	36' x 54" - 36' x 52"	.54"
OPEN FLOOR	AS PER SKETCH	

BILGE KEEL		
LENGTH	ABOUT 160 FT. AMIDSHIPS	
BULB PLATE	10' x 44" SHELL ANGLE 5' x 5' x 42" A.	
DEPTH OF GIRDER	12"	

FRAME SPACE		
24' APART IN BOTH PEAKS.		
27' APART FOR FORWARD OF 3/5 L. D. TO COLLISION B ^{HD}		
33' ELSE WHERE (RULE SPACING 22')		

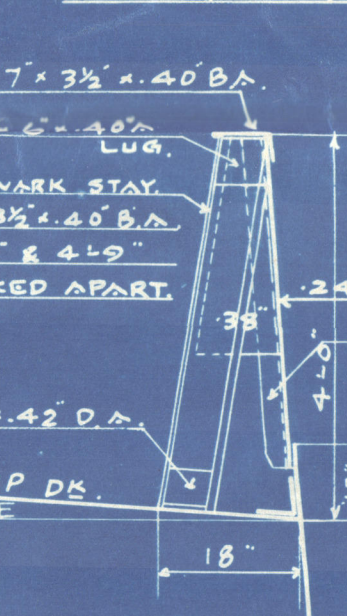
OPEN FLOOR		
TO BE FITTED TO EVERY 3 RD FRAME EXCEPT IN ENGINE SPACE.		
FORWARD OF 3/5 L. D. AT NARROW ENDS UNDER DEEP TANK TO EVERY 2 ND FRAME		
33'	TO BE FITTED TO EVERY 3 RD FRAME EXCEPT IN ENGINE SPACE.	33'
6'-3/4" D. RIV.	4'-3/4" D. RIV.	6'-3/4" D. RIV.
2'-3/4" D. RIV.	4'-3/4" D. RIV.	2'-3/4" D. RIV.
7'-3/4" x 34" B. A.	4'-4 1/2"	4'-4 1/2"
11'-0"		



DECK HOUSE		
HOUSE PLATE	UPPER D ⁵	BRIDGE D ⁵
D ⁵ ANGLE	5' x 3' x 30" A.	5' x 3' x 30" A.
TOP ANGLE	2 1/2' x 2 1/2' x 25" A.	4' x 3' x 30" A. x 2 1/2' x 2 1/2' x 25" A.
STIFFENER	3' x 3' x 30" A. x 2 1/2' x 2 1/2' x 25" A.	3' x 3' x 30" A. x 2 1/2' x 2 1/2' x 25" A.
" SPACE	ABOUT 33' SPACED	ABOUT 36' SPACED

CASING		
CASING PLATE	.25"	
COAMING PLATE	.30" x .34" WHERE EXPOSED	
" ANGLE	3' x 3' x 30" A. x 2 1/2' x 2 1/2' x 25" A.	
STIFFENER	3' x 2 1/2' x 30" A.	
STIFFENER SPACE	ABOUT 30" APART	

BULWARK.



SKETCH OF BEAM KNEE & FRAME CONNECTION.

21' BREADTH FOR 8' DEPTH B.A. BEAM 5-7/8 D. RIV.	
27' " " " " " 7-7/8 D. RIV.	
24' " " " " " 6-7/8 D. RIV.	
15' DEPTH 5-7/8 D. RIV.	
12' " " " " " 4-7/8 D. RIV.	
24' DEPTH FOR 8' DEPTH B.A. BEAM 5-7/8 D. RIV.	
30' " " " " " 10-7/8 D. RIV.	
27' " " " " " 9-7/8 D. RIV.	

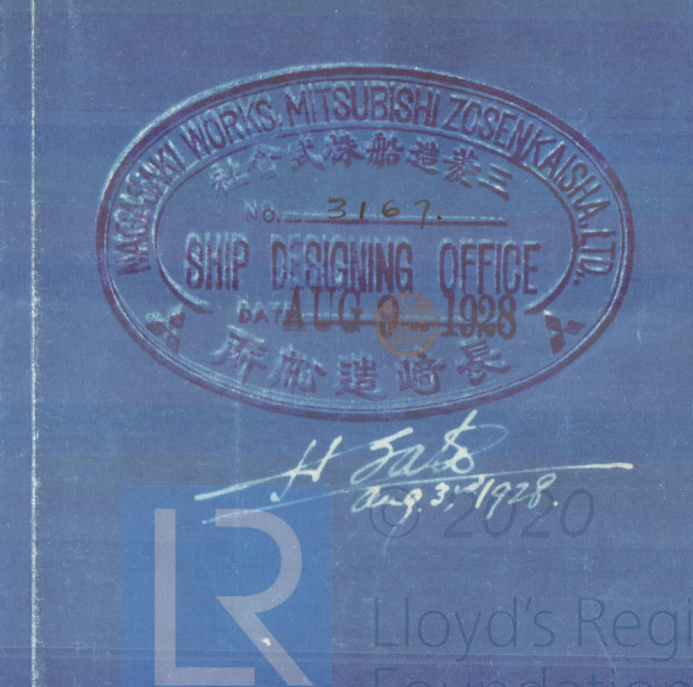
DECK		
STRINGER PL.	35' x 36"	36' x 36"
" ANGLE	3 1/2' x 3 1/2' x 36" A.	3 1/2' x 3 1/2' x 36" A.
DECK PLATE	.34"	.30"
" PLANK		2 1/2" O.P.
CURTAIN PLATE		2 1/2" O.P.
D ⁵ BEAM KNEE		AS PER PROFILE

DECK		
2 ND DECK	UPPER DECK	120' BRIDGE ENDS
STRINGER PL.	47' x 40' x 34" - 35' x 34"	58' x 36" - 39' x 42"
" ANGLE	3 1/2' x 3 1/2' x 34" A.	3 1/2' x 3 1/2' x 34" A.
ATTACHMENT PLATE FL. B ^{KT} (F.S.)	6' x 6' x 86" A.	FOR 1/2 L. D.
TO SHELL	3 1/2' x 3 1/2' x 34" A.	3 1/2' x 3 1/2' x 34" A.
G.W. WAY ANGLE		6' x 6' x 86" A.
DECK PLATE	.36" x 34' x 30" - 30"	.68' x 41' - 36"
DECK PLANK		36' x 34" UNDER BRIDGE
D ⁵ BEAM KNEE		2 1/2" O.P. IN CREW'S QUARTER
		AS PER PROFILE

FRAME BRACKET & MARGIN PLATE CONNECTION		
TANK SIDE BRACKET	3 1/2' x 3 1/2' x 42" S. A.	3 1/2' x 3 1/2' x 42" S. A.
MARGIN PLATE SHELL ANGLE	3 1/2' x 3 1/2' x 42" S. A.	3 1/2' x 3 1/2' x 42" S. A.
% FRAME BRACKET	14'-7/8 D. RIV.	12'-7/8 D. RIV.
% FRAME BRACKET	9'-7/8 D. RIV.	8'-7/8 D. RIV.

STRENGTHENING OF BOTTOM FORWARD		
FOR FORWARD OF 3/5 L. D. TO COLLISION BULKHEAD		
PITCH OF RIVET IN FRAME TO BE 5 1/2" DIA.		
FRAME ANGLE 5' x 5' x 42" A. FROM MARGIN PLATE TO MARGIN PLATE.		
INT. ADDITIONAL SIDE GIRDER TO BE FITTED AT 8'-0" APART 1/2 HEIGHT		
GIRDER EXTENDING AS FAR AS PRACTICABLE (SEE PROFILE)		
FLOOR PLATE OR INTERCOSTALS ARE NOT TO BE FLANGED		
SHELL PLATING THREE STRAKES NEXT THE KEEL TO HAVE		
MIDSHIP THICKNESS .66" MAINTAINED 8'-62" IN WAY OF 27' F.S.		

M.S. "SHUNTEN-MARU."
MIDSHIP SECTION.
(405'-0" x 55'-0" x 32'-0")
SCALE: 1/2" TO 1'
(FINISHED PLAN)



M.S. "SHUNTEN-MARU."
MIDSHIP SECTION.
(405'-0" x 55'-0" x 32'-0")
SCALE:- $\frac{1}{2}$ " ^{IN.} TO 1' ^{FOOT.}
(FINISHED PLAN.)



H. J. J.
Aug. 3, 1928.

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