

PRINCIPAL DIMENSIONS.		
LENGTH (L)	405'-0"	
BREADTH MOULDED (B)	55'-6"	
DEPTH (D)	32'-6"	
LOADED DRAUGHT (EXTREME)	26'-0"	

SCANTLING NUMERALS		
1ST LONGITUDINAL NUMERALS (LAD)	13, 16, 25	
2ND " " " (LAD)	35, 40	
PROPORTION TO UPPER DECK	1/6	12.46
" " BRIDGE DECK	"	10.06
% OF LENGTH OF SUPERSTRUCTURES TO SHIP'S LENGTH	51	

EQUIPMENT NUMBERS		
Lx(B+D)	405 x (55.5+32.5)	35,640
FILE DE	38.38 x 75 x .75	216
BRIDGE DE	137.5 x 75 x .75	800
POOP DE	30.12 x 75 x .75	169
BRIDGE DE HOUSE	97.75 x 75 x .50	379
PROMENADE DE HOUSE	91.25 x 75 x .50	354
BOAT DE HOUSE	190 x 75 x .50	74
ENGINE CASING	40 x 10 x .50	20

EQUIPMENTS (LETTER & T)		
3-BOWER ANCHORS, STOCKLESS, COLLECTIVE	194 1/2	CVTS
1-SHEAR ANCHOR, ORDINARY (EX. STOCK)	19	"
SLUD CHAIN CABLE	270 FMS	2 1/2" D.
STEEL WIRE FOR SHEAR ANCHOR	1-90 FMS	5" CIR
TOW LINE, STEEL WIRE (SPECIAL FLEXIBLE)	1-120 FMS	4 1/4" CIR
HAWSERS, MANILA	2-90 FMS	8" CIR
WARPS	2-90 FMS	7" CIR

FORGING & CASTING		
STEM	10 1/2" x 2 1/2" FASHION PLAT TOP	
STERN FRAME	RULE SIZE { RUDDER POST 8" x 8 1/2" CONTRA PROPELLER, PROPELLER POST 10 1/2" x 8 1/2" } AS PER PLAN	

KEEL & SHELL PLATING		
KEEL PLATE	50' x 81' ~ .71"	
BOTTOM	.66 ~ .52' x .48'	
SIDE	.66 ~ .50' x .46'	
BOSS PLATE	.72"	
BRIDGE SIDE PLATE	.59"	
FILE	.42"	
POOP	.38"	
SHEER STRAKE	60' x 84' ~ .50' x .46' (INCREASED 30" IN WAY OF WELL)	
STRAKE BELOW	84' x 72' ~ .50' x .46'	

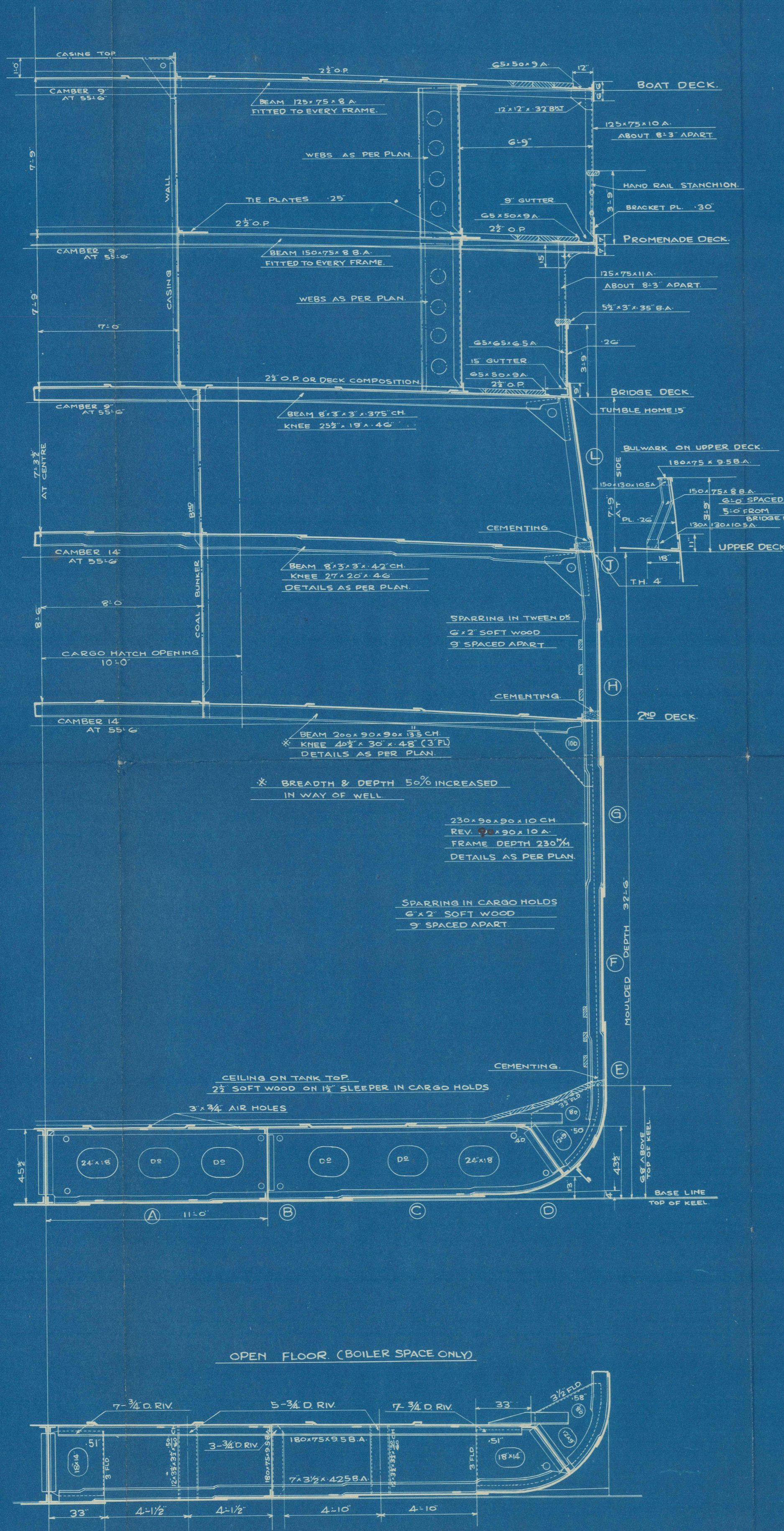
ENGINE CASING		
COAMING PLATE	.30', .34' WHERE EXPOSED	
CASING PLATE	.26', .30' " " "	
COAMING ANGLE	75 x 75 x 7.5 A, 75 x 75 x 8.5 A EXPOSED	
STIFFENERS	75 x 65 x 7.5 A 33' APART	

DECK HOUSES			
HOUSE PLATE	BRIDGE DECK	PROMENADE DECK	BOAT DECK
HOUSE PLATE	.30	.28	.25
COAMING ANGLE	150 x 90 x 9 A	150 x 90 x 9 A	150 x 90 x 9 A
TOP	75 x 75 x 8 A	75 x 75 x 7.5 A	75 x 75 x 7.5 A
STIFFENERS	90 x 75 x 7.5 A	75 x 65 x 7.5 A	75 x 65 x 7.5 A
" SPACING	ABOUT 33"	ABOUT 33"	ABOUT 33"
ALL DIVISIONAL WALLS	.25' x .20'	.25' x .20'	.25' x .20'

BILGE KEELS		
PLATE WITH HALF ROUNDO	16' x 44' 2 1/2" x 1 1/2" H.R.	
CONNECTION ANGLE	125 x 90 x 11 A	
DEPTH OF GIRDER	12"	

DOUBLE BOTTOM				
	PLATE	1/2 L ~ ENDS	ENGINE SPACE	BOILER SPACE
CENTRE GIRDER	KEEL ANGLE	100 x 100 x 14.5 D A ~ 13.5 D A	100 x 100 x 14.5 D A	100 x 100 x 14.5 D A
	TOP ANGLE	90 x 90 x 13.0 A ~ 12.0 A	90 x 90 x 13.0 A	90 x 90 x 13.0 A
	VERT. PLATE	90 x 90 x 10.5 A	130 x 130 x 10.5 A	90 x 90 x 13.0 A
	PLATE	.40"	.40"	.50"
SIDE GIRDER	BOTTOM ANG.	90 x 90 x 10.5 A	90 x 90 x 10.5 A	90 x 90 x 10.5 A
	TOP	90 x 90 x 10.5 A	90 x 90 x 10.5 A	90 x 90 x 13.0 A
	VERT. PLATE	75 x 75 x 9.5 A	75 x 75 x 9.5 A	75 x 75 x 12 A
	PLATE	.42 ~ .40 39 FMS UNDER	.42"	.51"
SOLID FLOOR	FRAME	90 x 90 x 10.5 A	90 x 90 x 10.5 A	90 x 90 x 10.5 A
	REV. FRAME	90 x 90 x 10.5 A	90 x 90 x 10.5 A	90 x 90 x 13.0 A
	BKT PLATE			.51"
OPEN FLOOR	FRAME			7' x 3 1/2" x 42.68 A
	REV. FRAME			180 x 75 x 9.5 B A
	STRUT			180 x 75 x 9.5 B A
	STIFF. BETWEEN			12' x 38' x 35' 30 A
W.T. FLOOR	PLATE	.48"	.48"	.51"
	BOUNDARY A	90 x 90 x 12 A	90 x 90 x 12 A	90 x 90 x 13 A
	STIFFENERS	125 x 75 x 9 A	125 x 75 x 9 A	
	M.L. STRAKE	5 1/2' x 50' ~ .42"	.51"	.57"
	OTHER STRAKE	44' ~ 40' x 38'	.51"	.57"
INNER BOTTOM	MARGIN PL.	30 1/2' x 53' ~ .51"	.53"	.59"
	SHELL A	90 x 90 x 13 A	90 x 90 x 13 A	90 x 90 x 13 A

FRAMES & BOTTOM ANGLES IN BOILER SPACE TO BE COVERED BY CEMENT.



DECKS.					
	FILE DE.	POOP DE.	BRIDGE DE.	PROMENADE DE.	BOAT DE.
STRINGER PL.	25' x 36'	36' x 36'	72' x 45'	24' x 30'	24' x 30'
" ANGLE	90-90 x 9 A.	90-90 x 9 A.	150 (30 A) x 150 (30 A) x 12.5 (30 A) WITHIN OPENING	75-75 x 7.5 A.	75-75 x 7.5 A.
DE PLATE	.30"	.26"	.25" WITHIN OPENING	.25" TIE PL.	.20"
" PLANK	3" O.P.	2 1/2" O.P.	2 1/2" O.P.	2 1/2" O.P.	2 1/2" O.P.
CURTAIN PL.				14' x 36'	12' x 26"
SEAMS & BEAMS.					
AS PER PLAN.					
UPPER DECK.					
	1/2 L - ENDS	IN WAY OF BRIDGE	1/2 L - ENDS	IN WAY OF BRIDGE.	
STRINGER PL.	58' .88" ~ 39' x 47' .150-150 x 12.5 A	.40"	47' x 40' ~ 39' x 34' .90 x 90 x 10 A	.34"	90 x 90 x 8.5 A
" ANGLE	90-90 x 10 B A.	90 x 90 x 10 A.	90 x 90 x 10 A	90 x 90 x 10 A	90 x 90 x 8.5 A
INSIDE STR.	75-75 x 10.5 A TENDS	75-75 x 10 A.	75-75 x 10 A	75-75 x 8.5 A	75-75 x 8.5 A
DECK PLATE	.32" ~ .35"	.35" ~ .32" AT BRIDGES	.36" ~ .30"	.30"	.30"
DE R. WITHIN OPENING	.41" ~ .35"	.34"	.34" ~ .30"	.30"	.30"
DECK PLANK		2 1/2" O.P.			
BEAMS & KNEES					
AS PER PLAN.					

TANK SIDE BRACKET & MARGIN PLATE CONNECTION			
	ABFT 1/2 L FROM STEM	FORW OF 15% FROM STEM	1/2 L ~ 15% FROM STEM
HEIGHT OF T. SIDE BKT.	68"	68"	68"
THICKNESS	3/8" IN BOW & STERN	.47"	.47"
GUSSET ANGLE (EVERY FR)	150 x 150 x 11 A IN HOLD & STERN	150 x 150 x 11 A	150 x 150 x 11 A
Nr OF	14 - 3/8" D RIV.	19 - 3/8" D RIV.	13 - 3/8" D RIV.
TO FRAME	12 - 3/8" D RIV.	16 - 3/8" D RIV.	11 - 3/8" D RIV.
TO GUSSET	10 - 3/8" D RIV.	13 - 3/8" D RIV.	9 - 3/8" D RIV.
TO MARGIN PL.			
VERT. ANGLE ON M. PL.	90 x 90 x 12.5 A IN HOLD & STERN	130 x 130 x 10.5 A	90 x 90 x 10.5 A
" " " " " " "	DS	130 x 130 x 10.5 A	125 x 90 x 10.5 A

# 50% INCREASED IN WAY OF WELL			
RIVETING NOTE (END CONNECTION)			
	1/2 L	AT ENDS	REMARKS
KEEL RATE	BUTT STRAP 4 R.	BUTT STRAP 4 R.	
BOTTOM PLATE	LAPPED & 4 R.	LAPPED & 3 R.	
SIDE	" " 3 R.	" " 3 R.	
SHEER STRAKE	" " 5 R.	" " 3 R.	
STRAKE BELOW	" " 4 R.	" " 3 R.	
FILE & POOP SIDE PL.		" " 1 R.	
BRIDGE SIDE PL.	LAPPED & 3 R.	LAPPED & 2 R.	
INNER BOTTOM	LAPPED & 3 R.	LAPPED & 2 R.	
OTHER STRAKE	" " 2 R.	" " 1 R.	
MARGIN PLATE	" " 3 R.	" " 3 R.	
CENTRE GIRDER	" " 3 R.	" " 3 R.	
UPPER DECK STRINGER PL.	" " 5 R.	" " 3 R & 2 R.	LAPPED & 2 R. IN WAY OF BRIDGE
" " PLATE	" " 3 R & 2 R.	" " 1 R.	DE
2ND DECK STRINGER PL.	" " 2 R.	" " 2 R.	LAPPED & 1 R. IN WAY OF BRIDGE
" " PLATE	" " 2 R.	" " 1 R.	DE
FILE & POOP DE STRINGER PL.		" " 1 R.	
" " PLATE		" " 1 R.	
BRIDGE DE STR. PL.	LAPPED & 3 R.		
" " PLATE	" " 2 R.		
OTHER DE STR. PL.	" " 1 R.	LAPPED & 1 R.	
" " PLATE	" " 1 R.	" " 1 R.	

RIVETING NOTE (EDGE CONNECTION)			
	1/2 L	AT ENDS	REMARKS
KEEL RATE	2 R.	2 R.	
BOTTOM	2 R.	2 R.	
SIDE	2 R.	2 R.	
SHEER STRAKE	2 R.	2 R.	
STRAKE BELOW	2 R.	2 R.	
FILE & POOP SIDE PL.		1 R.	
BRIDGE SIDE PL.	2 R.		
INNER BOTTOM	1 R.	1 R.	
OTHER STRAKE	1 R.	1 R.	
MARGIN PLATE	1 R.	1 R.	
UPPER DECK STR. PLATE	1 R.	1 R.	
" " PLATE	1 R.	1 R.	
2ND DECK STR. PL.	1 R.	1 R.	
BRIDGE DE STR. PL.	1 R.	1 R.	
" " PLATE	1 R.	1 R.	

STRENGTHENING OF BOTTOM FORWARD.
FOR FORWARD OF 3/8 L TO COLLISION BHD.
PITCH OF RIVET IN FRAMES TO BE 5/2 DIA. (TWO COMPLETE ROWS ON FRAMES 130 x 130 x 12.5 A & 90 x 90 x 12.5 BACK BAR FROM MARGIN PLATE TO MARGIN PLATE) FRAMES NOT IN SHORT LENGTH SHELL PLATING, THREE STRAKES NEXT THE KEEL, TO HAVE MIDSHIP THICKNESS .62" MAINTAINED TO RULE POSITION OF COLLISION BHD.
INTERCOSTAL ADDITIONAL SIDE GIRDER TO BE FITTED AT 3'6" APART & 1/2 HEIGHT GIRDERS EXTENDED AS FAR AS PRACTICABLE.

FRAME SPACES	
BOTH PEAKS	24'
FORWARD OF 3/8 L	27'
ELSEWHERE	BETWEEN FR. 13 & FR. 118 - 33' (RULE 2925) AND GRADUALLY DECREASED TOWARDS ENDS TO 27' OR 24'

COAL BUNKER BHD	
COAMING PLATE	.30"
BHD PLATE	.30' x .26' IN TWEEN DS.
BOUNDARY ANGLE	90 x 90 x 11.5 x 10 A & 75 x 75 x 10 A
STIFFENERS	TWEEN DS. LONG 180 x 75 x 9.5 A (5.5.35.35) LONG 180 x 75 x 9.5 A (5.5.35.35) IN HOLD TRANS. 180 x 75 x 9.5 A (5.5.35.35)
ATTACHMENT	LUG END ATTACHMENT IN HOLD.

S.S. "NAGOYA MARU".

Nagasaki Report No. 1845.

S. No 503.
S.S. "NAGOYA-MARU".
MIDSHIP SECTION.
(405'-0" x 55'-6" x 32'-6")
SCALE 1/4" = ONE FOOT.
(FINISHED PLAN.)

K. Nagao
T. Kato
Aug. 1, 1932

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K. Tajima
T. Kato
Aug. 1. 1932.



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