

S.N° 486.
MIDSHIP SECTION
435'-0" x 58'-6" x 32'-10"
SCALE 1/4" = ONE FT.
LLOYD'S CLASS +100 A.1.
ONE W.T. BHD. IN FORE HOLD OMITTED.

N.B. ALL THE SECTIONS USED THROUGHOUT THE SHIP ARE REVISED BRITISH STANDARD SECTIONS.

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

SCANTLING NUMERALS (L x D)		
1ST LONG	L x D	14281
2ND "	L x (B+D)	39729
PROPORTION TO UPPER DECK	%	13.25
" " BRIDGE DECK	"	10.72
% OF LENGTH OF SUPERSTRUCTURES TO SHIP'S LENGTH		45.51

EQUIPMENT NO.		
L x (B+D)	435 x (58.5 + 32.5)	39729
FOUR	412 x 75 x 75	232
BRIDGE	1265 x 75 x 75	735
POOP	3038 x 75 x 75	171
BRIDGE DECK HOUSE	66 x 8.0 x 10	268
BOAT "	22 x 8.0 x 10	99
SUM		41230

EQUIPMENTS.		
3 - BOWER ANCHORS, STOCKLESS; COLLECTIVE WT.	207	CWT
1 - STREAM ANCHOR, ORDINARY EX. STOCK	207	
STUD. CHAIN CABLE	300 FMS	5% D
STEEL WIRE FOR STREAM ANCHOR	1-120 "	5% CIR
TOW LINE, STEEL WIRE	1-180 "	5% CIR
HAWERS, MANILA	2-100 "	5% CIR
WARDS, "	2-100 "	5% CIR

LOADING & CASTING.		
STEM	10 x 12	
STERN FRAME	RUPPER POST. 10 x 12	BY OWNERS REQUEST
	GRADE HEAVIER THAN RULES.	

KEEL & SHELL PLATING.		
KEEL PLATE	5" x 82" ~ 75"	
BOTTOM	6" x 82" ~ 58" x 49"	
SIDE	6" x 82" ~ 150" x 46"	
BOSS	75"	
FOUR SIDE PLATE	42"	
BRIDGE	62"	
POOP	40"	
SHEER STRAKE	72" x 24" (RULE 51" x 57") ~ 150" x 46"	
STRAKE BELOW	50" x 20" (RULE 51" x 57") ~ 150" x 46"	
SHEER STRAKE DOUBLED WITH 20" AT BRIDGE ENDS.		

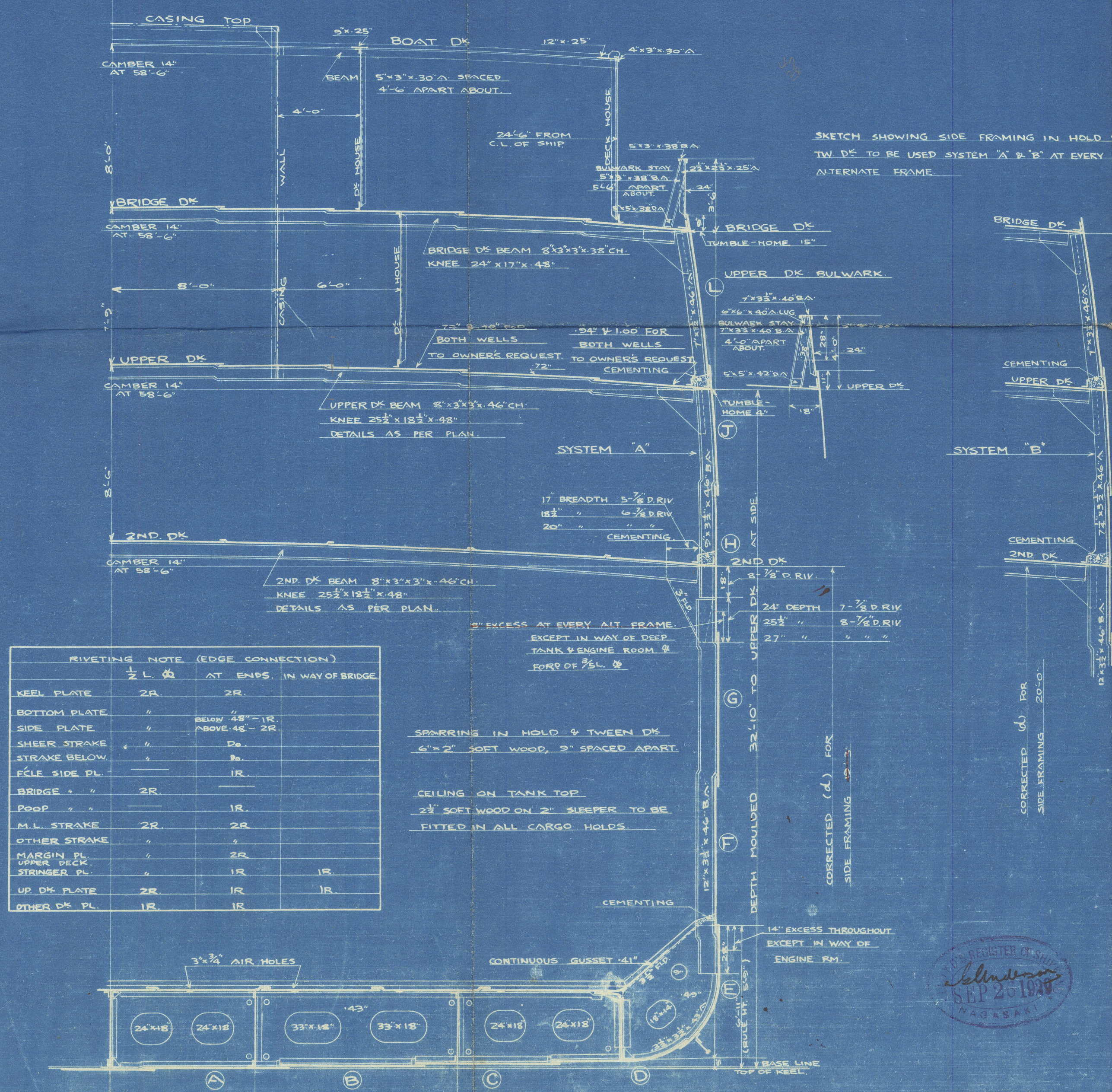
ENGINE CASING.		
COAMING PLATE	30" x 34" WHERE EXPOSED.	
CASING	20" x 30"	
COAMING ANGLE	3" x 3" x 30" / 3" x 3" x 24"	
STIFFENERS	3" x 3" x 30" / 3" x 3" x 24"	30" SPACED APART.

DECK HOUSES.			
	UPPER DECK	BRIDGE DECK	BOAT DECK
HOUSE PLATE	25"	25"	20"
COAMING ANGLE	6" x 3" x 30" / 6" x 3" x 24"	6" x 3" x 30" / 6" x 3" x 24"	6" x 3" x 30" / 6" x 3" x 24"
TOP	3" x 3" x 30" / 3" x 3" x 24"	3" x 3" x 30" / 3" x 3" x 24"	3" x 3" x 30" / 3" x 3" x 24"
STIFFENERS	3" x 3" x 30" / 3" x 3" x 24"	3" x 3" x 30" / 3" x 3" x 24"	3" x 3" x 30" / 3" x 3" x 24"
SPACING	30" LOWER WHERE UNDER (CONCRETE)	30" LOWER WHERE UNDER (CONCRETE)	30"
ALL DIVISIONAL STEEL WALL			

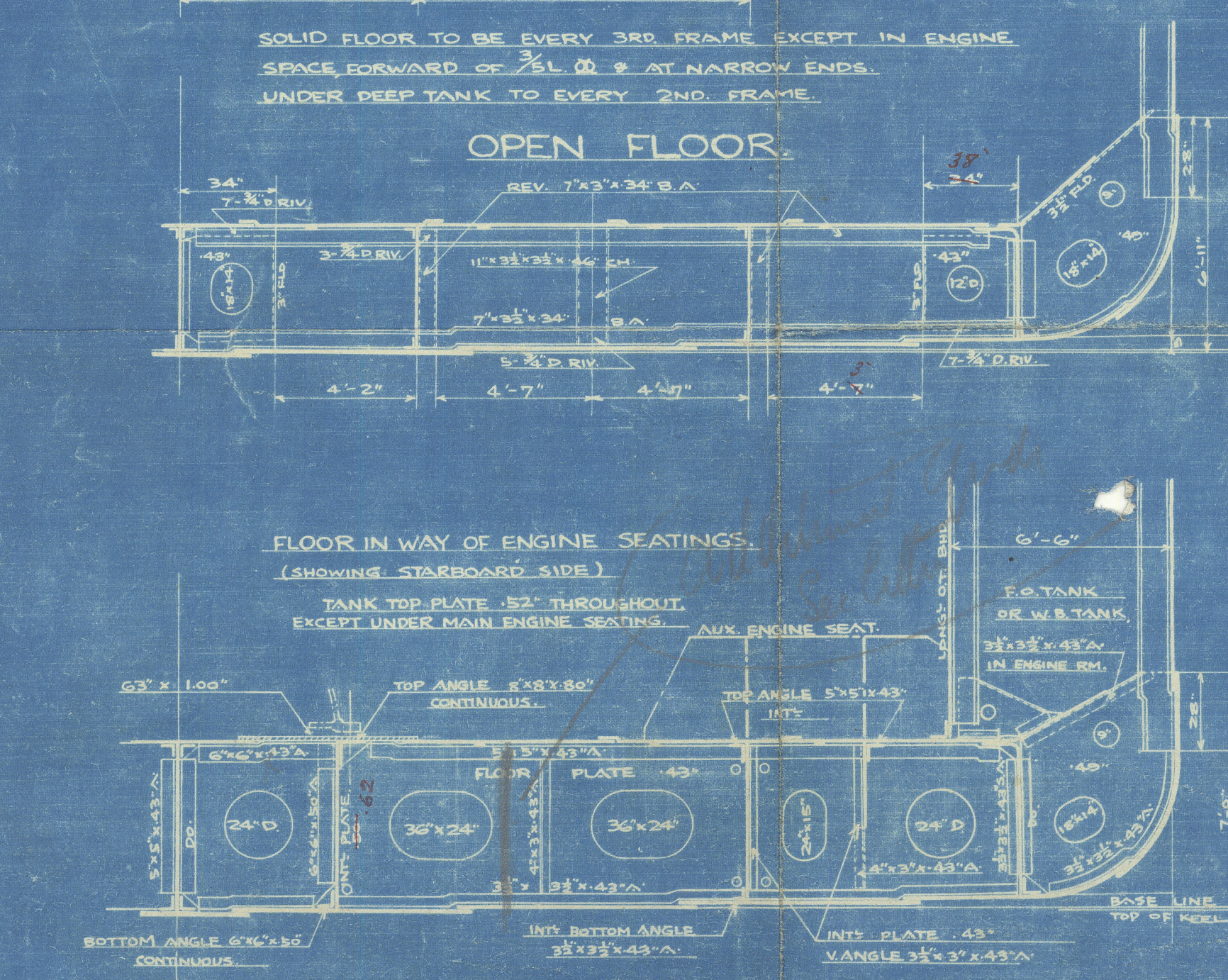
BULK PLATE.		
DOUBLE KEELS (ABOUT 170 FT. MIDSHIPS)	10" x 44"	
CONNECTING ANGLE	8" x 3" x 42"	
DEPTH OF GIRD.	12"	

DOUBLE BOTTOM.			
	PLATES	ENGINE SPACE	REMARKS.
CENTRE	45" x 85" ~ 45"	60" x 85"	
GIRDER	4" x 12" x 50" ~ 50"	4" x 12" x 50" ~ 50"	5" x 8" x 50" UNDER THRUST SEATING.
SIDE	4" x 12" x 50" ~ 50"	4" x 12" x 50" ~ 50"	5" x 8" x 50" UNDER THRUST SEATING.
GIRDER	4" x 12" x 50" ~ 50"	4" x 12" x 50" ~ 50"	5" x 8" x 50" UNDER THRUST SEATING.
SOID	4" x 12" x 50" ~ 50"	4" x 12" x 50" ~ 50"	5" x 8" x 50" UNDER THRUST SEATING.
FLOOR	4" x 12" x 50" ~ 50"	4" x 12" x 50" ~ 50"	5" x 8" x 50" UNDER THRUST SEATING.
WT	4" x 12" x 50" ~ 50"	4" x 12" x 50" ~ 50"	5" x 8" x 50" UNDER THRUST SEATING.
FLOOR	4" x 12" x 50" ~ 50"	4" x 12" x 50" ~ 50"	5" x 8" x 50" UNDER THRUST SEATING.
INNER	4" x 12" x 50" ~ 50"	4" x 12" x 50" ~ 50"	5" x 8" x 50" UNDER THRUST SEATING.
BOTTOM	4" x 12" x 50" ~ 50"	4" x 12" x 50" ~ 50"	5" x 8" x 50" UNDER THRUST SEATING.

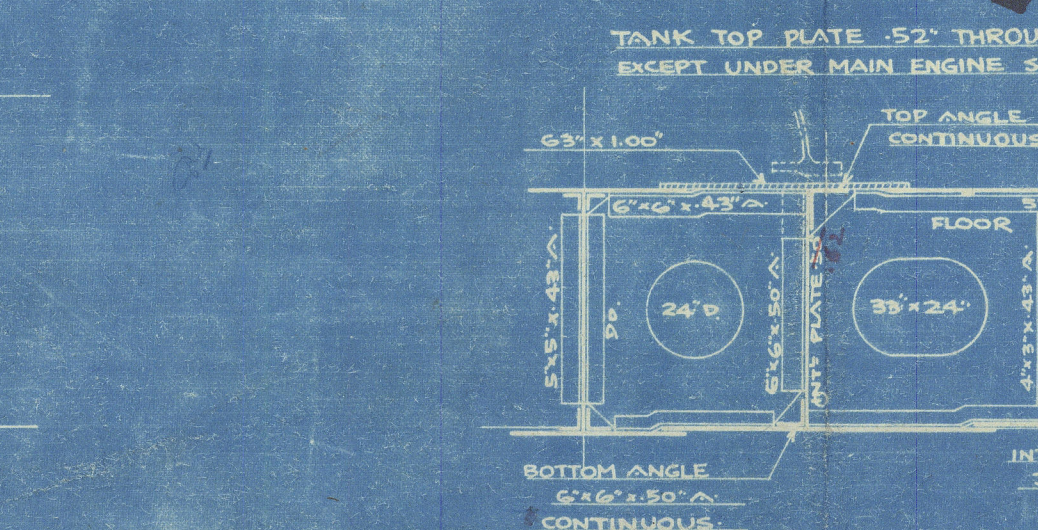
STRENGTHENING OF BOTTOM FORWARD.		
FROM FORWARD OF 3/4 L. D. TO COLLISION SHD.		
PITCH OF RIVETS IN FRAMES TO BE 5" D. (TWO COMPLETE ROWS ON FRAMES 5" x 43" FROM MARGIN PLATE TO MARGIN PLATE)		
INT. GIRDER EXTENDING AS FAR FORWARD AS PRACTICABLE.		
LOWER PLATE OR INT. SIDE GIRDERS ARE NOT TO BE PLACED.		
SHELL PLATING, THREE STRAKES NEXT THE KEEL TO HAVE MIDSHIP THICKNESS 1/2" MAINTAINED. FORWARD TO COLLISION SHD.		



RIVETING NOTE (EDGE CONNECTION)		
KEEL PLATE	2R.	AT ENDS. IN WAY OF BRIDGE
BOTTOM PLATE	2R.	AT ENDS. IN WAY OF BRIDGE
SIDE PLATE	2R.	AT ENDS. IN WAY OF BRIDGE
SHEER STRAKE	2R.	AT ENDS. IN WAY OF BRIDGE
FOUR SIDE PL.	2R.	AT ENDS. IN WAY OF BRIDGE
BRIDGE	2R.	AT ENDS. IN WAY OF BRIDGE
POOP	2R.	AT ENDS. IN WAY OF BRIDGE
M.L. STRAKE	2R.	AT ENDS. IN WAY OF BRIDGE
OTHER STRAKE	2R.	AT ENDS. IN WAY OF BRIDGE
MARGIN PL.	2R.	AT ENDS. IN WAY OF BRIDGE
UPPER DECK PL.	2R.	AT ENDS. IN WAY OF BRIDGE
OTHER DECK PL.	2R.	AT ENDS. IN WAY OF BRIDGE



END CONNECTIONS.		
KEEL PLATES	LAPPED 5/8"	IN WAY OF BRIDGE DECK
BOTTOM PLATES	LAPPED 5/8"	IN WAY OF BRIDGE DECK
SIDE PLATES	LAPPED 5/8"	IN WAY OF BRIDGE DECK
SHEER STRAKES	LAPPED 5/8"	IN WAY OF BRIDGE DECK
BELOW STRAKES	LAPPED 5/8"	IN WAY OF BRIDGE DECK
BRIDGE SIDE PLATES	LAPPED 5/8"	IN WAY OF BRIDGE DECK
FOUR & POOP SIDE	LAPPED 5/8"	IN WAY OF BRIDGE DECK
INNER BOTTOM	LAPPED 5/8"	IN WAY OF BRIDGE DECK
M.L. STRAKE	LAPPED 5/8"	IN WAY OF BRIDGE DECK
OTHER STRAKES	LAPPED 5/8"	IN WAY OF BRIDGE DECK
MARGIN PLATES	LAPPED 5/8"	IN WAY OF BRIDGE DECK
CENTRE GIRDERS	LAPPED 5/8"	IN WAY OF BRIDGE DECK
UPPER DECK STRINGER PL.	LAPPED 5/8"	IN WAY OF BRIDGE DECK
FOUR & POOP SIDE	LAPPED 5/8"	IN WAY OF BRIDGE DECK
2ND DECK STRINGER PL.	LAPPED 5/8"	IN WAY OF BRIDGE DECK
FOUR & POOP SIDE	LAPPED 5/8"	IN WAY OF BRIDGE DECK
BRIDGE DECK STRINGER PL.	LAPPED 5/8"	IN WAY OF BRIDGE DECK
FOUR & POOP SIDE	LAPPED 5/8"	IN WAY OF BRIDGE DECK

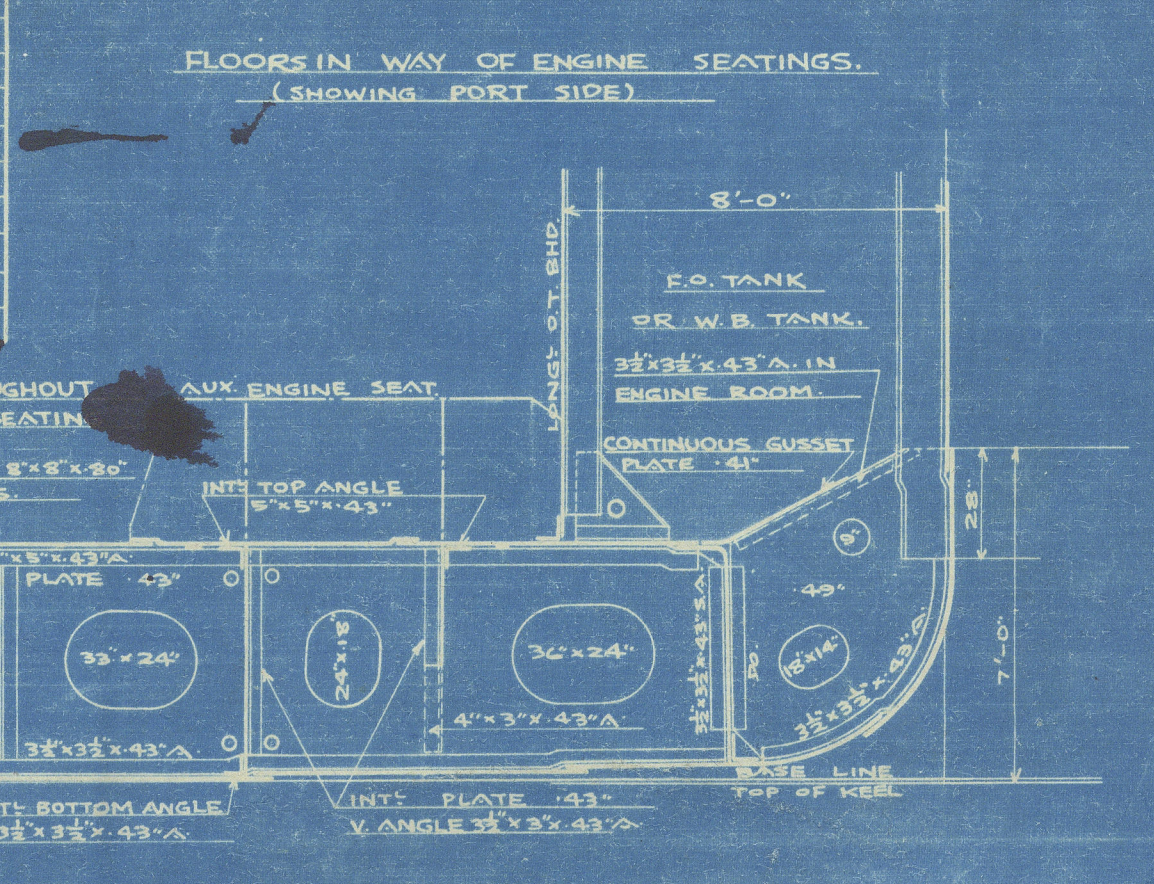


DECKS.			
	BRIDGE DECK	FOUR DECK	POOP DECK
STRINGER PL.	60" x 55"	35" x 36"	37" x 36"
" ANGLES	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"
SHELL	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"
WATER WAY	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"
DECK PLATES	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"
CURTAIN PLATES	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"
WOOD PLANKS	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"	5" x 3" x 30" / 5" x 3" x 24"

TANK SIDE BRACKETS.			
	ENGINE ROOM	10' FROM STEM	CARGO HOLDS
ACTUAL (d)	10"	10"	10"
NO. TO FRAMES	15 - 7/8" D. RIV.	20 - 7/8" D. RIV.	15 - 7/8" D. RIV.
OR TO GUSSET	10 - 7/8" D. RIV.	15 - 7/8" D. RIV.	10 - 7/8" D. RIV.
RIV. TO MARGIN PL.	11 - 7/8" D. RIV.	15 - 7/8" D. RIV.	11 - 7/8" D. RIV.
V. ANGLE ON MARGIN PL.	3" x 3" x 30" / 3" x 3" x 24"	3" x 3" x 30" / 3" x 3" x 24"	3" x 3" x 30" / 3" x 3" x 24"
GUSSET PLATES	CONTINUOUS	CONTINUOUS	CONTINUOUS
IN WAY OF FRAMES	CONTINUOUS	CONTINUOUS	CONTINUOUS
IN WAY OF TANK TOP	CONTINUOUS	CONTINUOUS	CONTINUOUS
IN WAY OF TANK TOP	CONTINUOUS	CONTINUOUS	CONTINUOUS

FRAMINGS.		
	FRAME BRACKETS	
BOTH PEAKS	24"	
FORWARD OF 3/4 L. D.	27"	
ELSE WHERE	33" (RULE 25.42")	

FRAMES IN AFT PEAK TANK.
FRAME 5" x 3" x 30" / 5" x 3" x 24" EXTENDS TO UPPER DECK.
FRAME IN POOP 5" x 3" x 30" / 5" x 3" x 24" EXTENDS TO UPPER DECK.
INTERMEDIATE ANGLE FRAME 5" x 3" x 30" / 5" x 3" x 24" HEEL FREE.
FRAME IN WAY OF TUNNEL RECESS.
FRAME IN TUNNEL 5" x 3" x 30" / 5" x 3" x 24" EXTENDS TO TUNNEL RECESS TOP.
FRAME IN CARGO HOLD 5" x 3" x 30" / 5" x 3" x 24" EXTENDS TO UPPER DECK.
ALTERNATELY HEEL FREE TO TUNNEL RECESS TOP INTERMEDIATE.
FRAME ANGLE IN POOP 5" x 3" x 30" / 5" x 3" x 24" HEEL FREE.
FRAME IN AFT CARGO HOLD.
FRAME 12" x 3" x 30" / 12" x 3" x 24" EXTENDS TO 2ND DECK TUNNEL DECK.
NEXT HOLD FRAME 12" x 3" x 30" / 12" x 3" x 24" EXTENDS TO UPPER DECK.
TO FORM 7" x 3" x 30" / 7" x 3" x 24" BETWEEN UP & 2ND DECK.
(TO BE USED SYSTEM "A" & "B" AT EVERY ALTERNATE FRAME.)
FRAMES IN DEEP TANK & ENGINE RM.
IN DEEP TANK 12" x 3" x 30" / 12" x 3" x 24" EXTENDS TO 2ND DECK.
ALL EXTENDS TO 2ND DECK.
TW. DECK FRAME 5" x 3" x 30" / 5" x 3" x 24" EXTENDS TO UPPER DECK OR BRIDGE DECK, WHERE FITTED HEEL BRACKETED TO DECK.
WEB CUT DOWN TO FORM 7" x 3" x 30" / 7" x 3" x 24" BETWEEN UP & BRIDGE DECK.
NEXT TW. DECK FRAME 7" x 3" x 30" / 7" x 3" x 24" EXTEND TO UP DECK OR BRIDGE DECK.
WHERE FITTED HEEL BRACKETED TO DECK.
(TO BE USED SYSTEM "A" & "B" AT EVERY ALTERNATE FRAME.)
FRAME IN FORE CARGO HOLD.
FRAME 12" x 3" x 30" / 12" x 3" x 24" EXTENDS TO 2ND DECK TW. DECK FRAME 5" x 3" x 30" / 5" x 3" x 24" EXTENDS TO UPPER DECK OR BRIDGE DECK, WHERE FITTED HEEL CONNECTED BELOW FRAME.
NEXT HOLD FRAME 12" x 3" x 30" / 12" x 3" x 24" EXTENDS TO UP DECK OR BRIDGE DECK, WHERE FITTED HEEL CUT DOWN TO FORM 7" x 3" x 30" / 7" x 3" x 24" BETWEEN UP & 2ND DECK.
12" x 3" x 30" / 12" x 3" x 24" BETWEEN UPPER & BRIDGE DECK (TO BE USED SYSTEM "A" & "B" AT EVERY ALTERNATE FRAME.)
FRAME IN WAY OF 27" FRAME SPACING.
FRAME 12" x 3" x 30" / 12" x 3" x 24" EXTENDS TO UPPER DECK DECK WHERE FITTED.
WEB CUT DOWN TO FORM 7" x 3" x 30" / 7" x 3" x 24" BETWEEN 2ND & UP DECK OR POOP DECK.
WHERE FITTED 6" x 3" x 30" / 6" x 3" x 24" BETWEEN UP & POOP DECK ALTERNATELY.
(REV. ANGLE 5" x 3" x 30" / 5" x 3" x 24" TO BE FITTED BELOW 2ND DECK.
(IN WAY OF 15" L. TO FORWARD.) (DISPER DEPTH 10")
FRAME IN FORE PEAK TANK.
FRAME 5" x 3" x 30" / 5" x 3" x 24" EXTENDS TO UPPER DECK FRAME IN POOP 5" x 3" x 30" / 5" x 3" x 24" EXTENDS TO UPPER DECK.
INTERMEDIATE ANGLE 5" x 3" x 30" / 5" x 3" x 24" HEEL BRACKETED TO DECK.
(TO BE USED SYSTEM "A" & "B" AT EVERY ALTERNATE FRAME.)
N.B. - SEE ALSO CONSTRUCTION PROFILE & DECK PLAN.



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

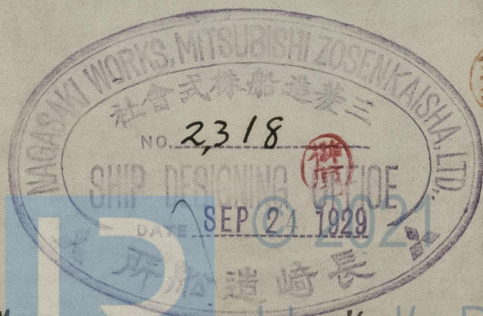


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SN: 486.

MIDSHIP SECTION.

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



"Koryu Maru"

Aug. 1808

Lloyd's Register
Foundation