

NO 277

MIDSHIP SECTION.

SCALE 1/2 INCH TO ONE FOOT.

400'-0" x 54'-6" x 30'-0"

ONLY SECTIONS USED FOR THE SHIP

5" x 3" x 7/8" ANGLE
3 1/2" x 3 1/2" x 7/8"
4" x 4" x 5/8"
5" x 5" x 3/4" & 7/8"
8" x 3 1/2" x 5/8" & 5/4" B. ANGLE
9" x 3 1/2" x 5/8" & 5/4"
6" x 3" x 1/2"

SCANTLING NUMERALS		
B	54.5	
D	+ 30.0	
L	84.5	TRANSVERSE NO.
L	+ 400.0	
L	33,900.0	LONGITUDINAL NO.
D	TO UPPER DS	13.3
D	TO BRIDGE DS	10.6
d	18" x 2 1/2"	1/8" OF ENDS OVER RULE
	2 1/2"	HEIGHT OF BR. BRACKET
	18'-0"	

EQUIPMENT NUMBERS		
(B+D) x L	33,800.0	
POOP	1/2" x 38.75" x 7.75"	225.2
BRIDGE	1/2" x 31.0" x 7.75"	709.3
PELS	1/2" x 40.25" x 7.5"	226.4
PEL HOUSE	1/2" x (59.75" x 27.5") x 7.75"	338.1
EQUIPMENT NO.	35,200.0	
EQUIPMENT AS PER RULE		

FORGINGS & CASTINGS	
STEM	10 1/2" x 2 1/2" WROUGHT IRON
STERN FRAME CAST STEEL (WITH APERTURE AS PER PLAN)	
BULDER	FORGED STEEL (SINGLE PLATE TYPE) AS PER PLAN

FRAMINGS	
FRAME SPACE	24" IN BOTH PEAKS
	27" FROM FORWARD OF ST. TO CO. BHD.
	33" IN OTHERS
IN PEAKS	8" x 3 1/2" x 50" B.A.
IN WAY OF	5" x 3 1/2" x 50" B.A. WITH REVERSE FRAME
33 F.S.	3 1/2" x 3 1/2" x 70" TO 2ND DS.
IN WAY OF	8" x 3 1/2" x 50" B.A. WITH REVERSE FRAME
27 F.S.	3 1/2" x 3 1/2" x 70" TO 2ND DS.
IN WAY OF	8" x 3 1/2" x 50" B.A. WITH REVERSE FRAME
PEAKS	3 1/2" x 3 1/2" x 70" TO 2ND DS.

RIVETING		
END CONNECTION	IN WAY OF	
FOR 1/2" L.B.	AT ENDS	
FLAT KEEL PLATE	LAPPED & 4R (3R FOR 7/8" UNDER)	4R-3R
BOTTOM PLATING (A-E)	4R (3R FOR 7/8" UNDER)	4R-3R
SIDE	4R (3R FOR 7/8" UNDER)	4R-3R
STRAKE BELOW (K)	3R (2R FOR 7/8" UNDER)	4R-3R
SHEER STRAKE (L)	3R (2R FOR 7/8" UNDER)	4R-3R
STRAKE BELOW (M)	LAPPED & 4R	4R-3R
BRIDGE SHEER STRAKE (N)	3R (2R FOR 7/8" UNDER)	4R-3R
TANK TOP M.L. STRAKE	2R	1R
MARGIN PLATE	3R	3R
CENTRE GIRDER PLATE	3R	3R
BRIDGE DS STRINGER PL.	3R	3R
PLATE	4R-3R	2R
UPPER DS STRINGER PL.	3R (1R FOR 7/8" UNDER)	3R
PLATE	3R (1R FOR 7/8" UNDER)	2R
2ND DS STRINGER PL.	3R	3R
PLATE	2R	1R
BOSS PLATE	4R	
EDGE DS SIDE PLATE	2R	
STRINGER PL.	2R	
PLATE	1R	
POOP DS SIDE PLATE	2R	
STRINGER PL.	2R	
PLATE	1R	

EDGE CONNECTION		
SHELL LANDING	ALL FOR & A.T. INCLUDING SHEER STRAKE	
TANK TOP M.L. STRAKE	3R ALL FOR & A.T.	
TANK TOP PL. & MARGIN PL.	1R	
DS STRINGER PL. TO DS PL.	1R	
DS PLATE TO DS PLATE	1R	
FRAME TO SHELL CONNECTION		
PITCH	DIA. OF RIVET	
IN F&A. PEAK TANKS	5/8" D.	7/8"
AT 23 F.S.	5/8" D.	1"
IN BOTTOM	5/8" D.	1"
AT 27 F.S.	5/8" D.	1"
IN WAY OF	5/8" D.	1"
OTHERS	7/8" D.	1 1/2"
FRAME TO DS CONNECTION		
PITCH	DIA. OF RIVET	
IN WAY OF	5/8" D.	1"
OTHERS	7/8" D.	1 1/2"
FRAME TO REVERSE FRAME CONNECTION		
PITCH	DIA. OF RIVET	
IN WAY OF	5/8" D.	1"
OTHERS	7/8" D.	1 1/2"

POOP & FORECASTLE DECKS		
POOP DS	EVERY FRAME	8" x 3 1/2" x 50" B.A.
BEAM	21" x 1 1/2" x 7/8"	27" x 1 1/2" x 7/8"
KNEE	35" x 1 1/2" x 7/8"	35" x 1 1/2" x 7/8"
STRINGER PL.	1/2" x 38"	1/2" x 38"
ANGLE	1/2" x 3 1/2" x 7/8"	1/2" x 3 1/2" x 7/8"
SIDE PLATING	1/2" x 38"	1/2" x 38"
STEEL DS	1/2" x 38"	1/2" x 38"
WOOD DS	NO WOOD PLANK	3" WOOD PLANK

BOAT DECK	
BEAM	SPACED ABOUT 4" x 5" APART 6" x 3" x 46" B.A.
KNEE	12" x 1 1/2" x 7/8"
STRINGER PL.	1/2" x 38"
STEEL PLATE	1/2" x 38"
DS PLANK	3" WOOD PLANK

BRIDGE DS	
BEAM	EVERY FRAME 8" x 3 1/2" x 50" B.A. (2 ROW SIZE)
KNEE	24" x 1 1/2" x 7/8"
STRINGER PL.	1/2" x 38" FOR 1/2" L.B. 35" x 1 1/2" x 7/8" AT ENDS
ANGLE	1/2" x 3 1/2" x 7/8" IN WAY OF BRIDGE
STEEL DS	1/2" x 38"
WOOD DS	NO WOOD PLANK WHERE EXPOSED

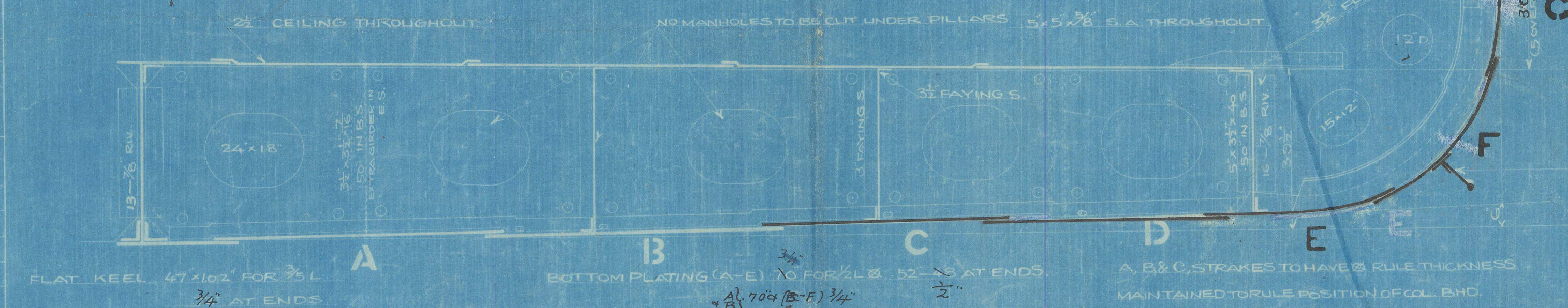
UPPER DS	
BEAM	EVERY FRAME 8" x 3 1/2" x 50" B.A. (2 ROW SIZE)
KNEE	25" x 1 1/2" x 7/8"
STRINGER PL.	1/2" x 38" FOR 1/2" L.B. 35" x 1 1/2" x 7/8" AT ENDS
ANGLE	1/2" x 3 1/2" x 7/8" IN WAY OF BRIDGE
STEEL DS	1/2" x 38" FOR 1/2" L.B. 35" x 1 1/2" x 7/8" AT ENDS
WOOD DS	NO WOOD PLANK

2ND DS	
BEAM (33 F.S.)	EVERY FR. 9" x 3 1/2" x 56" B.A. (2 ROW SIZE)
(27' -)	8" x 3 1/2" x 54" B.A. (2)
KNEE (33' -)	28" x 1 1/2" x 7/8"
(27' -)	26" x 1 1/2" x 7/8"
STRINGER PL.	1/2" x 38" FOR 1/2" L.B. 35" x 1 1/2" x 7/8" AT ENDS
ANGLE	1/2" x 3 1/2" x 7/8" IN WAY OF BRIDGE
STEEL DS	1/2" x 38" FOR 1/2" L.B. 35" x 1 1/2" x 7/8" AT ENDS
WOOD DS	NO WOOD PLANKING

DOUBLE BOTTOM			
FOR 1/2" L.B.	AT ENDS	IN B.S.	REMARKS
CENTRE GIRDER	43" x 50"	40"	60" TOP & BOTH SIDES FLANGED EXCEPT IN E.S.
SIDE GIRDER	40"	36"	50" FORWARD OF 1/2" L.B. & UNDER BOILER BEARERS
TOP ANGLE	3 1/2" x 3 1/2" x 7/8"	1 1/2"	50" FITTED IN E.S. FORWARD OF 1/2" L.B. & UNDER BOILER BEARERS
VERT. ANGLE			UNDER BOILER BEARERS
BOTTOM ANGLE			TOP FLANGED EXCEPT IN E.S. FORWARD OF 1/2" L.B. & UNDER BOILER BEARERS
FLOOR PLATE	40"	36"	50" DOUBLED FORWARD OF 1/2" L.B. TO COL. BHD.
FRAME ANGLE	3 1/2" x 3 1/2" x 7/8"	1 1/2"	50" DOUBLE IN E.S. & UNDER BOILER BEARERS
REVERSE ANGLE			50" 50" IN E.S.
M.L. STRAKE	43" x 50"	40"	30" x 50" AT AFT END
TANK TOP PLATE	44" x 1 1/2" x 7/8"	40"	50" 50" IN E.S.
MARGIN PLATE	35" x 50"	32" x 1 1/2"	50" 50" IN E.S.
ANGLE	4" x 4" x 5/8"	5/8"	50" 50" IN E.S.
BOTTOM ANGLE	5" x 5" x 3/8"	5/8"	50" 50" IN E.S.
TOP ANGLE	5" x 5" x 3/8"	5/8"	50" 50" IN E.S.
VERT. ANGLE	5" x 5" x 3/8"	5/8"	50" 50" IN E.S.

FRAME BRACKET FOR 1/2" L.B. 35" x 1 1/2" x 7/8" AT ENDS 50" IN B.S. 5/8"

GUSSET ANGLE 3 1/2" x 3 1/2" x 7/8" 50" IN B.S. FITTED TO EVERY FR. AT 35 F.S. TO EVERY 2ND FR. AT 27 F.S.



MITSUBISHI
ZOSEN KAISHA, LTD.
NAGASAKI WORKS
SHIP DESIGN OFFICE A.

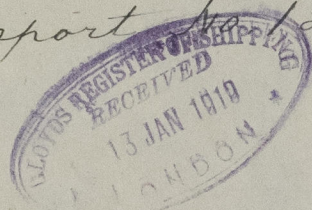
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CHECKED BY
APPROVED BY
DESIGNER'S OFFICE NO. 331177
DATE

Midship section.

No. 277.

Nagasaki.

Report No. 1210.



"Kohnan Mam"

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