

ALL MATERIALS TO BE QUALIFIED  
FOR RULES OF NIPPON KAIJIKYOKAI  
AND LLOYD'S REGISTER OF SHIPPING  
AND MANUFACTURED UNDER THE SPE-  
CIAL SUPERVISION OF THE SURVEYER.  
MOREOVER CARBON CONTENT OF  
CAST STEEL TO BE NOT OVER .23%  
FOR WELDING.

HISTORY

1 JULY 16 '59	ORIGINALLY DRAWN
2 SEP 29 '59	APPROVED BY OWNERS
3 AUG 19 '59	APPROVED BY NK
4 AUG 15 '59	APPROVED BY LRS
5 JUNE 15 '60	FINALLY DRAWN

PARTICULARS OF RUDDER					
1	RUDDER AREA		A		19.9 "²"
2	RUDDER AREA AHEAD CL OF PINNLE		A <sub>a</sub>		14.4 "²"
3	" " BEFORE " " "		A <sub>b</sub> d		8.5 "²"
4	AREA RATIO		A/A <sub>a</sub>		1/6
5	BALANCE RATIO		A/A <sub>a</sub>		1/6
6	MAX SEA SPEED				10 KTS.
7	CENTRE OF GRAVITY AREA AHEAD CL OF PINNLE				0.72 "³"
8	" " " " " A <sub>a</sub> " " " "				1.21 "³"

PARTICULARS OF RUDDER					
1	RUDDER AREA		A		19.9 m <sup>2</sup>
2	RUDDER AREA AHEAD CL OF PINNLE		A <sub>a</sub>		14.4 m <sup>2</sup>
3	" " BEFORE " " "		A <sub>b</sub>		5.5 m <sup>2</sup>
4	AREA RATIO		A/A <sub>a</sub>		1.4
5	BALANCE RATIO				0.6
6	MAX SEA SPEED				10 kts.
7	CENTRE OF G OF AREA A FROM CL OF PINNLE				0.72 m
8	" " " " A <sub>a</sub> " " "				1.21 m

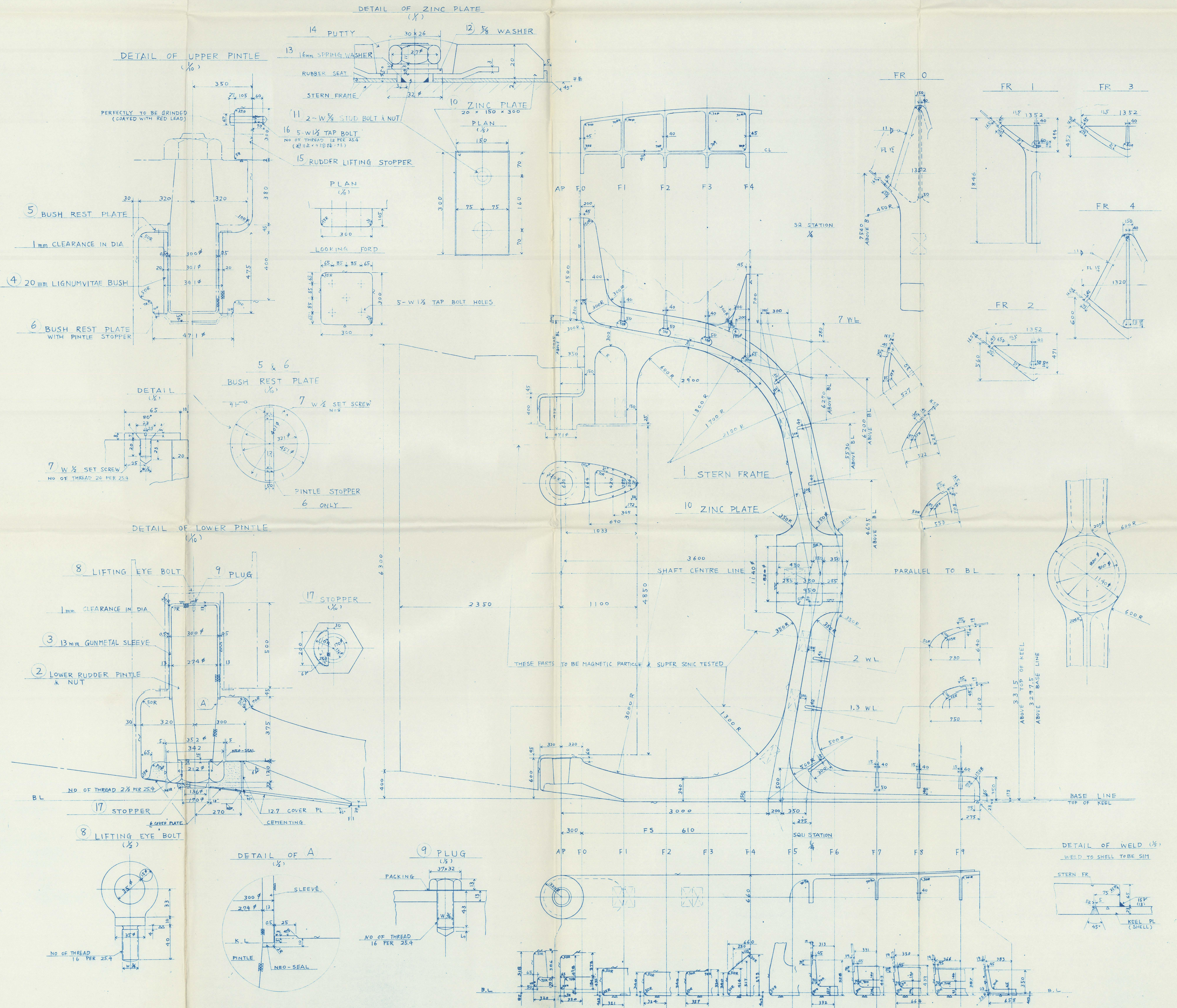
# SUMIDA MARU

## FINISHED PLAN

**YOKOHAMA  SHIPYARD**  
**& ENGINE WORKS**  
 MITSUBISHI NIPPON HEAVY-INDUSTRIES, LTD.  
 HULL DESIGNING DEPARTMENT

DRAWING NO. H02011F

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012193-012202-0255  
60 x 100  
Lloyd's Register  
Foundation





S 836

SUMIDA MARU



STERN FRAME

FINISHED PLAN

SCALE 1:25 DATE DRAWN JUNE 15 '60

YOKOHAMA  SHIPYARD  
& ENGINE WORKS

MITSUBISHI NIPPON HEAVY-INDUSTRIES, LTD.  
HULL DESIGNING DEPARTMENT

APPROVED

*RTsumoto*  
*HO*

CHECKED

*R. Noto*  
*J. Kawasaki*  
*J. Kumazawa*

DRAWN

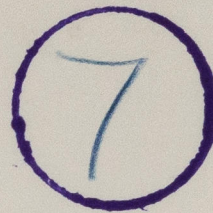
TRACED

DATE ISSUED

DRAWING NO H02011F

LLOYD'S REGISTER  
OF SHIPPING

RECORDS DEPT.  
LONDON



CERTIFIED COPY OF APPROVED PLAN  
PLACE OF APPROVAL Kobe DATE 15.8.59  
CERTIFIED BY *[Signature]* DATE JUL. 1. 1960

M.V. "SUMIDA MARU"  
AS BUILT  
YKA. F.E. Rpt No. 3311



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