

NO. 33 MIDSHIP SECTION. SCALE 1/2 INCH TO ONE FOOT.

PRINCIPAL DIMENSIONS.	
LENGTH BETWEEN P.P.	400'-0"
BREADTH MOULDED.	53'-0"
DEPTH MOULDED.	32'-0"

SCANTLING NUMBERS.	
B.	53.00
D.	32.00
85.00 TRANSVERSE No.	
L.	400.00
34,000.00 LONGITUDINAL No.	
d.	17'-11" FOR FRAME
11'-0" DO. ABOVE T. RECESS	

PROPORTIONS.	
L/D TO UPPER DECK	12.50
L/D TO BRIDGE DECK	10.06
L/B	7.55

EQUIPMENT NUMBER.	
L x (B+D) =	34,000
POOP $\frac{3}{4} \times 32.54 \times 7.75 =$	189
BRIDGE $\frac{3}{4} \times 123.75 \times 7.75 =$	719
F'CLE $\frac{3}{4} \times 40.96 \times 7.75 =$	238
ERECTORNS $(600 + 2750) \times 7.75 =$	339
TOTAL	35,485
EQUIPMENT	AS PER RULE.

STEM.	$10\frac{1}{2} \times 2\frac{3}{4}$ ROLLED STEEL
STERN FRAME	POST 10" T. R. POST 8" x 7"
RUDDER	SINGLE PLATE TYPE.

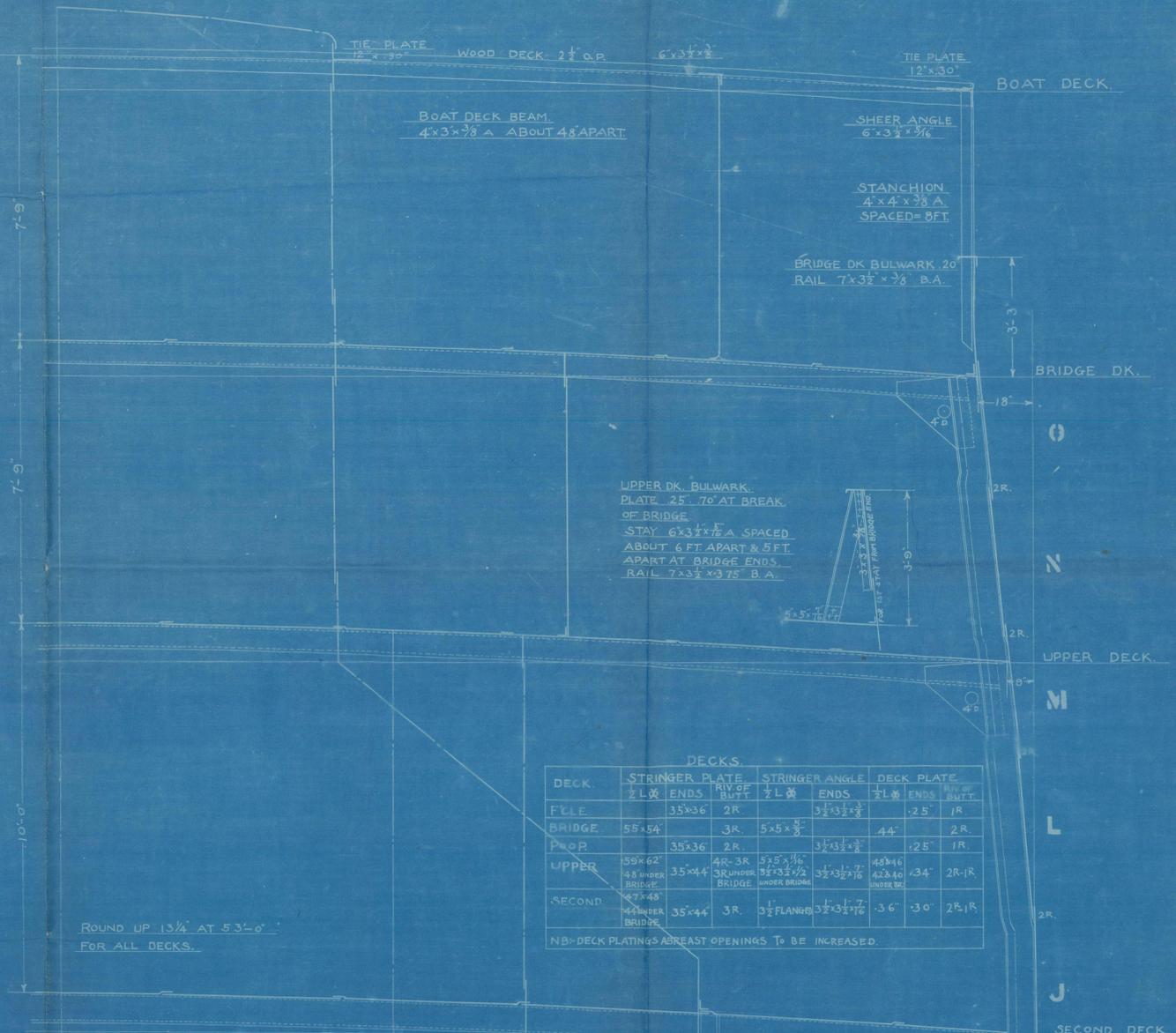
W.T.B.H. & SHAFT TUNNEL.	
6 IN NUMBER ALL EXTEND TO UP. DECK.	
SCANTLING AS PER RULE.	
TRANSOM PLATE.	45' x 48"
SHAFT TUNNEL PLATE	.36" - .42"
STIFFS 7' x 3 1/2" x 375 B.A.	
SPACED 36" APART 27" IN WAY OF OIL TANKS.	

DOUBLE BOTTOM.				
PLATE.				
DESCRIPTION	1/2 L Ø	ENDS	BOILER SPACE	RIV OF BUTT.
CENTRE GIRDER	43' x 50"	40"	60"	3R.
SIDE GIRDER	.40"	.36"	.50"	
MARGIN PLATE.	35' x 50"	20" x 48" AFTEND	.56"	3R. 2R.
TANK TOP (MIDDLE)	43' x 50"	40"	.56"	3R. 2R.
" (OTHERS)	.44"	.36" AT 27' F.S.	.56" BS.	2R. 1R.
FLOOR	.40"	.36"	.50"	

SOLID FLOOR TO BE FITTED AT ALTERNATE FRAMES EX. IN E.R. UNDER BOILER BEARERS AND 3/5 L FORE. TO COLLISION B.H. ALSO AFTER PART WHERE AT EVERY FRAME. PARTIAL SOLID FLOOR UNDER THRUST RECESS. TWO ADDITIONAL SIDE GIRDERS IN ENGINE ROOM.

ANGLES.			
DESCRIPTION	1/2 L Ø	ENDS	BOILER SPACE
CENTRE GIRDER TOP	5' x 5 1/16" (S)	5' x 5 1/2" (S)	5' x 5 1/8" (S)
C GIRDER BOTTOM	5' x 5 1/16" (D)	5' x 5 1/2" (D)	5' x 5 1/8" (S)
C GIRDER VERTICAL	5' x 5 1/16" (S)	5' x 5 1/2" (S)	5' x 5 1/8" (S)
SIDE GIRDER TOP	3 1/2" x 3 1/2" x 3/8"	3 1/2" x 3 1/2" x 3/8"	3 1/2" x 3 1/2" x 3/8"
SIDE GIRDER BOTTOM	3 1/2" x 3 1/2" x 3/8"	3 1/2" x 3 1/2" x 3/8"	3 1/2" x 3 1/2" x 3/8"
SIDE GIRDER VERTICAL	3" x 3" x 3/8"	3" x 3" x 3/8"	3" x 3" x 1/2"
MARGIN ANGLE.	4" x 4" x 1/2"	4" x 4" x 1/2"	
TANK FRAME.	3 1/2" FLANGED	3 1/2" FLANGED	3 1/2" FLANGED
TANK REVERSE.	3 1/2" x 3 1/2" x 3/8" (D)	3 1/2" x 3 1/2" x 3/8" (D)	3 1/2" x 3 1/2" x 3/8" (D)
MARGIN PLATE VA.	3 1/2" x 3 1/2" x 3/8"	3 1/2" x 3 1/2" x 3/8"	3 1/2" x 3 1/2" x 3/8"
TANK SIDE BRACKET VERTICAL ANGLE.	5' x 5 1/2" (S)	3 1/2" x 3 1/2" x 3/8"	
GUSSET ANGLE.	3 1/2" x 3 1/2" x 3/8"	E.F.R. AT 33' F.S. E. 2ND FR. AT 27' F.S.	3 1/2" x 3 1/2" x 3/8"

SCANTLING OF SKELETON FLOOR AS PER PLAN.



DECKS.				
DECK.	STRINGER PLATE 1/2 L Ø ENDS	RIV. OF BUTT.	STRINGER ANGLE 1/2 L Ø ENDS	DECK PLATE 1/2 L Ø ENDS
F'CLE	35' x 36"	2R.	3 1/2" x 3 1/2" x 3/8"	25' x 1R.
BRIDGE	55' x 54"	3R.	5' x 5' x 3/8"	44' x 2R.
POOP	35' x 36"	2R.	3 1/2" x 3 1/2" x 3/8"	25' x 1R.
UPPER	59' x 62" 48" UNDER BRIDGE	4R. 3R. 3R. UNDER BRIDGE	5' x 5' x 3/8" 5' x 3 1/2" x 3/8" 48" x 40" UNDER BRIDGE	42" x 40" 2R. 1R. UNDER BRIDGE
SECOND	27' x 48" 48" UNDER BRIDGE	3R.	3 1/2" FLANGED 3 1/2" x 3 1/2" x 3/8"	30' x 30' 2R. 1R.

NB:- DECK PLATING ASBESTOS TO BE INCREASED.

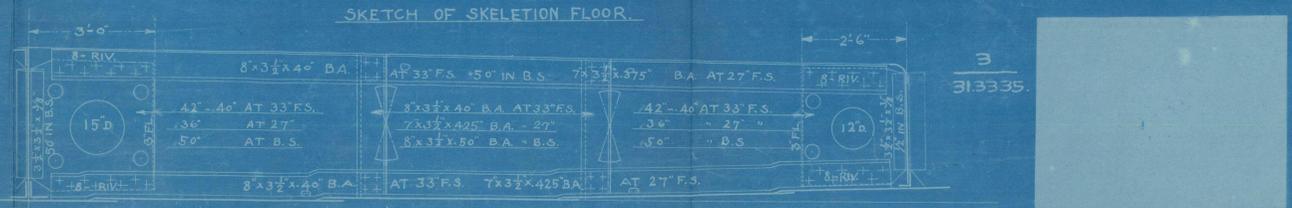
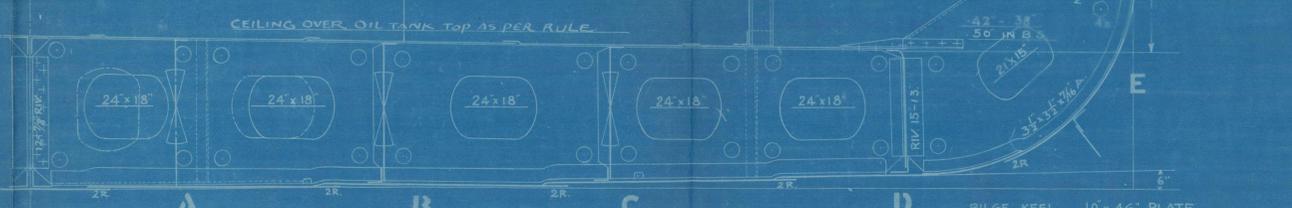
BEAMS.			
DECKS.	F.S.	27'	24'
F'CLE	10' x 3.55' x 3.55' x 4.25'	KNEE 26' x 54"	FITTED ON ALT. FRAMES
BRIDGE	8' x 3 1/2" x 40"	23' x 42"	EVERY "
POOP	7' x 3 1/2" x 375"	18' x 40"	" " " "
UPPER	8' x 3 1/2" x 45" 7' x 3 1/2" x 475"	27' x 54"	EXCEPT F.S. 24" WHERE IN ALT. FR.
SECOND	10' x 3.55' x 3.55' x 4.25"	23' x 42" (A.P.)	EXCEPT FORE PEAK WHERE TO ALT. FR.
HATCH ENDS.	BRIDGE DK.	10' x 3.55' x 3.55' x 4.25'	KNEE 26' x 54"
	UPPER DK.	10' x 3.55' x 3.55' x 4.25'	27' x 54"
	SECOND DK.	12' x 3 1/2" x 40"	31' x 54"
PANTING		10' x 3.55' x 3.55' x 4.25'	30' x 50"

NB:- HALF BEAMS & BEAMS AT ENDS TO BE MODIFIED IN SCANTLING.

FRAMES.			
SPACING.	33' - FOR 3/5 L Ø.	27' - BEYOND 3/5 L Ø TO PEAKS B.H.	24' - PEAKS.
SCANTLING.	33'	27'	24'
EXTENSION OF MAIN FRAME	IN WAY OF TUNNEL R.	OTHERS	OTHERS
WEB FRAMES	IN MACHINERY SPACE & FORE PART OF NO. 1 HOLD		

SHELL PLATING.			
DESCRIPTION	1/2 L Ø	ENDS	RIV OF BUTT.
BRIDGE DK SHEER STRAKE	47' x 72"		4R.
POOP DK SIDE	70"	38"	2R.
F'CLE DK SIDE		42"	2R.
UPPER DK SHEER STRAKE	47' x 94" 70" UNDER BRIDGE	46"	5R. 3R.
L. STRAKE	78" 70" UNDER BRIDGE	46"	4R. 3R.
F. G. H & J. STRAKES	70"	46"	4R. 3R.
A. B. C. E. STRAKES	70"	48"	4R. 3R.

NB:- A. B. & C. STRAKES TO MAINTAIN THEIR MIDSHIP THICKNESS TO COLLISION BULKHEAD - 18" - 70" AT 33' F.S. & 64" AT 27' F.S.



A. J. J. J.
18-6-1920

Ship's Name or No.	33. <i>Toku-yo Maru</i>
Name of Drawing	MIDSHIP SECTION.
P. No.	Sending No. 9812

(株式会社淺野造船所)



R. Tanaka



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