

N.B. THE SECTIONS IN M/M ARE "JAPANESE STANDARD SECTIONS,"
& THOSE IN INCHES "YAWATA SEITETSU STANDARD SECTIONS."

TINTED PORTS DENOTE ALTERATION

PRINCIPAL DIMENSIONS		
LENGTH	(L)	435'-0"
BREADTH MOULDED	(B)	58'-6"
DEPTH		32'-10"
LOADED DRAUGHT (EXTREME)	ABOUT	26'-3"
DEPTH "D" FOR SCANTLING NUMERALS	(D)	32'-8 1/2"

SCANTLING NUMERALS		
1 ST LONG. NUMERALS	(L.D.)	14.281
2 ND	L.(B+D)	39.722
PROPORTION TO UPPER DECK	1/2	13.25
BRIDGE DECK		10.72
% OF LENGTH OF SUPERSTRUCTURES TO SHIP'S LENGTH		57.47%

EQUIPMENT NO.		
L. (B+D)	435.58513283	39720
F.C.L.	4112.75.75	232
BRIDGE	15675.715.75	211
POOP	3038.75.75	171
BRIDGE DECK HOUSE	77.80.50	308
PROMENADE DECK	66.80.50	264
BOAT DECK HOUSE	1225.80.50	77
SUM		41692

EQUIPMENTS		
3 - BOWER ANCHORS, STOCKLESS; COLLECTIVE WT.		20 1/2 TONS
1 - STREAM ANCHOR, ORDINARY EX. STOCK		20 1/2 "
STUD CHAIN CABLE	300 FMS	7 1/2 D.
STEEL WIRE FOR STREAM ANCHOR	1-120 "	5" CH.
TOW LINE, STEEL WIRE (FLEXIBLE)	1-130 "	5" CH.
HAWSEERS, (FLEXIBLE)	2-100 "	2 1/2" CH.
VARPS, ()	2-100 "	2 1/2" CH.

FORGING & CASTING		
STEM		10 1/2" x 2 1/2"
STERN FRAME		
RUDDER POST		
PROPELLER		

KEEL AND SHELL PLATING		
KEEL PLATE	51' x 8 1/2" ~ 7 1/2"	
BOTTOM	65' ~ 53' x 4 1/2"	
SIDE	68' ~ 50' x 4 1/2"	
BOSS	75	
F.C.L. SIDE PLATE	42	
BRIDGE	62	
POOP	40	
SHEER STRAKE	72' x 4" (RULE 51.215) ~ 50' x 4 1/2"	
STRAKE BELOW	70' x 8" (RULE 51.23) ~ 50' x 4 1/2"	
SHEER STRAKE DOUBLED WITH 80 AT BRIDGE ENDS		

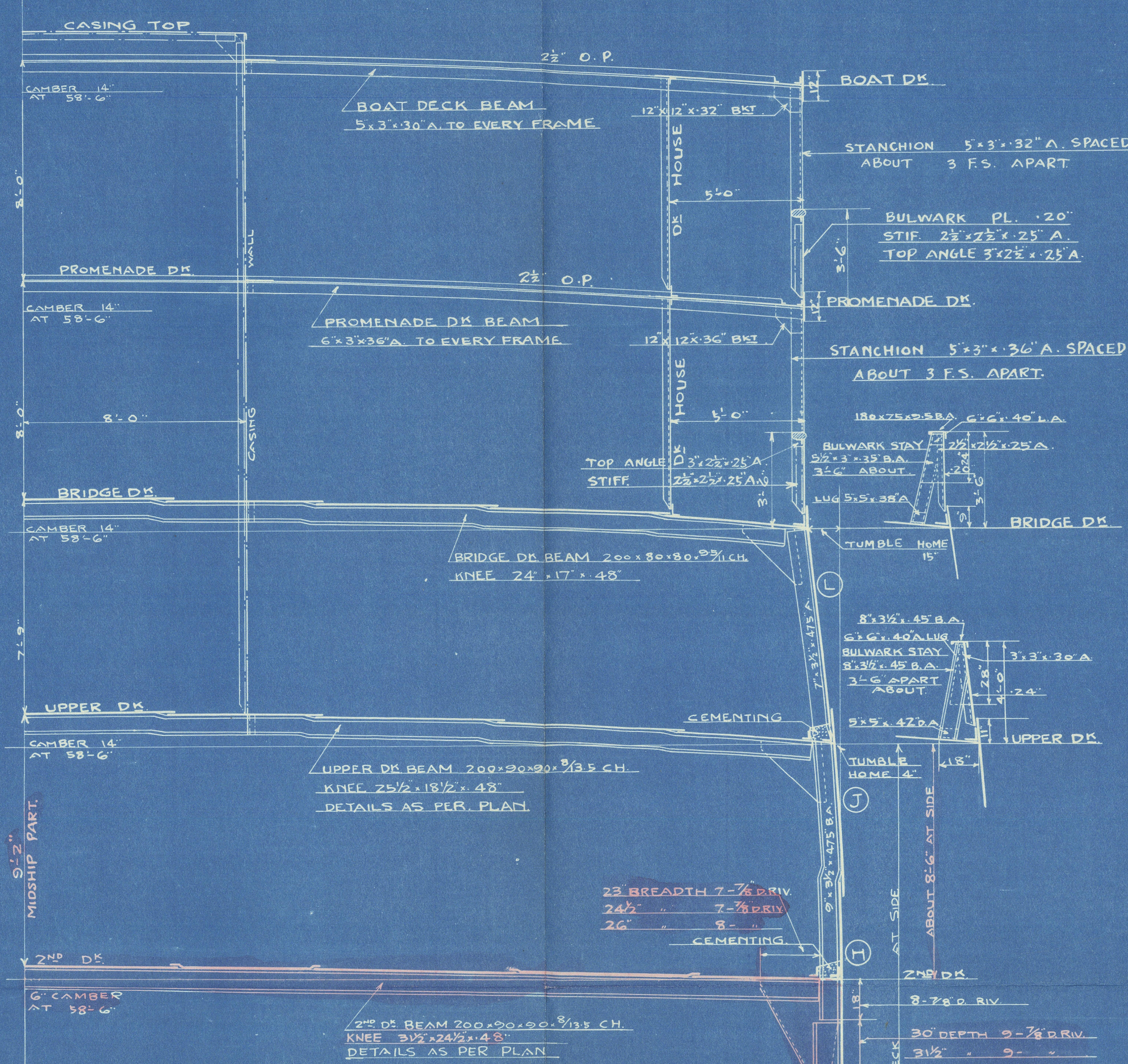
ENGINE CASING		
COAMING PLATE	30' x 3 1/2" WHERE EXPOSED	
CASING	26' x 30'	
COAMING ANGLE	3' x 3' x 30' A	3' x 3' x 34' A
STIFFENERS	3' x 2 1/2' x 30' A	33' SPACED APART

DECK HOUSES				
	UPPER DECK	BRIDGE DECK	PROMENADE DECK	BOAT DECK
HOUSE PLATE	25"	75"	75"	70"
COAMING ANGLE	3" x 3" x 30" A	6" x 3" x 32" A	6" x 3" x 32" A	6" x 3" x 32" A
TOP ANGLE	3" x 3" x 30" A	4" x 3" x 30" A	3" x 3" x 30" A	2 1/2" x 2 1/2" x 25" A
STIFFENERS	3" x 2 1/2" x 30" A	3" x 2 1/2" x 30" A	3" x 2 1/2" x 25" A	2 1/2" x 2 1/2" x 25" A
" SPACING	ABOUT 33" SPACED APART			
ALL DIVISIONAL STEEL WALL	(25' LOWER WHERE DESIRED TO CORROSE) 25' LOWER WHERE DESIRED TO CORROSE			
	20"			

BILGE KEEL (ABOUT 173'-3" AMIDSHIP)		
PLATE	10' x 4 1/2" WITH 2 1/2" CONVEX DOUBLE	
CONNECTING ANGLE	5' x 3 1/2' x 4 1/2' A	
DEPTH OF GIRDER	12'	

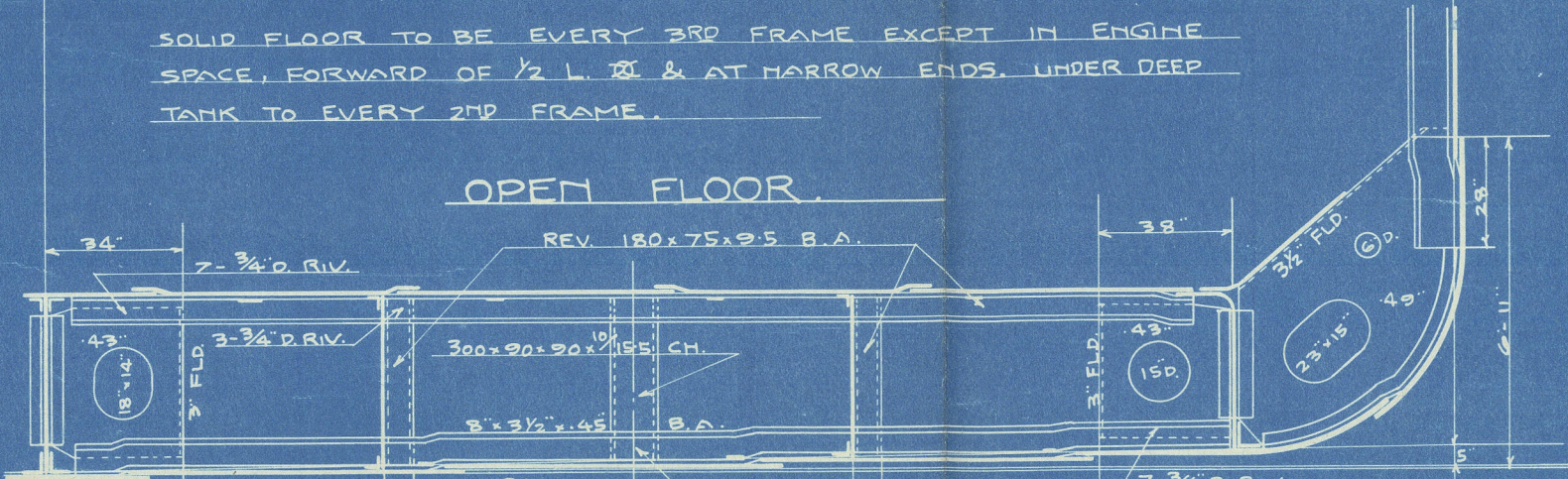
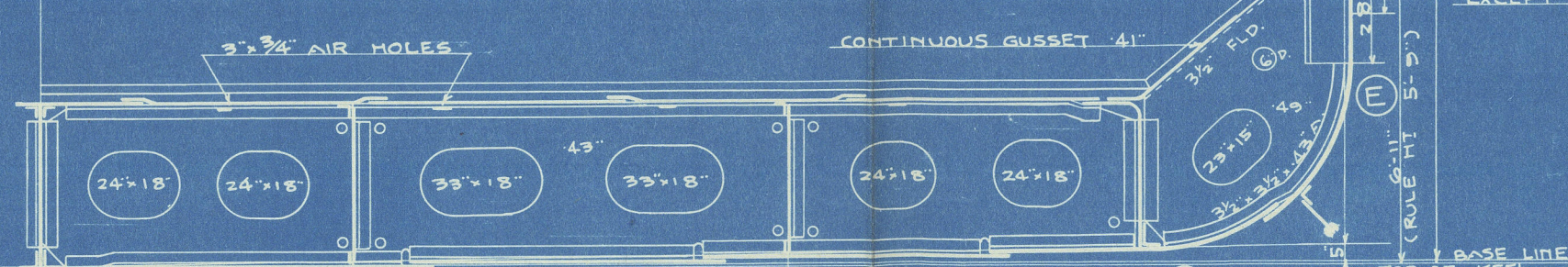
DOUBLE BOTTOM			
CENTRE	PLATES	45' x 55' ~ 45'	ENGINE SPACE
GIRDER	KEEL ANGLES	4' x 4' x 50' ~ 55' A	4' x 4' x 50' A
	TOP	3 1/2' x 3 1/2' x 53' ~ 45' A	3 1/2' x 3 1/2' x 53' A
	VERT.	3 1/2' x 3 1/2' x 43' A	5' x 5' x 43' A
SIDE	PLATES	41'	UNDER THRUST
GIRDERS	TOP ANGLES	3 1/2' x 3 1/2' x 43' A	5' x 5' x 43' A
	BOTTOM	00	3 1/2' x 3 1/2' x 43' A
	VERT.	3' x 3' x 30' A	3' x 3' x 30' A
SOLID FLOORS	PLATES	43'	FORW. OF
	FRAMES	3 1/2' x 3 1/2' x 43' A	5' x 5' x 43' A
	REV. FRAMES	00	5' x 5' x 43' A
W.T. FLOOR	BOUNDARY A.	3 1/2' x 3 1/2' x 43' A	3 1/2' x 3 1/2' x 43' A
	STIFFENERS	6' x 3' x 40' A	180' x 75' x 55' A
INNER	M.L. STRAKE	8 1/2' x 8 1/2' ~ 43'	31'
	OTHER	45' ~ 40' AT FORW. END	52'
BOTTOM	MARGIN PL.	40' x 55' ~ 53'	31' x 53' AT AFT. END
	SHELL ANGLE	3 1/2' x 3 1/2' x 55' A	5' x 5' x 55' A
DETAILS OF SCANTLING UNDER MAIN ENGINE SEATING AS PER SKETCH			

SYNOPSIS OF BOTTOM FORWARD
FROM FORWARD OF 1/2 L. & TO COLLISION B.M.P.
HIGH OF RIVET IN FRAMES TO BE 5 1/2" D. (TWO COMPLETE ROWS ON BOTH FLANGES). FRAME ANGLE 5' x 5' x 43' A. FROM MARGIN PL. TO MARGIN PL. & FRAME BACK BAR 3' x 1 1/2' A. TO BE FITTED FROM 1/2 L. TO COLL. B.M.P. INTL. ADDITIONAL SIDE GIRDERS TO BE FITTED NOT MORE THAN 7'0" APART & HT. GIRDERS EXTENDING AS FAR FORWARD AS PRACTICABLE. FLOOR PLATE OR INTL. SIDE GIRDERS ARE NOT TO BE FLANGED. SHELL PLATING; THREE STRAKES NEXT THE KEEL TO HAVE THICKNESS 7/16" AT P.S. 3 3/8" x 72 AT P.S. 27" MAINTAINED FORWARD TO COLLISION B.M.P.

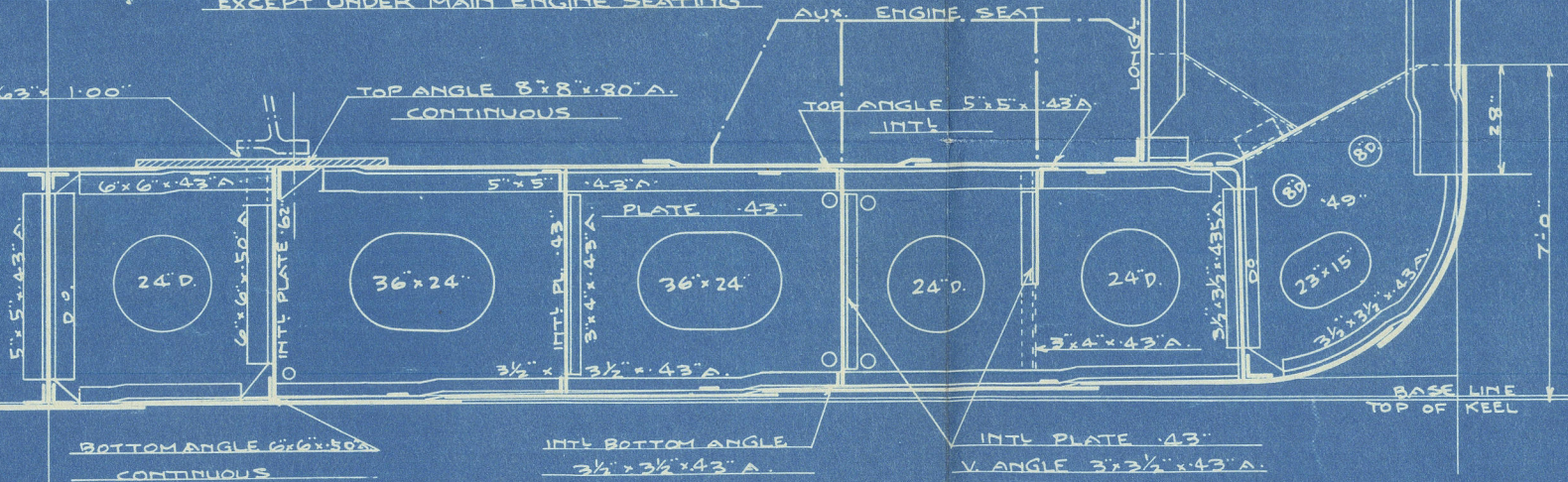


RIVETING NOTE (EDGE CONNECTION)			
KEEL PLATE	2R	AT ENDS	IN WAY OF BRIDGE
BOTTOM PLATE	2R	BELOW 45' - 1R	ABOVE 45' - 2R
SIDE PLATE	2R	00	
SHEER STRAKE	2R	00	
STRAKE BELOW	2R	00	
F.C.L. SIDE PL.	2R	1R	
BRIDGE SIDE	2R	1R	
POOP SIDE PL.	2R	1R	
M.L. STRAKE	2R	2R	
OTHER STRAKE	2R	2R	
MARGIN PLATE	2R	1R	
UPPER DECK	2R	1R	
UPPER DECK PL.	2R	1R	
OTHER DECK PL.	1R	1R	

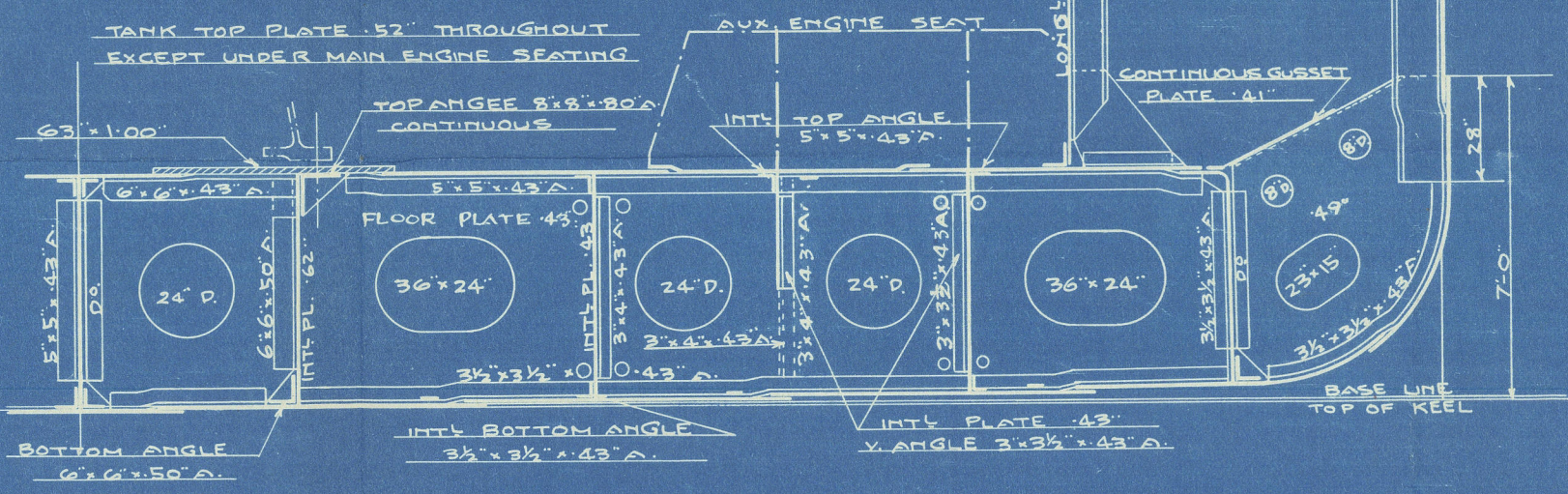
SPARRING IN HOLD & TWEEN DECK
6' x 2" SOFT WOOD 9" SPACED APART
OR VERTICALLY ARRANGED.
CEILING ON TANK TOP
2 1/2" SOFT WOOD ON 2" SLEEPER TO BE
FITTED IN ALL CARGO HOLDS.



FLOOR IN WAY OF ENGINE SEATINGS
(SHOWING STARBOARD SIDE)
TANK TOP PLATE 52" THROUGHOUT
EXCEPT UNDER MAIN ENGINE SEATING.



END CONNECTIONS			
KEEL PLATES	LAPPED & 4R	AT END	IN WAY OF BRIDGE DECK
BOTTOM PLATES	LAPPED & 4R	LAPPED & 3R	
SIDE PLATES	LAPPED & 3R	LAPPED & 3R	
SHEER STRAKES	LAPPED & 5R	LAPPED & 5R	
BELOW STRAKES	LAPPED & 4R	LAPPED & 4R	
BRIDGE SIDE PLATES	LAPPED & 4R	LAPPED & 4R	
F.C.L. & POOP SIDE	LAPPED & 4R	LAPPED & 4R	
INNER BOTTOM	LAPPED & 3R	LAPPED & 2R	
M.L. STRAKE	LAPPED & 3R	LAPPED & 2R	
OTHER STRAKES	LAPPED & 2R	LAPPED & 2R	
MARGIN PLATES	LAPPED & 3R	LAPPED & 3R	
CENTRE GIRDER	LAPPED & 5R	LAPPED & 5R	
UPPER DECK STRINGER PL.	LAPPED & 4R	LAPPED & 4R	
" " PLATES	LAPPED & 4R	LAPPED & 4R	
BRIDGE DECK STRINGER PL.	LAPPED & 3R	LAPPED & 3R	
" " PLATES	LAPPED & 3R	LAPPED & 3R	
POOP & F.C.L. DECK PL. & STRINGER PLATES	LAPPED & 2R	LAPPED & 2R	



DECKS					
BRIDGE DECK	F.C.L. DECK	POOP DECK	PROMENADE DECK	BOAT DECK	
STRINGER PL.	6' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A
STRINGER ANGLES	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A
SHELL	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A
G.WATERWAY A.	4' x 4' x 30' A	4' x 4' x 30' A	4' x 4' x 30' A	4' x 4' x 30' A	4' x 4' x 30' A
DECK PLATES	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A	3' x 3' x 30' A
WOOD PLANKS	2' x 6' x 12' A	2' x 6' x 12' A	2' x 6' x 12' A	2' x 6' x 12' A	2' x 6' x 12' A
CURTAIN PLATE	2' x 6' x 12' A	2' x 6' x 12' A	2' x 6' x 12' A	2' x 6' x 12' A	2' x 6' x 12' A

UPPER DECK		
STRINGER PLATES	IN WAY OF UPPER DECK	IN WAY OF BRIDGE DECK
STRINGER ANGLES	3' x 3' x 30' A	3' x 3' x 30' A
SHELL ANGLES	3' x 3' x 30' A	3' x 3' x 30' A
DECK PL. ABREST OPENING	3' x 3' x 30' A	3' x 3' x 30' A
DECK PL. WITH OPENING	3' x 3' x 30' A	3' x 3' x 30' A
WOOD PLANKS	2' x 6' x 12' A	2' x 6' x 12' A

2ND DECK		
STRINGER PLATES	IN WAY OF UPPER DECK	IN WAY OF BRIDGE DECK
STRINGER ANGLES	3' x 3' x 30' A	3' x 3' x 30' A
SHELL ANGLES	3' x 3' x 30' A	3' x 3' x 30' A
DECK PL. ABREST OPENING	3' x 3' x 30' A	3' x 3' x 30' A
DECK PL. WITH OPENING	3' x 3' x 30' A	3' x 3' x 30' A
WOOD PLANKS	2' x 6' x 12' A	2' x 6' x 12' A

TANK SIDE BRACKETS				
ACTUAL (d)	ENGINE ROOM	15' FROM STEM	CARGO HOLDS	31' x 15' FROM STEM
TANK SIDE BRT	4' x 4'	4' x 4'	4' x 4'	4' x 4'
GUSSET PLATES	4' x 4'	4' x 4'	4' x 4'	4' x 4'
NO. TO FRAME	10' x 7 1/2' D. RIV.	10' x 7 1/2' D. RIV.	10' x 7 1/2' D. RIV.	10' x 7 1/2' D. RIV.
OF TO GUSSET	10' x 7 1/2' D. RIV.	10' x 7 1/2' D. RIV.	10' x 7 1/2' D. RIV.	10' x 7 1/2' D. RIV.
TO MARGIN PL.	11' x 7 1/2' D. RIV.	11' x 7 1/2' D. RIV.	11' x 7 1/2' D. RIV.	11' x 7 1/2' D. RIV.
V. ANGLE ON MARGIN PL.	3 1/2' x 3 1/2' x 43' A	3 1/2' x 3 1/2' x 43' A	3 1/2' x 3 1/2' x 43' A	3 1/2' x 3 1/2' x 43' A
" FLOOR PL.	3 1/2' x 3 1/2' x 43' A	3 1/2' x 3 1/2' x 43' A	3 1/2' x 3 1/2' x 43' A	3 1/2' x 3 1/2' x 43' A
GUSSET PLATES	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS
HT. OF RIV. IN WAY OF BRT TOP FLAT	TO FRAME	TO FRAME	TO FRAME	TO FRAME
HT. OF TANK SIDE BRT CORRECTED (d) FOR SIDE FRAMINGS	8' (RULE 60)	8' (RULE 60)	8' (RULE 60)	8' (RULE 60)

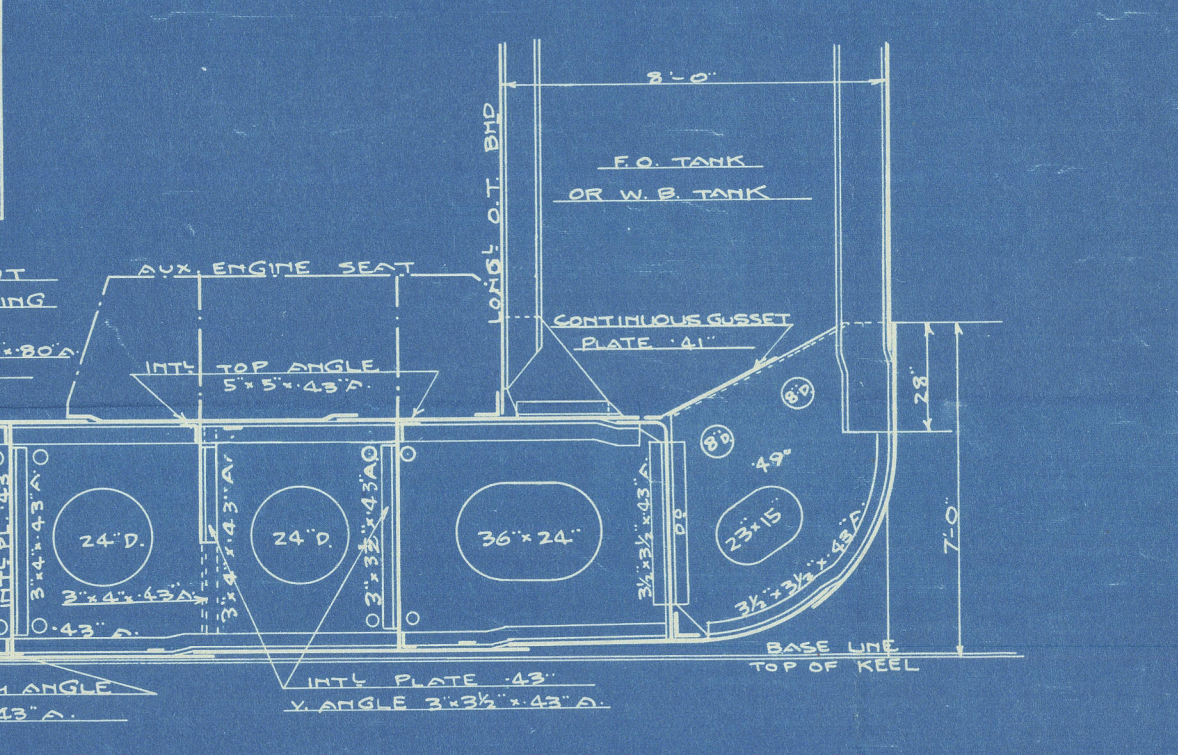
FRAMINGS		
BOTH PEAKS	24'	
FORWARD OF 3 1/2' L. M	27'	
ELSE-WHERE	33' (RULE 29.42)	

FRAMES IN AFT. CARGO HOLD
FRAME 200' x 20' x 10' A. EXTENDS TO UPPER DECK & BRACKETED TO DECK
INTERMEDIATE ANGLE FRAME 6' x 3' x 30' A. HEEL TREE
FRAME IN WAY OF TUNNEL RECESS
FRAME IN TUNNEL 2' x 3 1/2' x 47 1/2' A. EXTENDS TO TUNNEL RECESS TOP
FRAME IN CARGO HOLD 3' x 3 1/2' x 47 1/2' A. EXTENDS TO UPPER DECK
HEEL BRT. TO TUNNEL RECESS TOP INTERMEDIATE FRAME
ANGLE IN POOP 6' x 3 1/2' x 42' A. HEEL BRT. TO UP. DECK
FRAMES IN AFT. CARGO HOLDS
FRAME 300' x 30' x 10' A. EXTENDS TO 2ND DECK BETWEEN DECK FRAME
2' x 3 1/2' x 47 1/2' A. EXTENDS TO UPPER DECK HEEL CONNECTED BELOW FRAME
NEXT HOLD FRAME 300' x 30' x 10' A. EXTENDS TO UP. DECK WEB CUT DOWN
TO FORM 210' x 30' x 10' A. BETWEEN UP - 2ND DECK

FRAMES IN DEEP TANK AND ENGINE ROOM
FRAME 300' x 30' x 10' A. EXTENDS TO 2ND DECK BETWEEN DECK
FRAME 8' x 3 1/2' x 45' A. EXTENDS TO UPPER DECK OR BRIDGE DECK WHERE
FITTED. HEEL BRACKETED TO DECK WEB CUT DOWN TO FORM
7' x 3 1/2' x 45' A. BETWEEN UP - BRIDGE DECK

FRAMES IN FORE CARGO HOLD
FRAME 300' x 30' x 10' A. EXTENDS TO 2ND DECK TW. DECK FRAME 2' x 3 1/2' x 47 1/2' A.
EXTENDS TO UPPER DECK OR BRIDGE DECK WHERE FITTED. HEEL CONNECTED BELOW
FRAME WEB CUT DOWN TO FORM 7' x 3 1/2' x 47 1/2' A. BETWEEN UPPER - BRIDGE DECK
NEXT HOLD FRAME 300' x 30' x 10' A. EXTENDS TO UP. DECK OR BRIDGE DECK WHERE
FITTED. WEB CUT DOWN TO FORM 210' x 30' x 10' A. BETWEEN UPPER - 2ND DECK
& 185' x 30' x 10' A. BETWEEN UPPER - BRIDGE DECK
FRAMES IN WAY OF 22' FRAME SPACING
FRAME 300' x 30' x 10' A. EXTENDS TO UPPER DECK WHERE FITTED. WEB CUT DOWN
TO FORM 150' x 30' x 10' A. ON ALTERNATE FRAME BETWEEN UP - 2ND DECK EXCEPT IN WAY OF
F.C.L. DECK WHERE WEB CUT DOWN TO FORM 210' x 30' x 10' A. ON ALTERNATE FRAME BETWEEN
UP - 2ND DECK AND EVERY FRAME BETWEEN UP - F.C.L. DECK REV. ANGLE 5' x 3 1/2' x 50' A (SP. ANGLE
FOR XAF) TO BE FITTED BELOW 2ND DECK IN WAY OF 15' L. TO FORWARD (GIRDER DEPTH 10').
FRAMES IN FORE PEAK TANK
FRAME 200' x 20' x 10' A. EXTENDS TO UPPER DECK & FRAME IN F.C.L. 200' x 20' x 10' A.
TO ALT. FRAME & INTERMEDIATE ANGLE 6' x 3 1/2' x 44' A. HEEL BRACKETED TO DECK
N.B. - SEE ALSO CONSTRUCTION PROFILE & DECK PLAN

FLOORS IN WAY OF ENGINE SEATINGS
(SHOWING PORT SIDE)



S. No. 532
MIDSHIP SECTION
435'-0" x 58'-6" x 32'-10"
SCALE 1/4" = ONE FT.

Approved
LLOYD'S REGISTER OF SHIPS
NAGASAKI
NOV 19 1932

Lloyd's Register Foundation

hmdm

"Sinanogawa Maru"

ex

"Uyo Maru" Nag. 1916.

GEN. BOX NO 1205

S No 532.

MIDSHIP SECTION.

435'-0" x 58'-6" x 32'-10"

SCALE 1/4" = ONE FT.



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