331-21

造船協會編

日本近世造船史附圖

印紙
44. 2. 24
寄贈

東京

弘道館發兌

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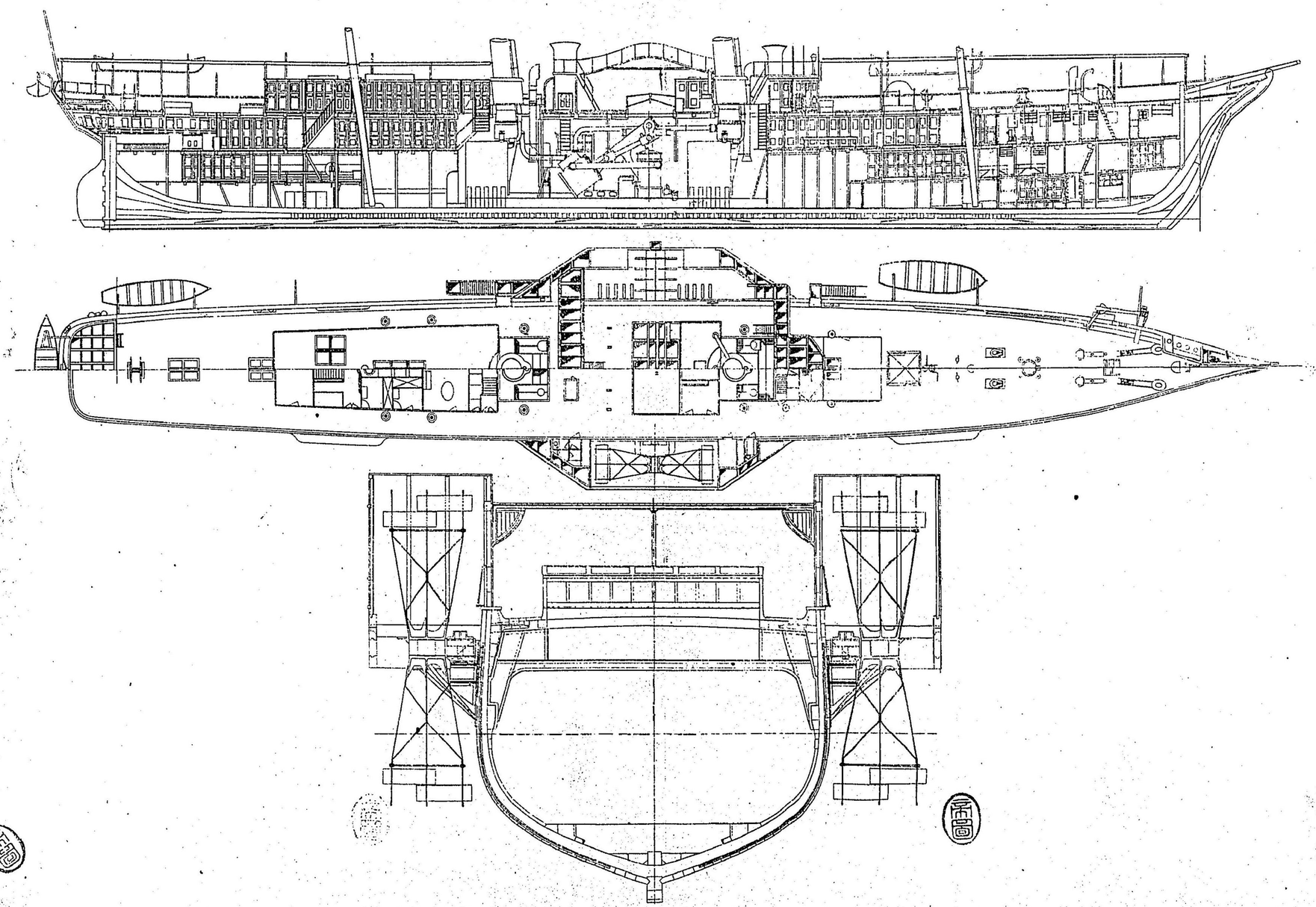
第六拾參圖　たこま丸機關圖（同上參照）

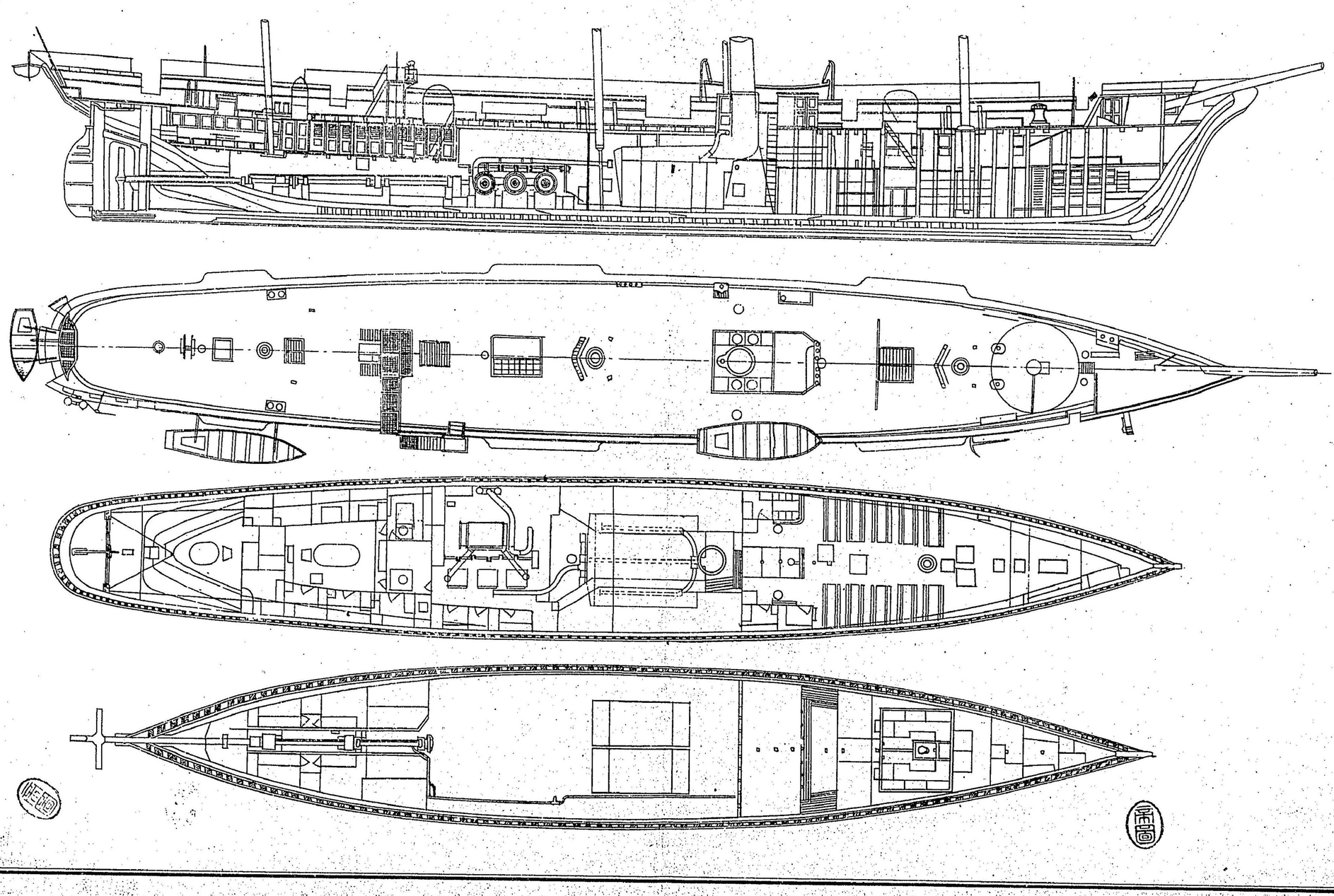
軍艦迅鯨舩體圖

第壹圖



軍艦天城船體圖

第貳圖



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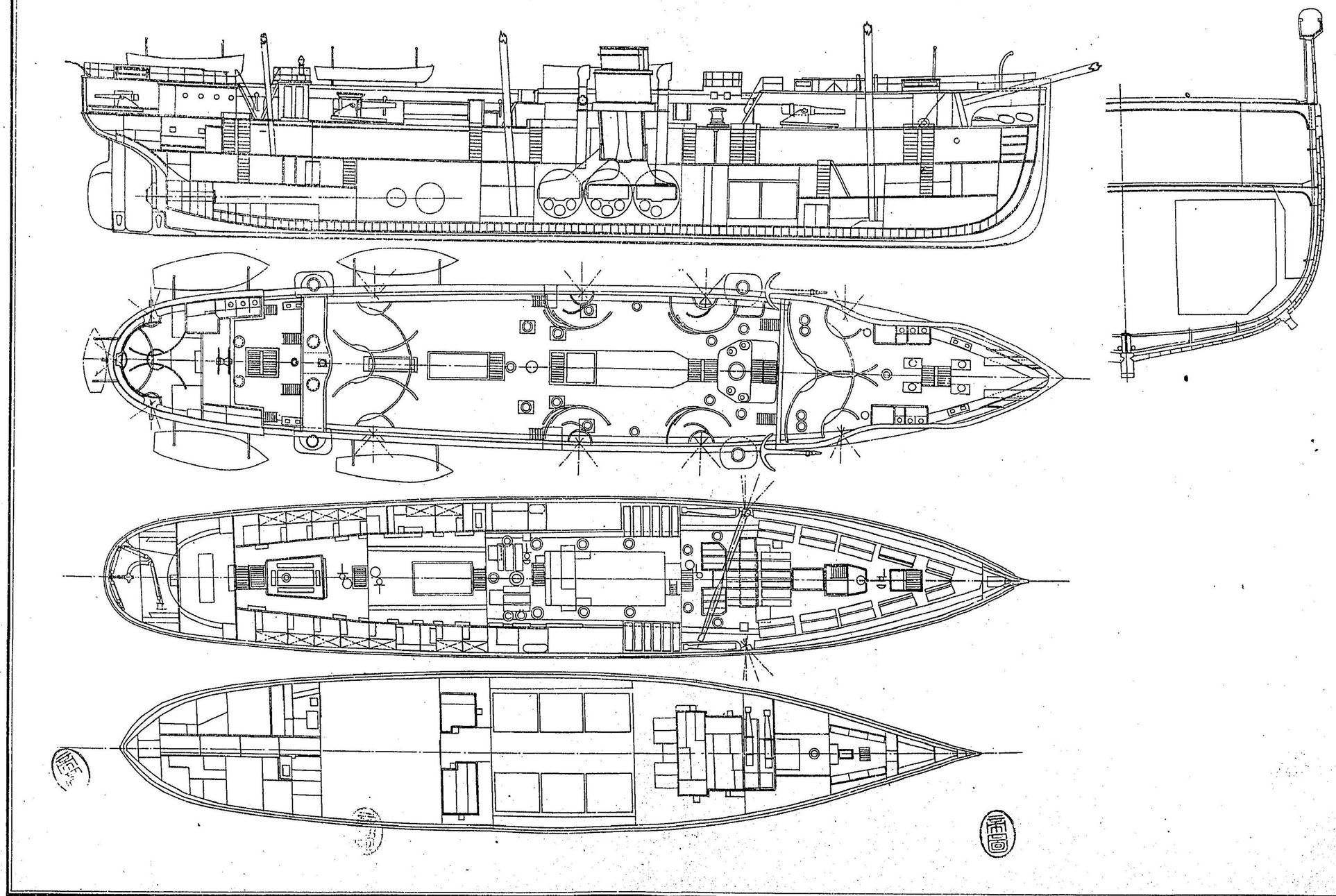
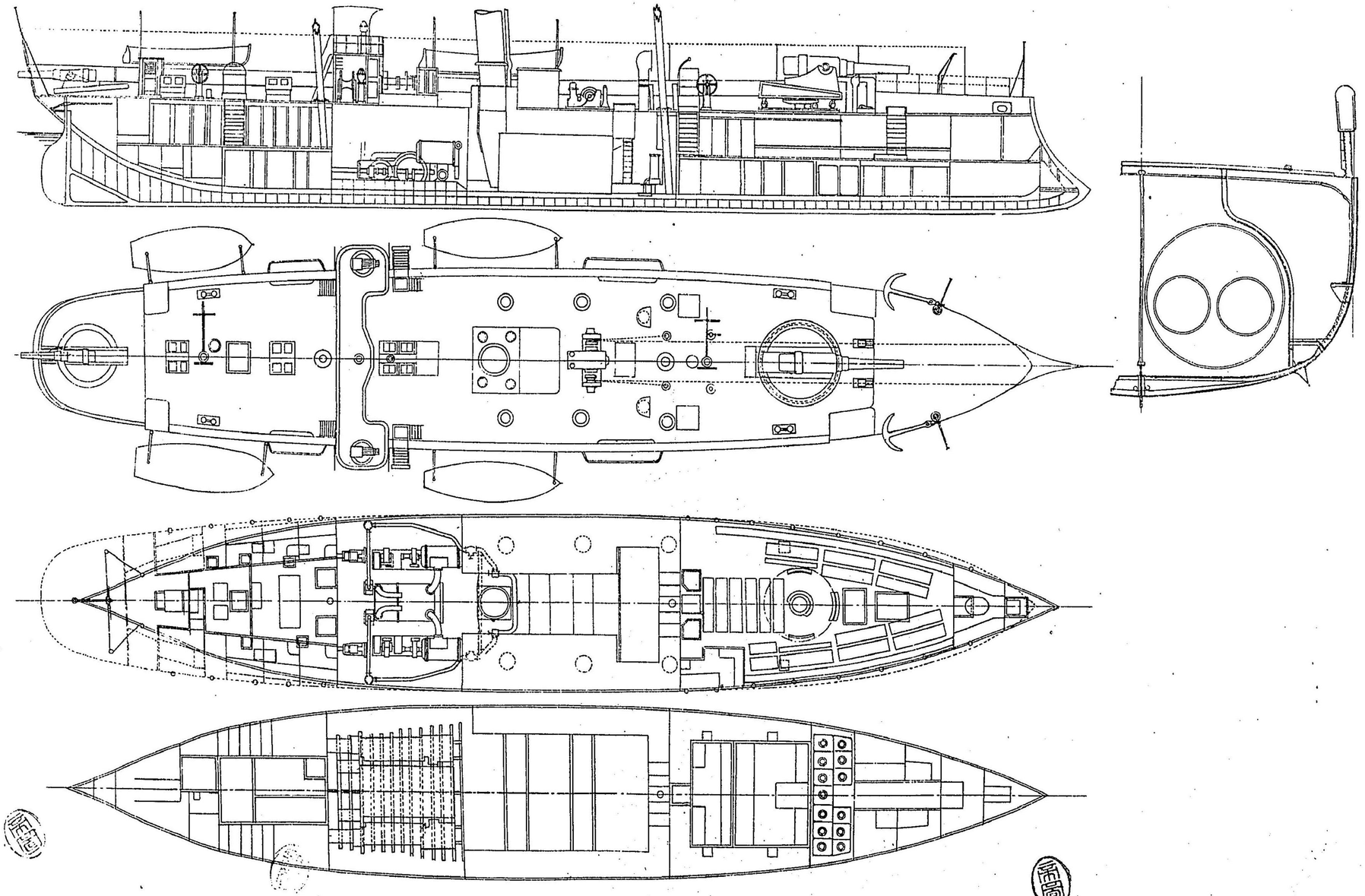


第四圖

軍艦愛宕舩體圖



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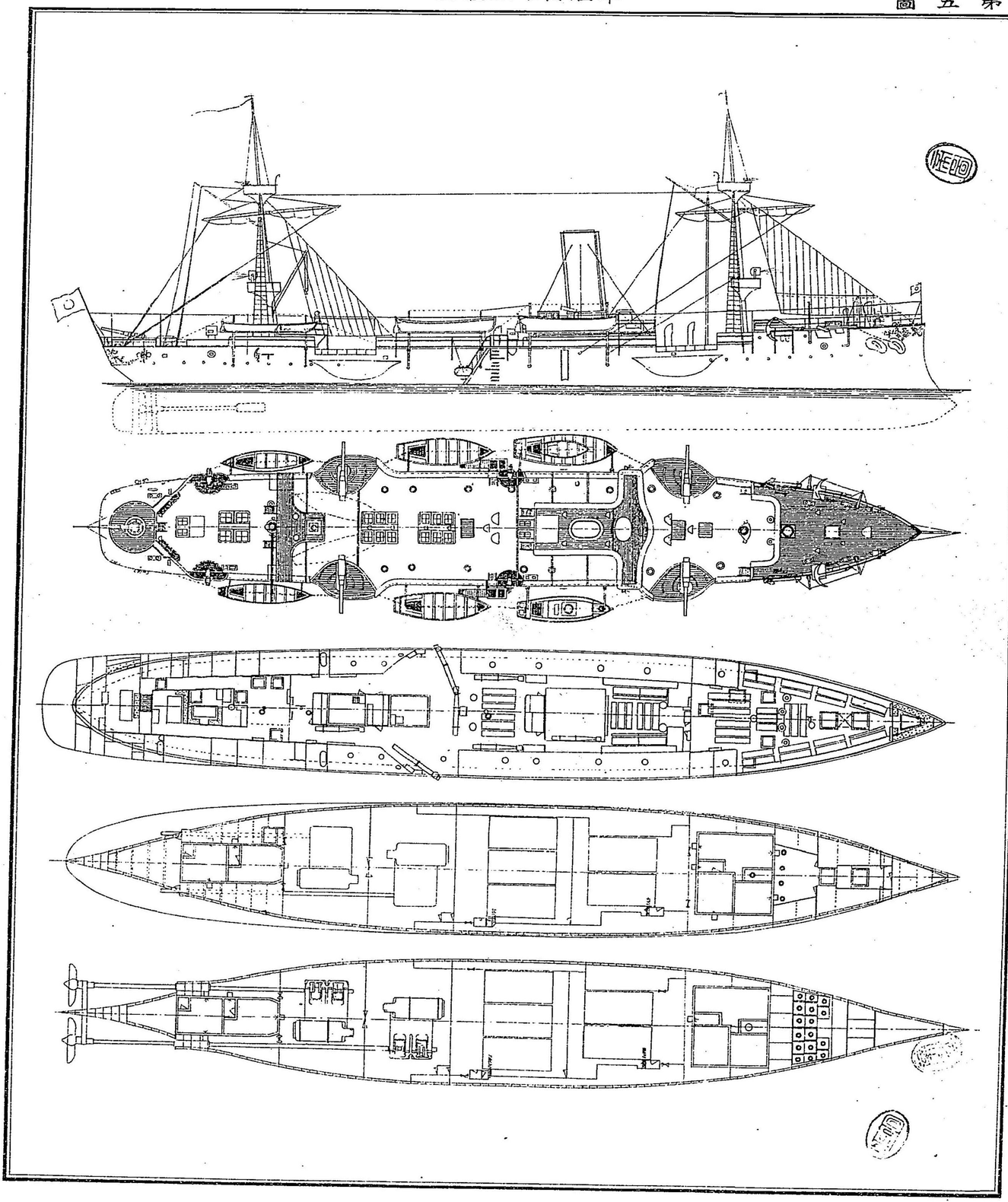
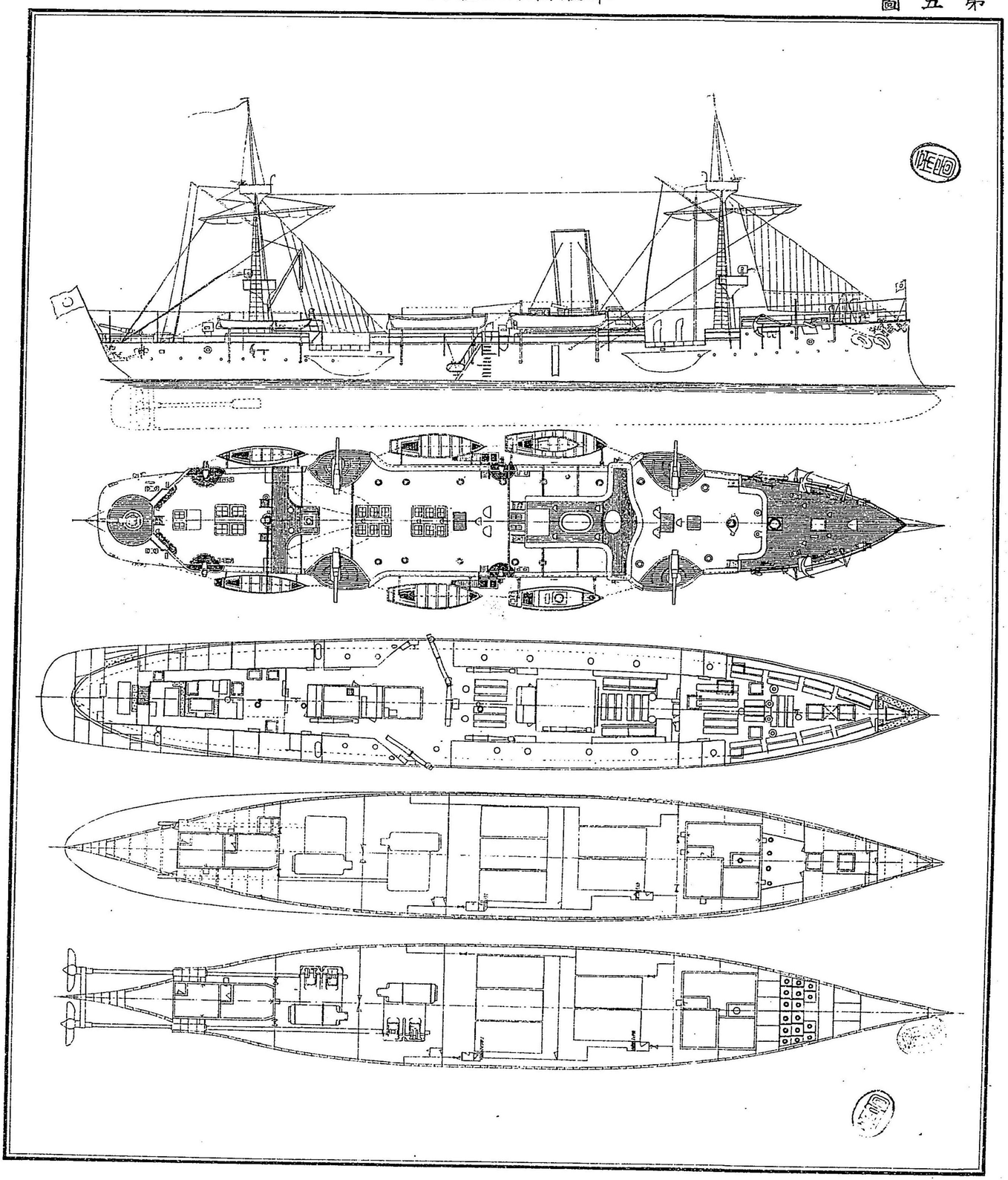
軍艦高雄舩體圖



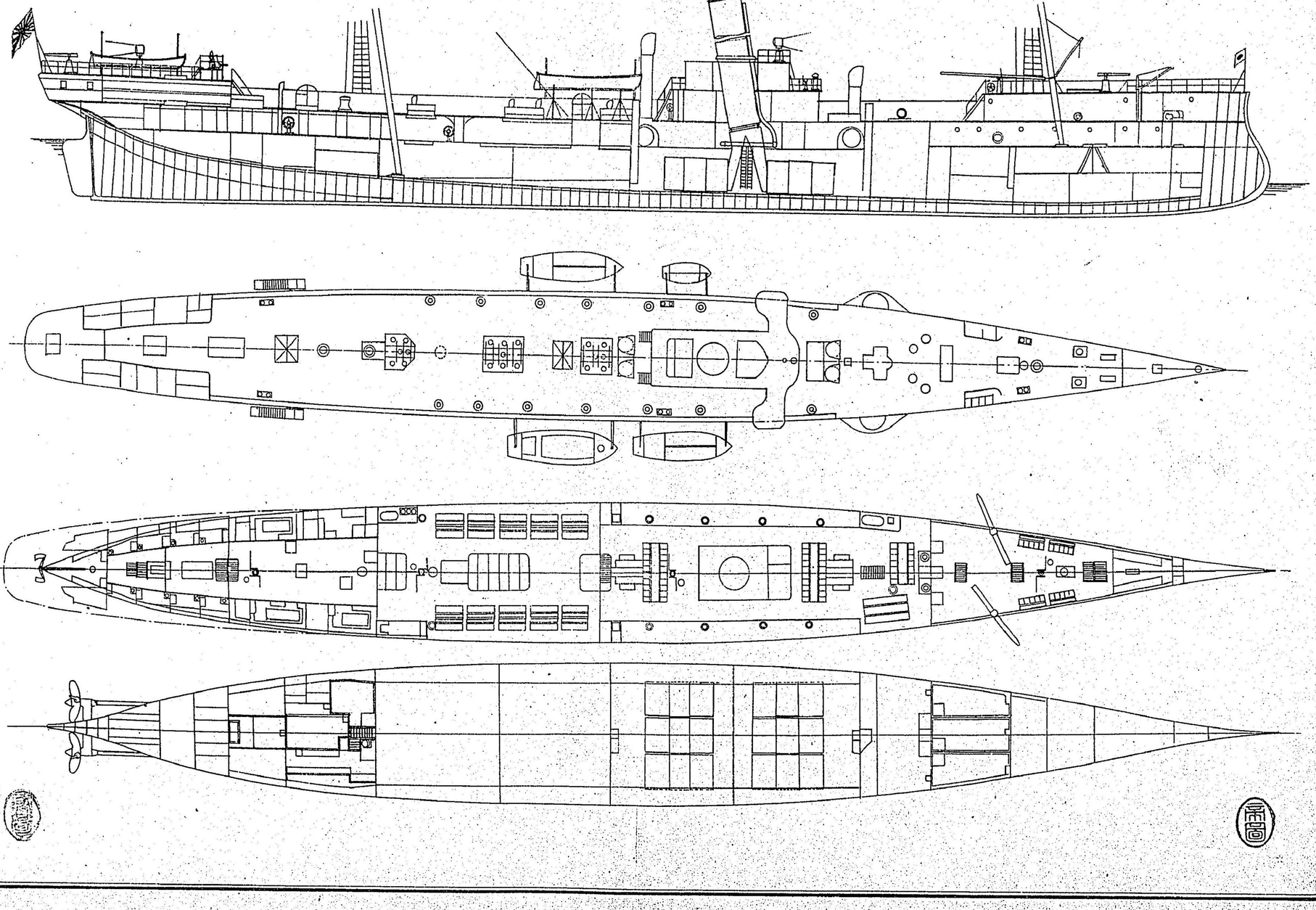
第五圖

軍艦高雄舩體圖



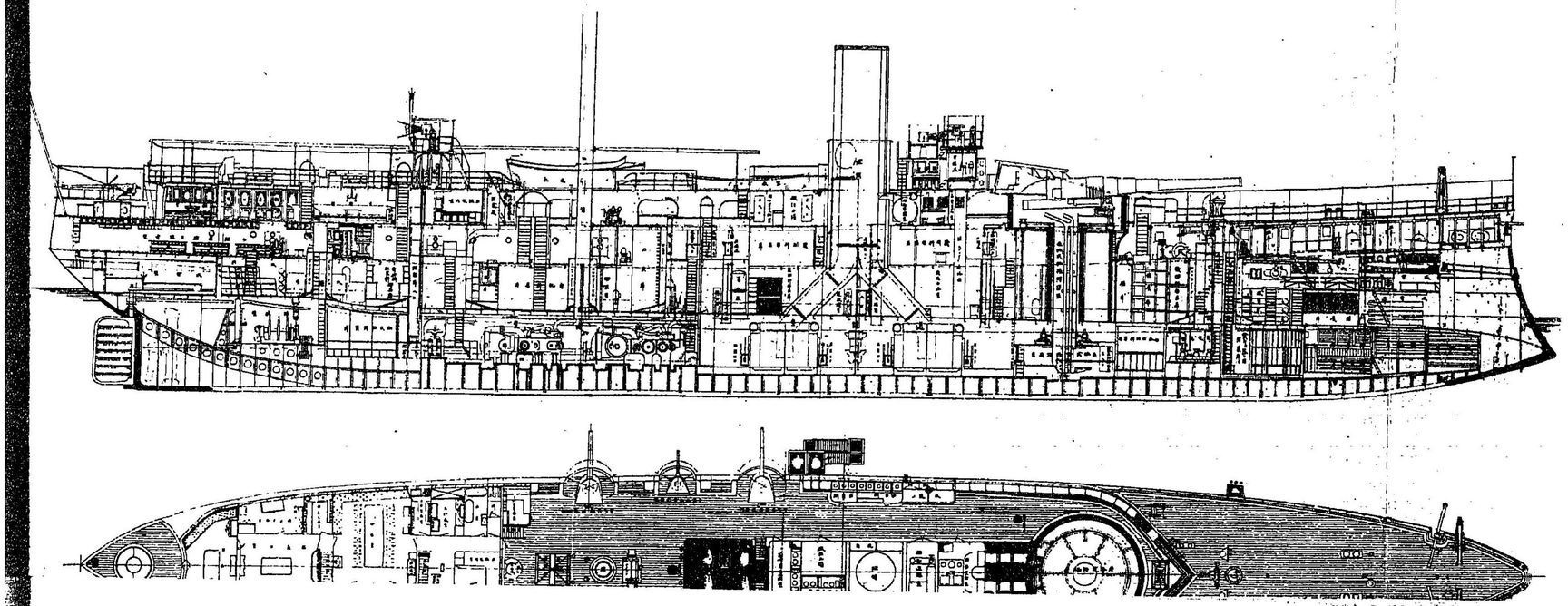
第六圖

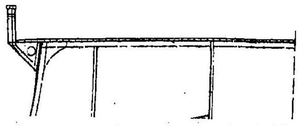
軍艦八重山船體圖



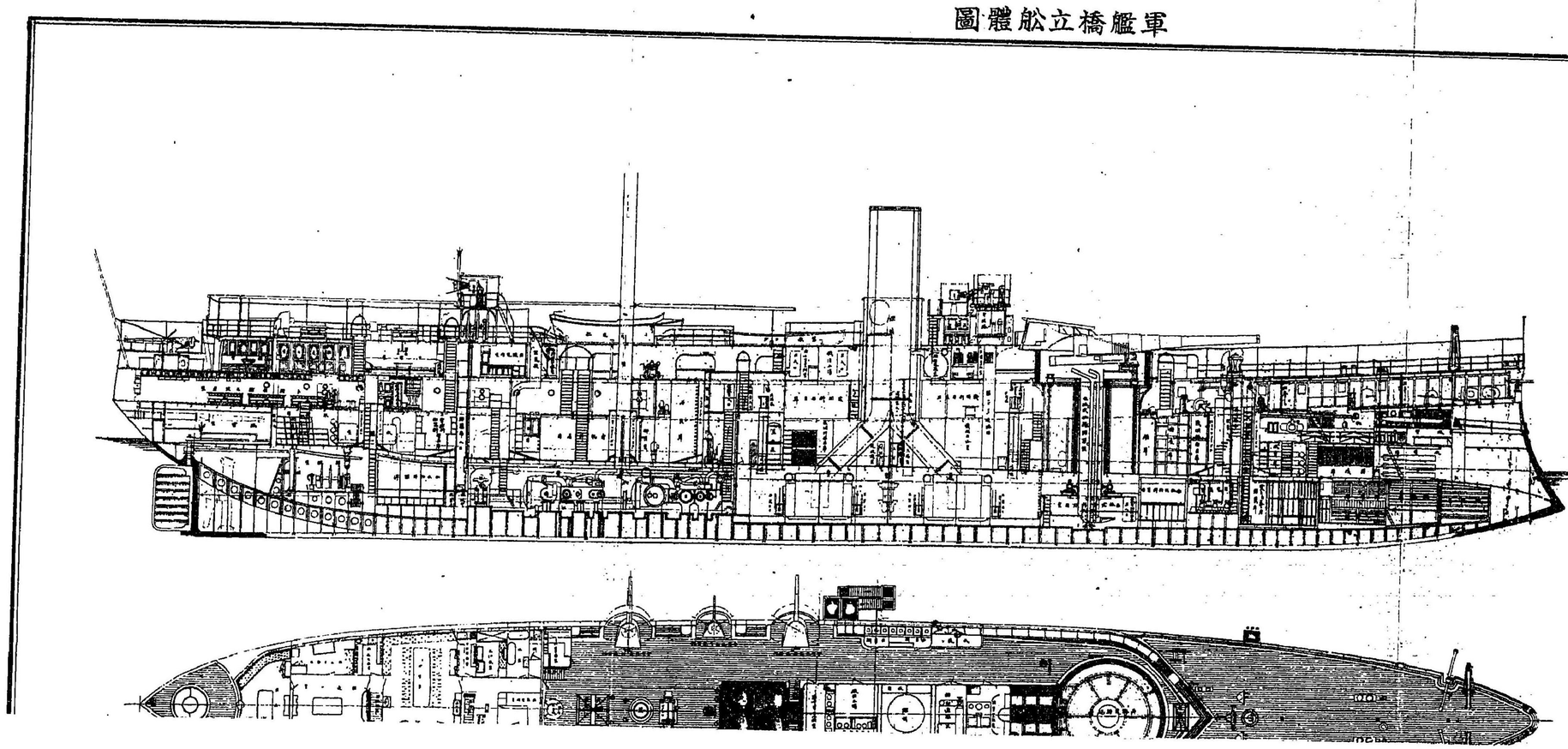
軍艦橋立船體圖

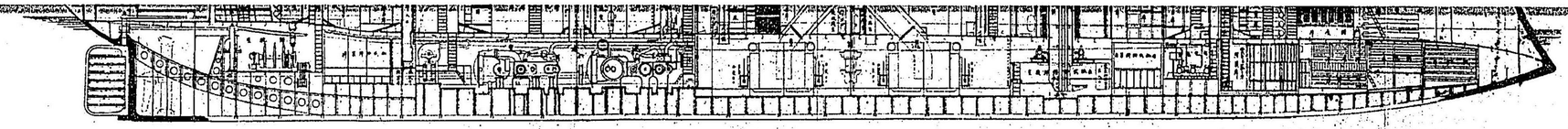
第七圖

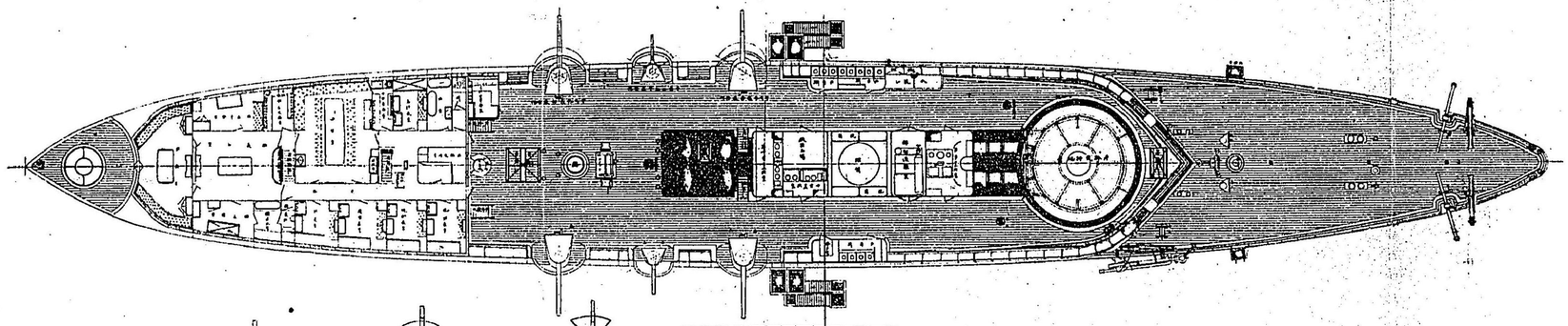


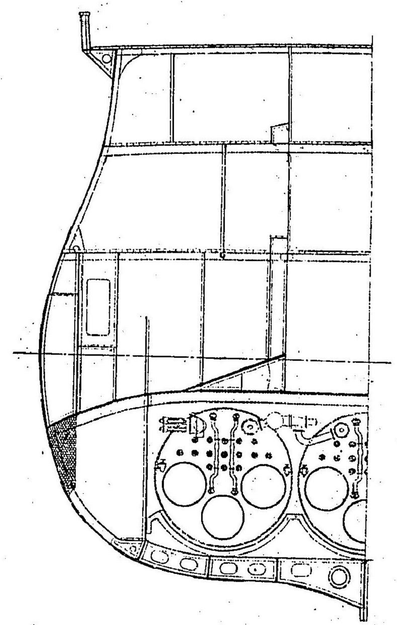


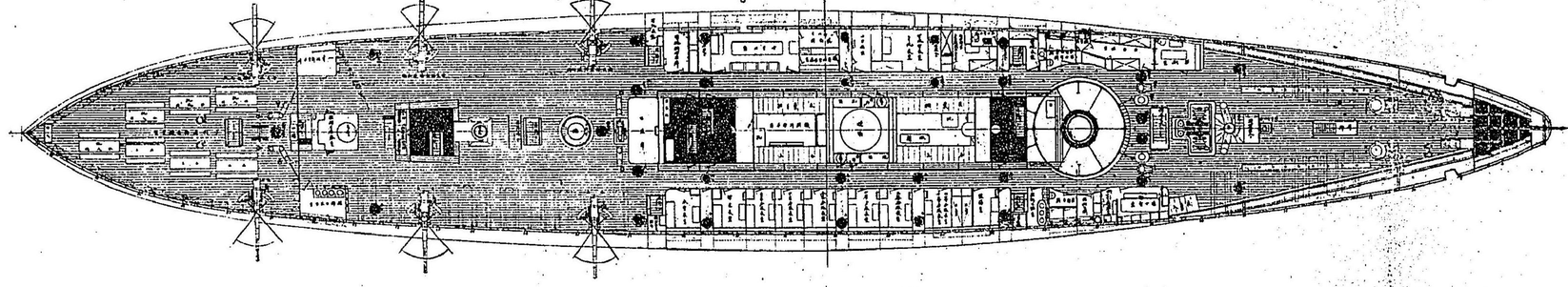
軍艦橋立舩體圖



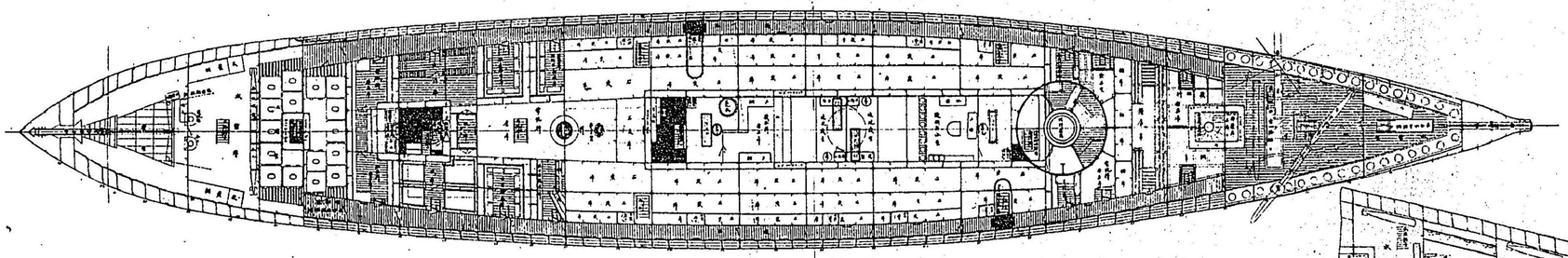


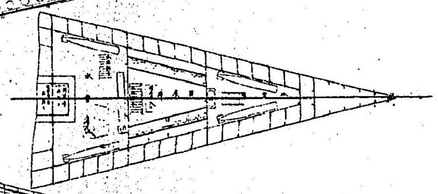


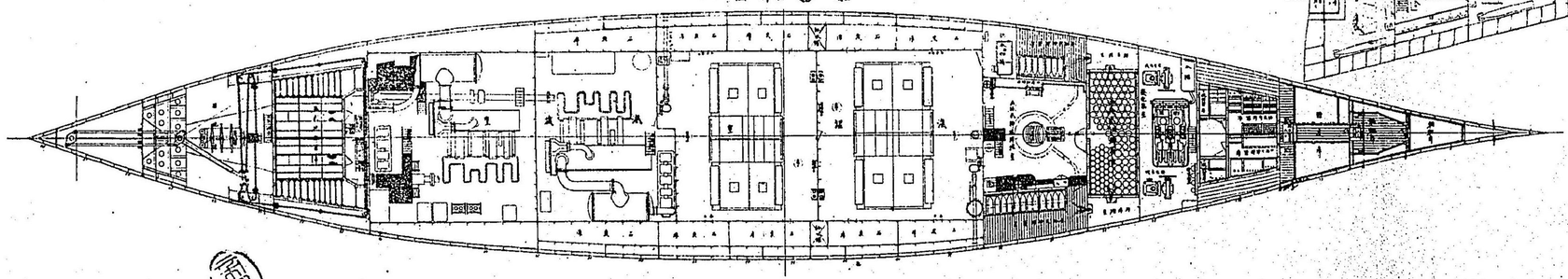




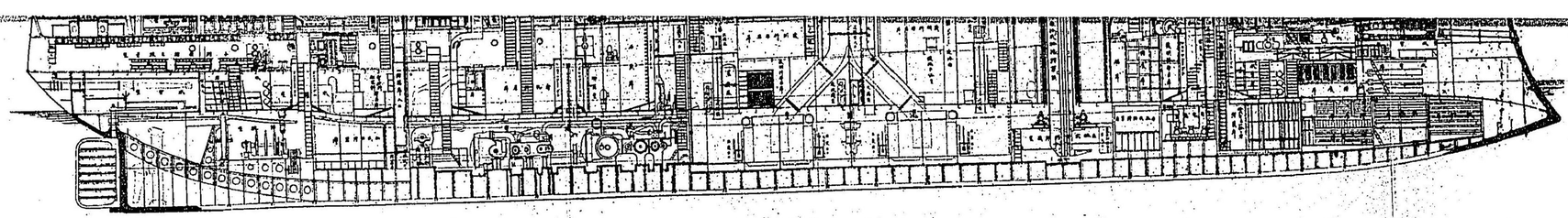
防禦甲板平面

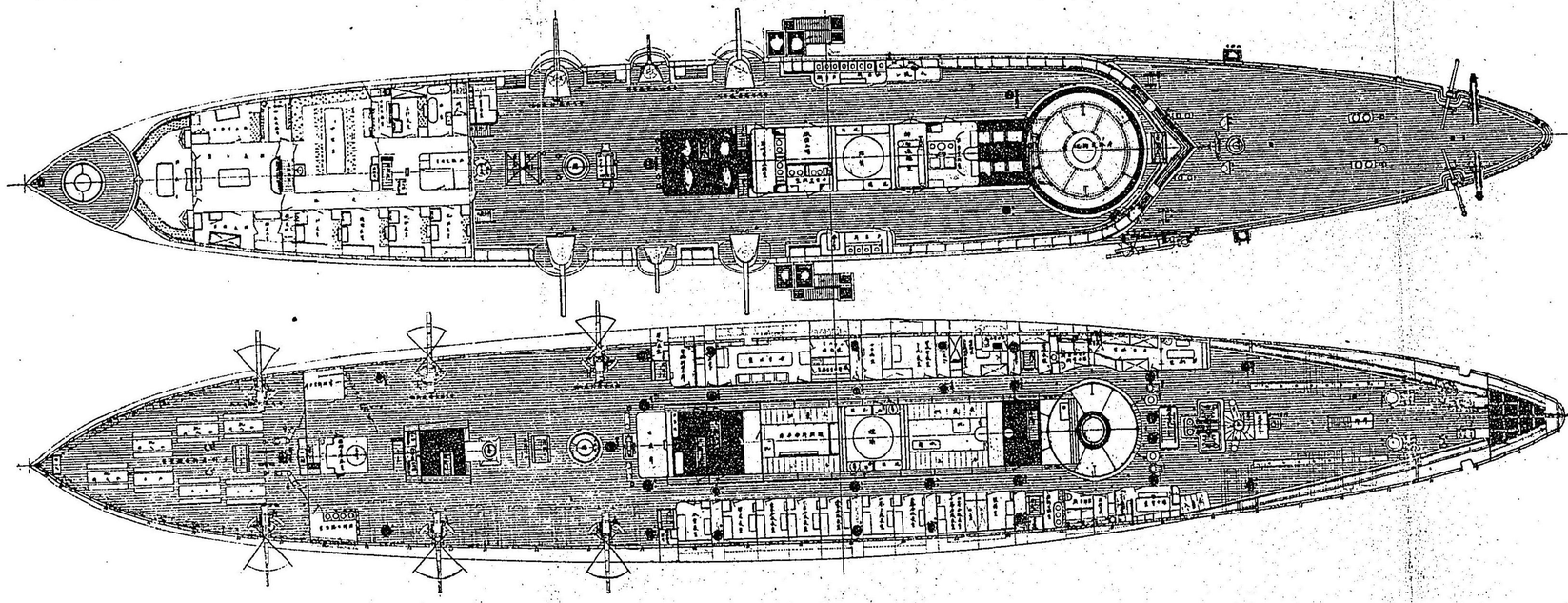


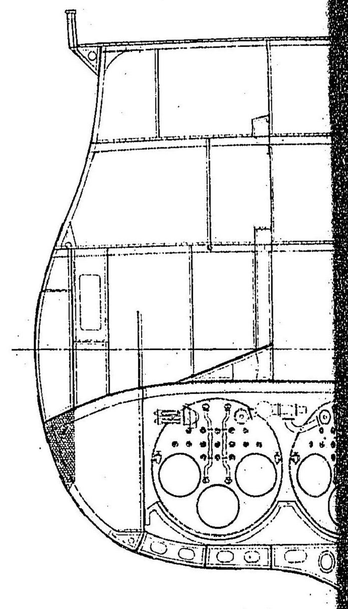




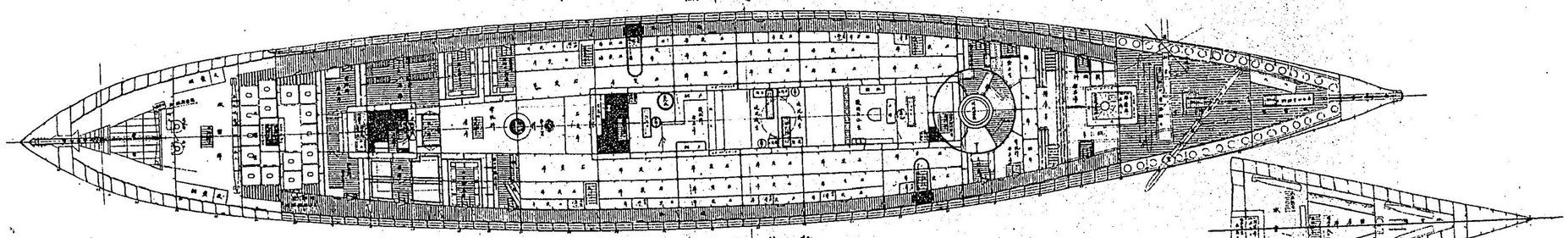
艙輪平面

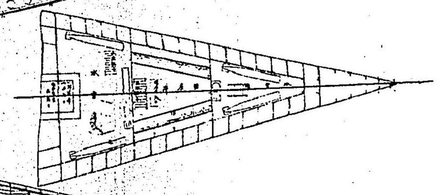






甲板防御平面





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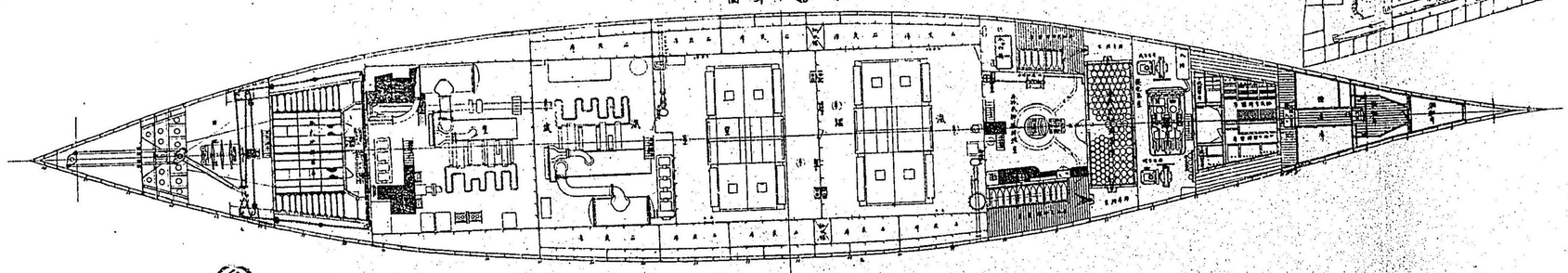
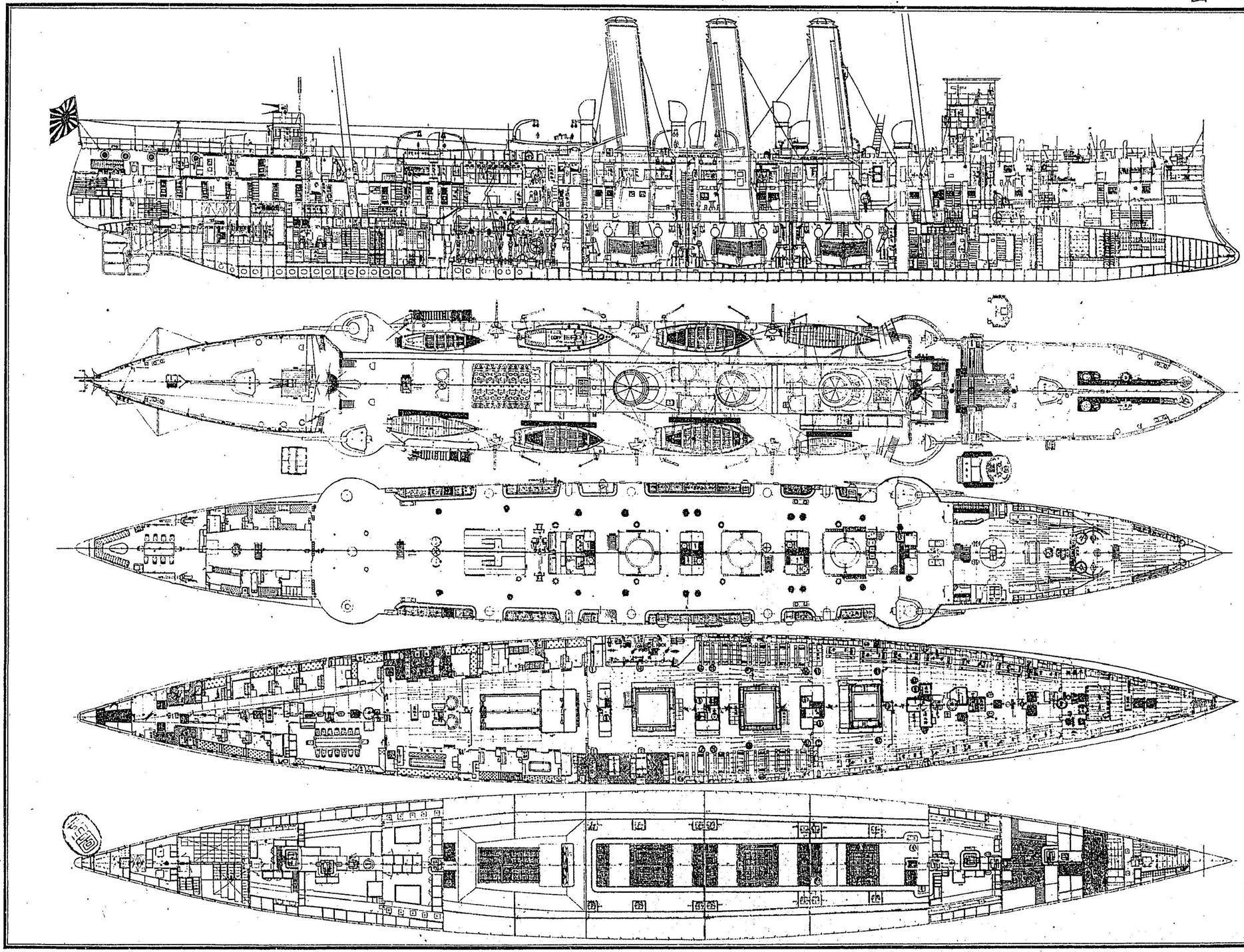


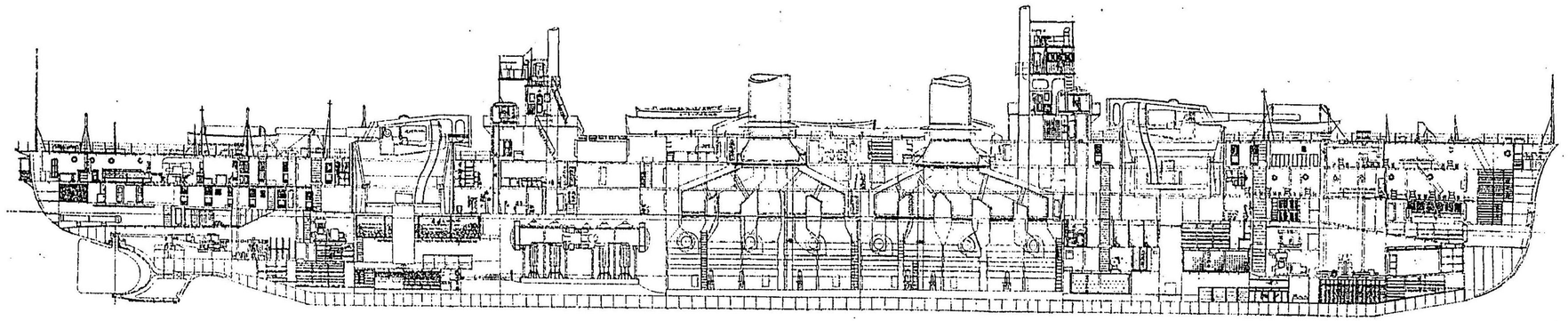
第八圖

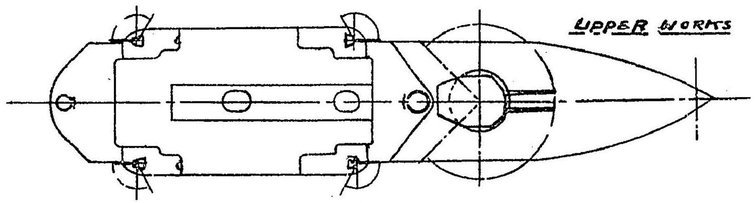
軍艦對馬舩體圖

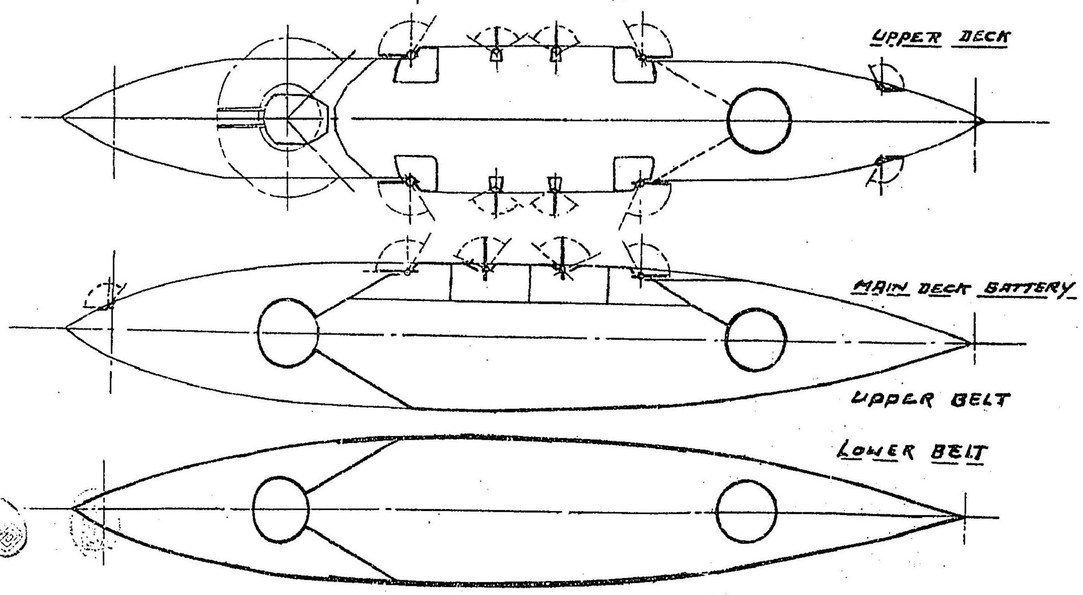


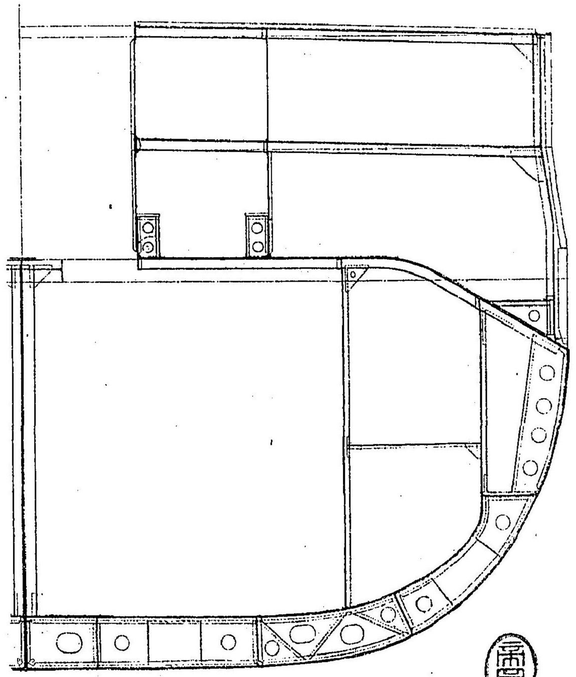
軍艦筑波船體圖

第九圖



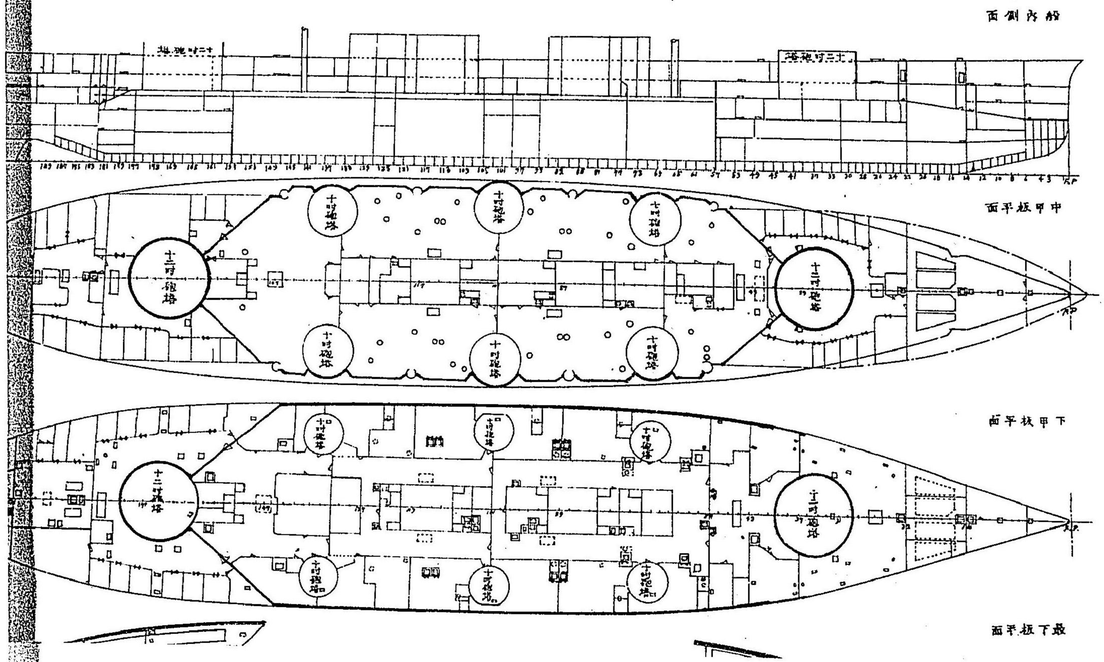

UPPER WORKS


UPPER DECK
MAIN DECK BATTERY
UPPER BELT
LOWER BELT

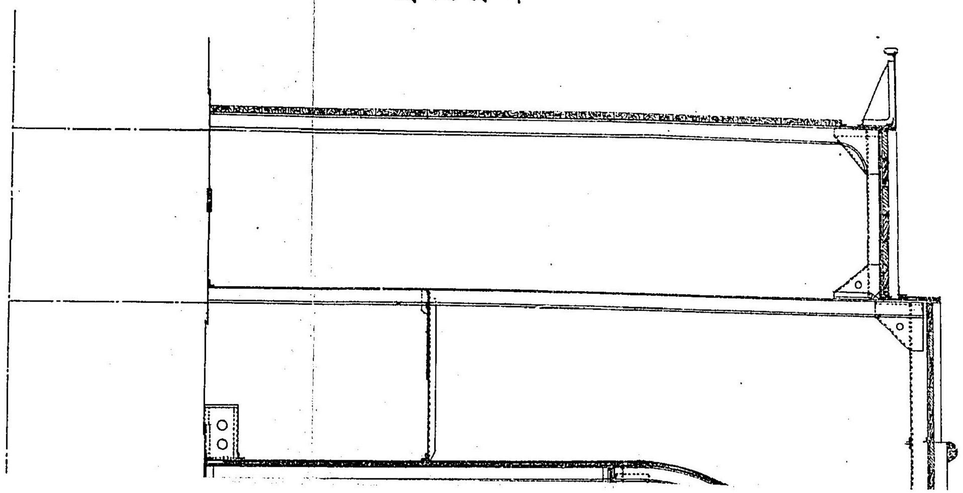


軍艦薩摩船體圖

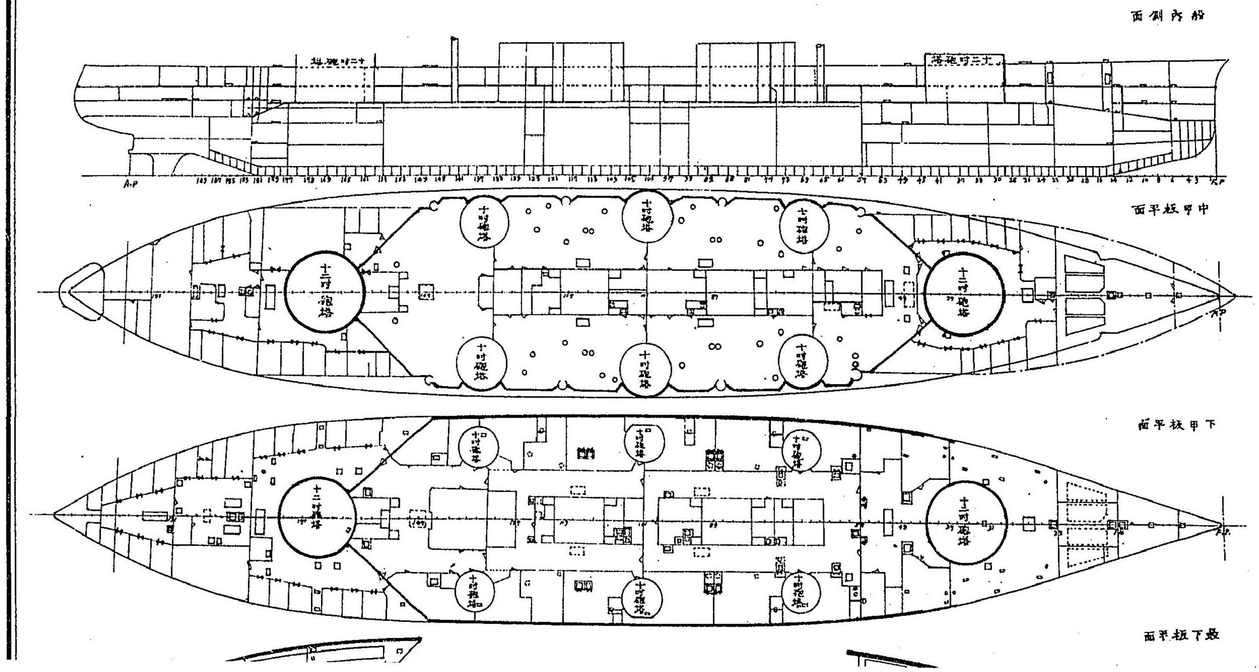
第拾圖



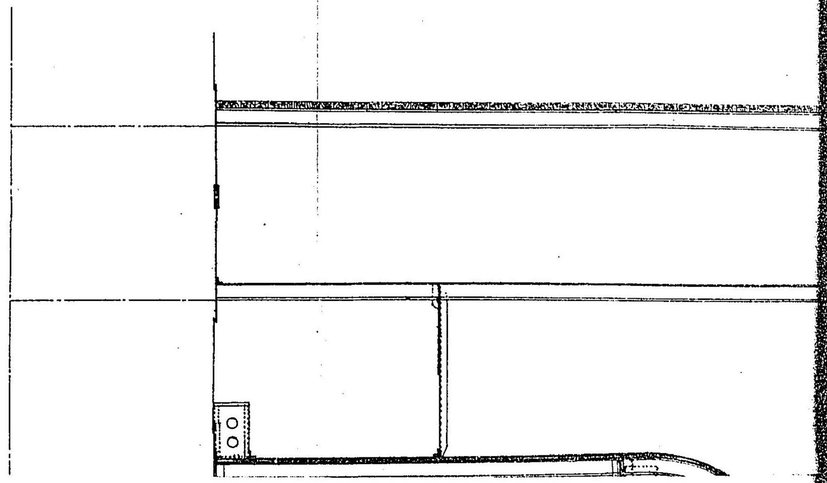
中央切斷

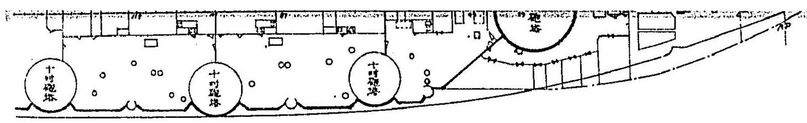


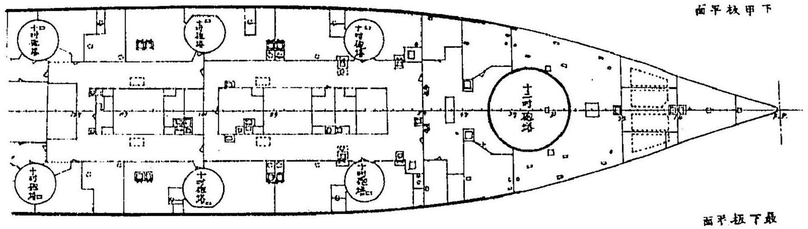
軍艦薩摩船體圖



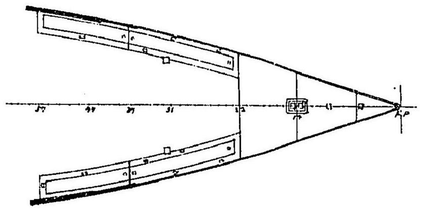
中央切斷



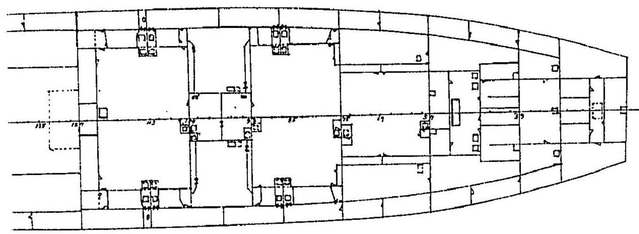




甲板下最上平面



上部ブリッジムーア平面



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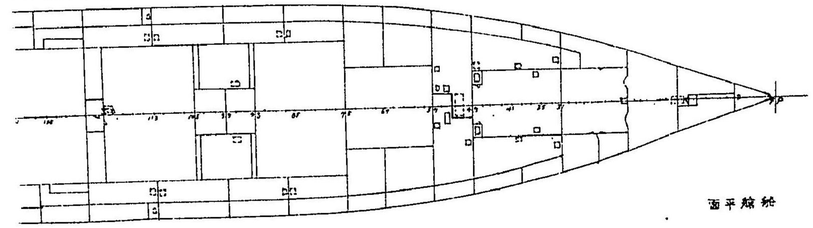
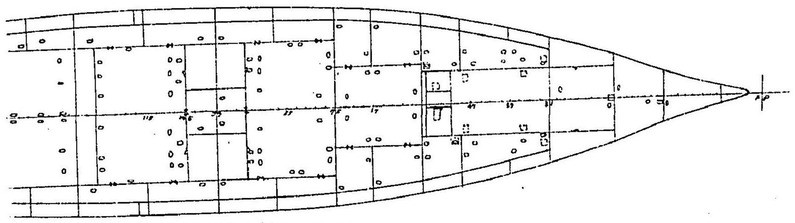
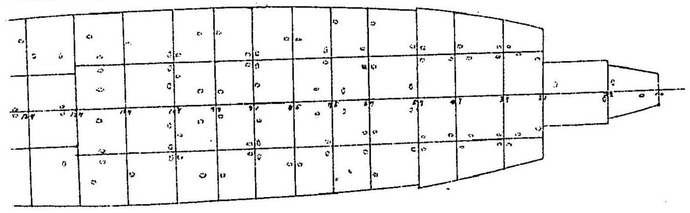
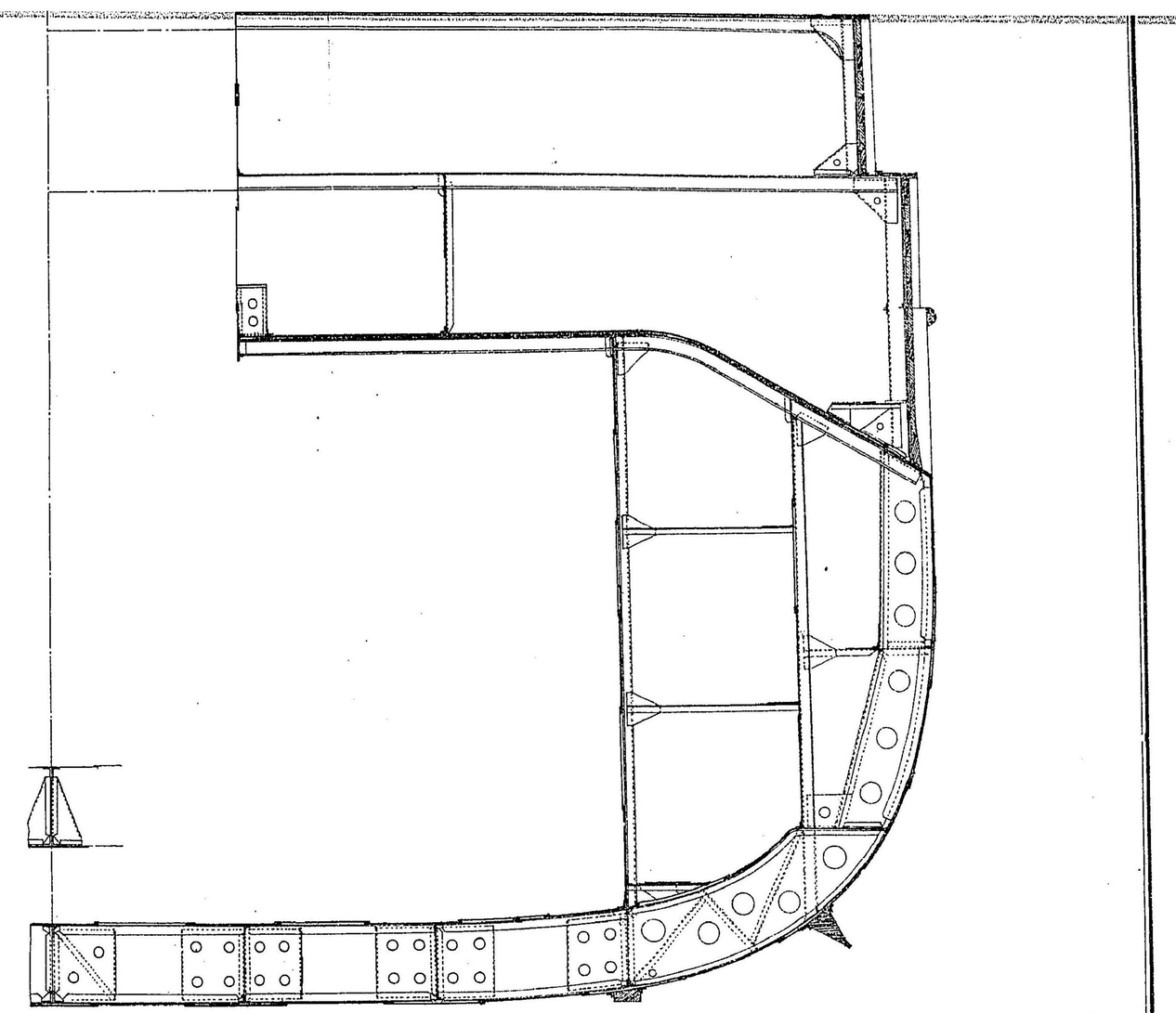
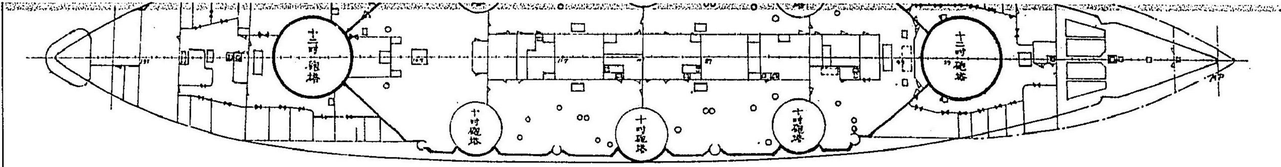


艦橋平面

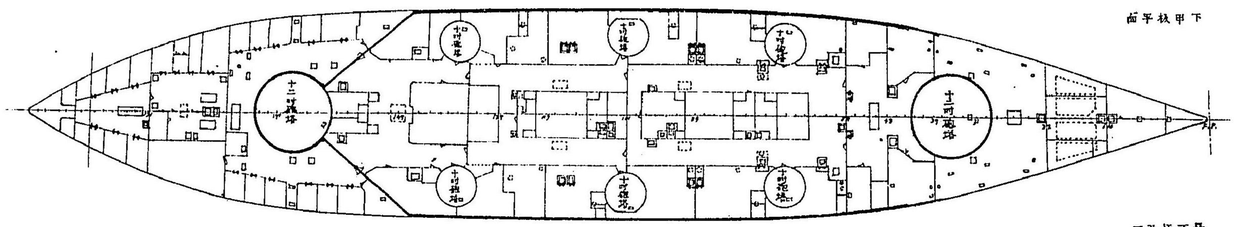




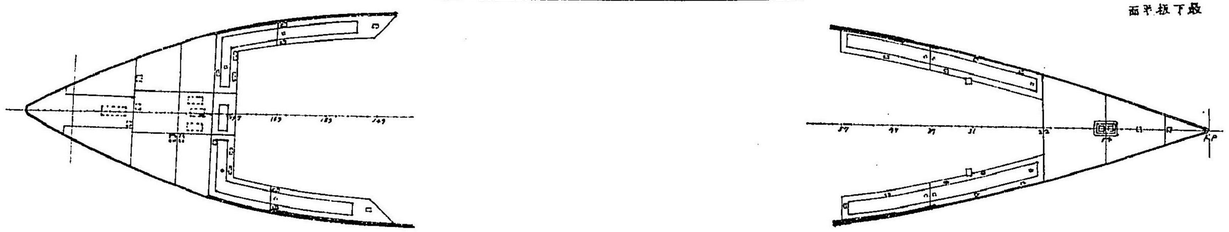




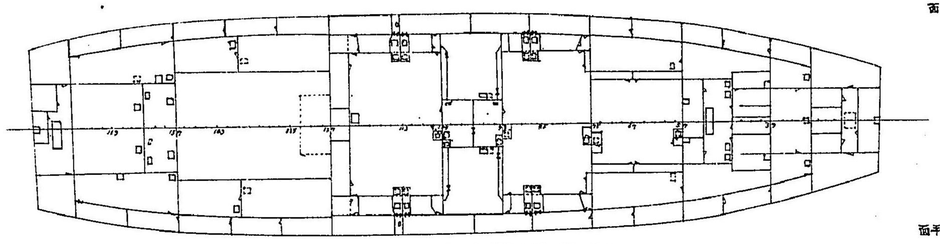
面平板甲下



面平板下最



面平ムーオフトップ上



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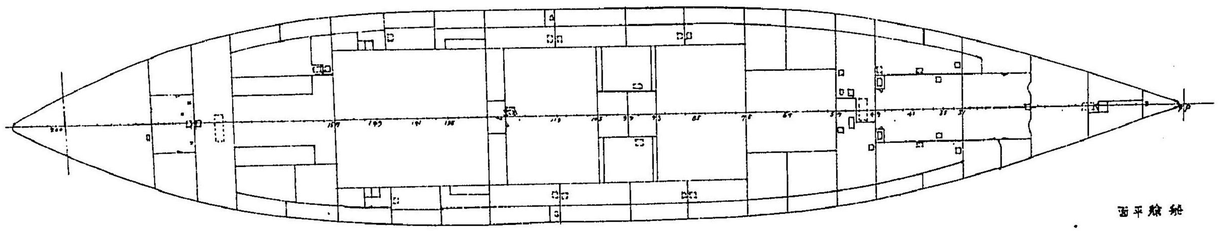
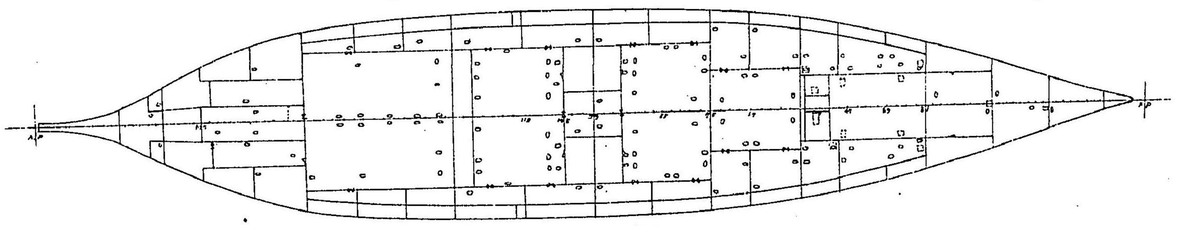
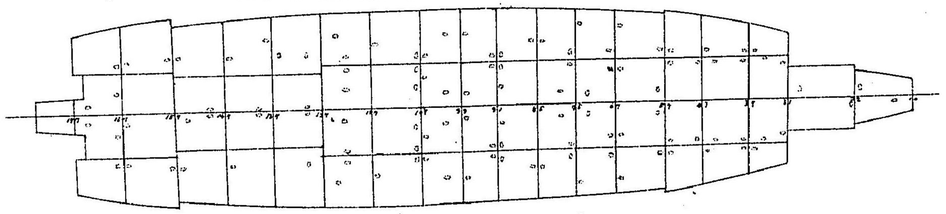
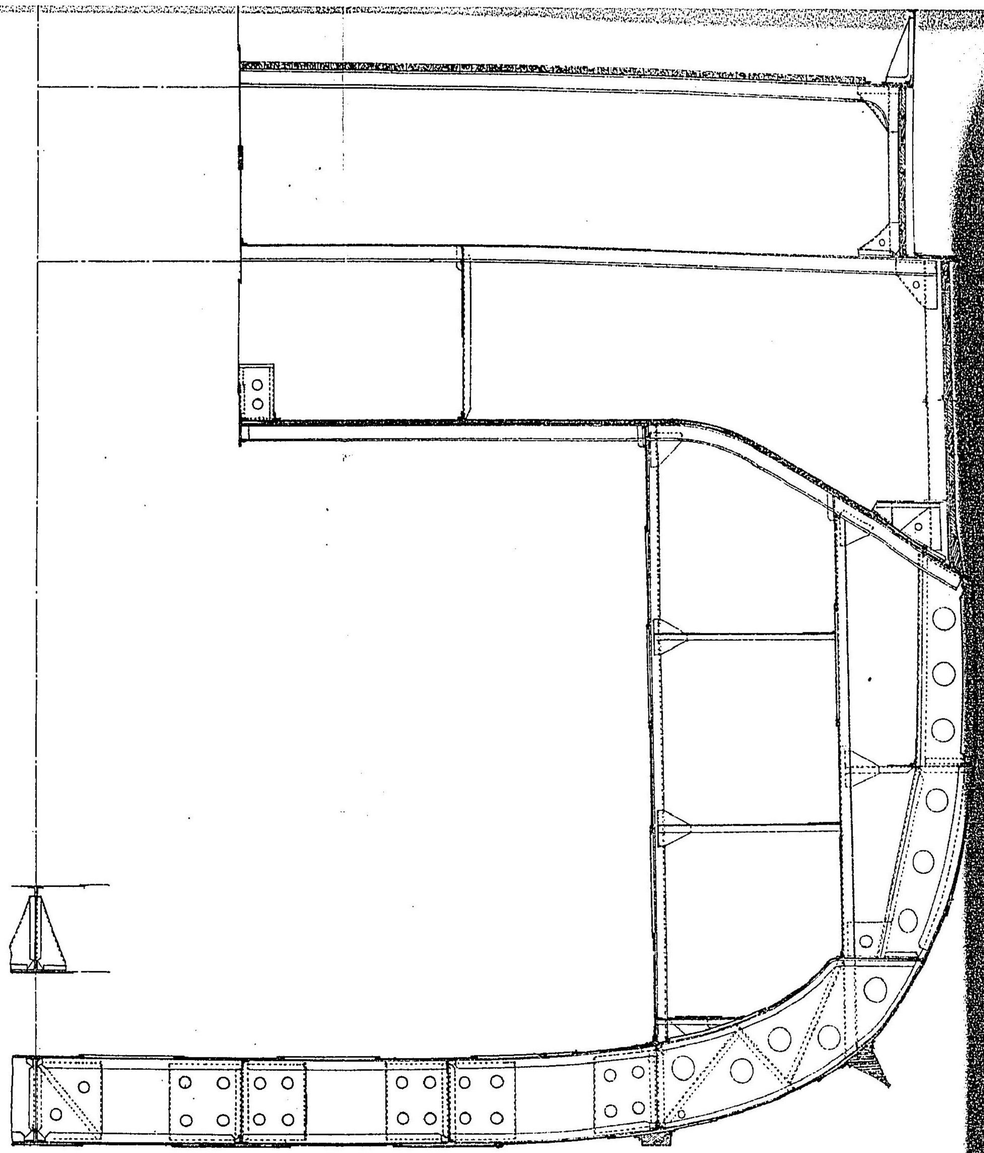


面平舷舷







軍艦淀艦體船圖

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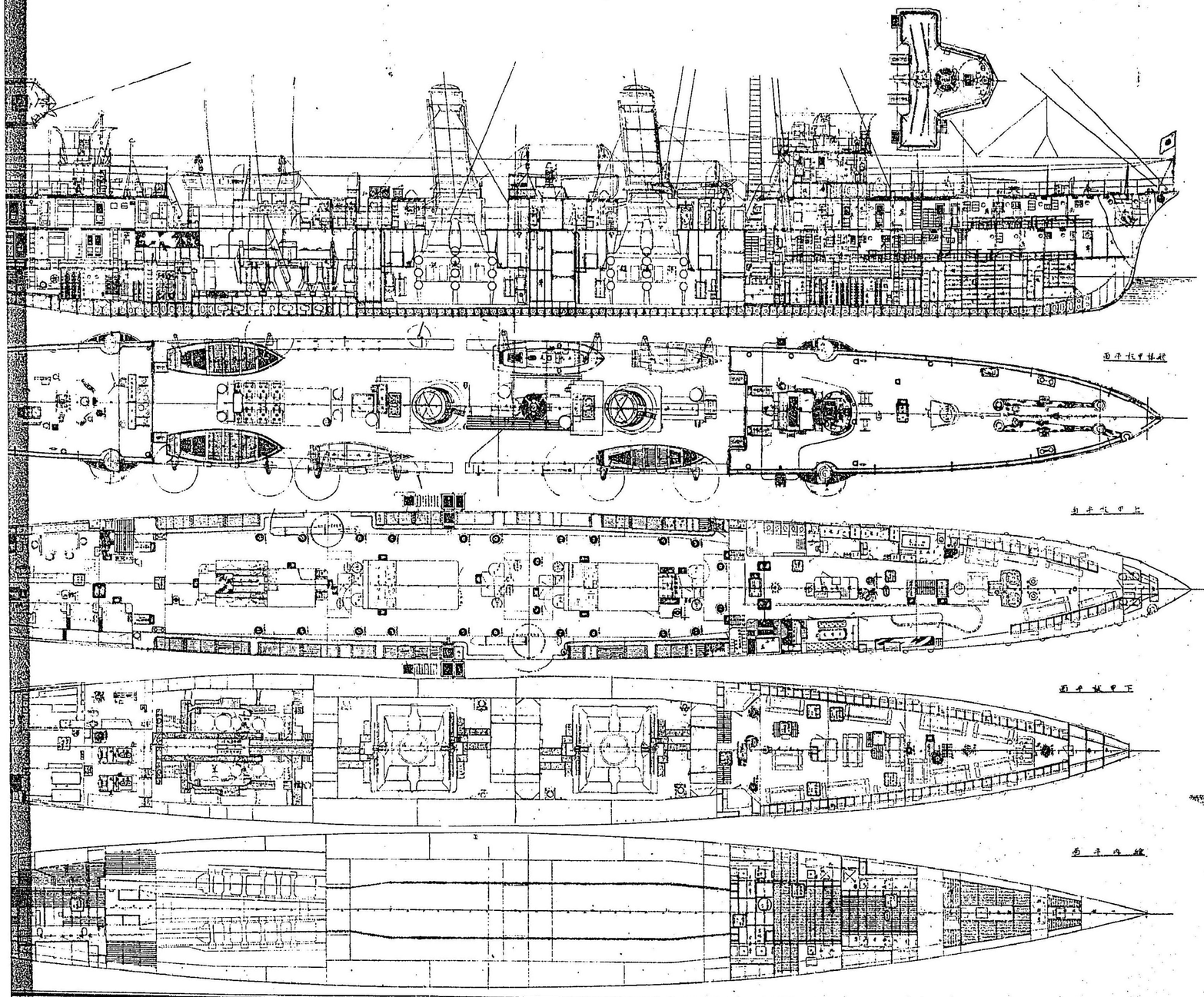
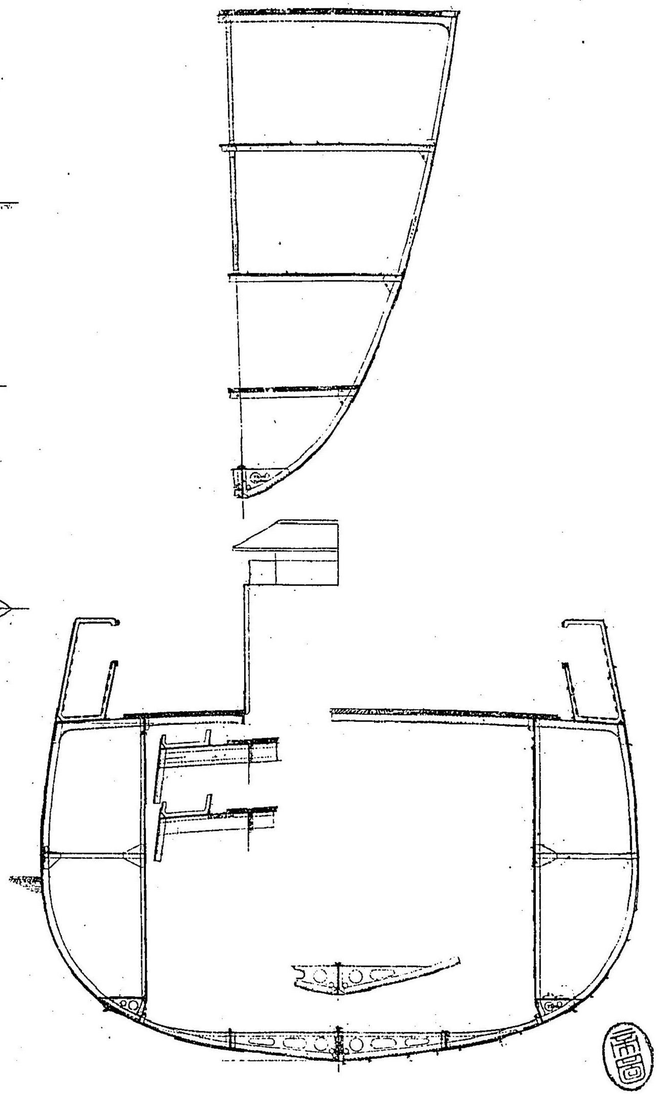
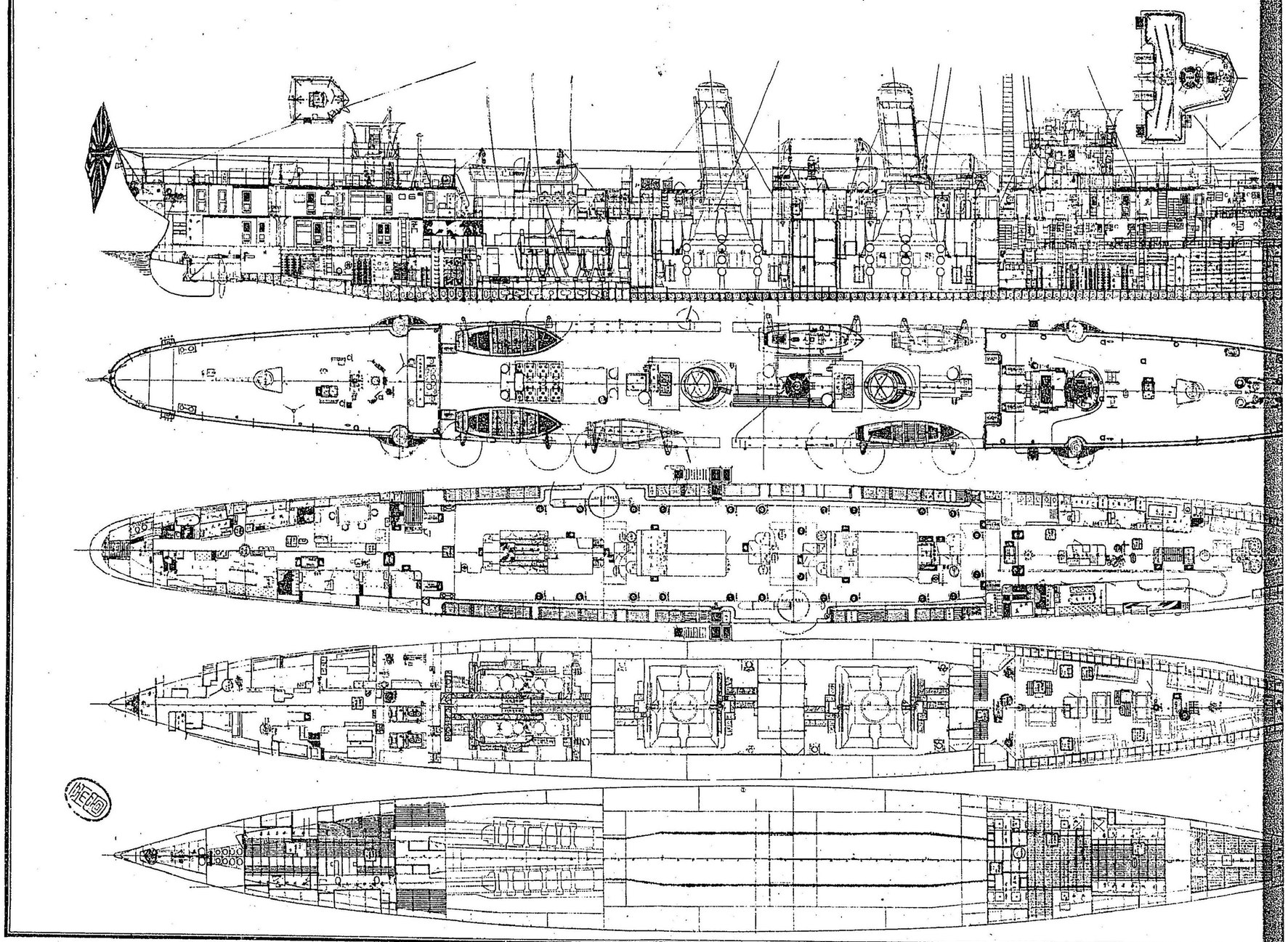


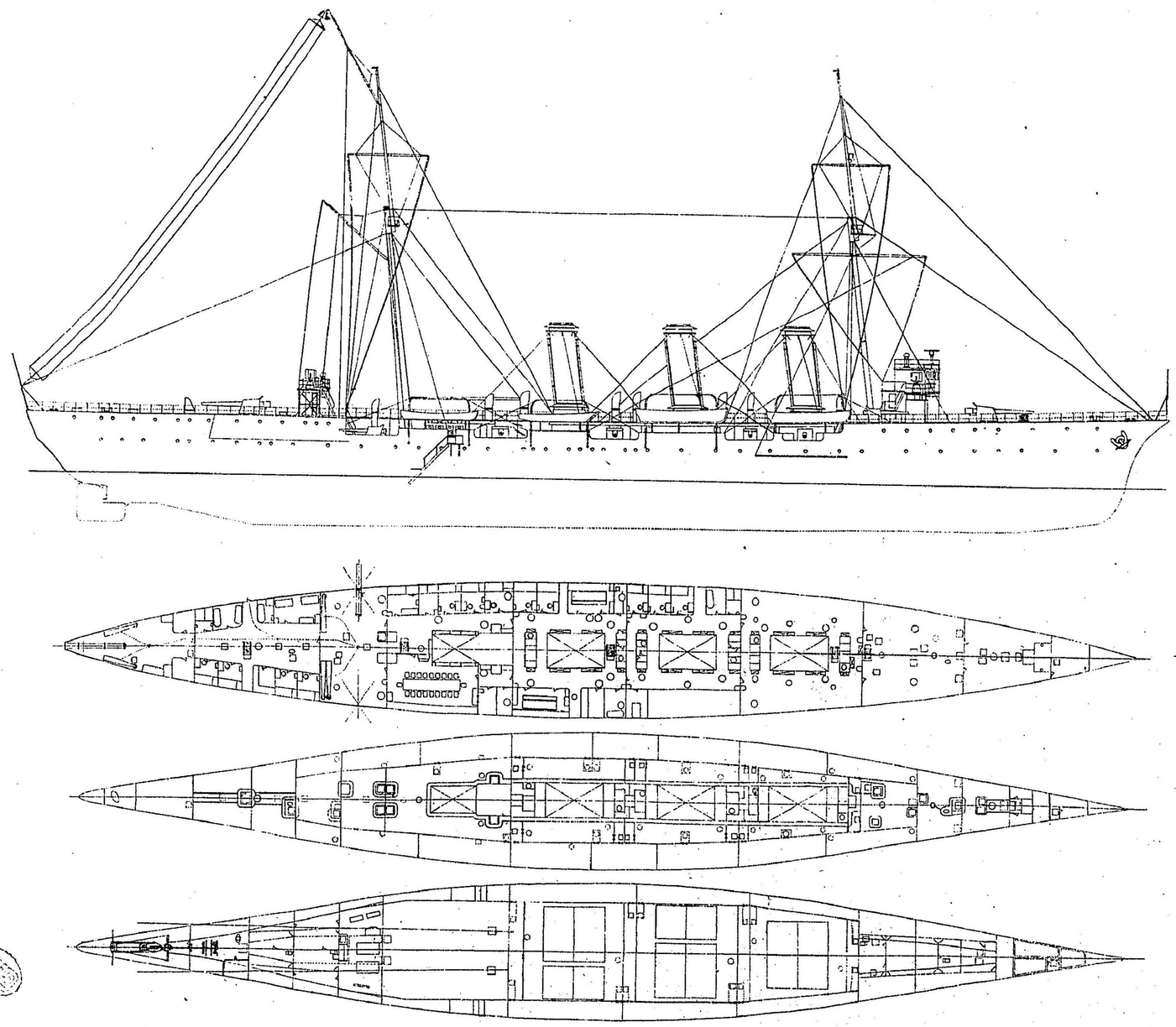


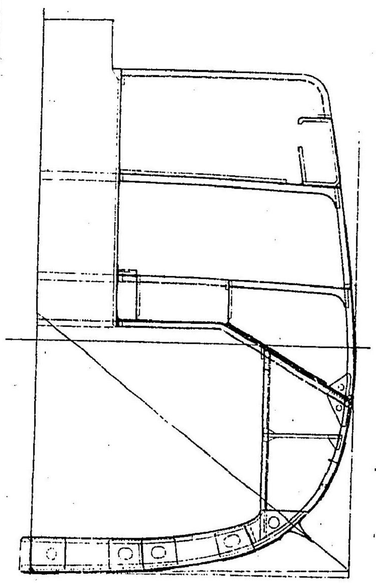
軍艦淀舩體圖



軍艦利根船體圖

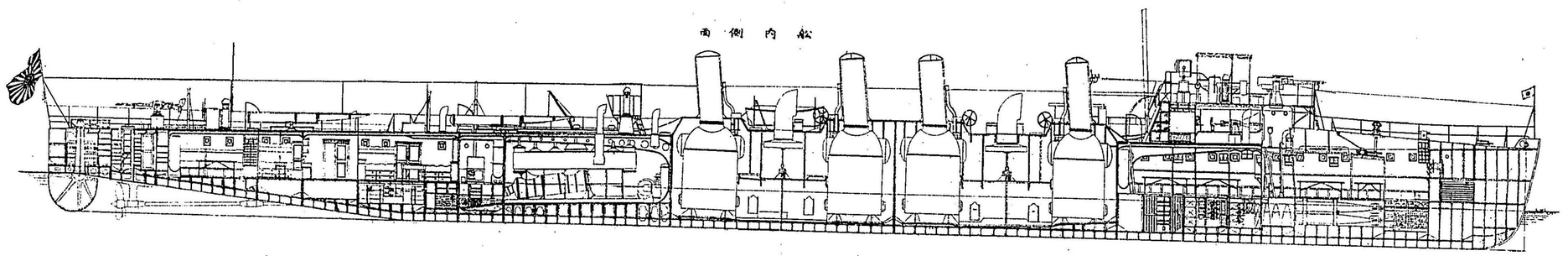
第拾貳圖

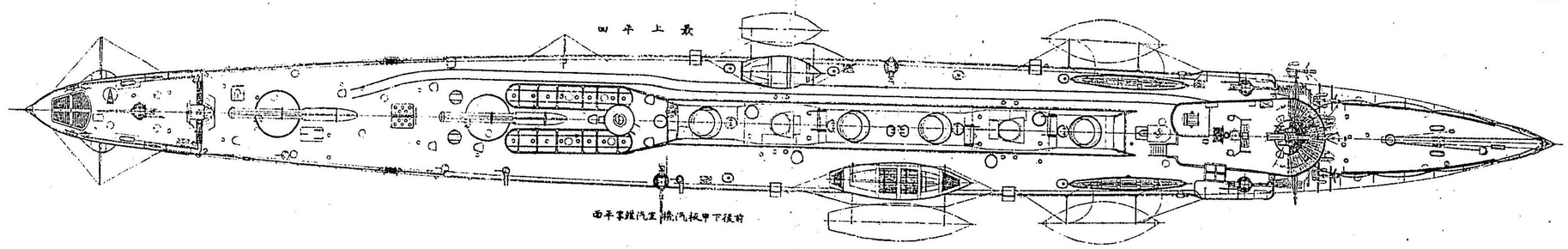


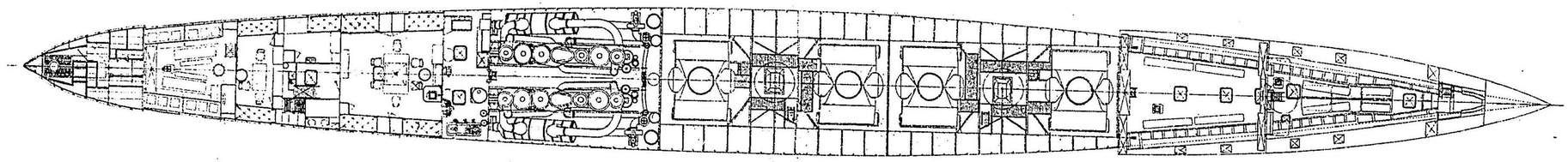


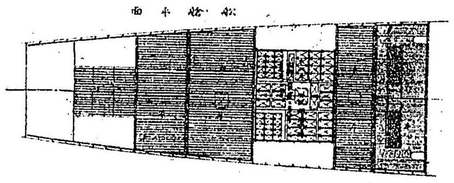
軍艦春雨船體圖

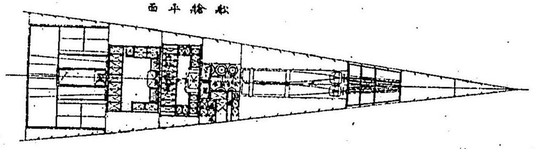
第拾參圖



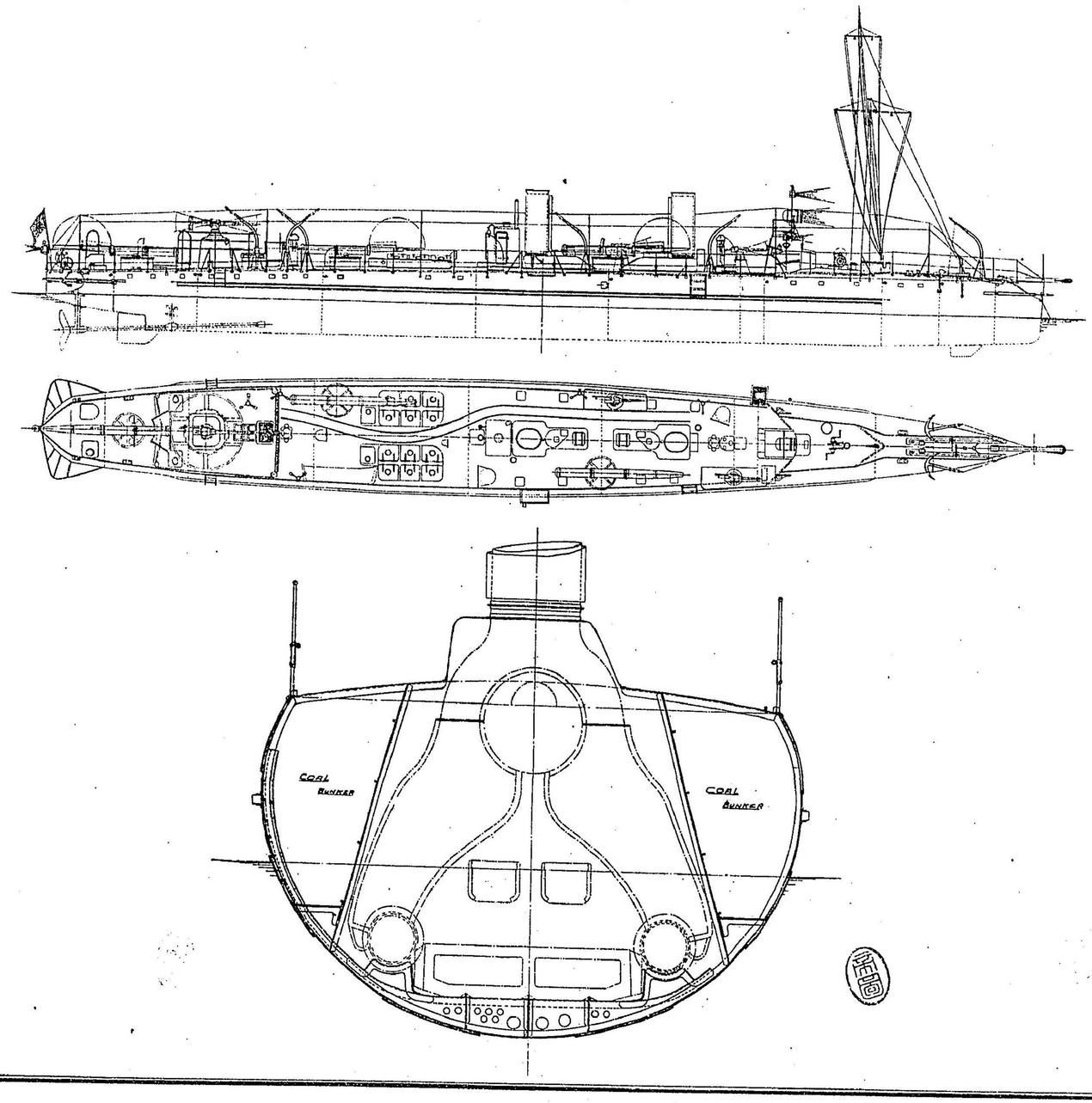






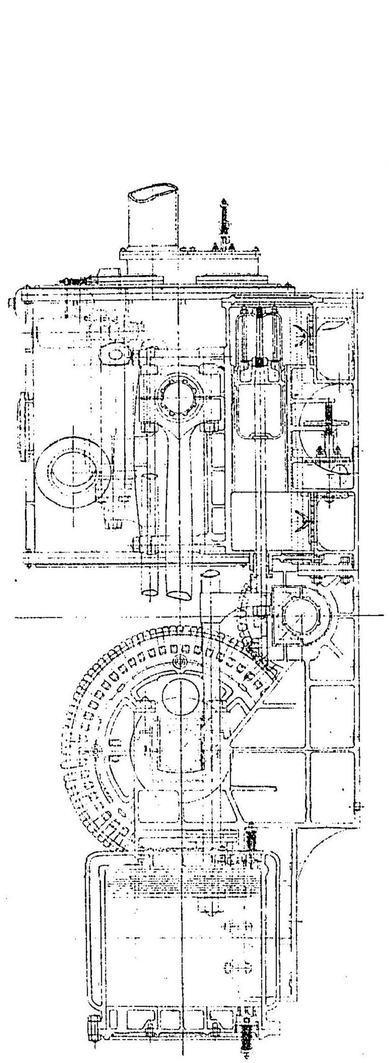


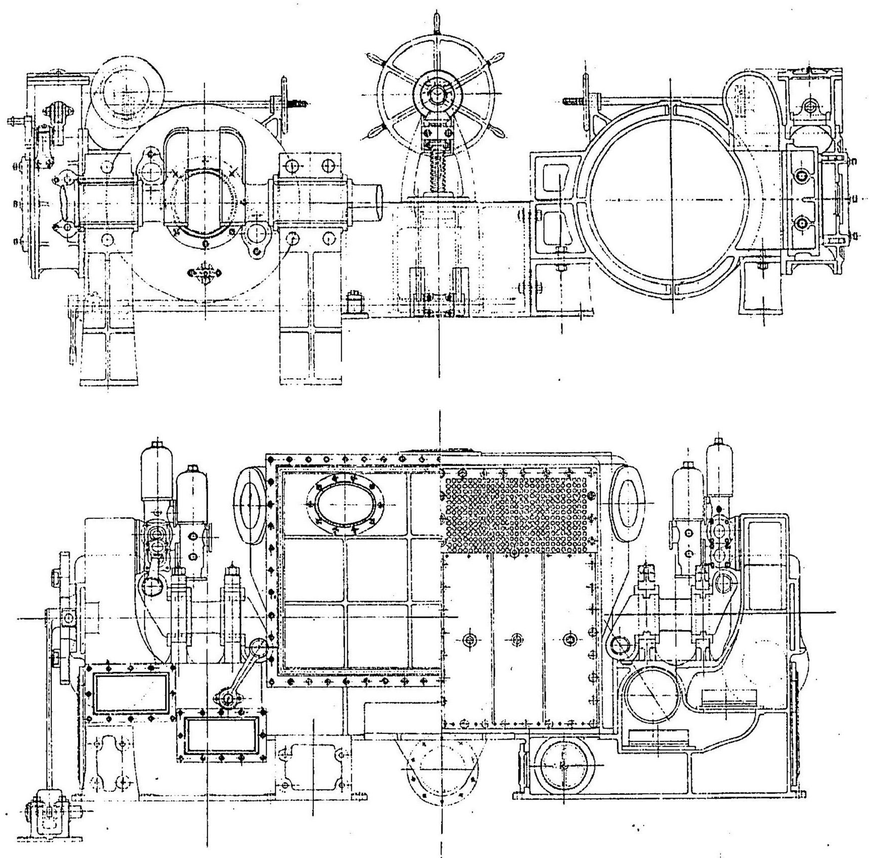
一等水雷艇雁舩體圖

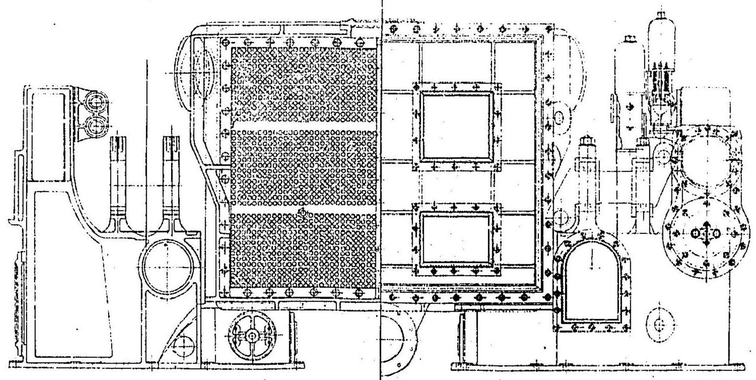


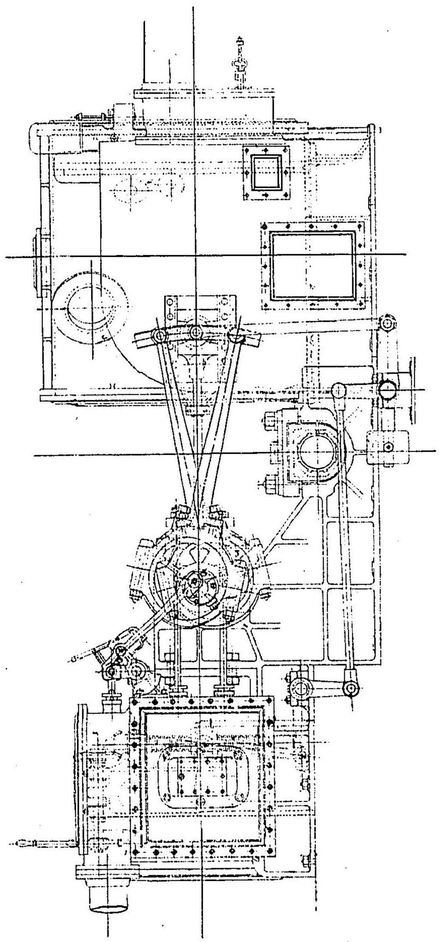
軍艦艤裝機關圖

第拾五圖

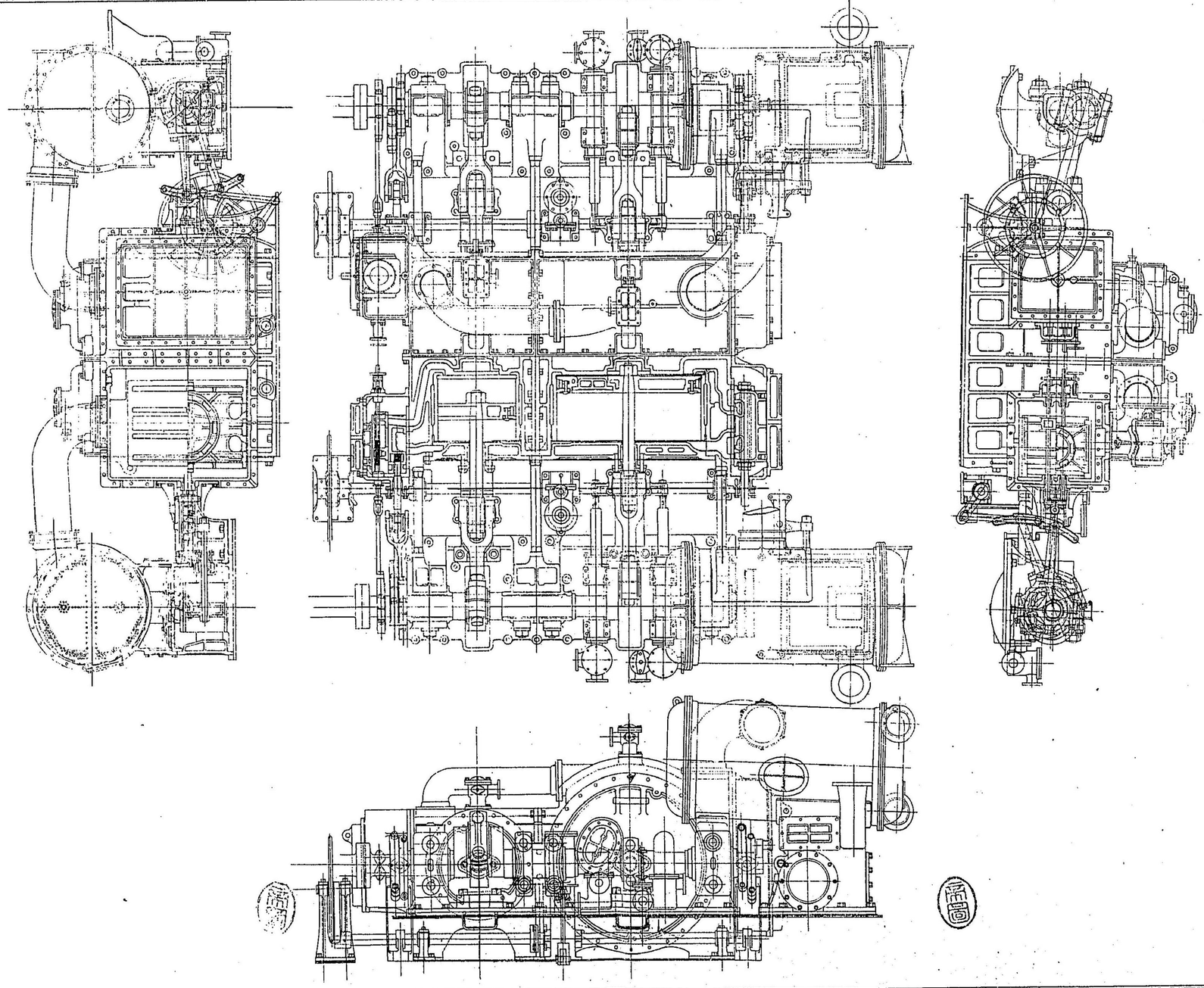


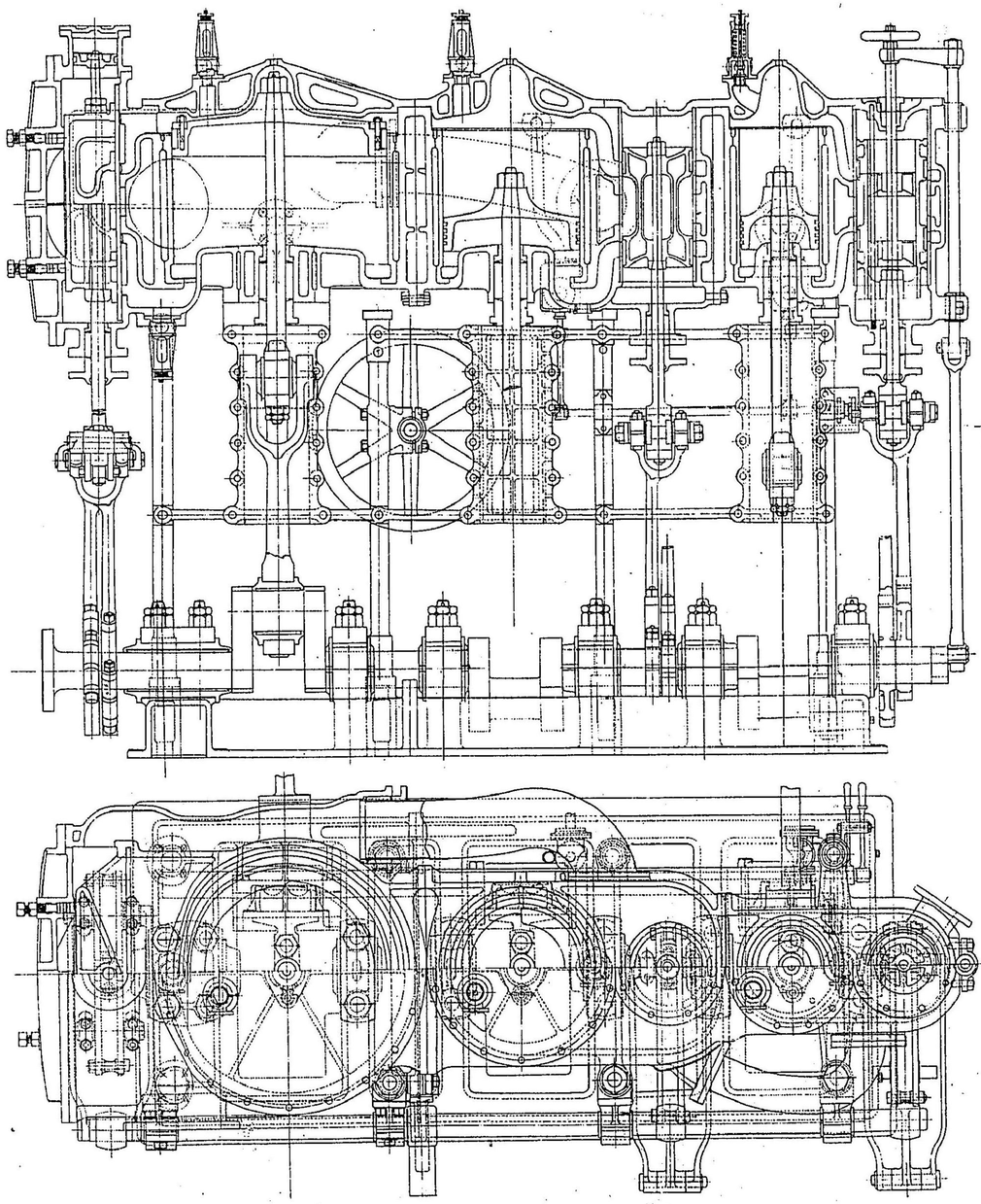


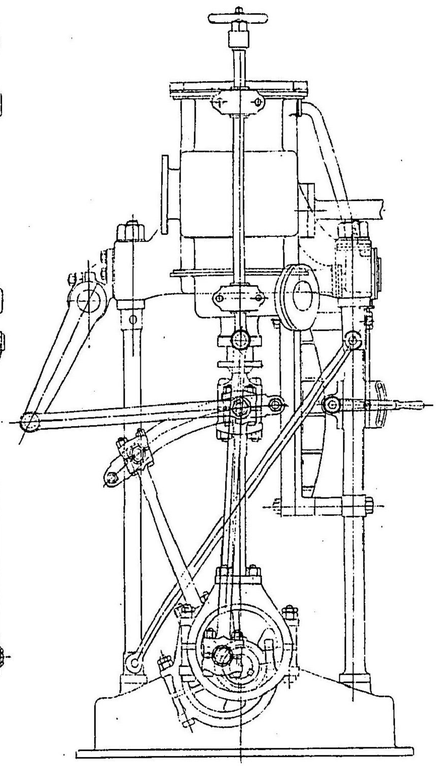




第拾六圖　軍艦愛宕機關圖

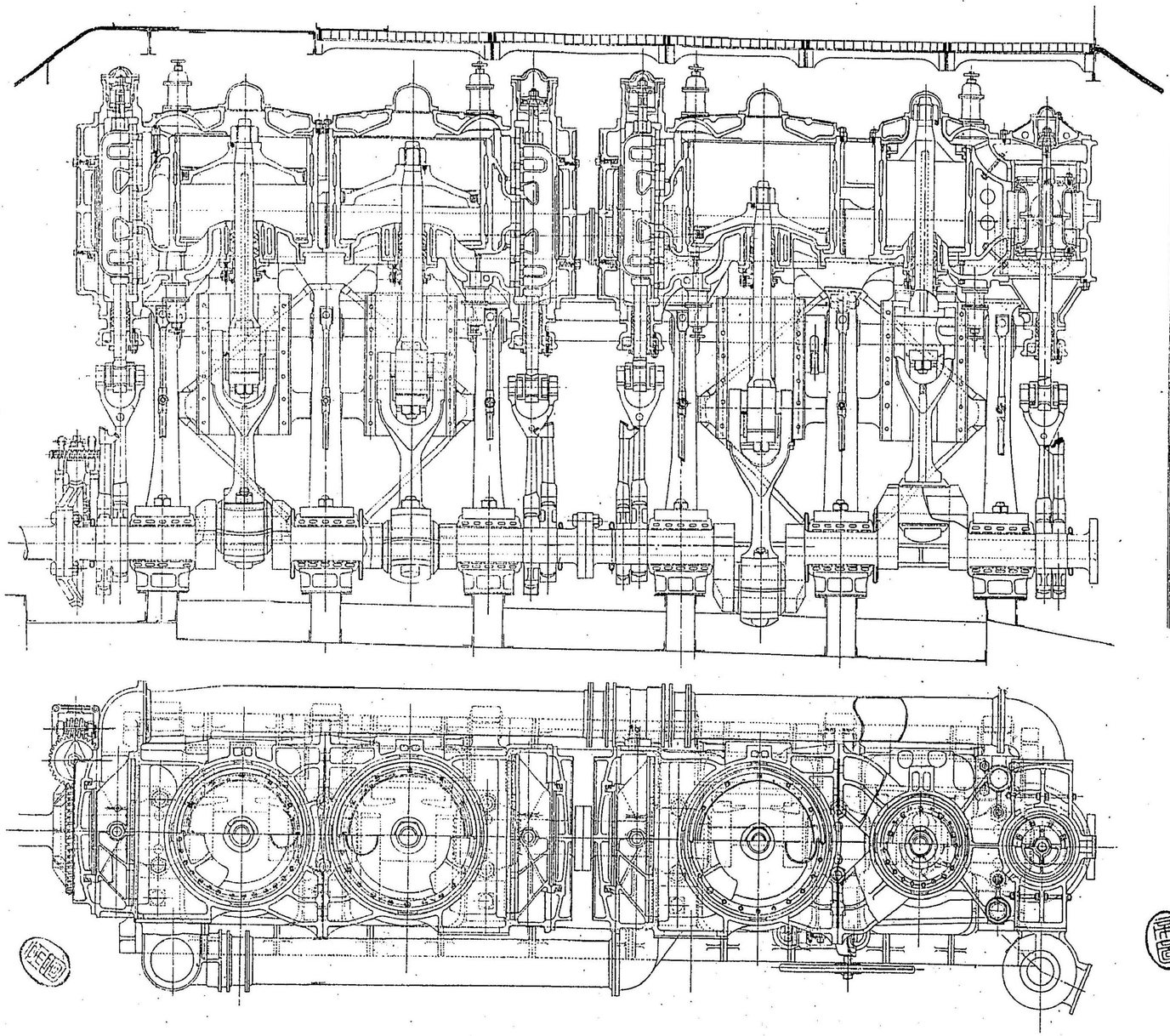


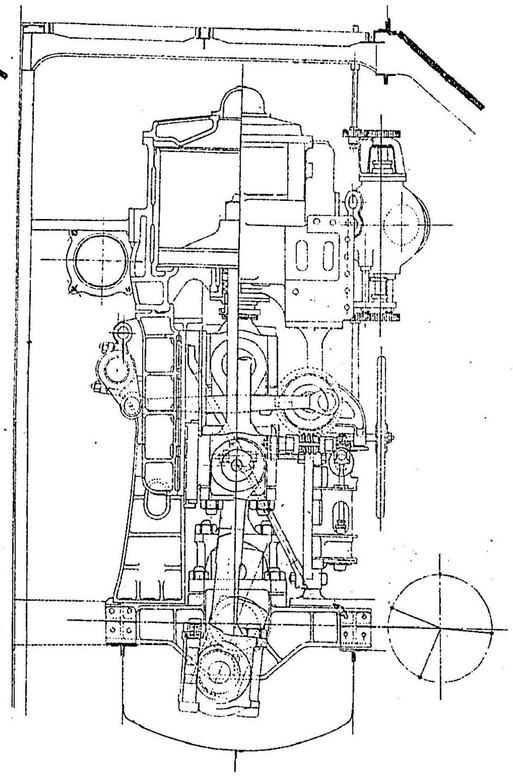




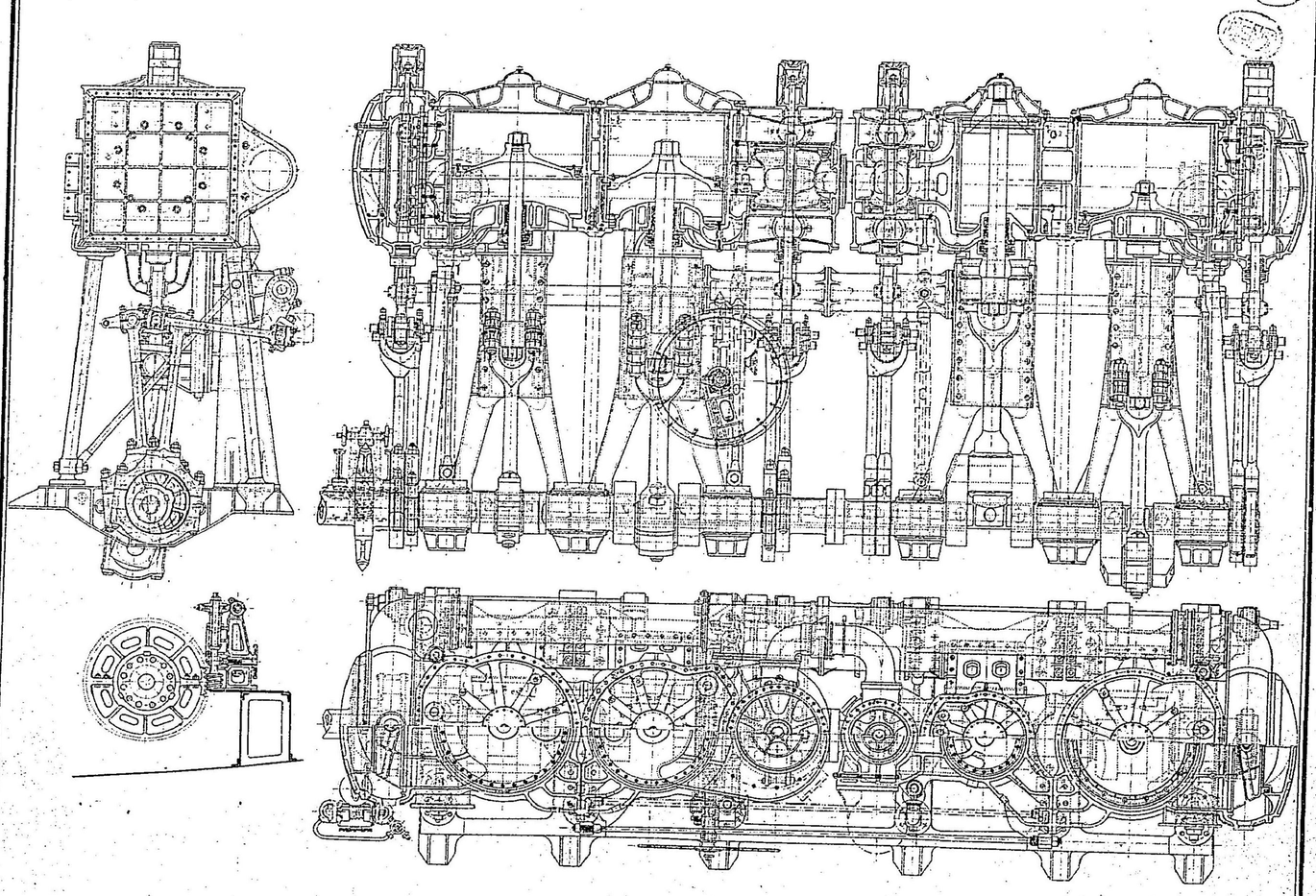
軍艦音羽機關圖

第拾八圖

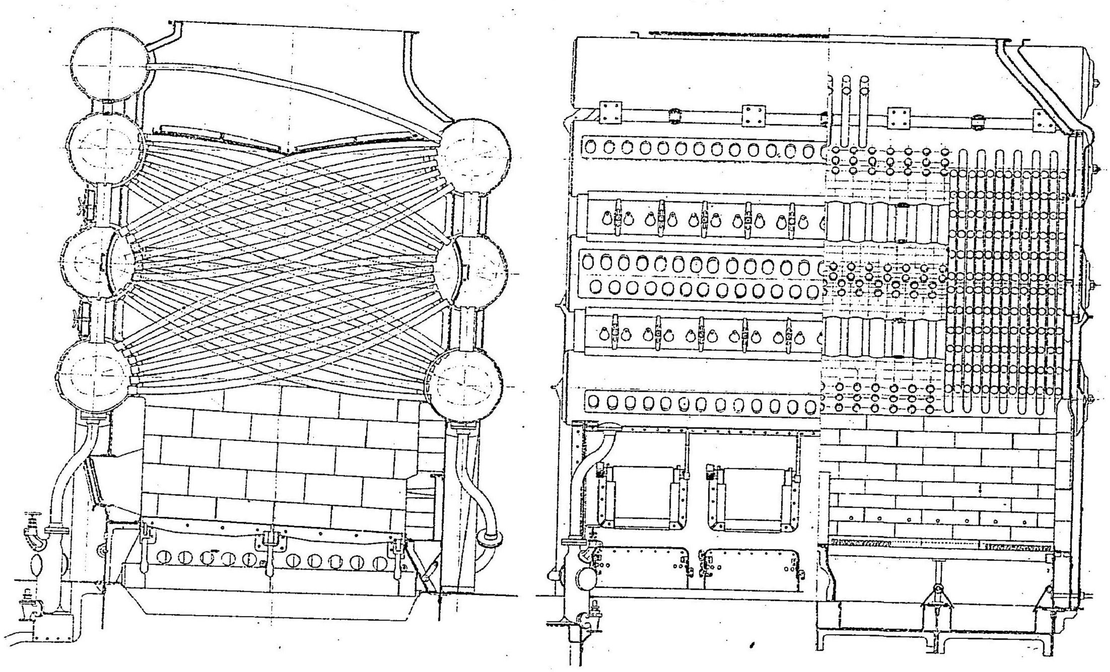




第拾九圖　汽機圖

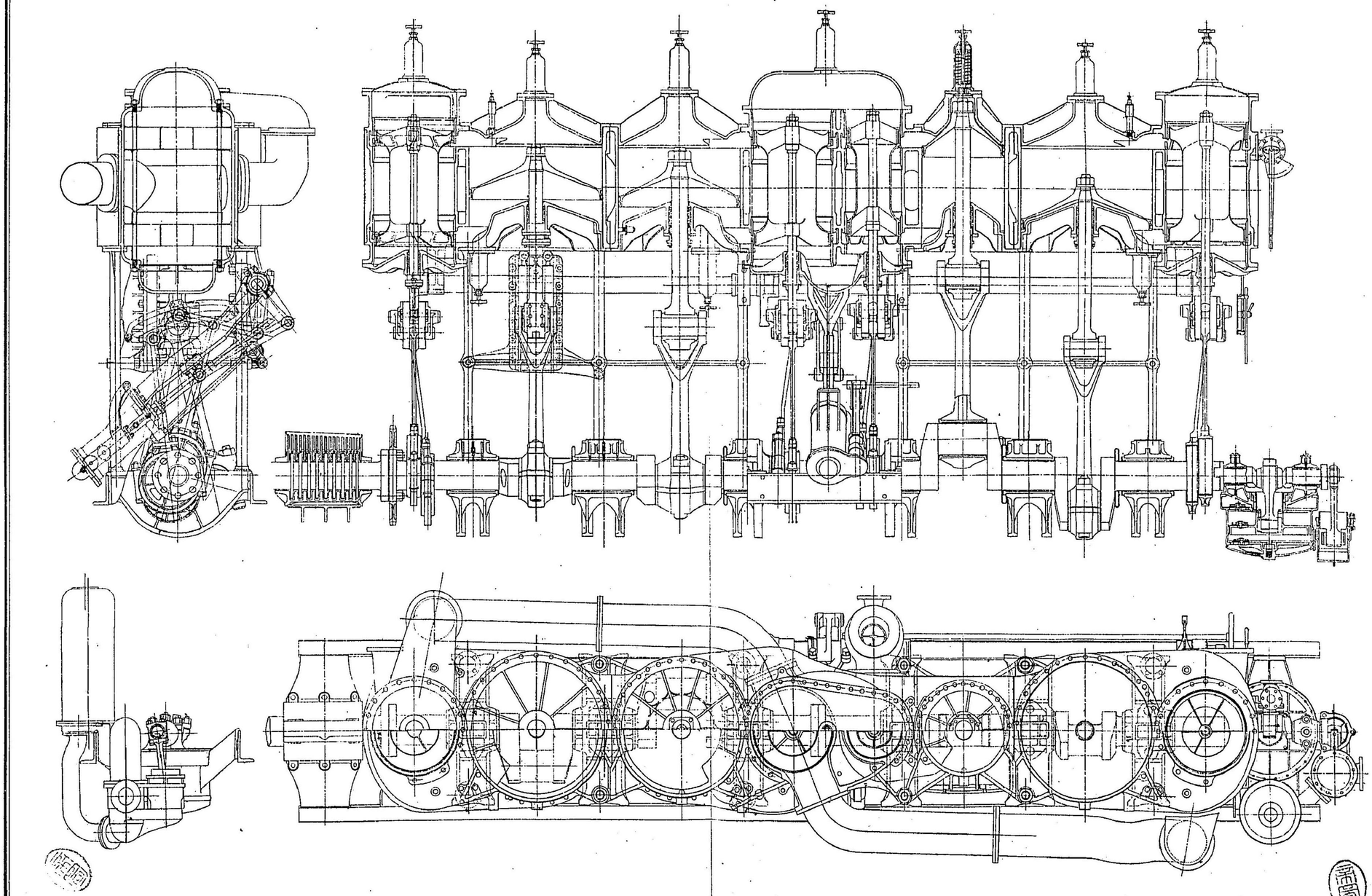


第貳拾圖　汽鑵圖

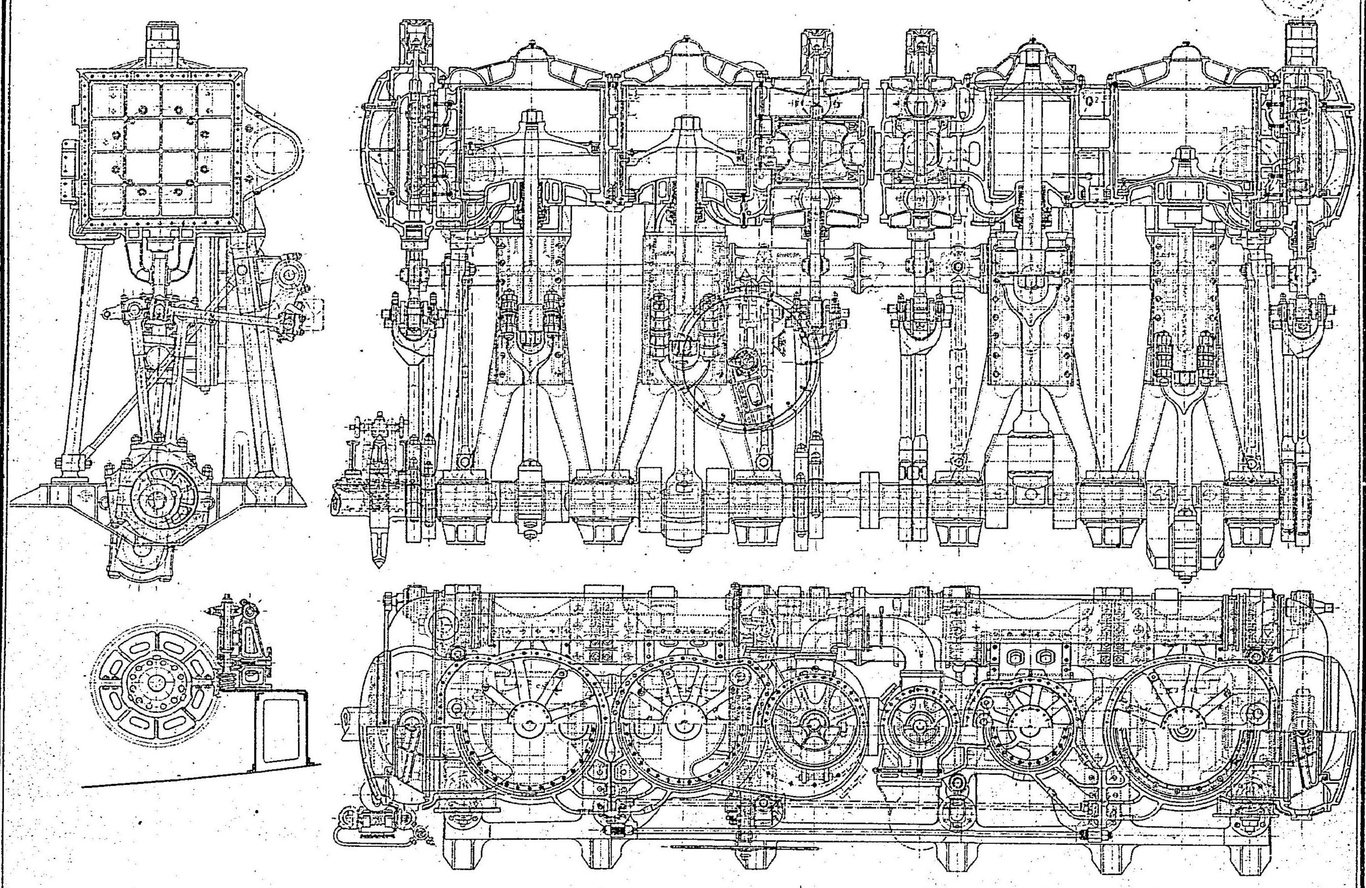


軍艦春雨機關圖

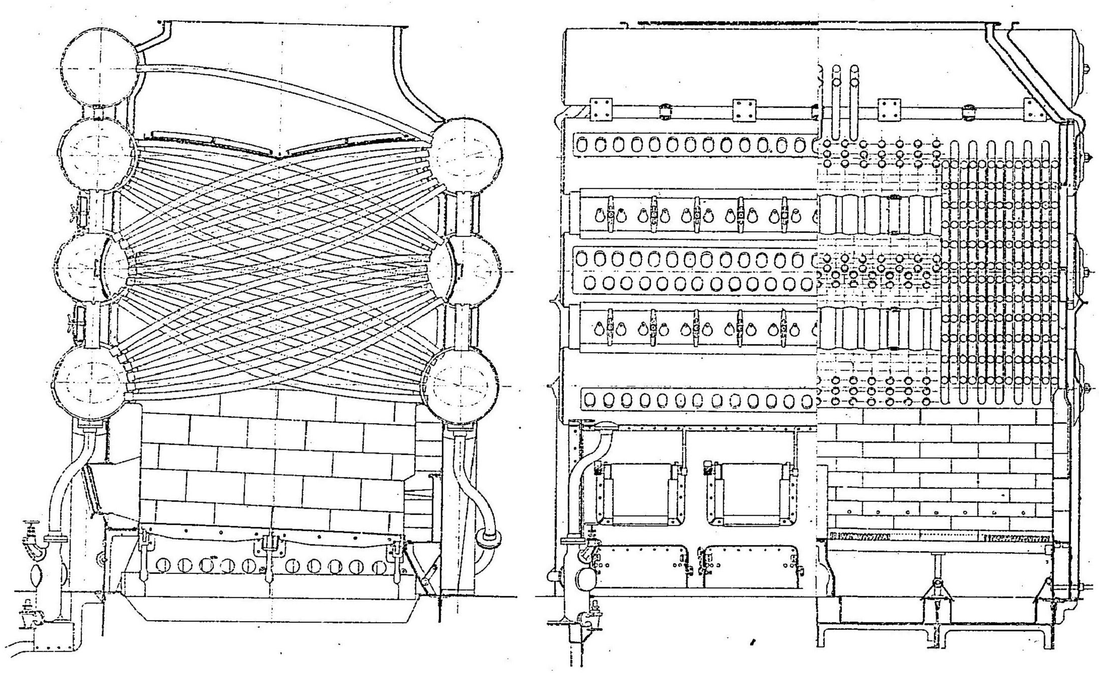
第貳拾壹圖



第拾九圖　汽機圖



第貳拾圖　汽鑵圖



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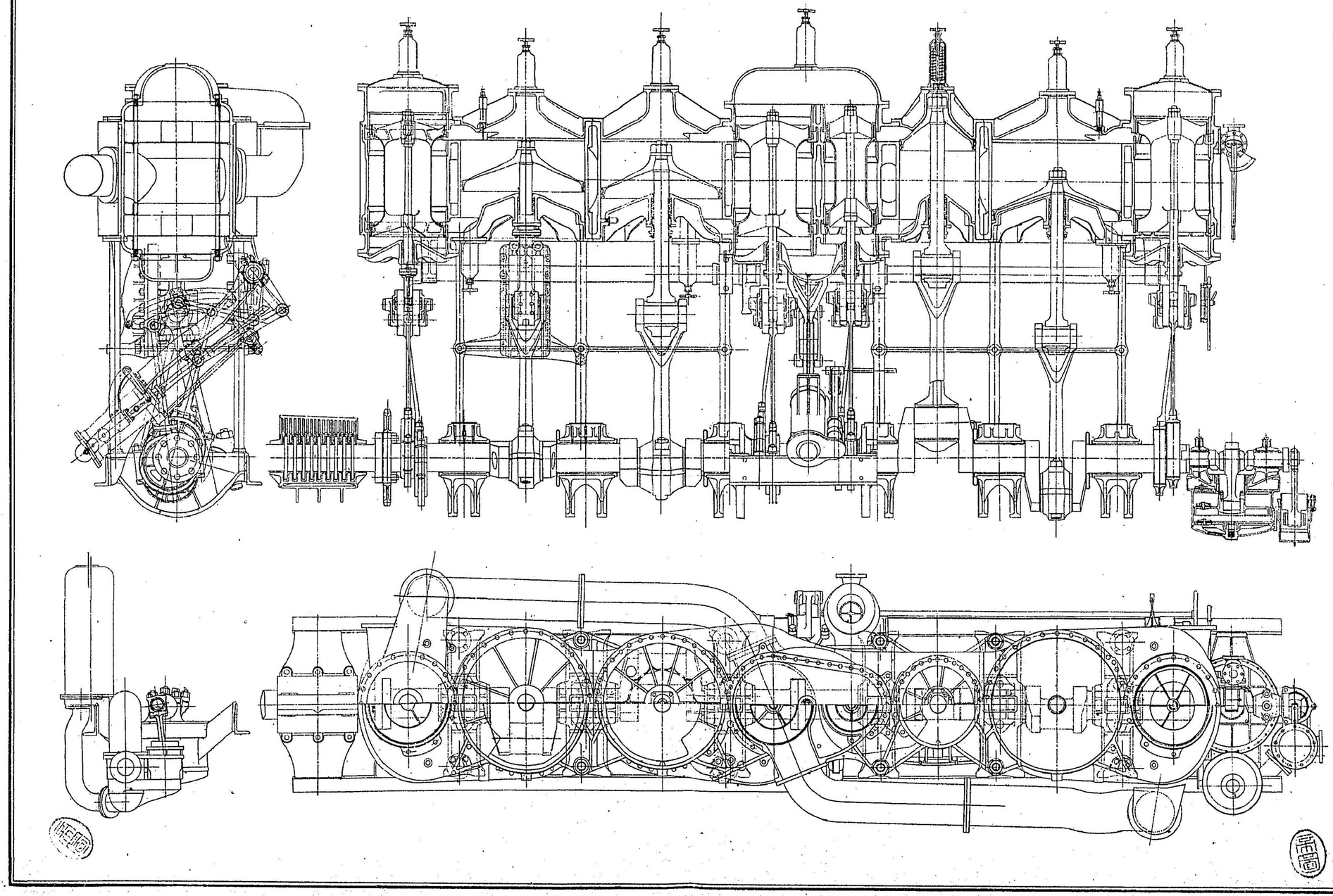
MISSING

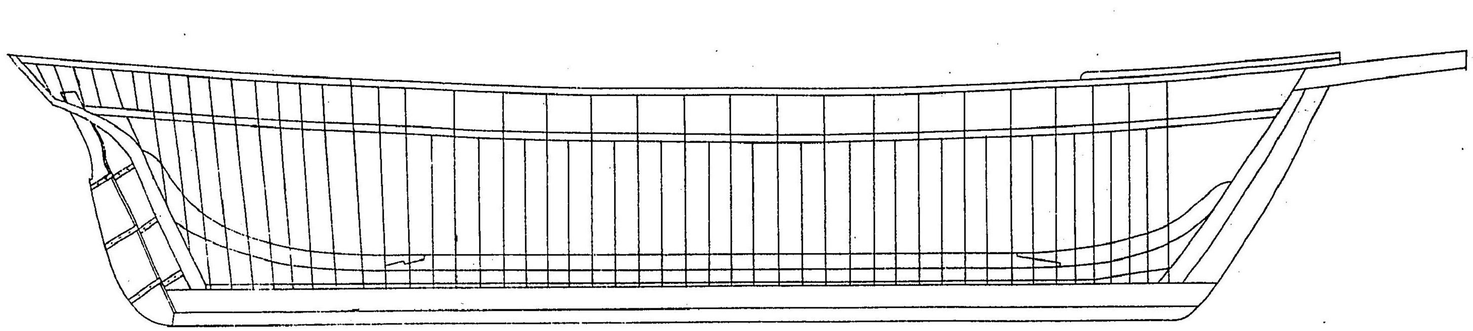
軍艦春雨機關圖

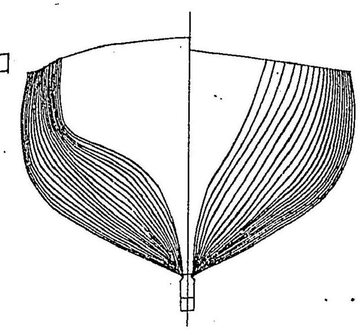
第貳拾壹圖

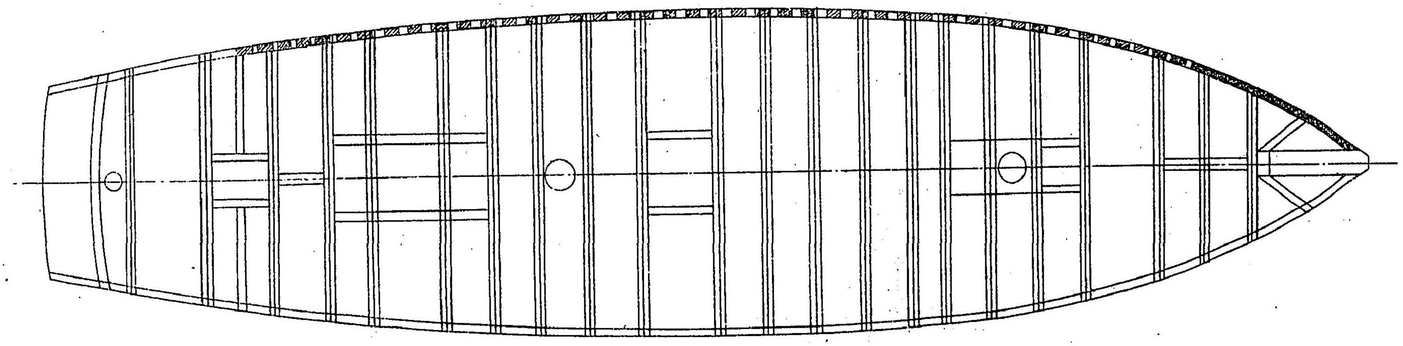


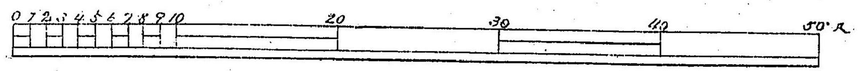
君澤形舩體圖

第貳拾貳圖





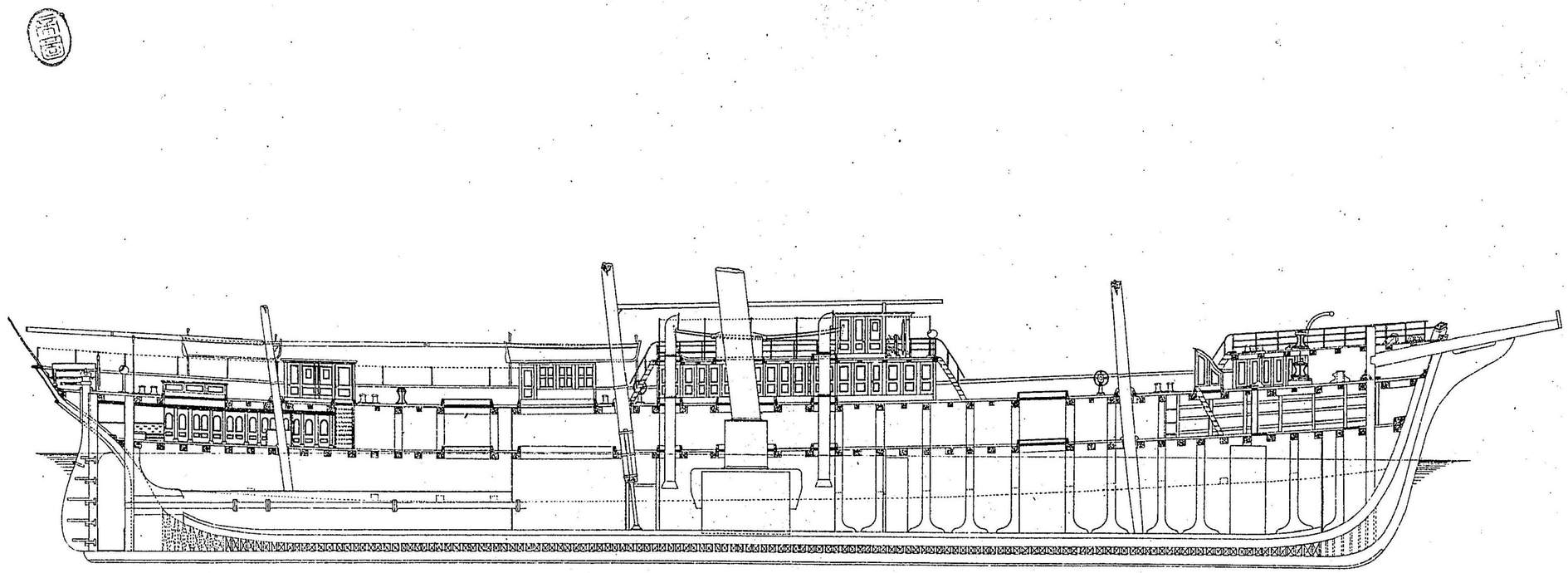




總長　八十一尺一寸
龍骨ノ長　六十二尺五寸
最大幅　二十三尺二寸
深　九尺九寸
肋骨心距　前後央　一尺七寸五分　一尺三寸
梁心距　二尺乃至四尺五寸

小管尤船體圖

第貳拾參圖



圖體舩丸日朝

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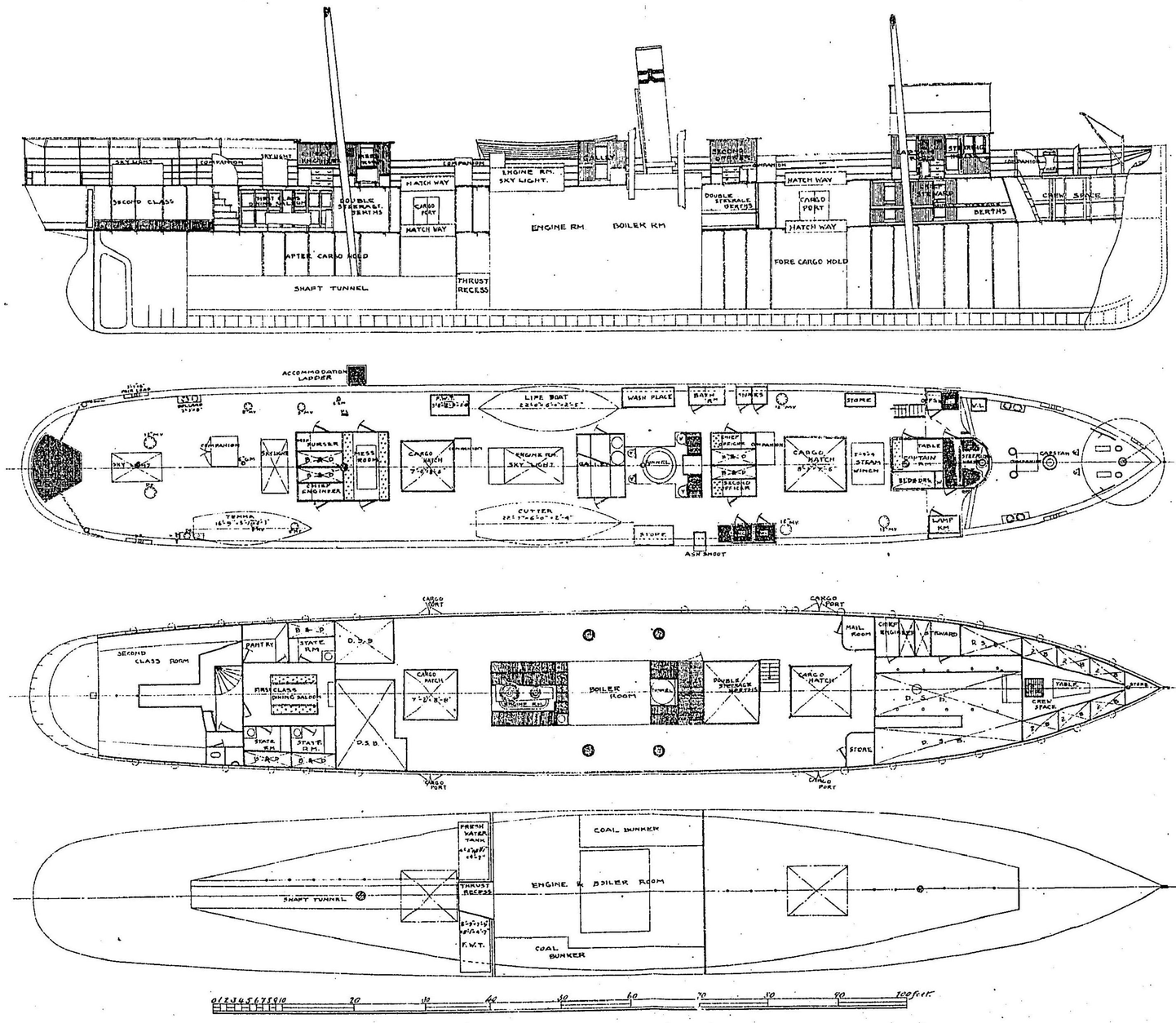
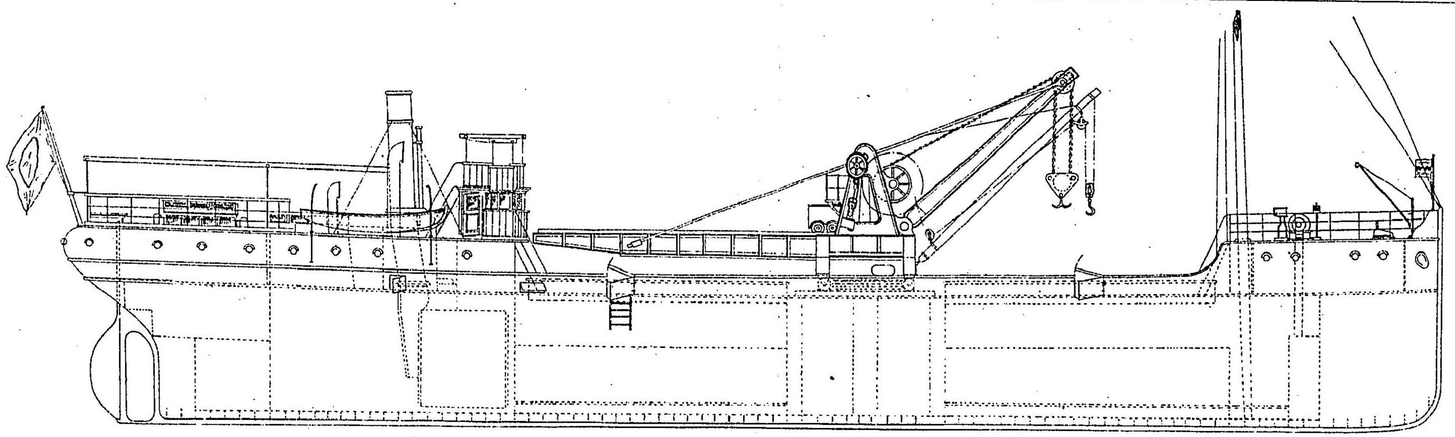
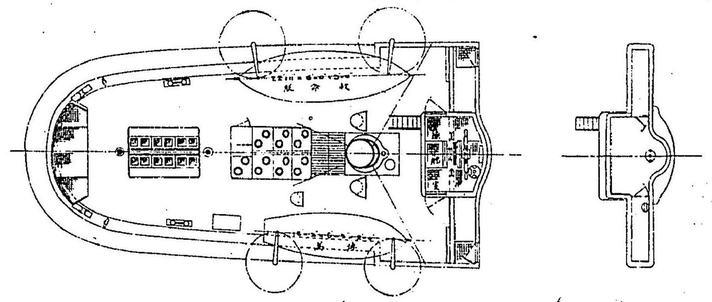
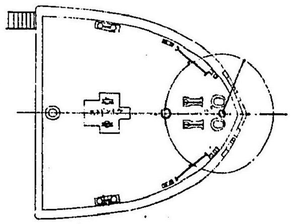


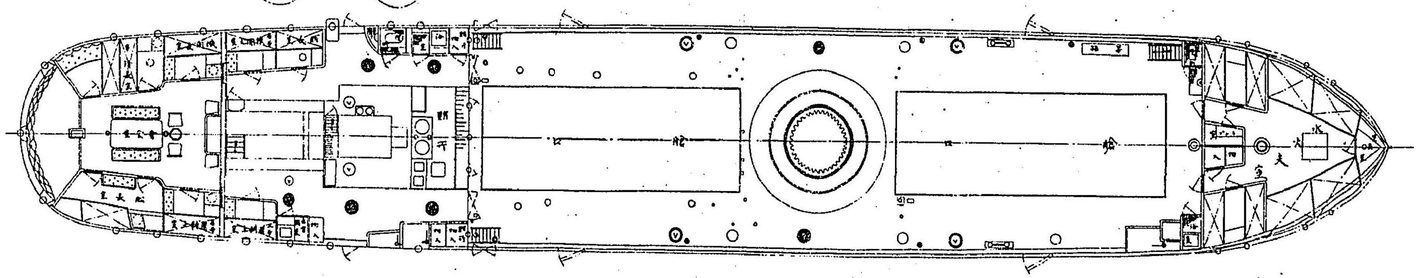
砲運丸船體圖

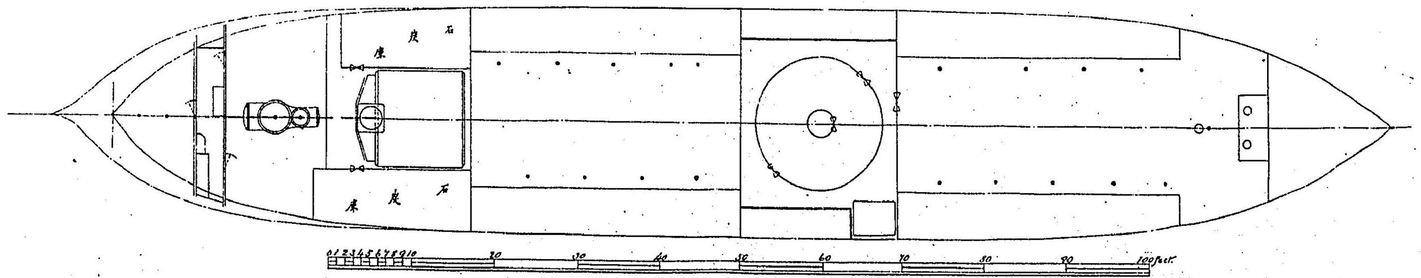
第貳拾五圖



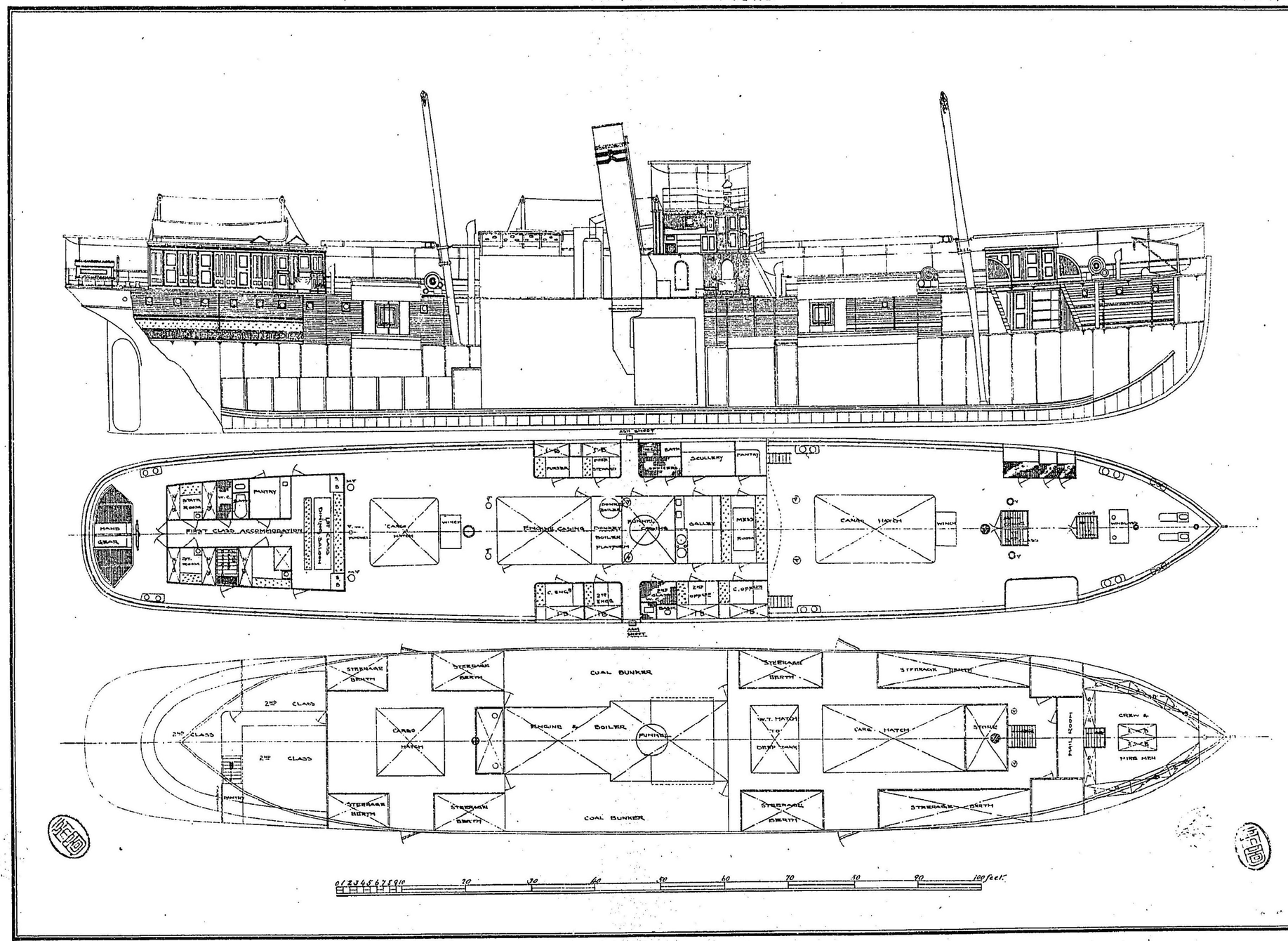






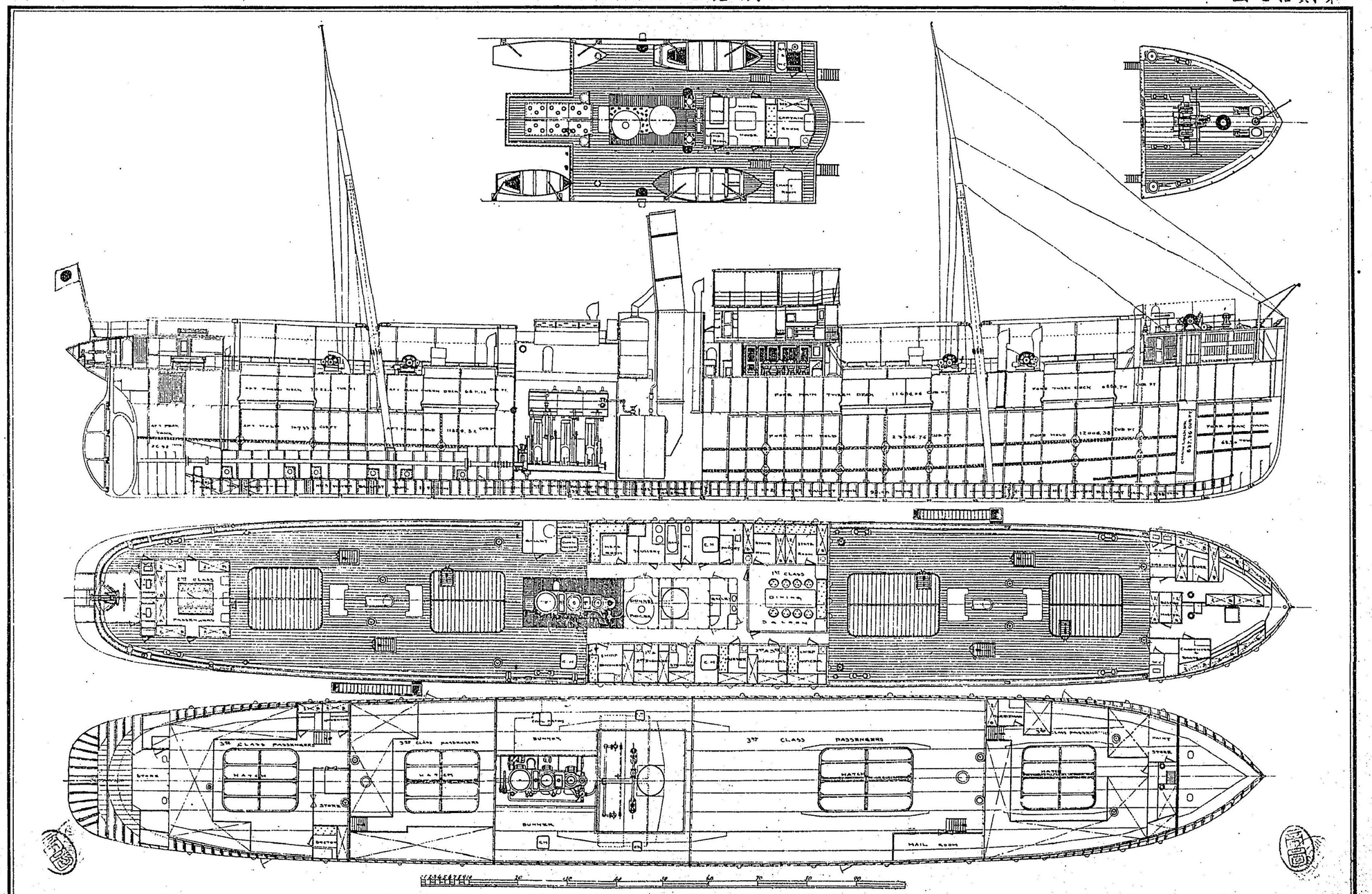


筑後川丸船體圖


ASH SHOOT
F.P.
PURSER
DRY STORES
STEWARD
BATH
SCULLERY
PANTRY
OFFICERS
MESS
ROOM
C. ENGR
2ND ENGR
2ND OFFICE
C. OFFICER
PASS.
HAND
GEAR
STEERING
GEAR
1ST CLASS ACCOMMODATION
PANTRY
W.C.
SMOKE ROOM
1ST CLASS
LIBRARY
SKYLIGHT
CARGO
HATCH
WINCH
ENGINE CASING
DONKEY BOILER
DINNING SALOON
PANTRY
GALLEY
MESS ROOM
CARGO HATCH
WINCH
CAPSTAN
COMPASS
SKYLIGHT
2ND CLASS
2ND CLASS
2ND CLASS
PANTRY
STEERAGE BERTH
STEERAGE BERTH
COAL BUNKER
CARGO HATCH
ENGINE & BOILER
FUNNEL
STEERAGE BERTH
STEERAGE BERTH
COAL BUNKER
STEERAGE BERTH
W.T. HATCH TO DEEP TANK
STEERAGE BERTH
CARGO HATCH
STEERAGE BERTH
STORE
MAIL ROOM
CREW &
FIRE MEN
0 1 2 3 4 5 6 7 8 9 10 20 30 40 50 60 70 80 90 100 feet

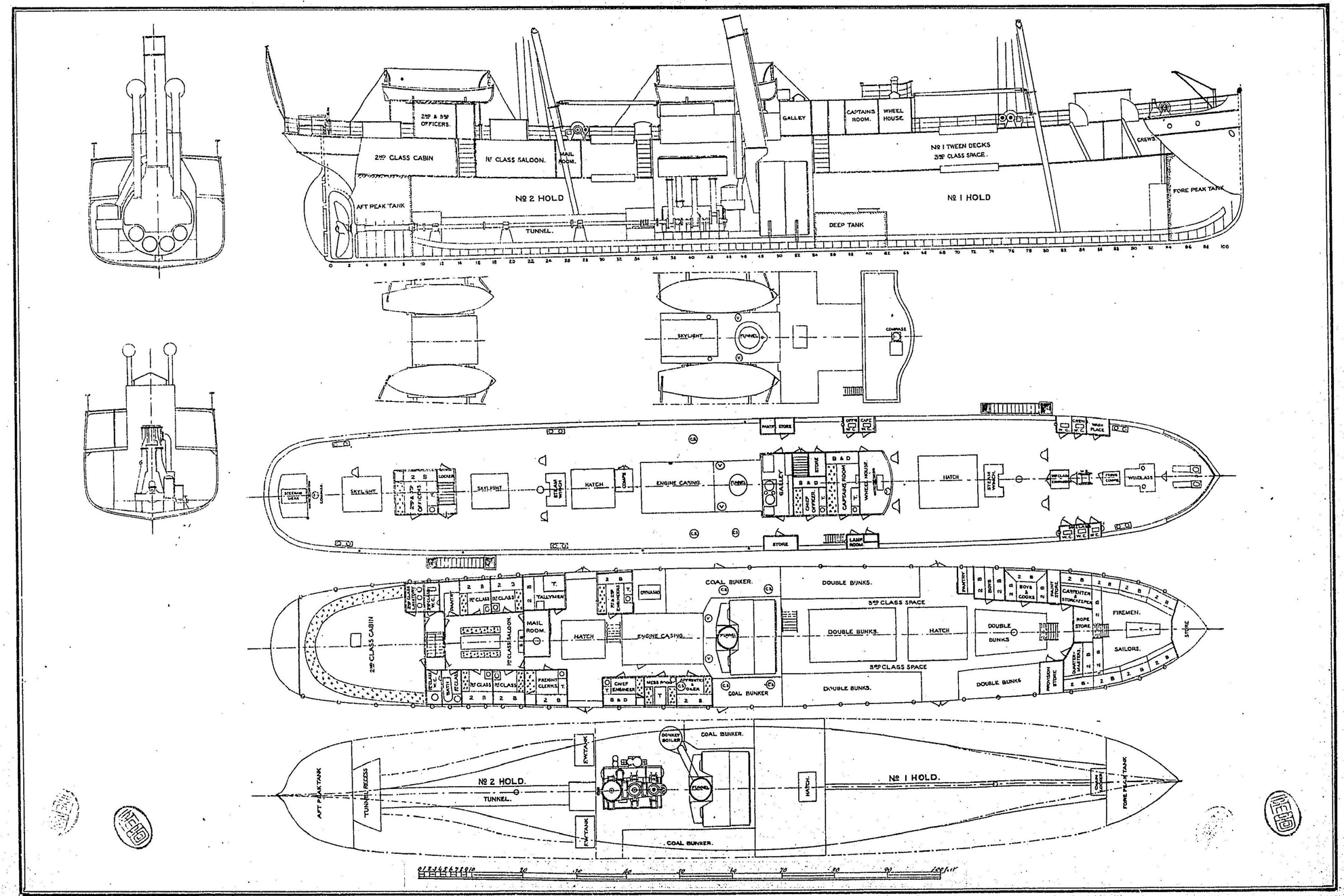
須磨丸船體圖

第貳拾七圖



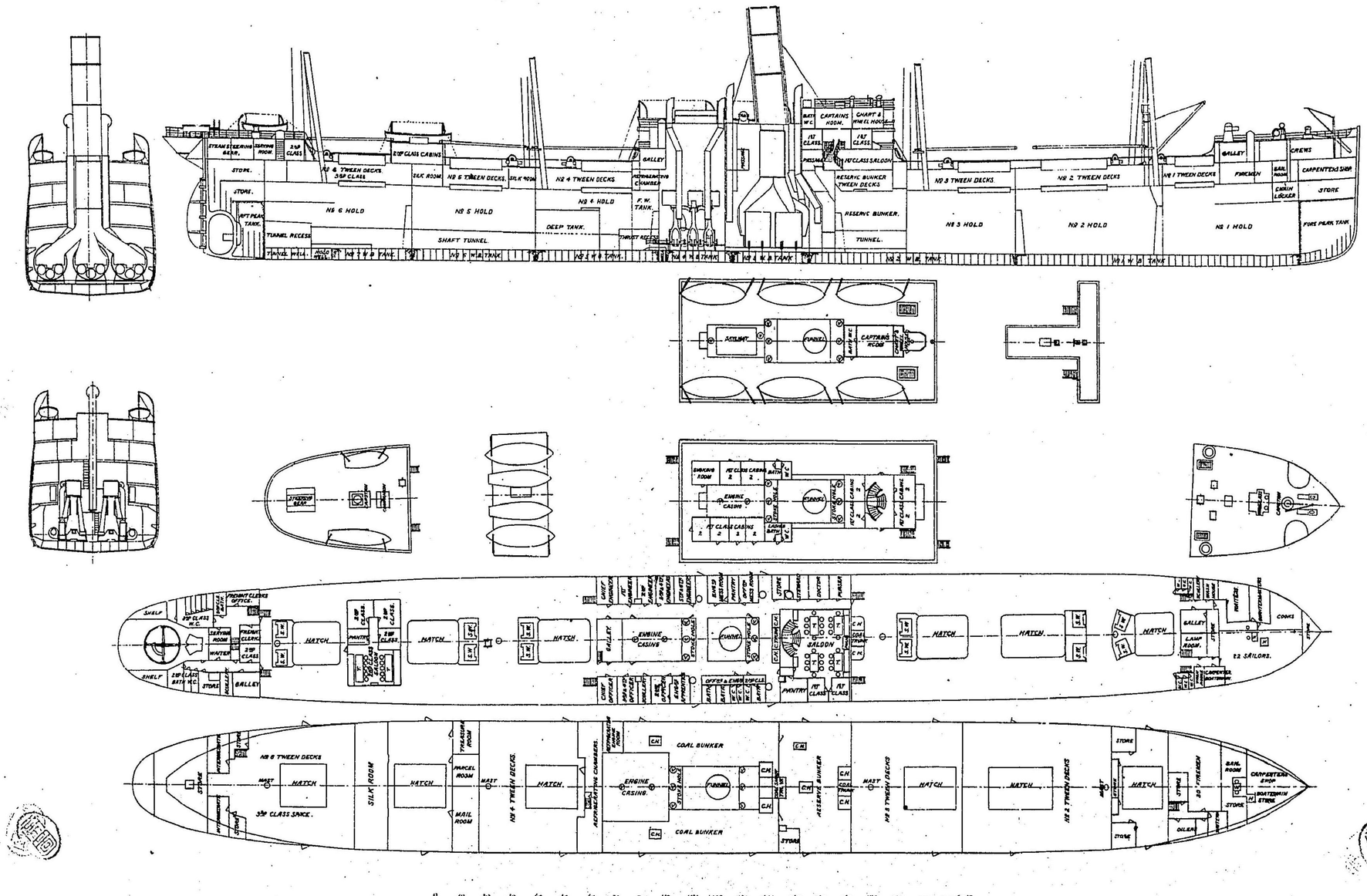
北見丸(伊豫丸)船體圖

第貳拾八圖



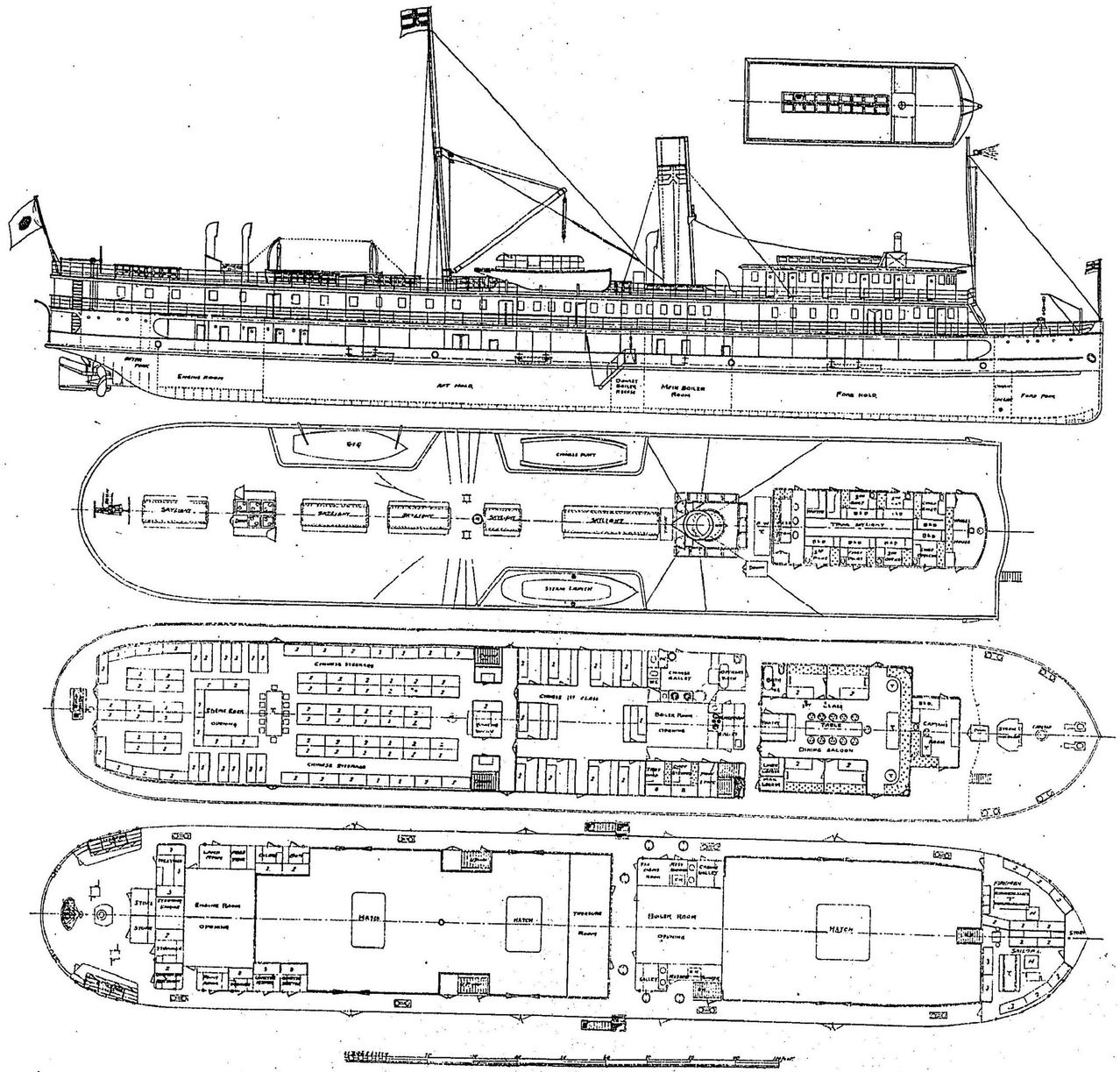
常陸丸船體圖

第貳拾九圖



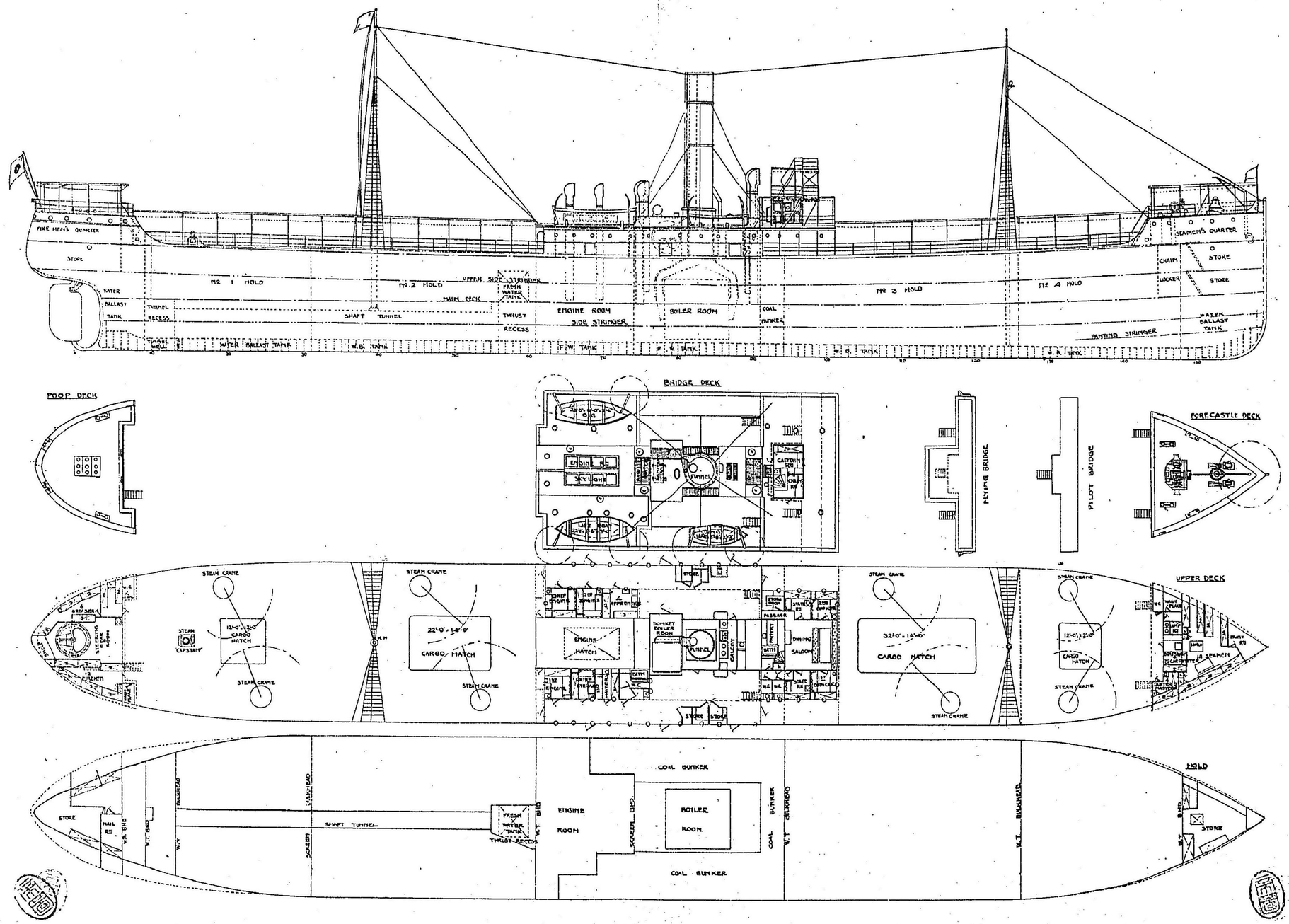
大元丸船體圖

第參拾圖


Engine Room
Main Boiler Room
Fore Hold
Fore Peak
Chinese Steerage
Engine Room
Opening
Chinese 1st Class
Boiler Room
Opening
1st Class
Table
Dining Saloon
Engine Room
Opening
Hatch
Hatch
Hatch
Boiler Room
Opening
Hatch
Steam Launch

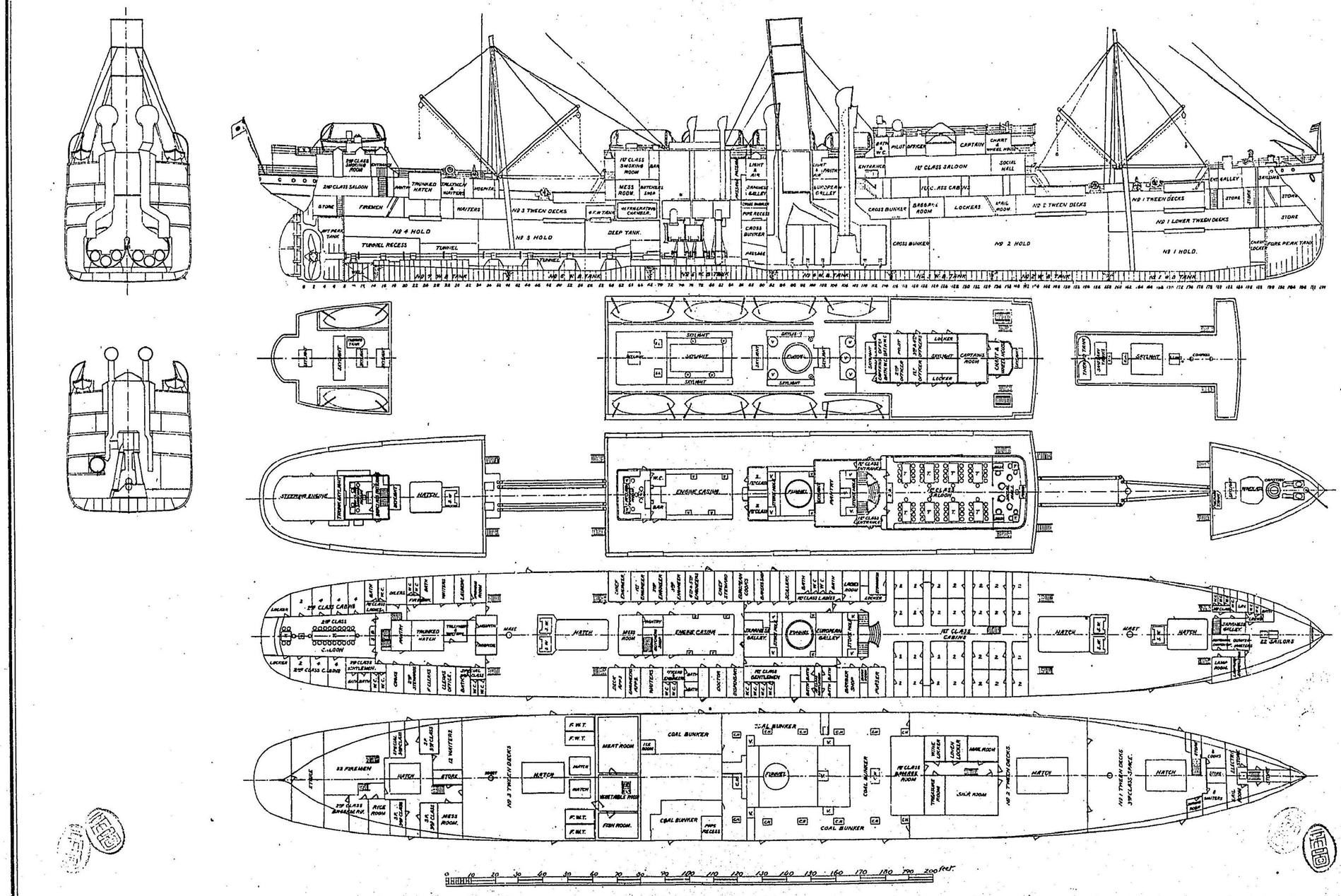
大治丸船體圖

第參拾壹圖



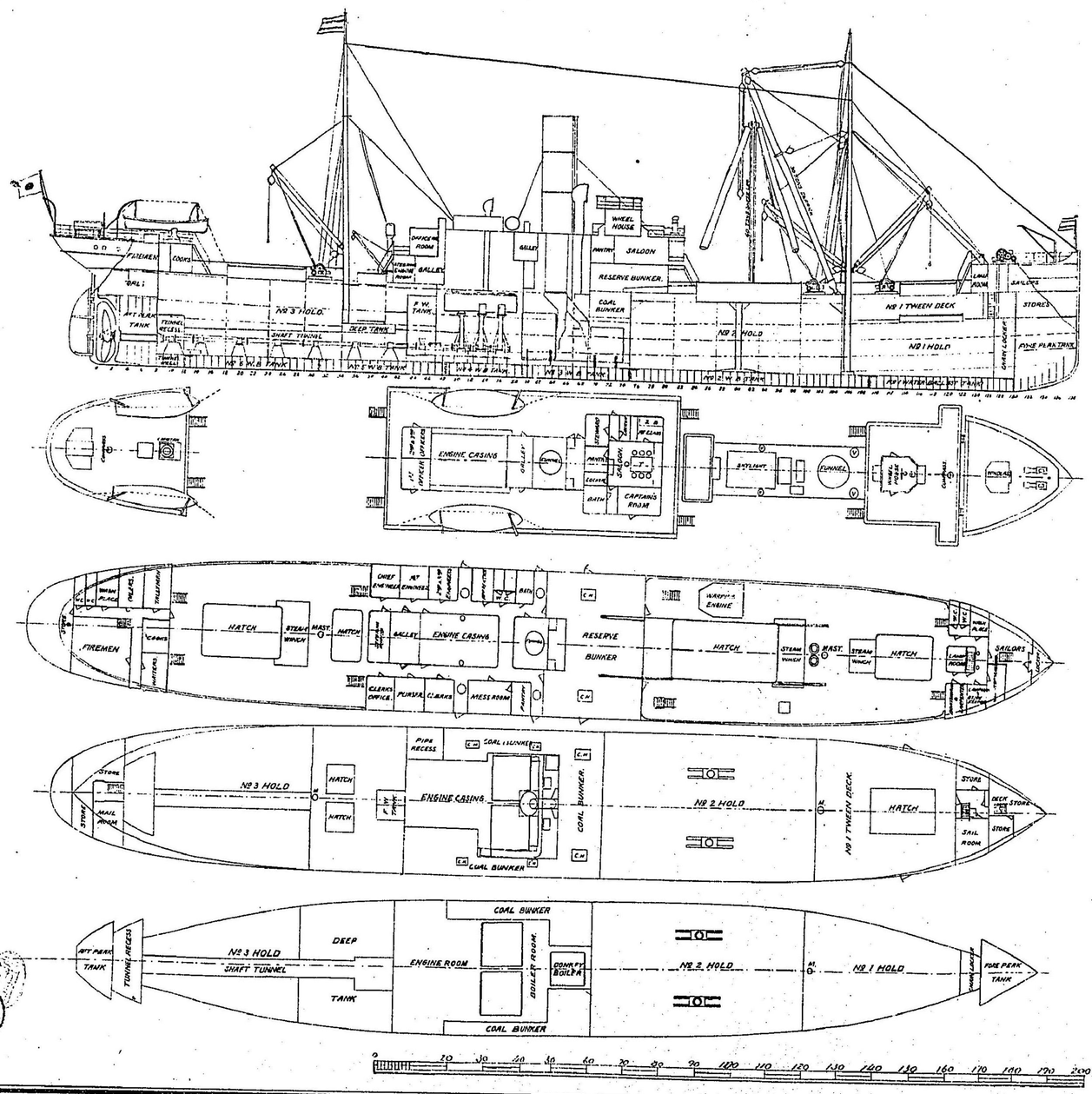
日光丸船體圖

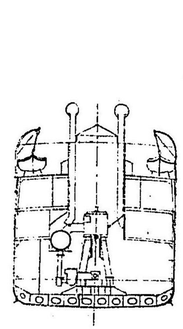
第參拾貳圖

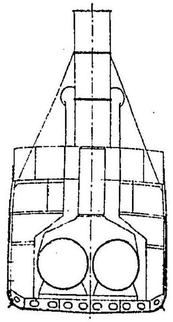


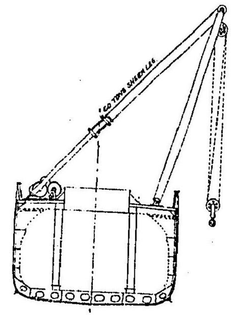
新潟丸船體圖

第參拾參圖 其一









新瀉丸船體橫截面圖

第參拾參圖其二

DIMENSIONS 270'-0"×39'-6"×23'-3" MOULDED.
CLASS 100 A1 @ LLOYDS TIMBER DECK RULE.

NUMERALS
± BREADTH ---- = 19.75
GIRTH ---- = 40.75
DEPTH ---- = 11.50
84.57

FRAMING NUMERAL 77.57
277.33
PLATING NUMERAL 7512.49
EQUIPMENT NUMERAL = 5457.27 ÷ 23462.80 = 1455.67
ERECTIONS = 8140.08÷3.92 = 2077.87
EQUIPMENT NUMERAL 2933.54

DEPTH TO LENGTH UPPER DK = 11.52
" " MAIN " = 15.35
BREADTH TO LENGTH = 7.02

FRAMES SPACED 24" APART.
FRAMES OUTSIDE CELLULAR BOTTOM, 5"×3"×5/16" FOR 3/8 L. & TO 7/16 AT ENDS TO FORM 7/16 GIRDER WITH REVERSE BAR.
5"×3½"×5/16" FOR 3/8 L. & TO 7/16 AT ENDS TO FORM 8" GIRDER, WITH REVERSE BAR.

IN PEAKS ORDINARY FRAME TO BE USED
FRAME 5"×3½"×5/16" REVERSE 3½"×3"×5/16"
FRAMES IN SIDE CELLULAR BOTTOM 3"×2½"×5/16" FOR 5/16 L. & TO 7/16 AT ENDS.
FRAMES IN CELLULAR BOTTOM TO BE DOUBLED BETWEEN COLLISION BULKHEAD & 1/4 L. FORWARD.
FRAMES IN AFTER PEAK EXTEND TO POOP DECK. FRAME TO BE DOUBLED TO MAIN DECK HEIGHT.

REVERSE BARS OUTSIDE CELLULAR BOTTOM IN WAY OF 7/16 GIRDER 3"×3"×5/16" FOR 3/8 L. & TO 7/16 AT ENDS

REVERSE BARS IN WAY OF 8" GIRDER 6"×3½"×7/16" FOR 3/8 L. & TO 7/16 AT ENDS

REVERSE BARS IN SIDE CELLULAR BOTTOM 3½"×3"×5/16".
REVERSE BARS IN CELLULAR BOTTOM UNDER E. & B. SPACE TO BE DOUBLED FROM MARGIN PLATE TO MARGIN PLATE.
IN BOILER SPACE 3½"×3"×7/16" DOUBLE.

FLOOR PLATES IN CELLULAR BOTTOM 7/16 " " UNDER BOILER SPACE 1/2 IRON
" " AT ENDS OF VESSEL 7/16 IN PEAK TO A SUFFICIENT HEIGHT ABOVE STERN TUBE.
FLOOR PLATES IN AFT PEAK TO FIT AND
TRANSOM PLATE 9/16
TANK INTERCOSTAL PLATES 3/8 IN HOLDS & SUNDRY SPACE
" " 1/2 IRON IN BOILER SPACE
2 EXTRA INTERCOSTAL PLATES EACH SIDE IN WAY OF ENGINES.
1 EXTRA INTERCOSTAL PLATE EACH SIDE IN WAY OF No 2 HOLD PILLAR (SEE TANK TOP PLAN)
CENTRE GIRDER 36.5/16" INCREASED TO 39" AS PER SPECIFICATION AND 7/16 IN BOILER SPACE.

STEM 10"×2½" REDUCED TO 8"×2½" AT TOP
FORGED IRON
STERN FRAME 10"×5½" REDUCED AT TOP AS PER RULE (10"×8").
FORGED IRON
RUDDER 7/16 DIA. 1/2 INCREASED TO 7/16
PINTLE 3½" DIA.

CENTRE GIRDER TOP ANGLES 4"×4"×7/16"
" " IRON UNDER BOILER "
CENTRE GIRDER BOTTOM ANGLES 6½"×4"×7/16"

PLATING UNDER WINDLASS BEING 5/16"
POOP TIE PLATE 11"×5/16" BUTTS LAPPED. STRINGER PLATE 42"×9/16" ON ½ DOUBLE RIVETED.
BRIDGES DECK PLATED OVER WITH 5/16" STEEL BUTTS LAPPED DOUBLE RIVETED ½ FORECASTLE TIE PLATE
BRIDGES TO 32.5/16" AT ENDS. OF POOP & FORECASTLE DECKS.
7/16" BUTTS LAPPED ½ DOUBLE RIVETED. ½" DOUBLE IN BRIDGE 7/16" SINGLE IN POOP & FCSLE.
BRIDGE ½ FORECASTLE DK 5"×3" OREGON PINE.

ROUND UP 9/16
POOP DECK BEAMS 6"×4½"×7/16" ON ALTERNATE FRAMES
BRIDGE DECK BEAMS 6"×3½"×7/16"
" " HALF BEAMS 7"×4½"×7/16"
FORECASTLE DECK BEAMS 6"×3½"×7/16"
FOR BEAMS EXCEEDING ½ L OF B. BEAM.
7"×4½"×7/16" BULB TEE FOR BEAMS LESS THAN ½ L OF B BEAM
9"×3½"×7/16" " " IN WAY OF WINDLASS.
PILLARS 7½" DIA SOLID
BRIDGE SIDE 5/16"
POOP & FORECASTLE SIDES 7/16" BUTTS LAPPED & DOUBLE RIVETED.
4½" DOUBLE IN BRIDGE 2½" SINGLE IN POOP & FCSLE.
STRINGER PLATE 42"×9/16" FOR ½ L. TO 5/8 AT ¼ L. AND FURTHER REDUCED TO 32.5/16"
6½" BULB PLATE 6'-0" APART
UPPER DECK 5"×3" OREGON PINE IN WAY OF ACCOMMODATIONS
ANGLE 4"×4"×7/16" ANGLE 4"×4"×7/16" IN BRIDGE POOP & FCSLE DK
ROUND UP 9/16
LONGITUDINAL RUNNER 7"×3½"×7/16" CHANNEL
UPPER DK BEAMS 6½"×3½"×7/16" ANGLE BULB ON EVERY FRAME FOR ¼ BEAMS.
5½"×3½"×7/16" " " " FOR BEAMS LESS THAN ½ L. OF BEAM.
6"×3½"×7/16" " " " ½ L.
IN WAY OF No 3 HOLD 7"×3½"×7/16" ANGLE BULB ON EVERY FRAME.
" " " No 2 " SEE SECTION IN WAY OF No 2 HOLD.
UPPER DECK BEAMS UNDER RESERVE BUNKER 7½"×3½"×7/16" ANGLE BULB ON EVERY FRAME
HATCH 1 OF BEAMS IN HATCH WAYS (12 ABOVE IN LENGTH) 10"×3½"×7/16" BULB PLATE.
WITH SINGLE ANGLE 6"×4"×7/16".
HALF BEAMS 7"×3½"×7/16" ANGLE BULB ON EVERY FRAME.
" " IN No 3 HOLD 8"×3½"×7/16" ANGLE BULB ON EVERY FRAME
STRONG BEAMS IN MACHINERY SPACE 10"×4"×7/16" PLATE & 4.5"×4"×1/2" FOUR ANGLES, FITTED AS MANY AS PRACTICABLE.
MAIN DECK PLATED OVER 5/8 STEEL OR 3/4 IRON AT ¼ L. AND FURTHER REDUCED TO 32.5/16"
BOTH PEAK TOP PLATINGS 5/16"
STRINGER PLATE 42"×9/16" FOR ½ L. TO 5/8 IN WAY OF No 2 HOLD BREADTH REDUCED TO 36" & THICKNESS INCREASED TO 5/8" AND 6"×3½"×7/16" BULB ANGLE FITTED ON INNER EDGE
ROUND UP 9/16
LONGITUDINAL RUNNER 7"×3½"×7/16" CHANNEL
MAIN DECK BEAMS 7½"×3½"×7/16" ANGLE BULB ON EVERY FRAME FOR ½ BEAMS.
6½"×3½"×7/16" ANGLE BULB ON EVERY FRAME FOR BEAMS LESS THAN ½ L OF B BEAM.
6"×3½"×7/16" ANGLE " " " ½ L.
MAIN DK HATCH END BEAM 13 10/16 BULB PLATE WITH SINGLE ANGLE 6"×4"×7/16"
HALF BEAMS 6"×3"×7/16" ANGLE BULB ON EVERY FRAME.
UPPER STRINGER 21"×5/16" FOR ½ L. 7/16 AT ENDS.
BULKHEADS 7/16" FOR LOWER HALF 5/16" FOR UPPER HALF
FRAMES 5"×3"×7/16" DOUBLE (3"×3"×7/16" DOUBLE FROM 3/4) DIAMOND PLATE 34"×86"×7/16"
BOTTOM & TOP ANGLES 3½"×3"×7/16" DOUBLE.
VERTICAL STIFFENERS 5"×3"×7/16" ANGLE 30" APART TO HAVE BRACKET AT HEEL
HORIZONTAL " " 45°
6"×3½"×7/16"
LOWER STRINGER 21"×5/16" FOR ½ L. 7/16 AT ENDS.
3-SHAFT TUNNEL 5/16 TO HAVE 5" PLANK IN HATCH WAYS
TANK TOP CENTRE STRAKE 36"×7/16" FOR ½ L. 5/8" AT ENDS
7/16 IRON IN BOILER SPACE
MARGIN PLATE 39"×5/8" 39"×9/16" IN BOILER SPACE
BUTTS LAPPED & DOUBLE RIVETED ALL FORE & AFT.
BUTTS LAPPED DOUBLE RIVETED
CEILING 7/8" DUAL
INCREASED 1/16" FOR 7/16 L. & TO 1/2"
BILGE KEEL 11"×7/16" FOR 5/8 L. DOUBLE BUTT STRAPS 5"×5"×1/2" DOUBLE TREBLE RIVETED.
FLAT PLATE KEEL 36"×7/16" FOR 3/8 L. & TO 1/2" AT ENDS.
INCREASED 1/16" FOR 7/16 L. & TO 1/2"

NO 2 CARGO HATCH, HATCH COAMING ANGLE 4"×4"×7/16"
4"×4"×7/16" ANGLE
DIAPHRAGM PLATE
ANGLE 3½"×3"×7/16"
BRACKET 7/16"
CENTRE LINE OF SHEER LEGS.
UPPER DECK BEAMS 7" CHANNEL
STRONG BEAM IN WAY OF SHEER LEGS 27"×16" WITH 2 ANGLES 6"×4"×7/16" ON BOTTOM
FRAMES IN No 2 & 3 HOLDS 5"×3½"×7/16" FOR ½ L. & TO 7/16 AT ENDS TO FORM 8" GIRDER WITH REVERSE BAR
STRINGER PLATE 36"×7/16"
BULB ANGLE 9"×3½"×7/16"
DIAMOND PLATE 5/16" THICK
21" DIA. 7/16 THICK BUILT UP
STRINGER 21"×5/16" FOR ½ L. & TO 5/16 AT ENDS.
6½"×4"×7/16" ANGLES
DIAMOND PLATE 34"×26"×5/16"
STRINGER 21"×5/16" FOR ½ L. & TO 5/16 AT ENDS.
6½"×4"×7/16" ANGLES
DIAMOND PLATE 34"×26"×5/16"
DOUBLE UNDER PILLAR

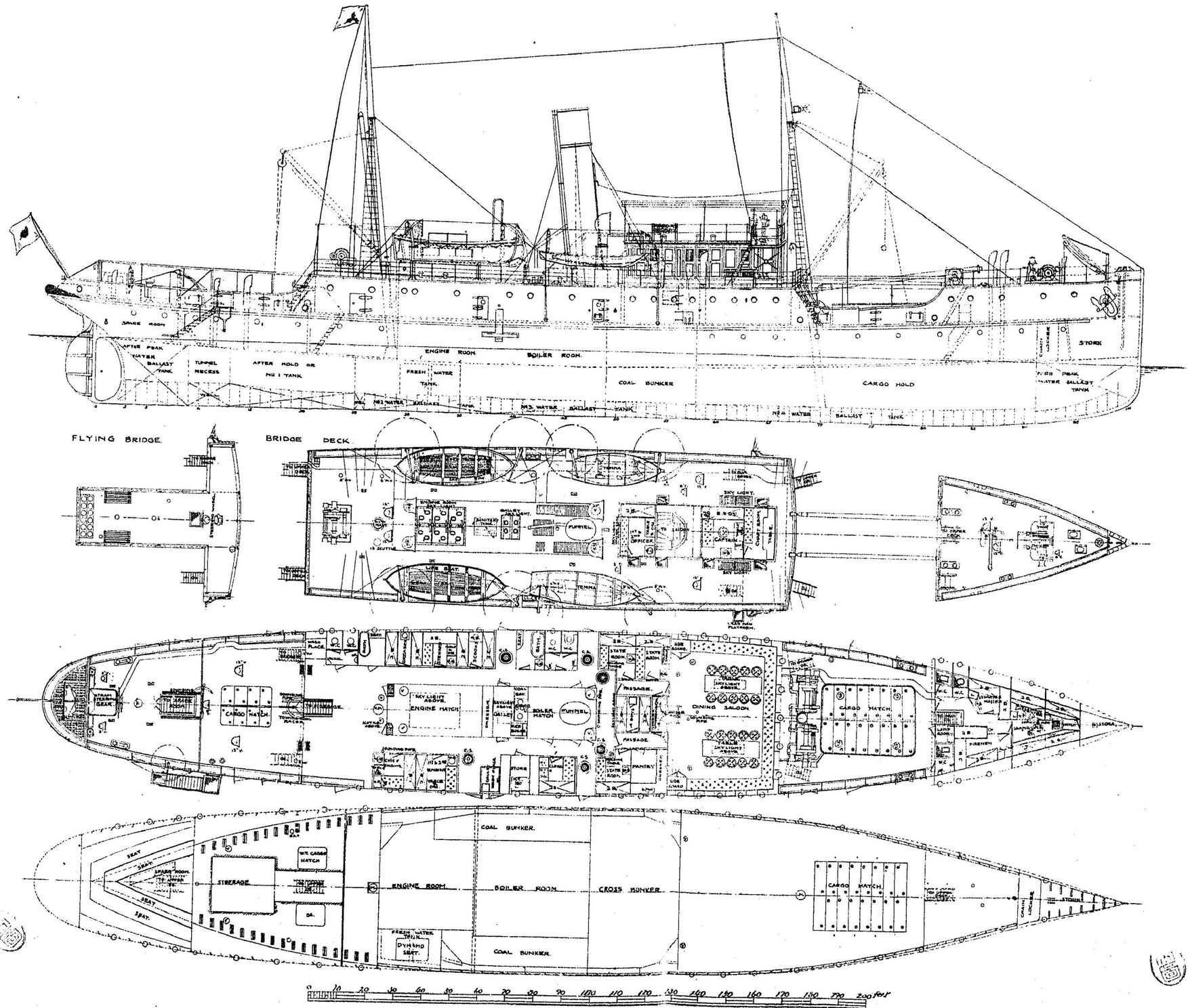
SECTION AT A
SCALE 1" = 1 FOOT
7" CHANNEL
ANGLE 3½"×3"×7/16" SINGLE
ANGLE 4"×4"×7/16"
DIAPHRAGM PLATE
CONTINUOUS PLATE 7/16"

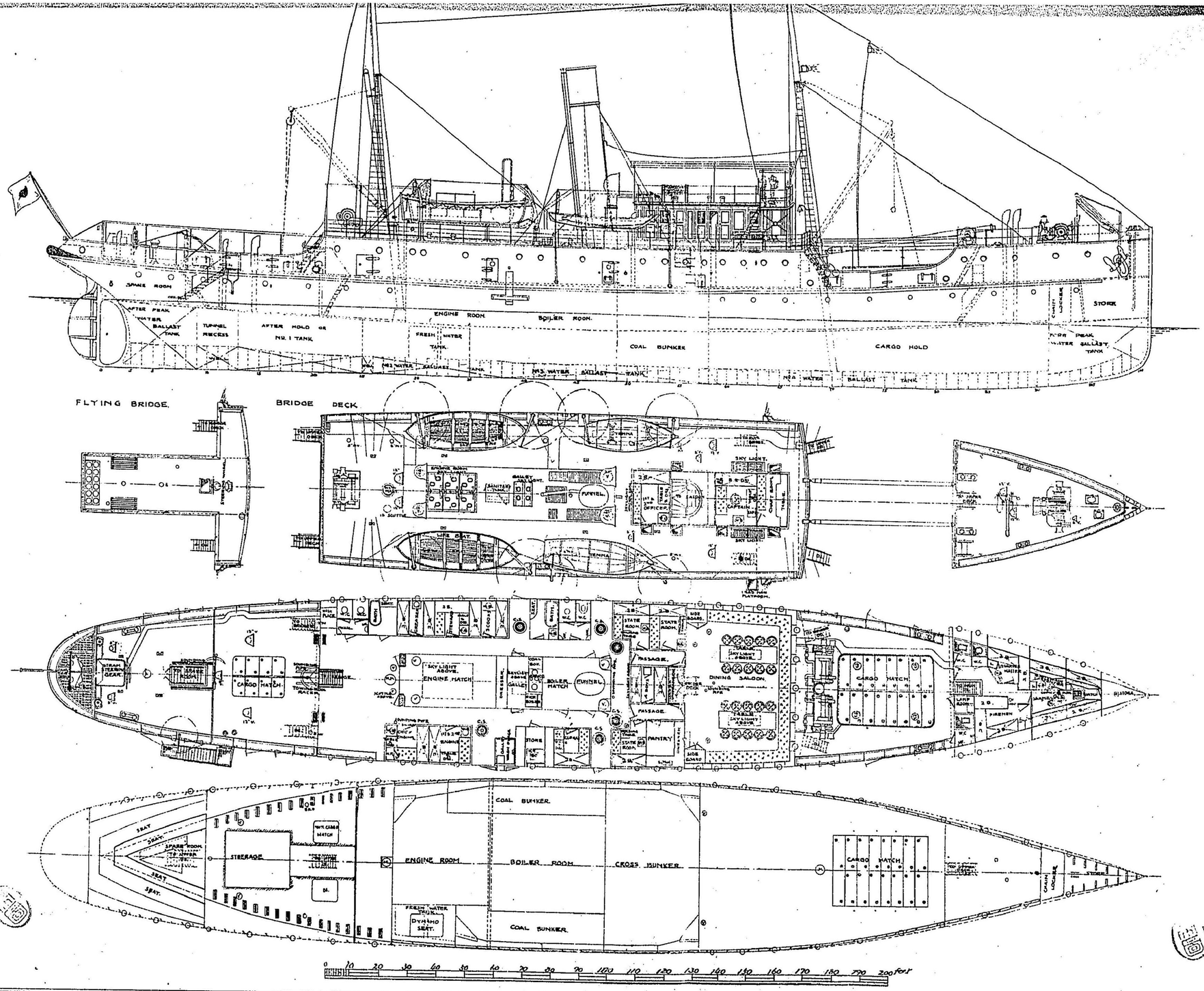
SECTION AT B
SCALE 1" = 1 FOOT
7 CHANNEL
ANGLE 3½"×3"×7/16" SINGLE
ANGLE 4"×4"×7/16"
CONTINUOUS PLATE 7/16"

0 1 2 3 4 5 6 7 8 9 10 15 20 25 feet

大浦丸船體圖

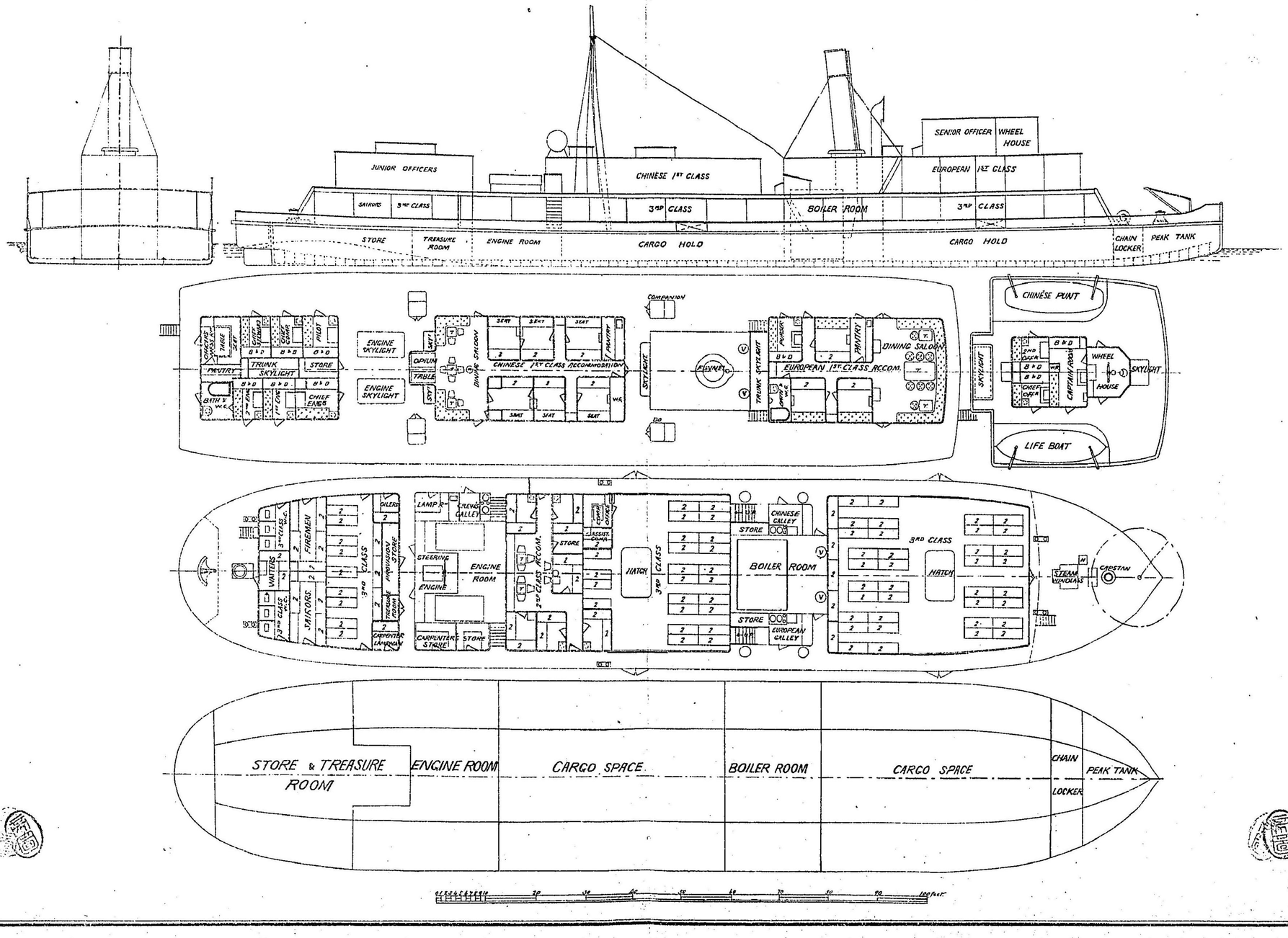
第參拾四圖




JAMES ROOM
AFTER PEAK WATER BALLAST TANK
TUNNEL RECESS
AFTER HOLD OR No. 1 TANK
ENGINE ROOM
BOILER ROOM
FRESH WATER TANK
COAL BUNKER
CARGO HOLD
No.3 WATER BALLAST TANK
No.4 WATER BALLAST TANK
STORE
FORE PEAK WATER BALLAST TANK
FLYING BRIDGE.
BRIDGE DECK.
SKY LIGHT.
CAPTAIN
PANTRY
DINING SALOON
CARGO HATCH
ENGINE HATCH
BOILER HATCH
FUNNEL
GALLEY
STATE ROOM
PASSAGE
STEERAGE
SPARE ROOM
SEAT
COAL BUNKER
ENGINE ROOM
BOILER ROOM
CROSS BUNKER
DYNAMO SEAT.
FRESH WATER TANK
CREW
FIREMEN
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 feet

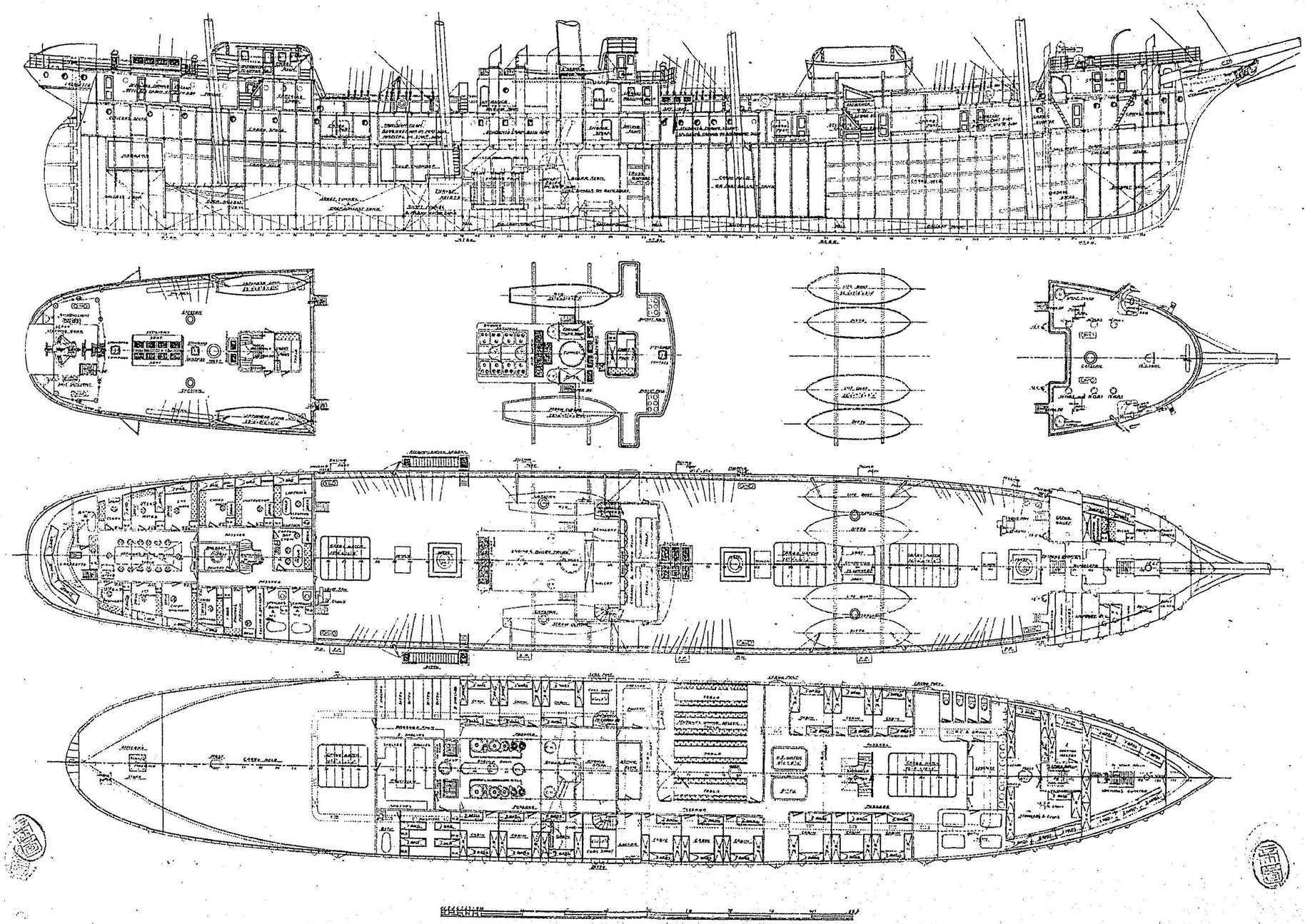
湘江九舩體圖

第參拾五圖

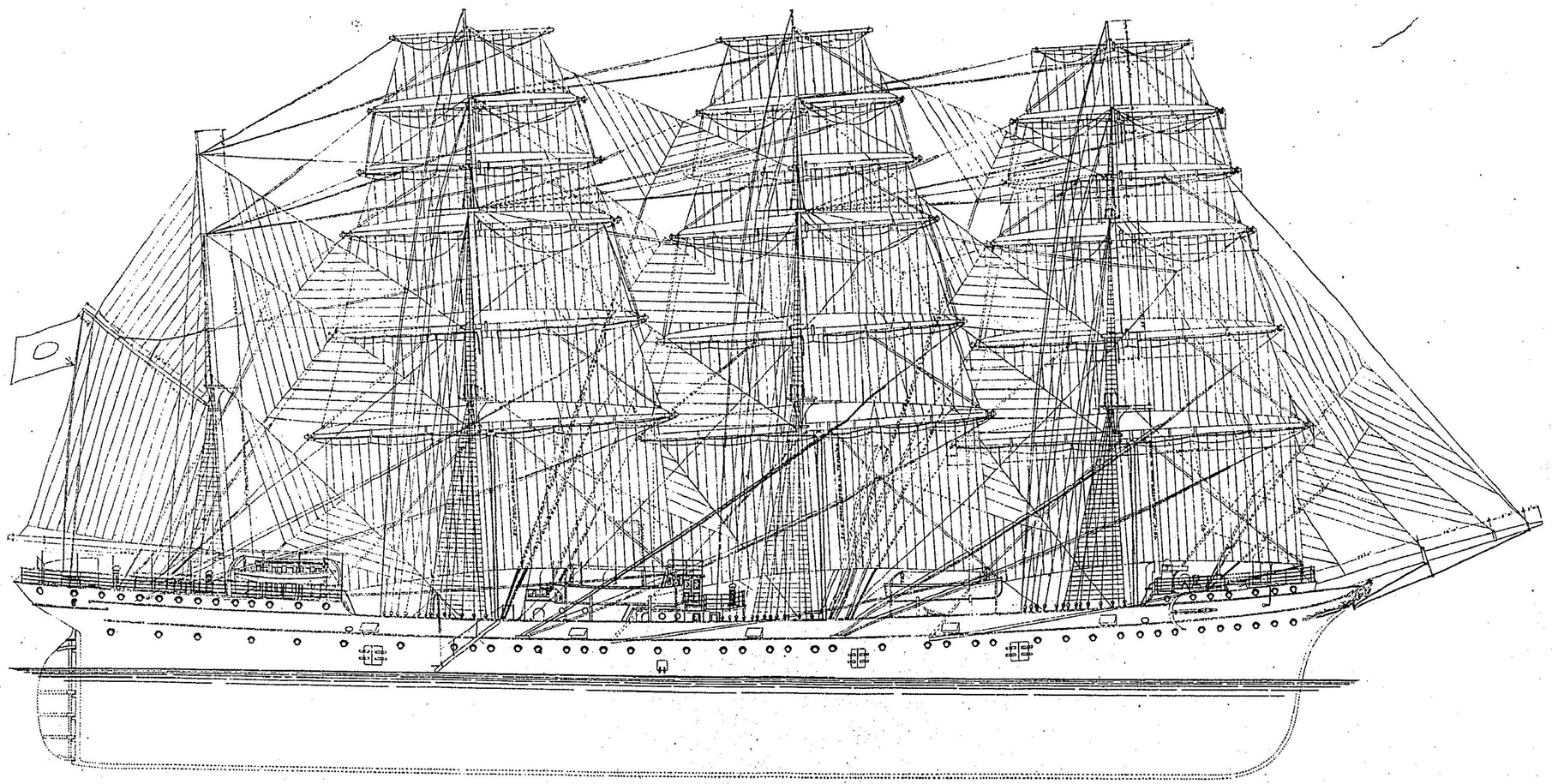


大成九船體圖

第參拾六圖其一

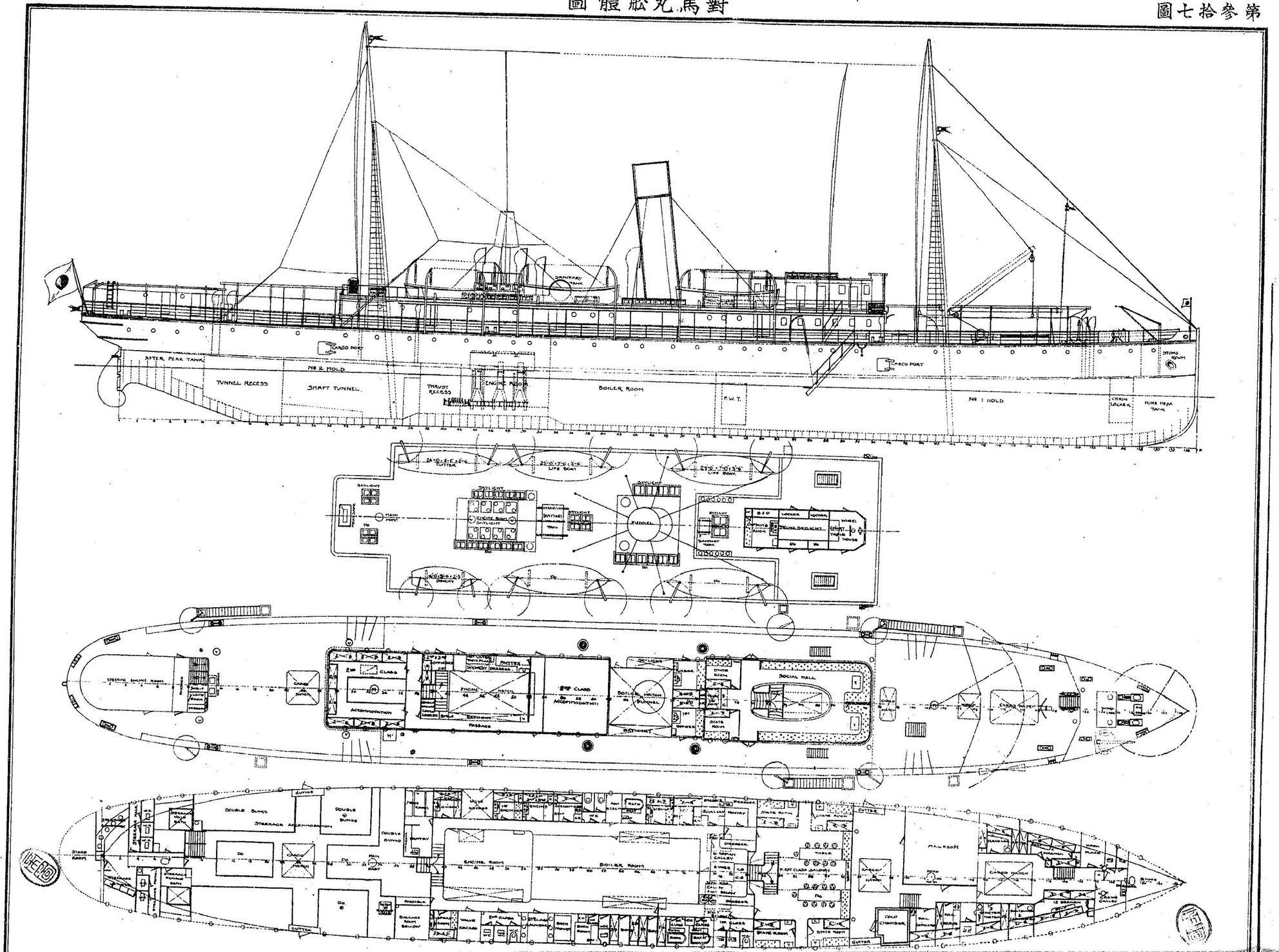


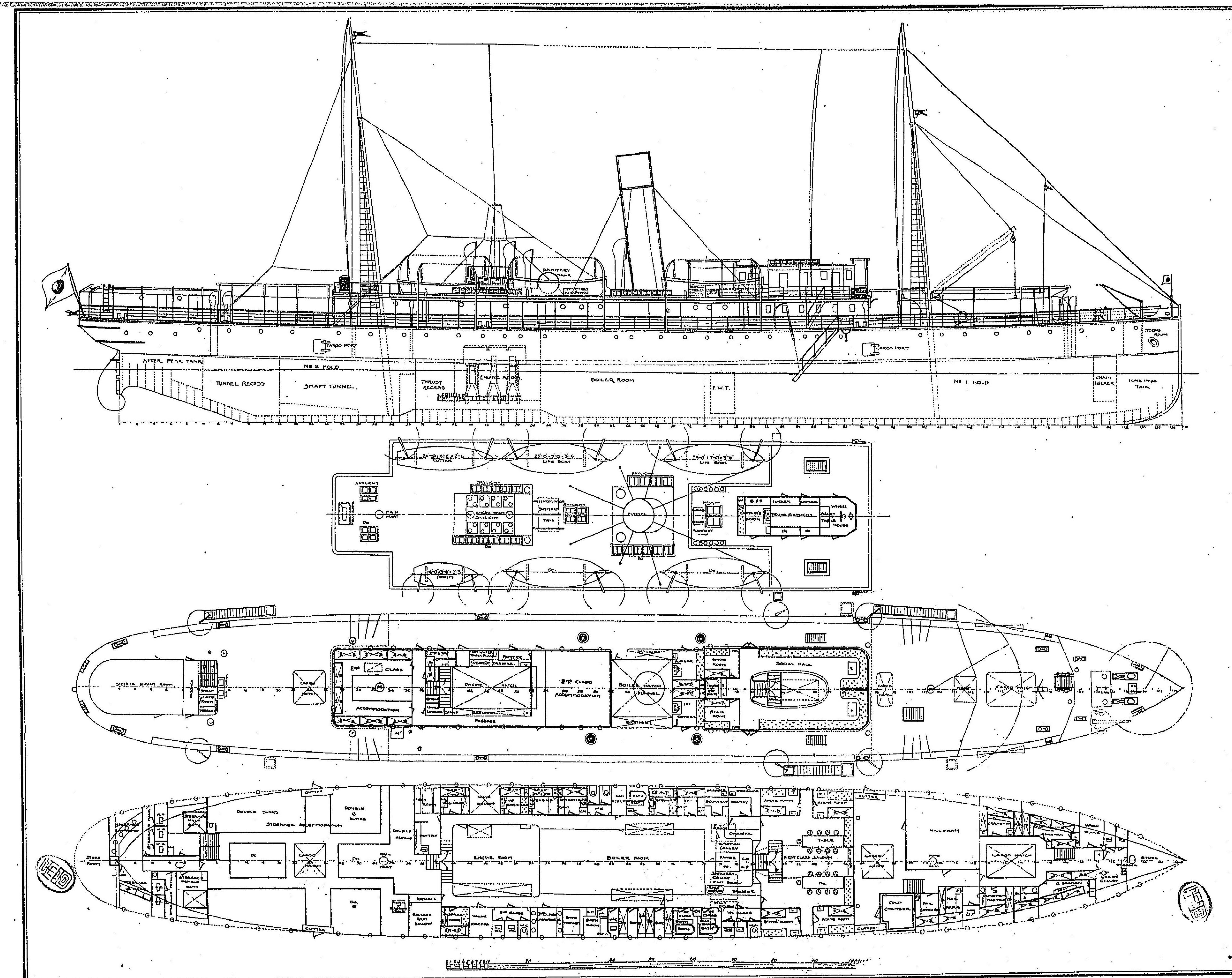
大成丸舩體裝帆圖



對馬丸船體圖

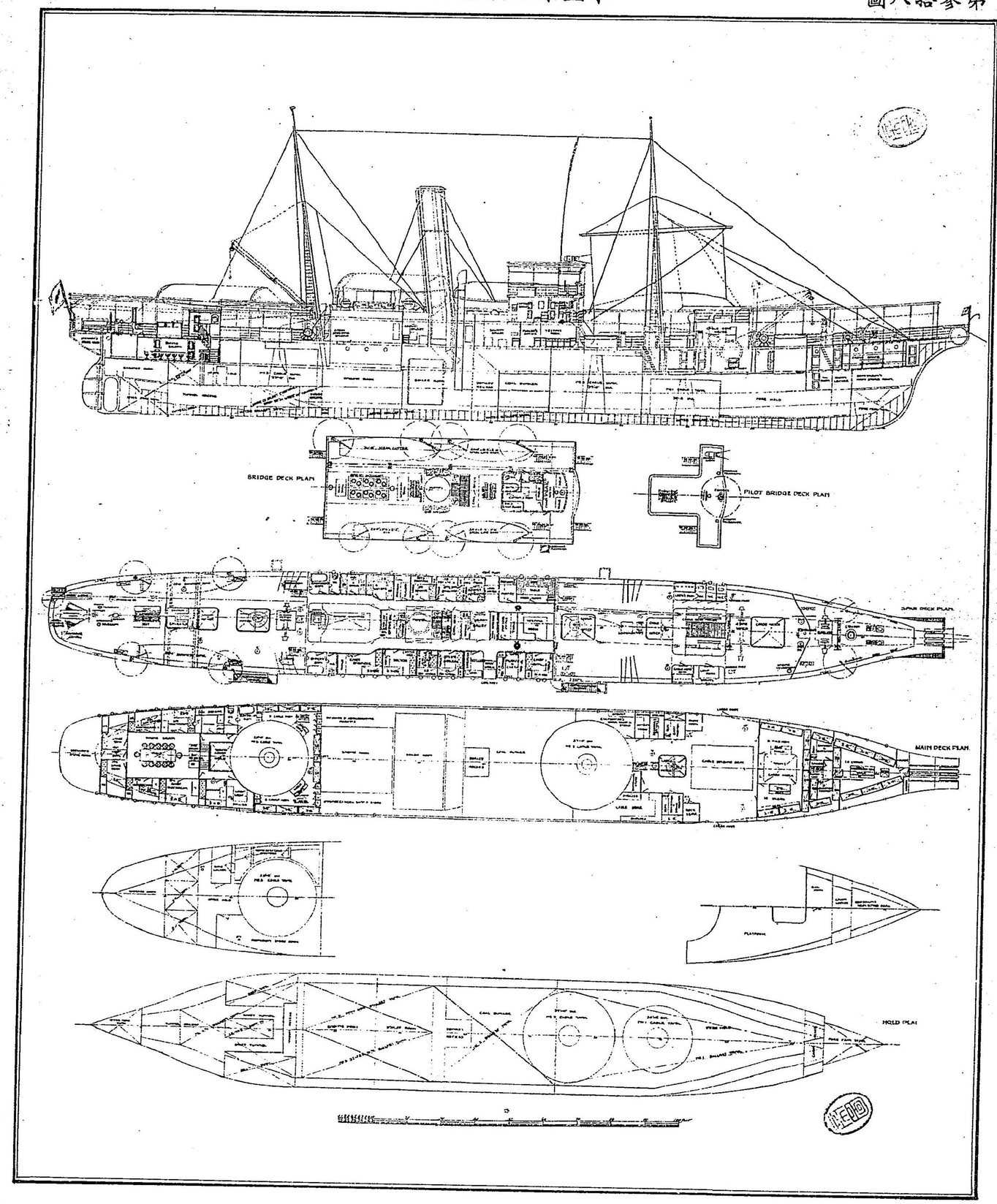
第參拾七圖




CARGO PORT
CARGO PORT
AFTER PEAK TANK
Nº 2 HOLD
TUNNEL RECESS
SHAFT TUNNEL
THRUST RECESS
ENGINE ROOM
BOILER ROOM
F.W.T.
Nº 1 HOLD
CHAIN LOCKER
FORE PEAK TANK
STEERING ENGINE ROOM
CARGO HATCH
2ND CLASS ACCOMMODATION
SOCIAL HALL
FUNNEL
STEERAGE ACCOMMODATION
DOUBLE BUNKS
ENGINE ROOM
BOILER ROOM
FIRST CLASS SALOON
MAIL ROOM
CARGO HATCH
STORE ROOM

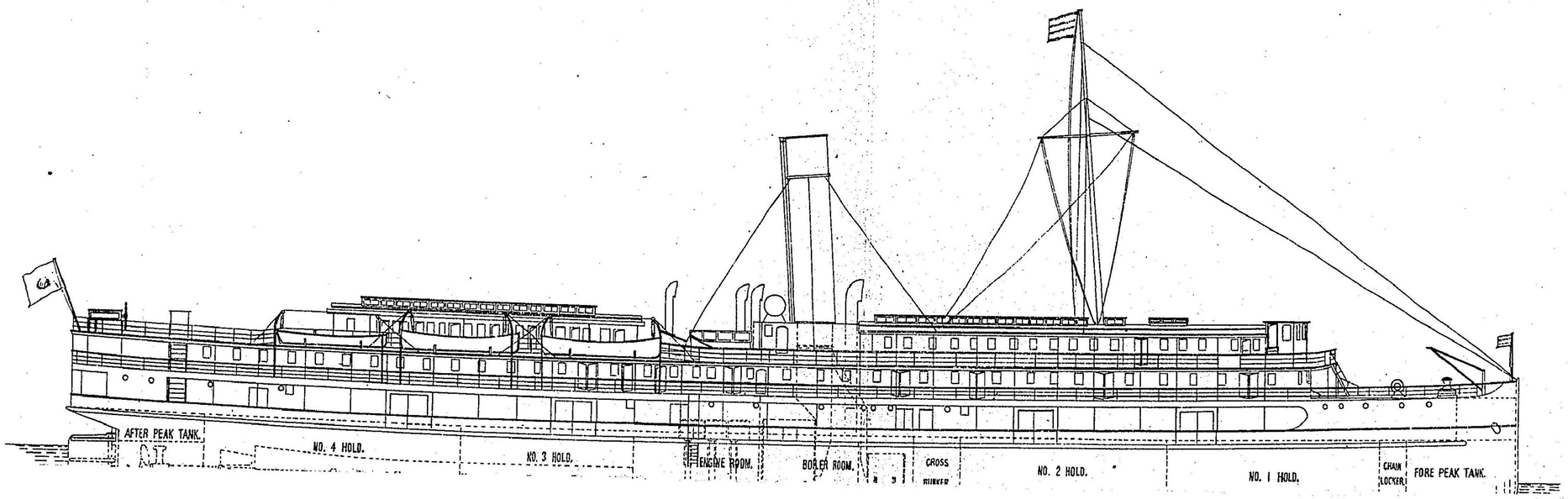
小笠原丸船體圖

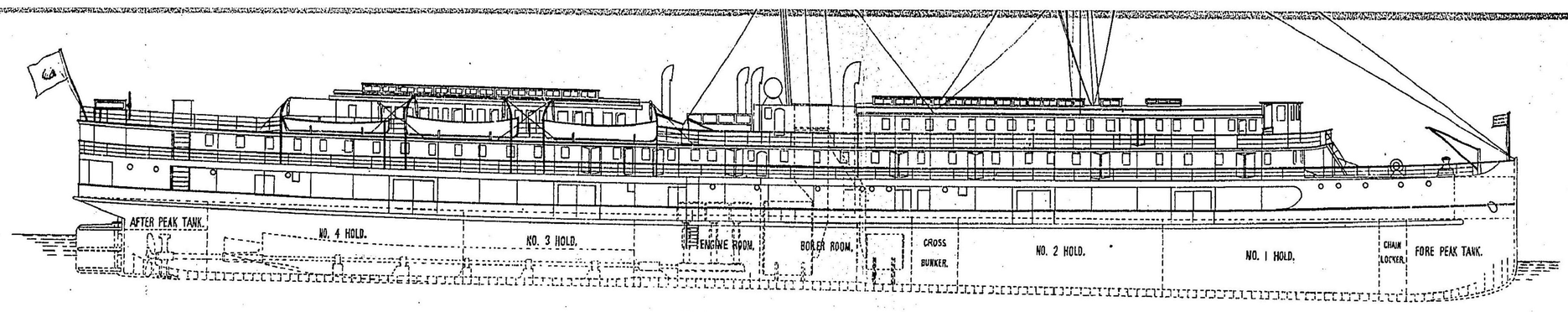
第參拾八圖

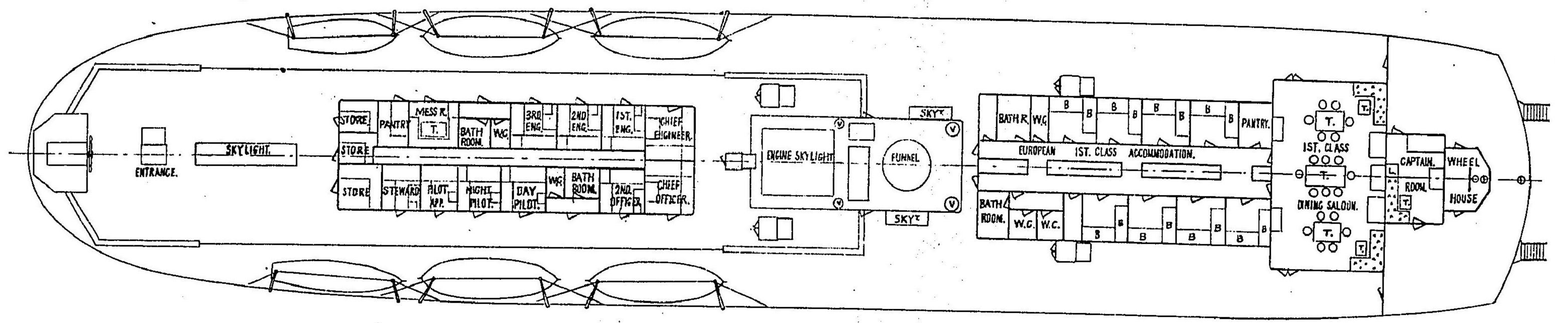


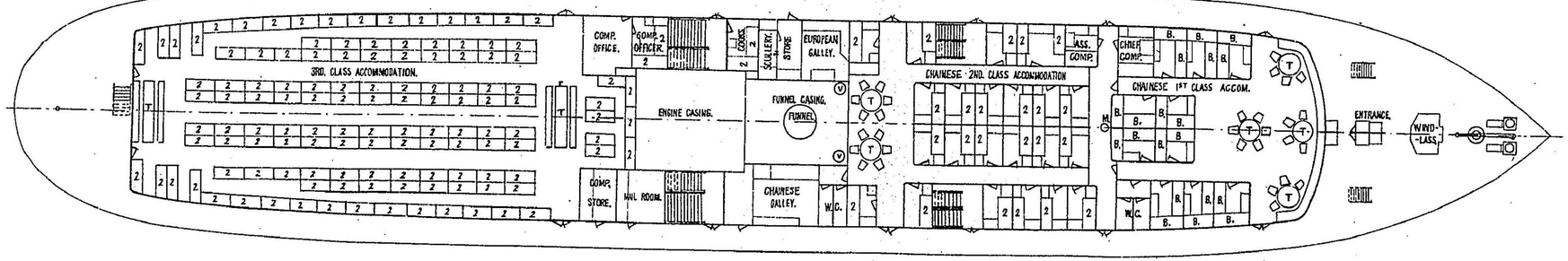
第參拾九圖其一

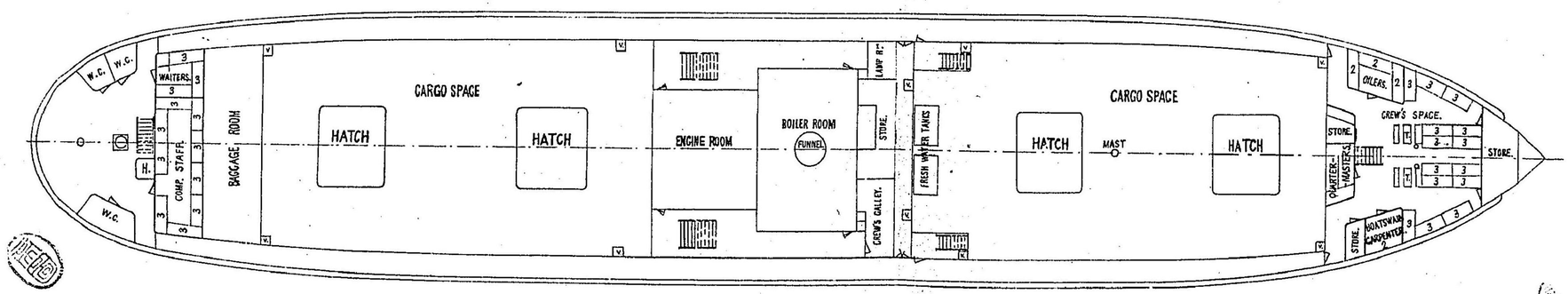
岳陽丸舩體圖

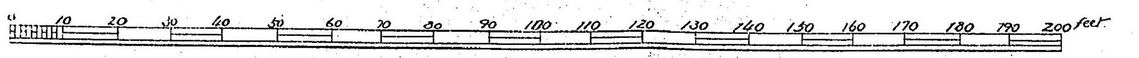



AFTER PEAK TANK.
NO. 4 HOLD.
NO. 3 HOLD.
ENGINE ROOM.
BOILER ROOM.
CROSS BUNKER.
NO. 2 HOLD.
NO. 1 HOLD.
CHAIN LOCKER.
FORE PEAK TANK.


ENTRANCE.
SKYLIGHT.
STORE
STORE
STORE
PANTRY
MESS R.
T.
BATH ROOM.
W.C.
3RD ENG.
2ND ENG.
1ST ENG.
CHIEF ENGINEER.
STEWARD
PILOT, 1ST.
NIGHT PILOT.
DAY PILOT.
W.C.
BATH ROOM.
2ND OFFICER.
CHIEF OFFICER.
ENGINE SKYLIGHT
FUNNEL
SKYT
SKYT
BATH R.
W.C.
EUROPEAN 1ST. CLASS ACCOMMODATION.
PANTRY.
1ST. CLASS DINING SALOON.
CAPTAIN.
WHEEL HOUSE
ROOM.

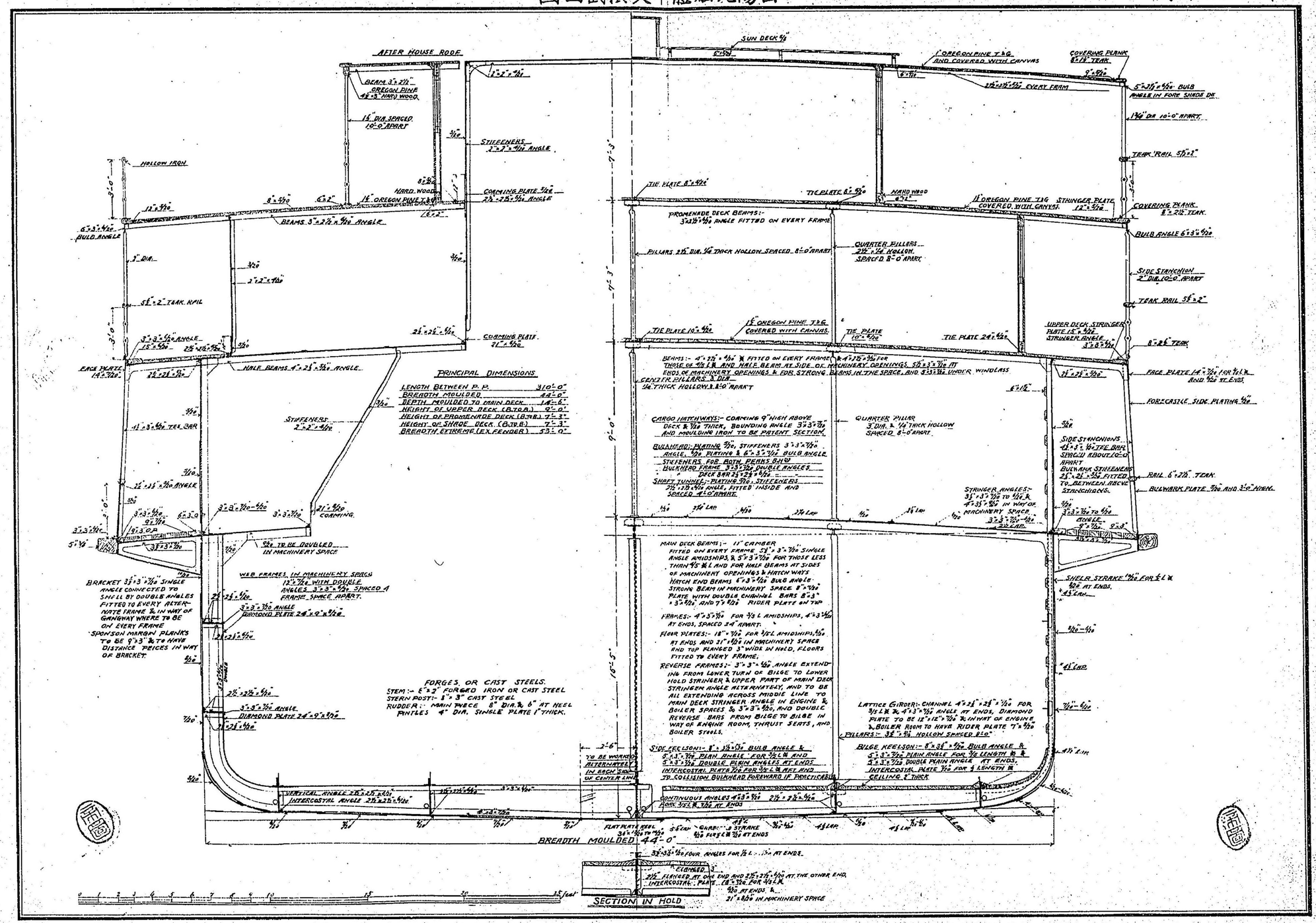

3RD. CLASS ACCOMMODATION.
COMP. OFFICE.
COMP. OFFICER.
COOKS
SCULLERY.
STORE
EUROPEAN GALLEY.
ENGINE CASING.
FUNNEL CASING.
FUNNEL
CHINESE 2ND. CLASS ACCOMMODATION
ASS. COMP.
CHIEF COMP.
CHINESE 1ST CLASS ACCOM.
ENTRANCE.
WIND-LASS.
COMP. STORE.
MAIL ROOM.
CHINESE GALLEY.
W.C.


W.C.
W.C.
W.C.
WAITERS.
COMP. STAFF.
BAGGAGE ROOM
CARGO SPACE
HATCH
HATCH
ENGINE ROOM
BOILER ROOM
FUNNEL
LAMP R.
STORE.
CREW'S GALLEY.
FRESH WATER TANKS
CARGO SPACE
HATCH
MAST
HATCH
OILERS.
CREW'S SPACE.
STORE.
QUARTER-MASTERS.
STORE.
BOATSWAIN CARPENTER.
STORE.


0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200 feet

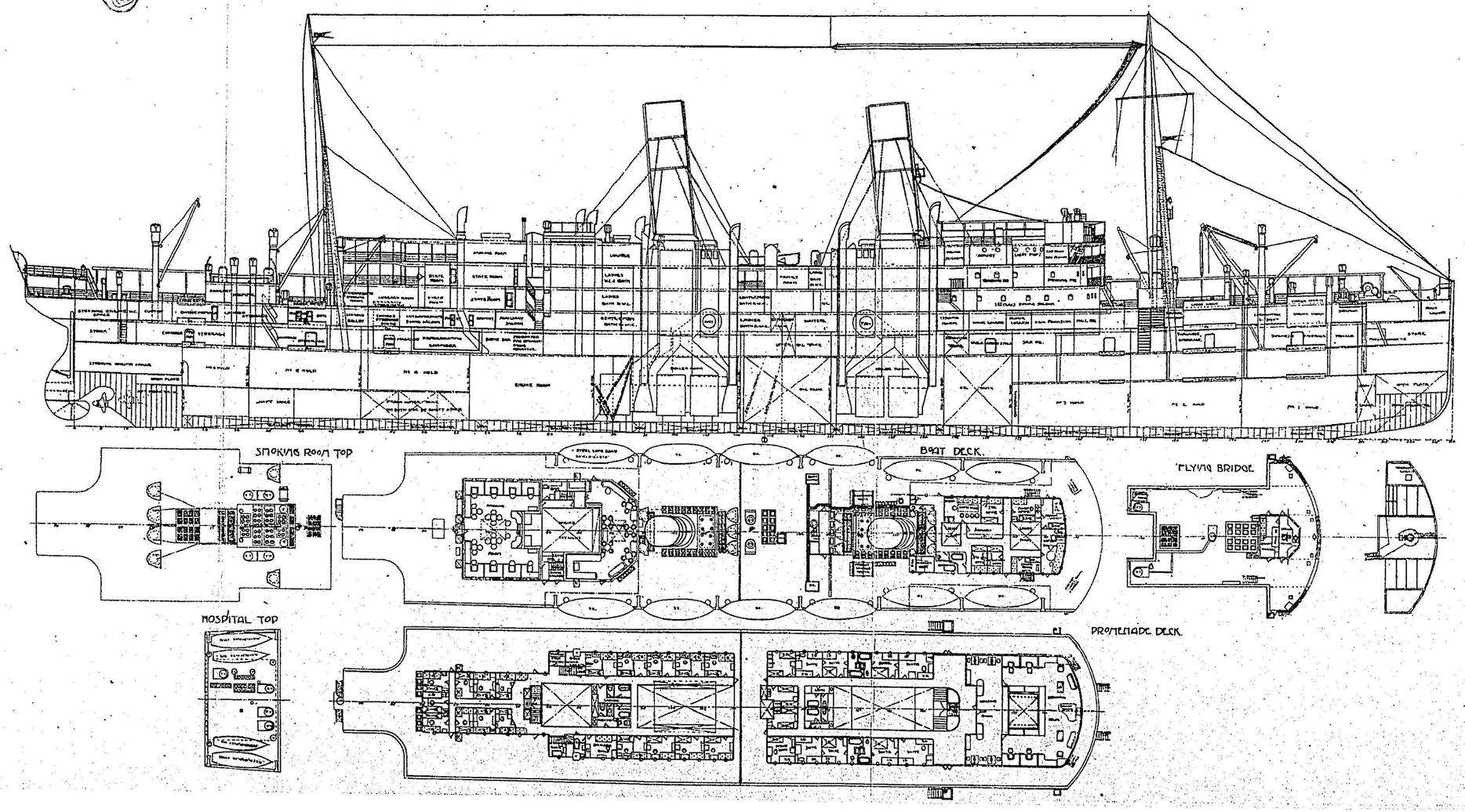
岳陽丸船體中央橫截面圖

第參拾九圖其二

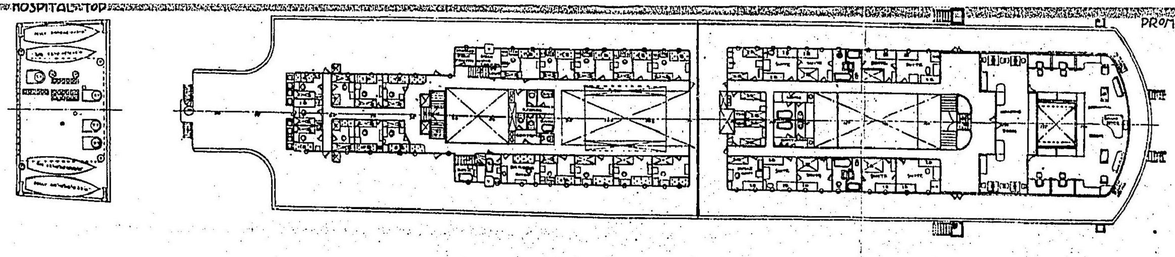


天洋丸舩體圖

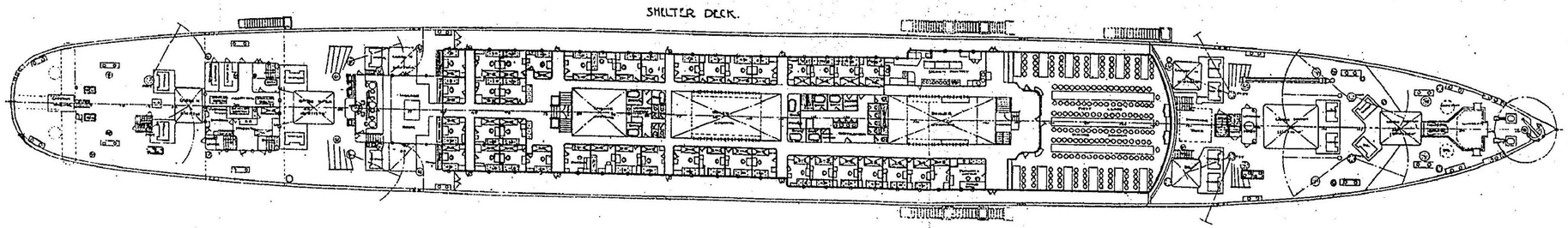
第四拾圖


SMOKING ROOM TOP
BOAT DECK.
FLYING BRIDGE
HOSPITAL TOP
PROMENADE DECK.

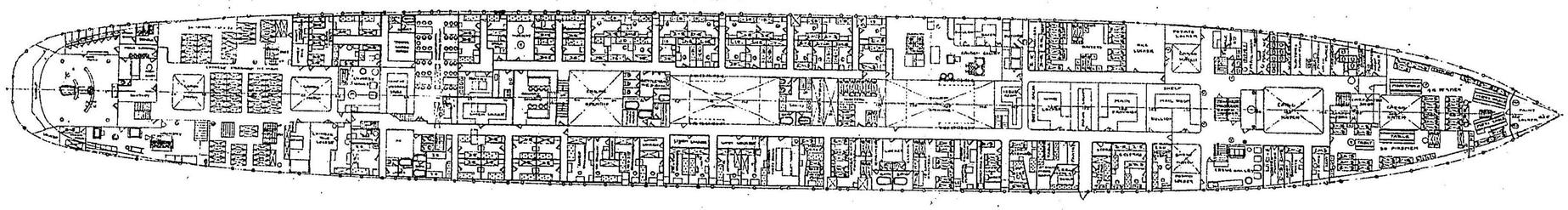
HOSPITAL & TOP



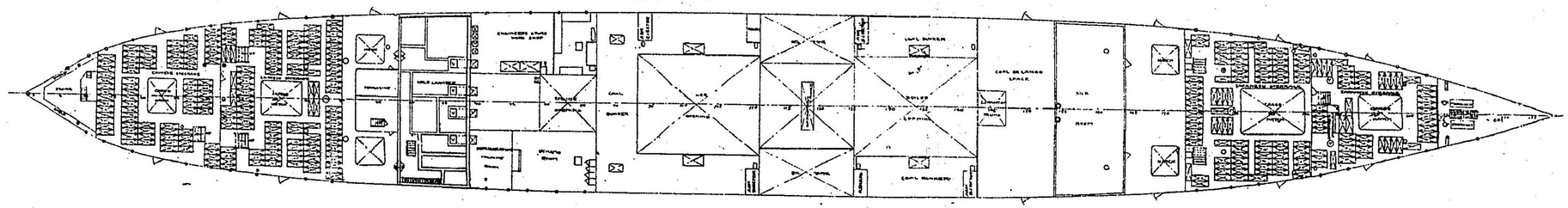
PROMENADE DECK.



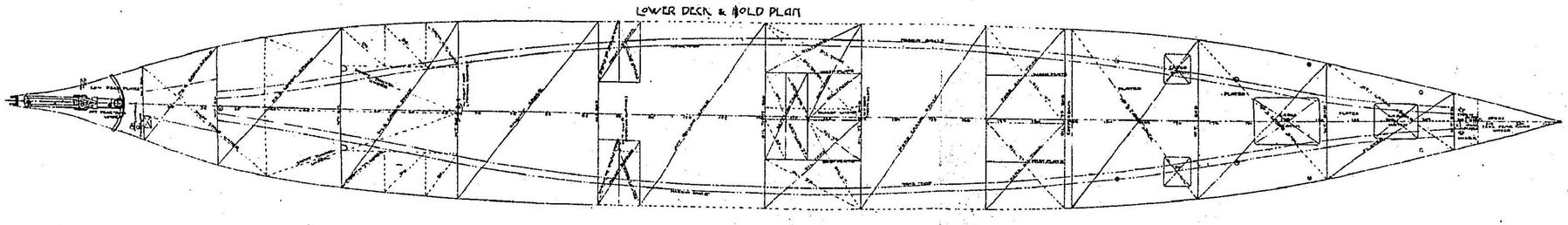
SHELTER DECK.



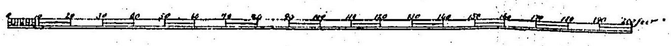
UPPER DECK.



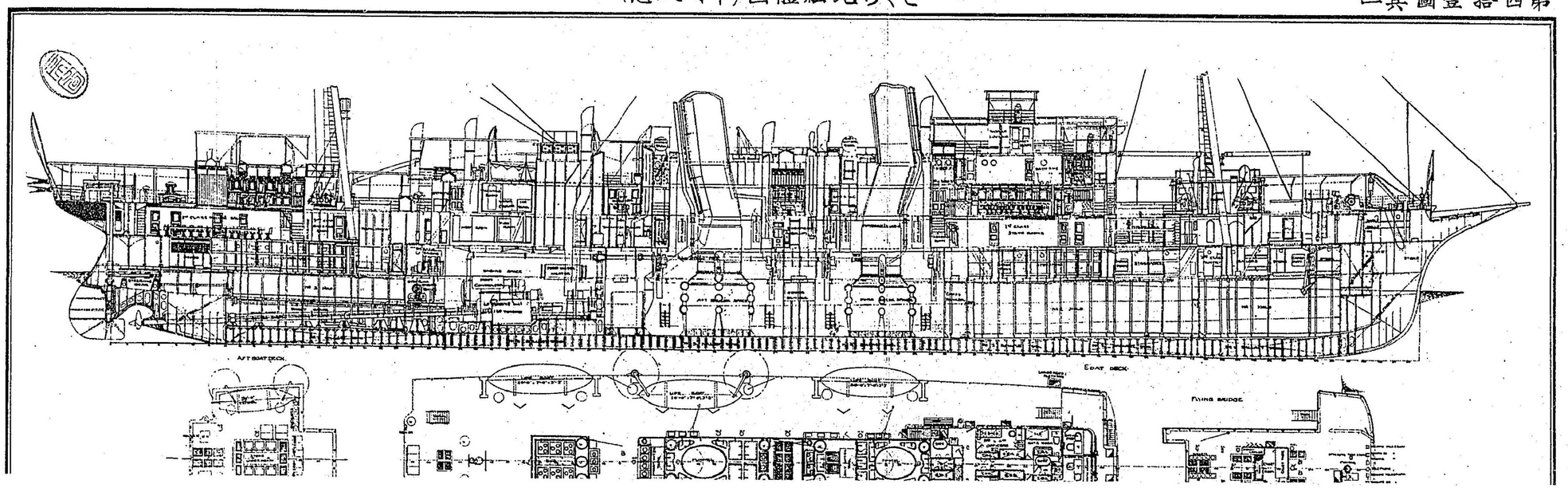
MAIN DECK.

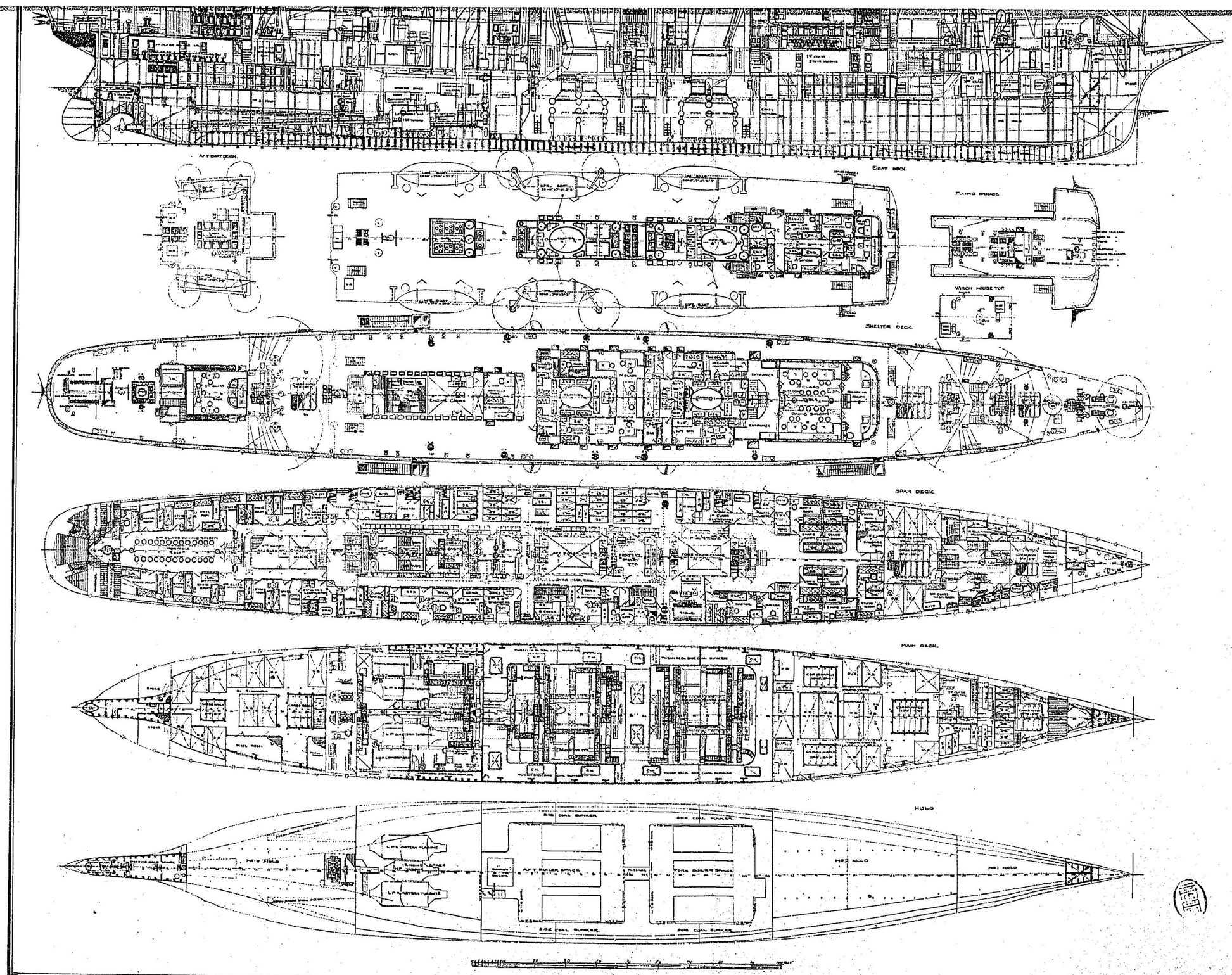


LOWER DECK & HOLD PLAN



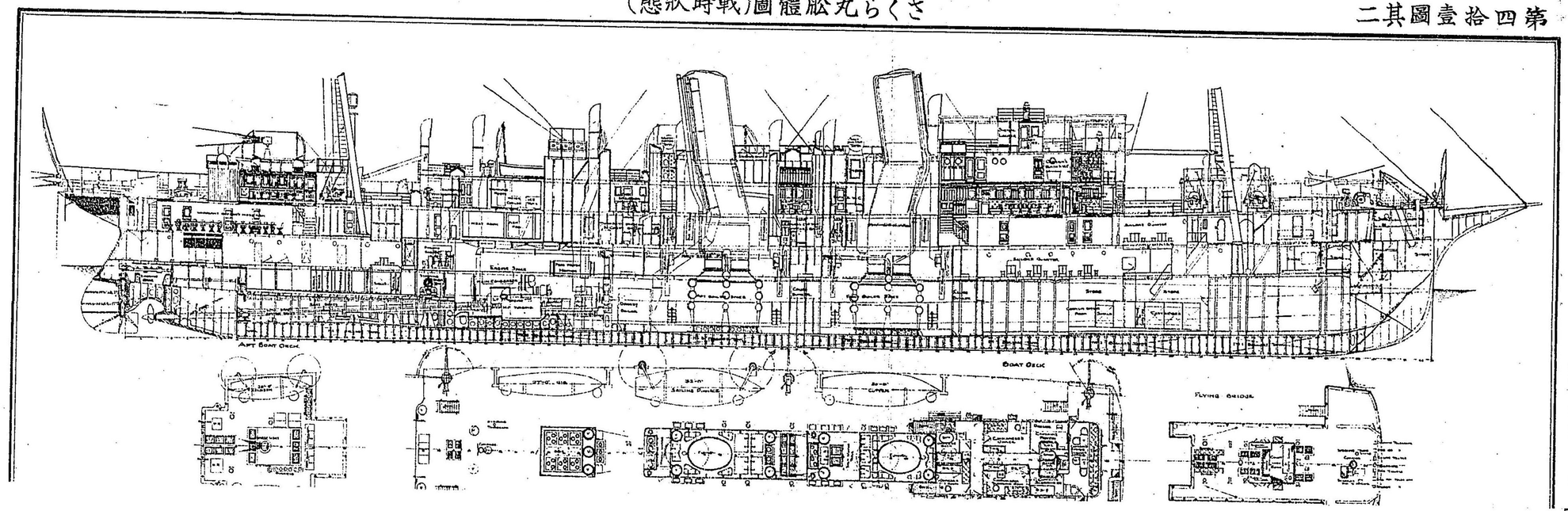
さくら丸船體圖（平時狀態）

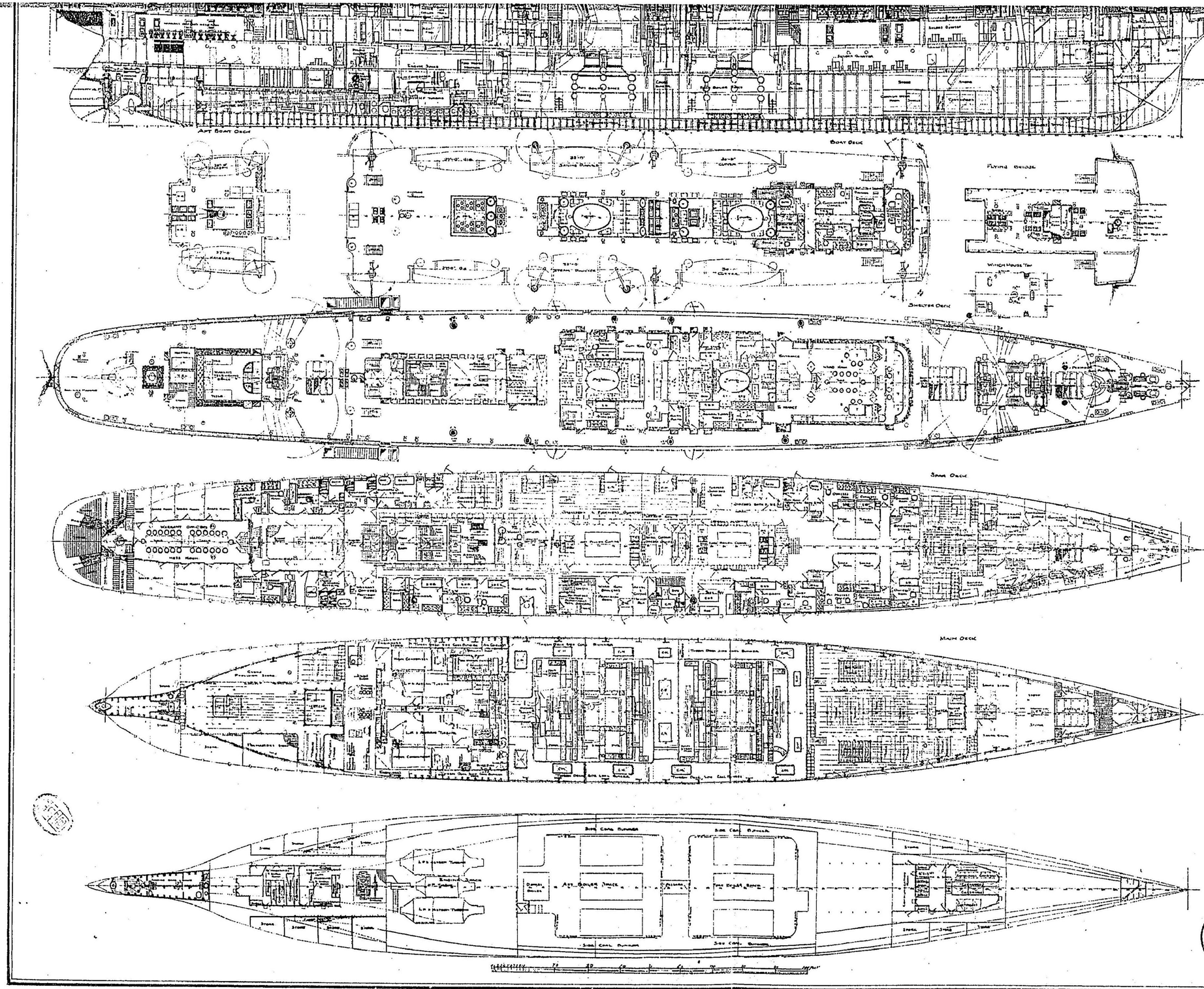



AFT BOAT DECK.
BOAT DECK.
FLYING BRIDGE.
WINCH HOUSE TOP.
SHELTER DECK.
SPAR DECK.
MAIN DECK.
HOLD
AFT BOILER SPACE.
FORE BOILER SPACE.
SIDE COAL BUNKER.
SIDE COAL BUNKER.
SIDE COAL BUNKER.
SIDE COAL BUNKER.
No 2 HOLD
No 1 HOLD

第四拾壹圖其二

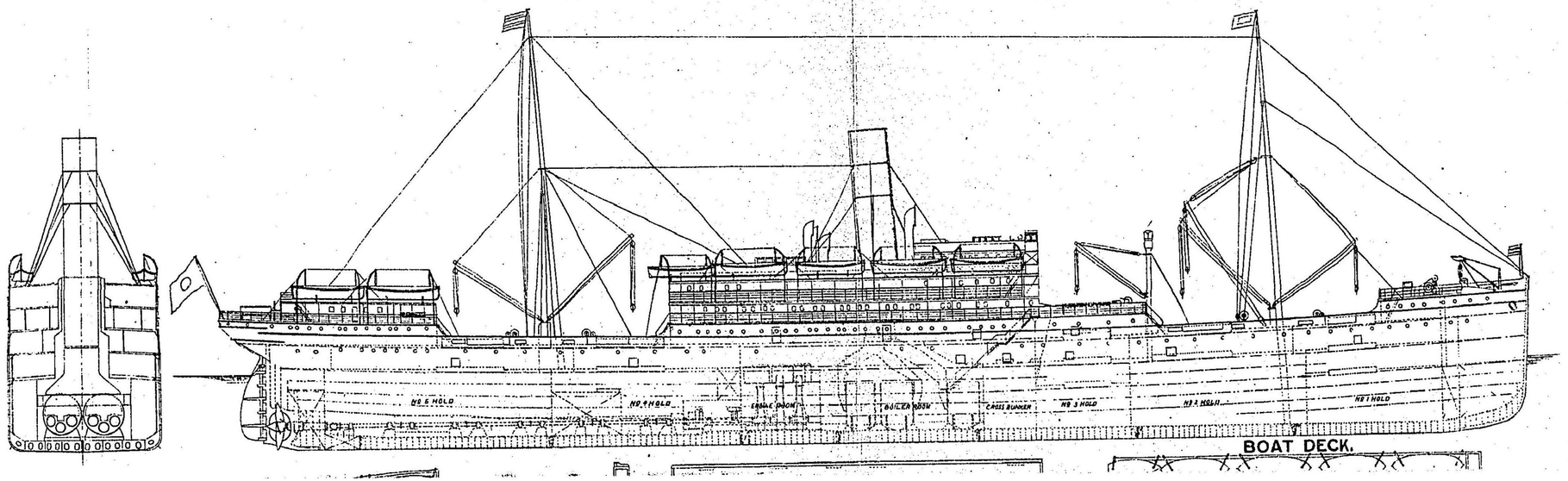
さゝら丸船體圖(戰時狀態)

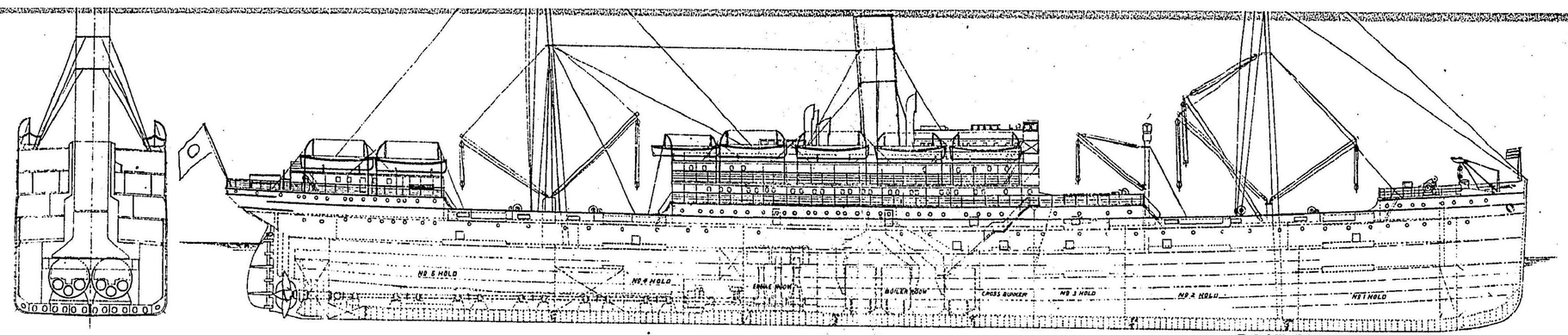


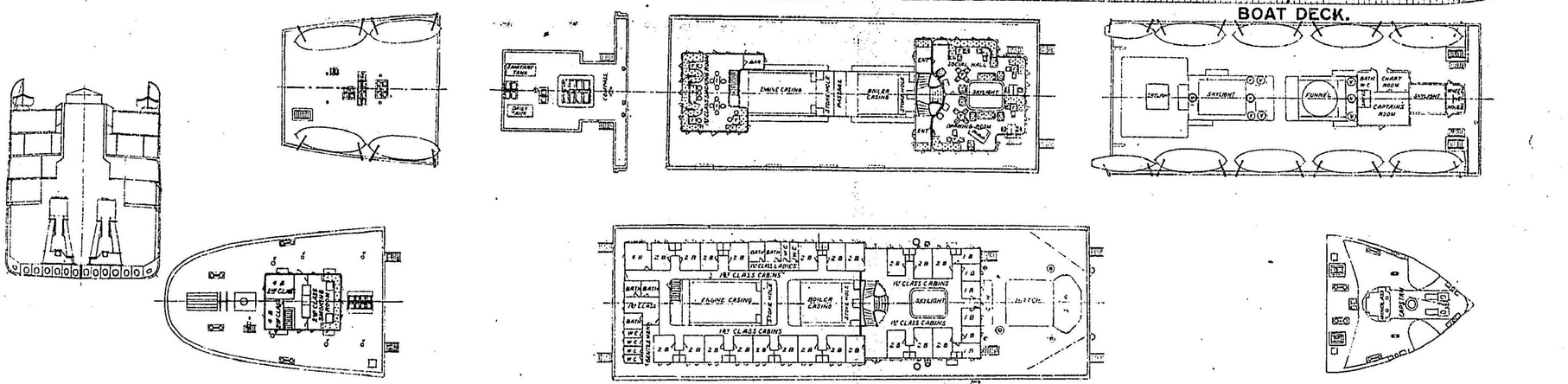

Boat Deck
Flying Bridge
Shelter Deck
Main Deck

第四拾貳圖

賀茂丸船體圖



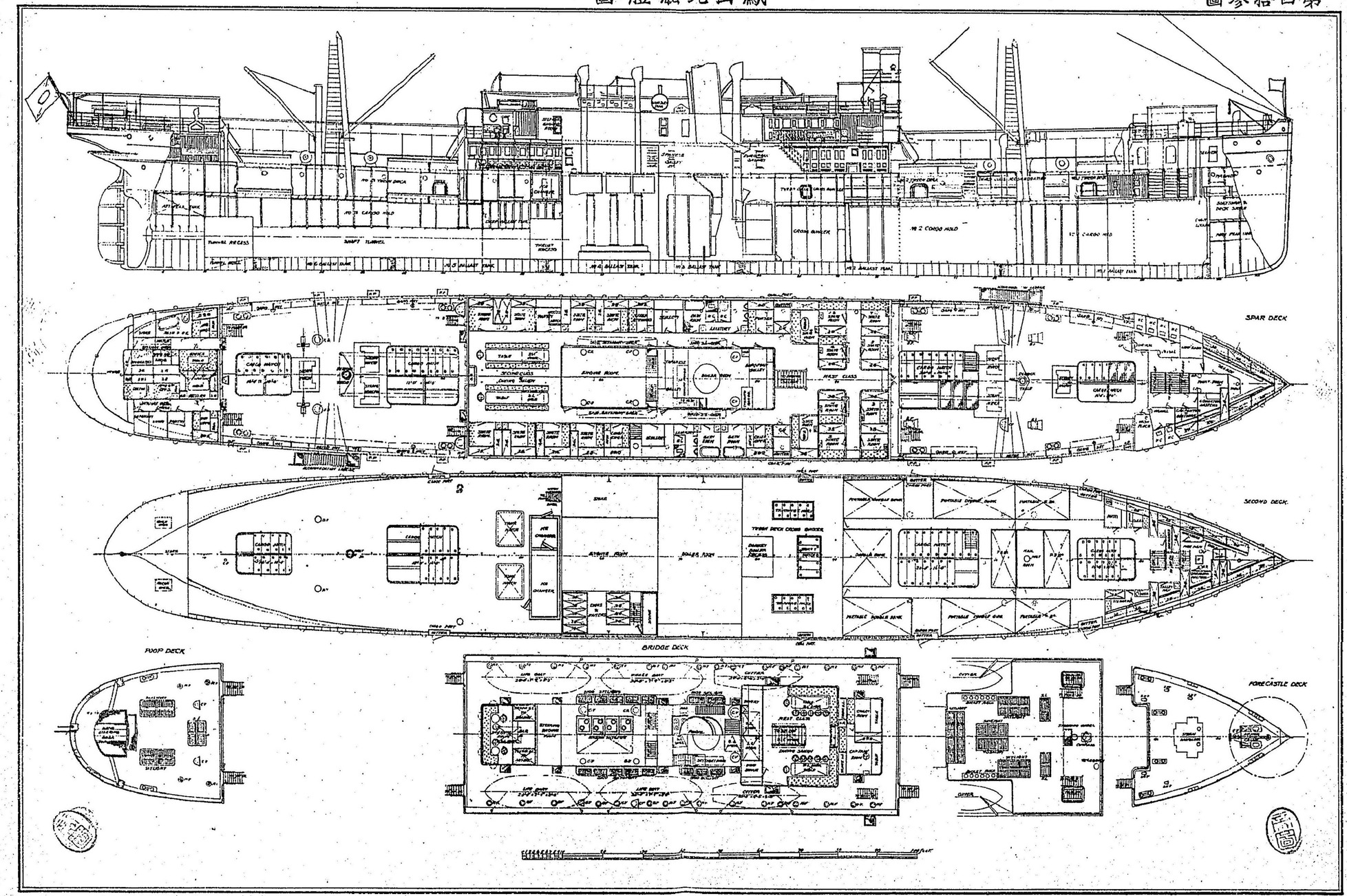




0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 feet

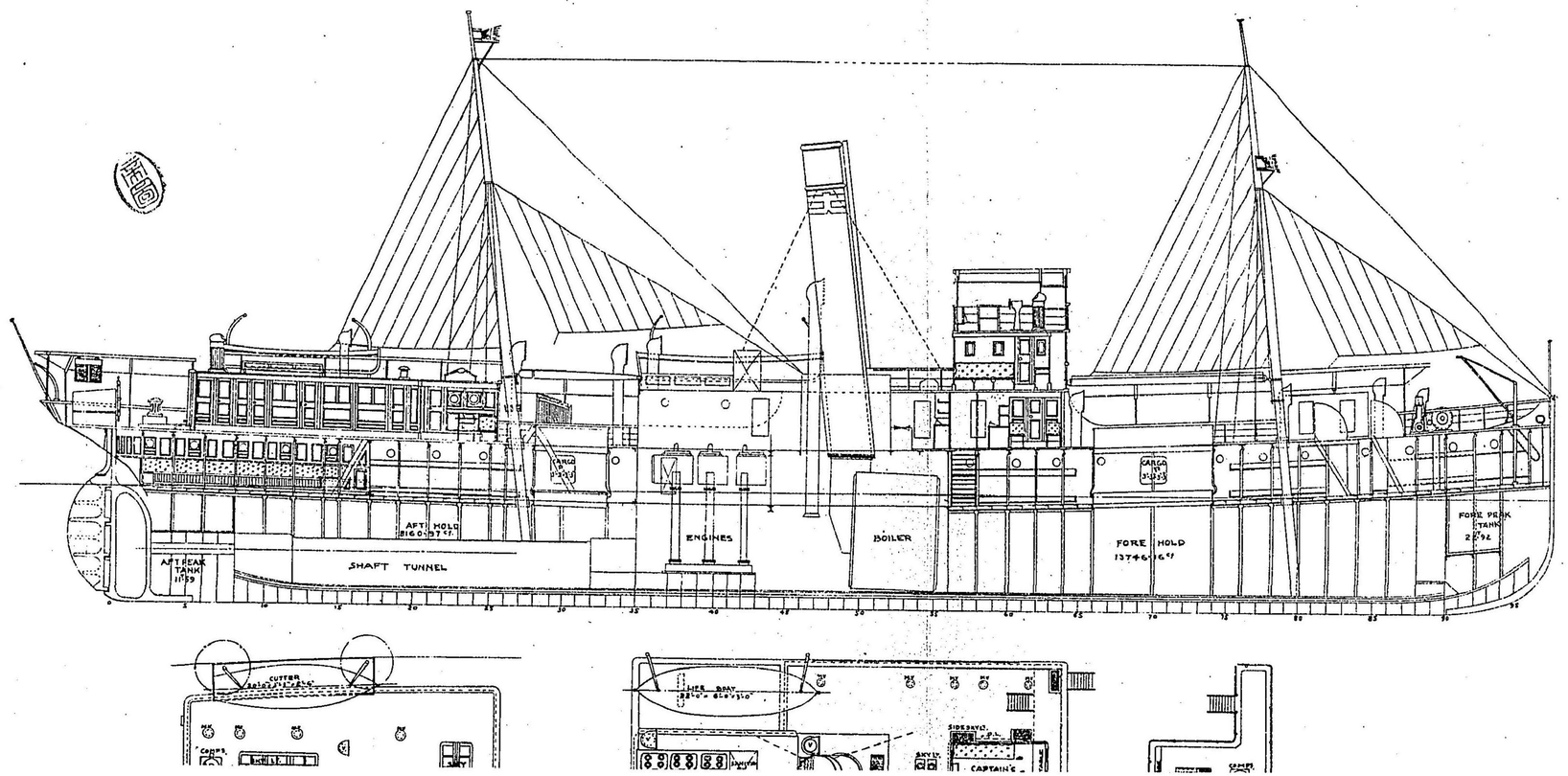
鳳山丸船體圖

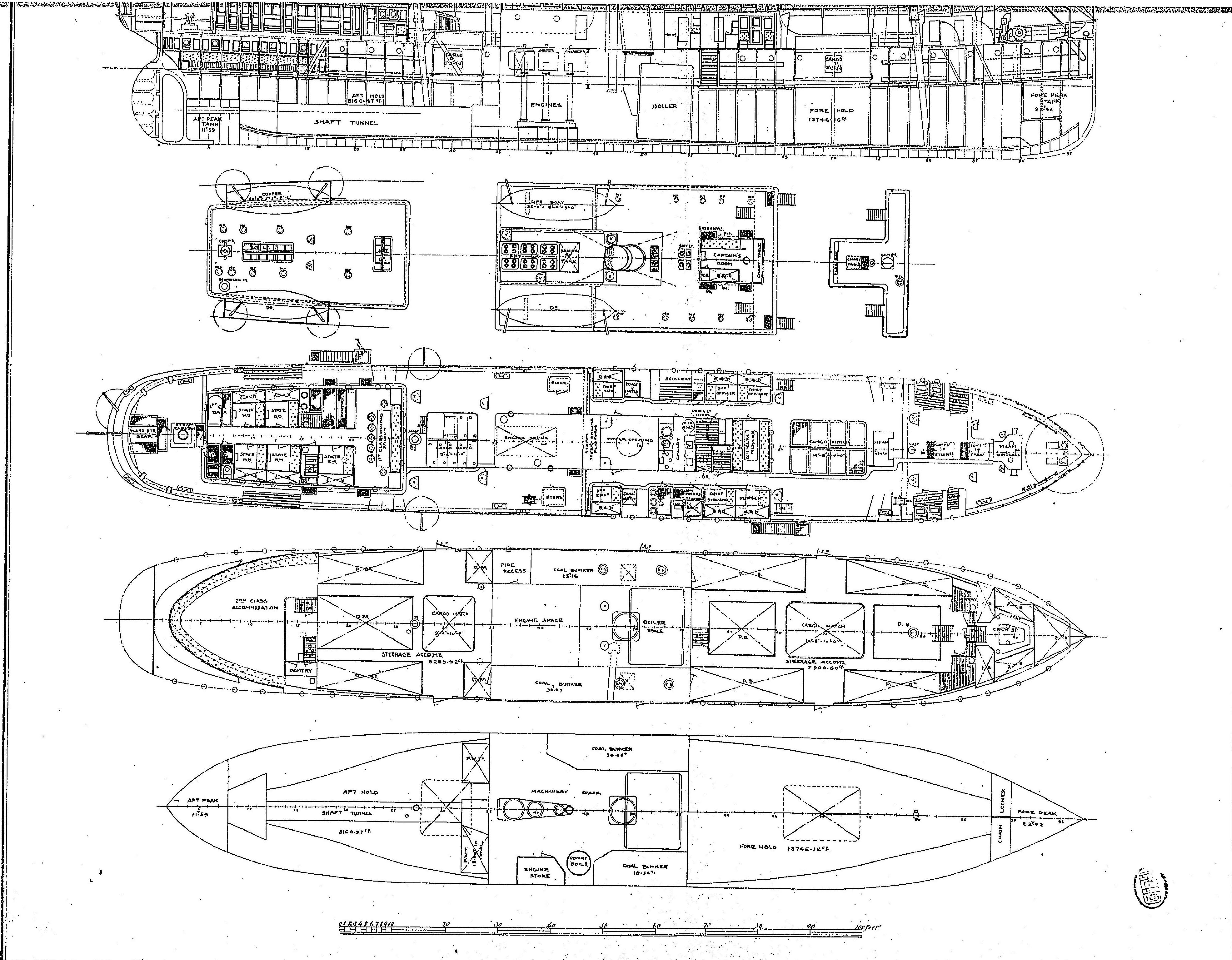
第四拾參圖



第四拾四圖

滋賀丸船體圖

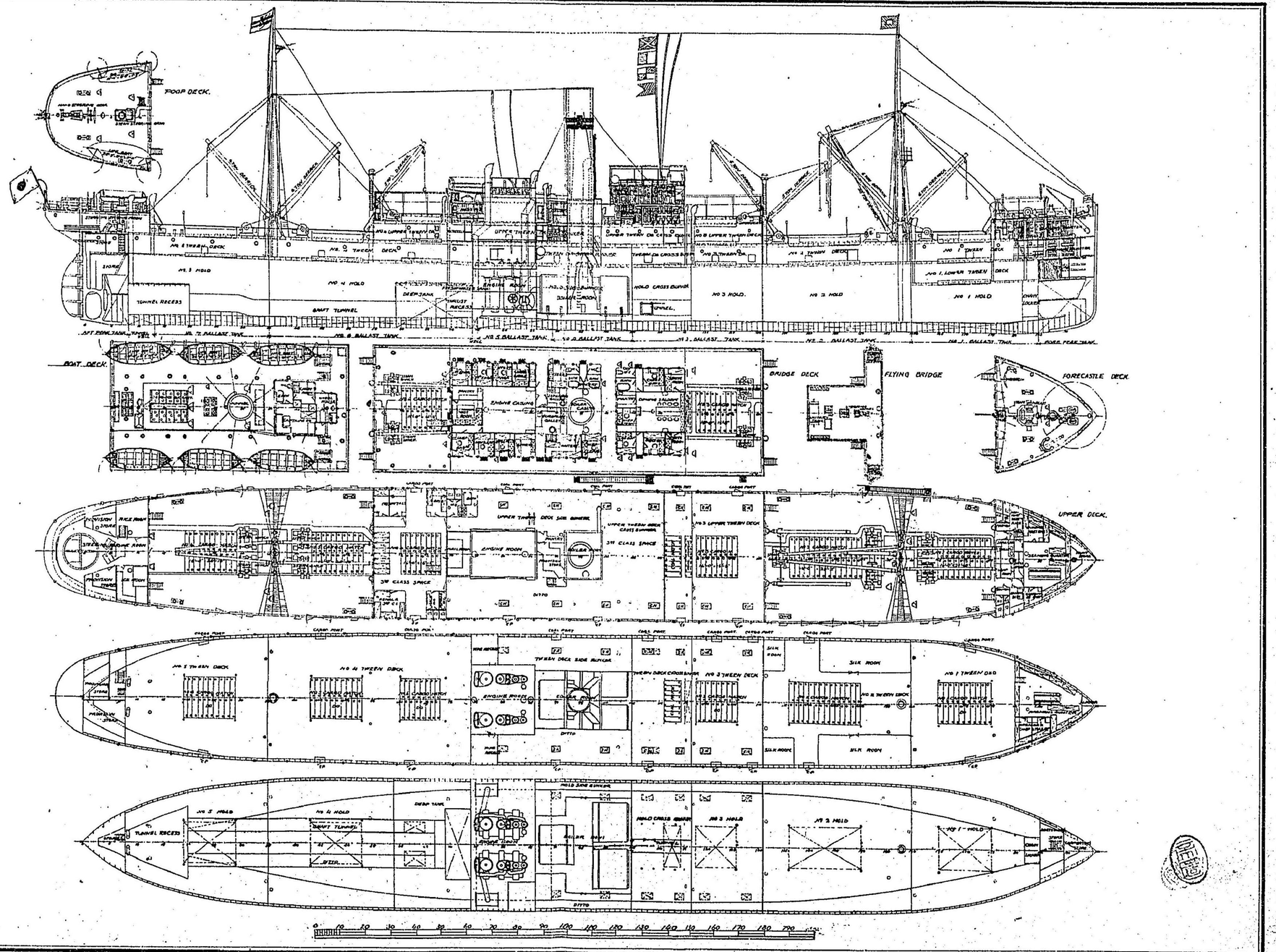




AFT HOLD 8160·37 c.f.
AFT PEAK TANK 11·59
SHAFT TUNNEL
ENGINES
BOILER
FORE HOLD 13746·16 c.f.
FORE PEAK TANK 22·92
CUTTER
LIFE BOAT
CAPTAIN'S ROOM
CHART TABLE
HAND STR. GEAR
STATE RM.
1ST CLASS DINING SALOON
ENGINE TRUNK
BOILER OPENING
GALLEY
SCULLERY
CARGO HATCH
STORE
STEAM WINDLASS
2ND CLASS ACCOMMODATION
PANTRY
STEERAGE ACCOMM. 5283·92 c.f.
CARGO HATCH
ENGINE SPACE
PIPE RECESS
COAL BUNKER 25·16
COAL BUNKER 30·97
BOILER SPACE
STEERAGE ACCOMM. 7906·60 c.f.
CREW SP.
AFT PEAK 11·59
AFT HOLD
SHAFT TUNNEL 8160·37 c.f.
MACHINERY SPACE
COAL BUNKER 30·66 T
ENGINE STORE
DONKEY BOILER
COAL BUNKER 18·56 T
FORE HOLD 13746·16 c.f.
CHAIN LOCKER
FORE PEAK 22·92
0 1 2 3 4 5 6 7 8 9 10 20 30 40 50 60 70 80 90 100 feet.

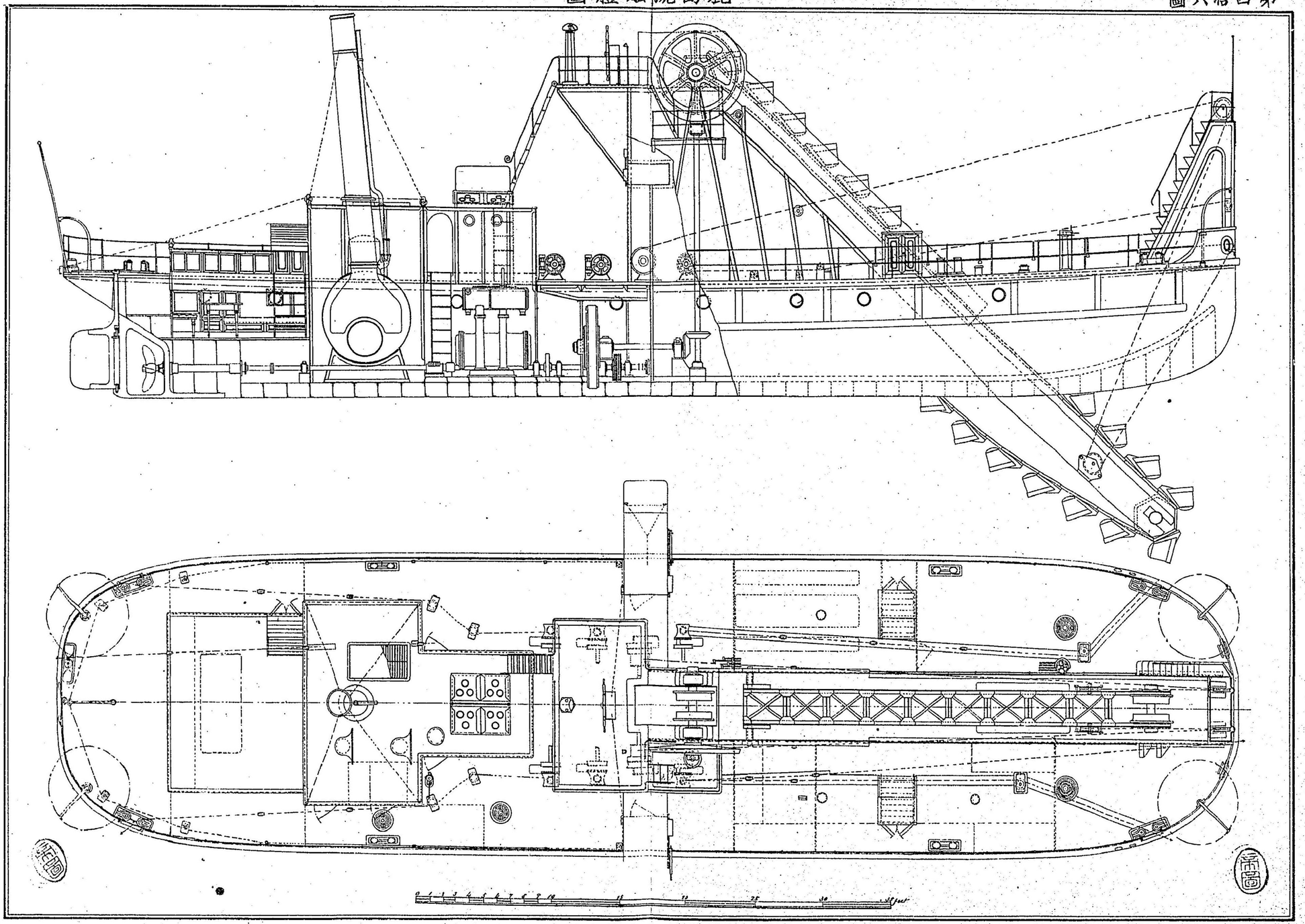
たこまる船體圖

第四拾五圖



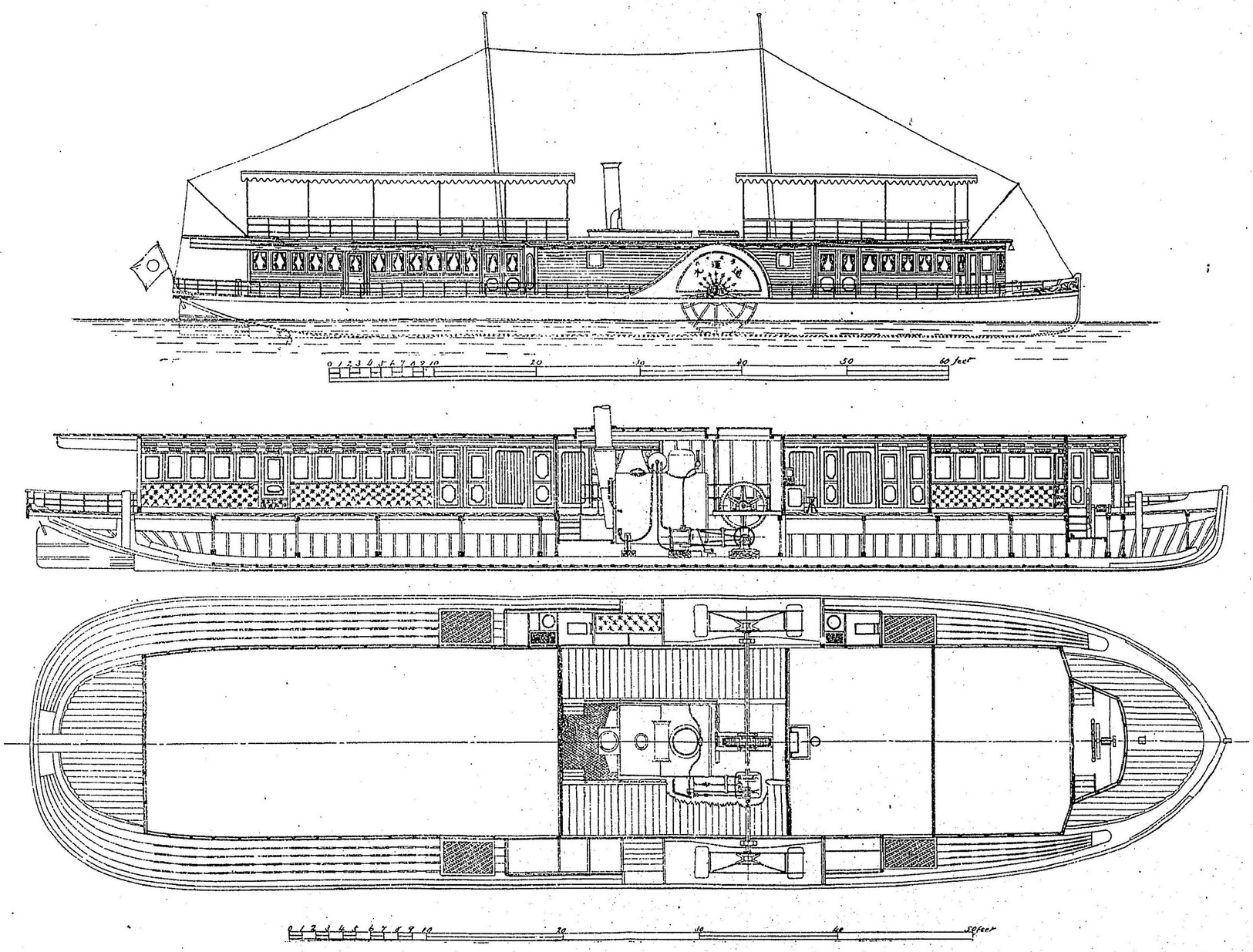
第四拾六圖

鹿島號舩體圖



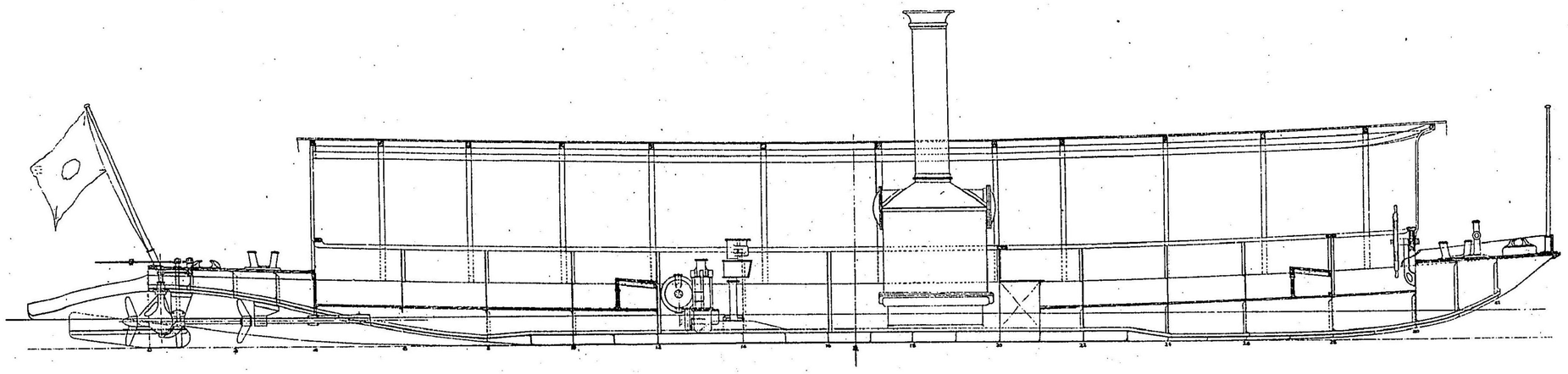
第貳拾六通運丸滿體圖

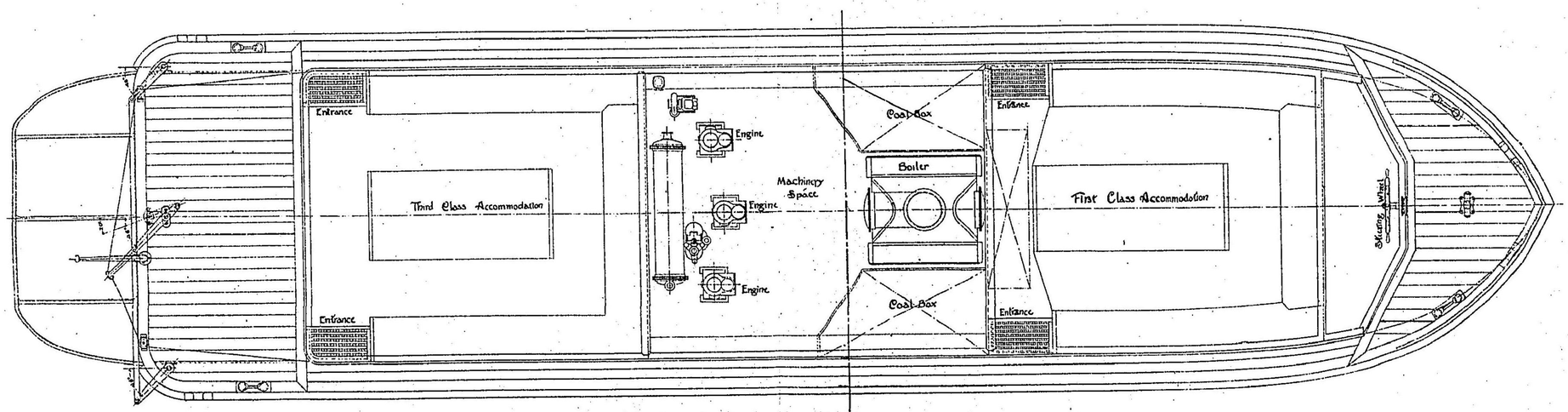
第四拾七圖



さつき丸船體圖

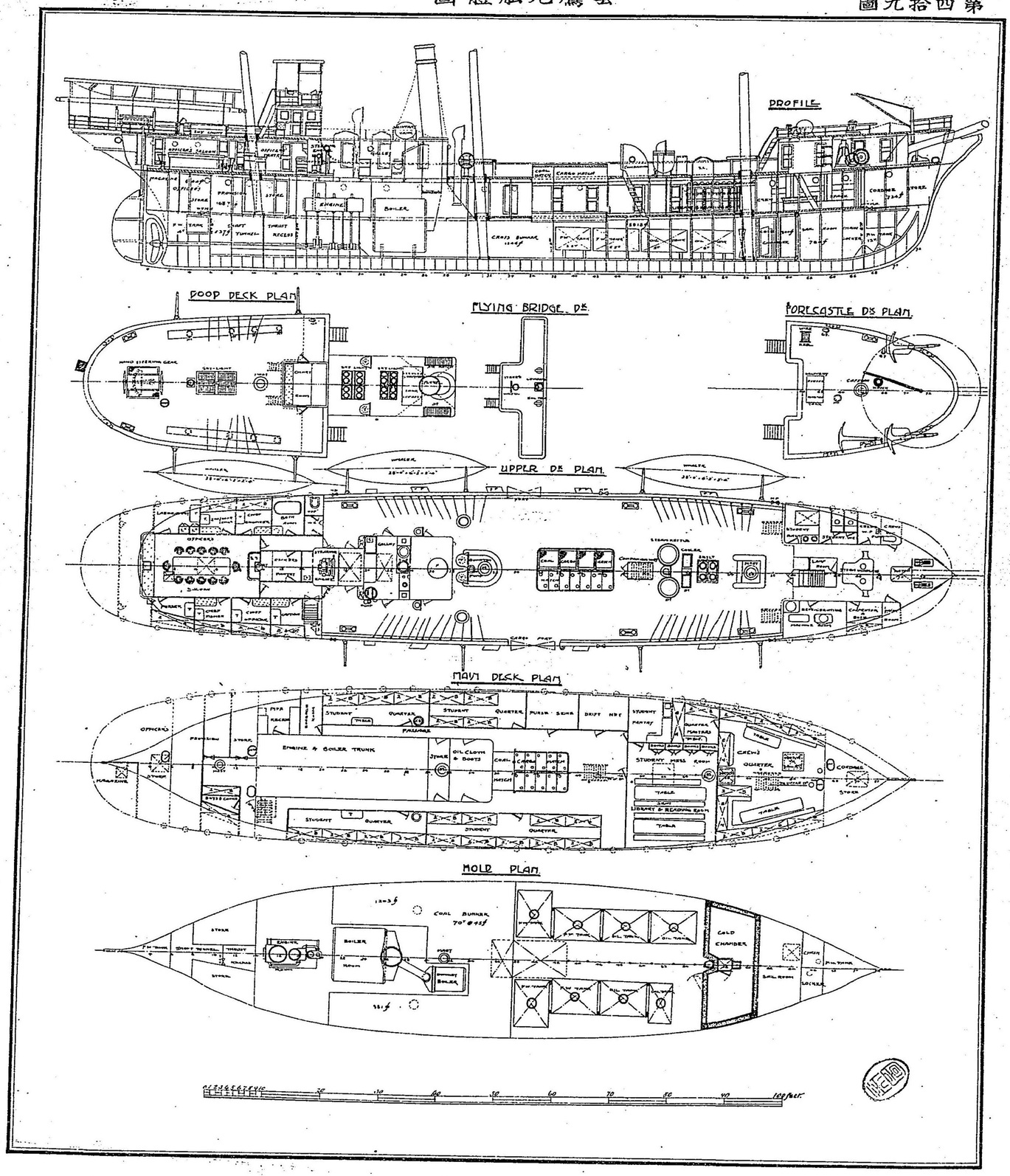
第四拾八圖





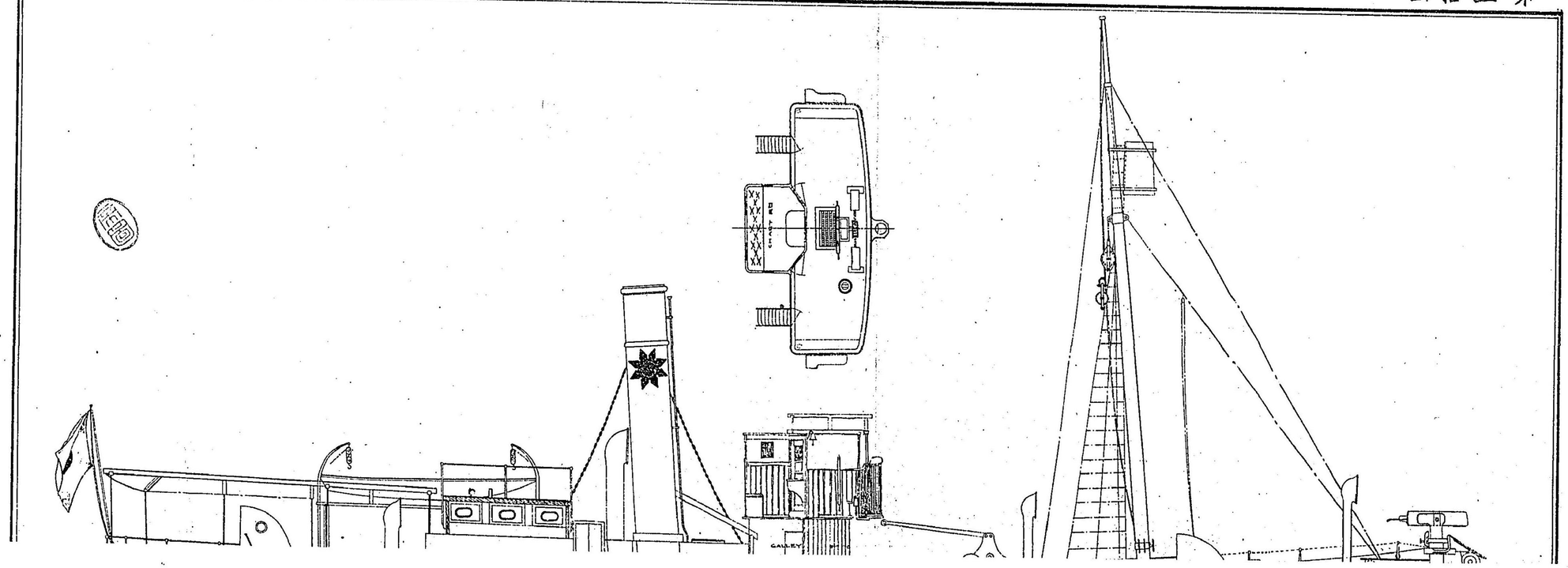
雲鷹丸船體圖

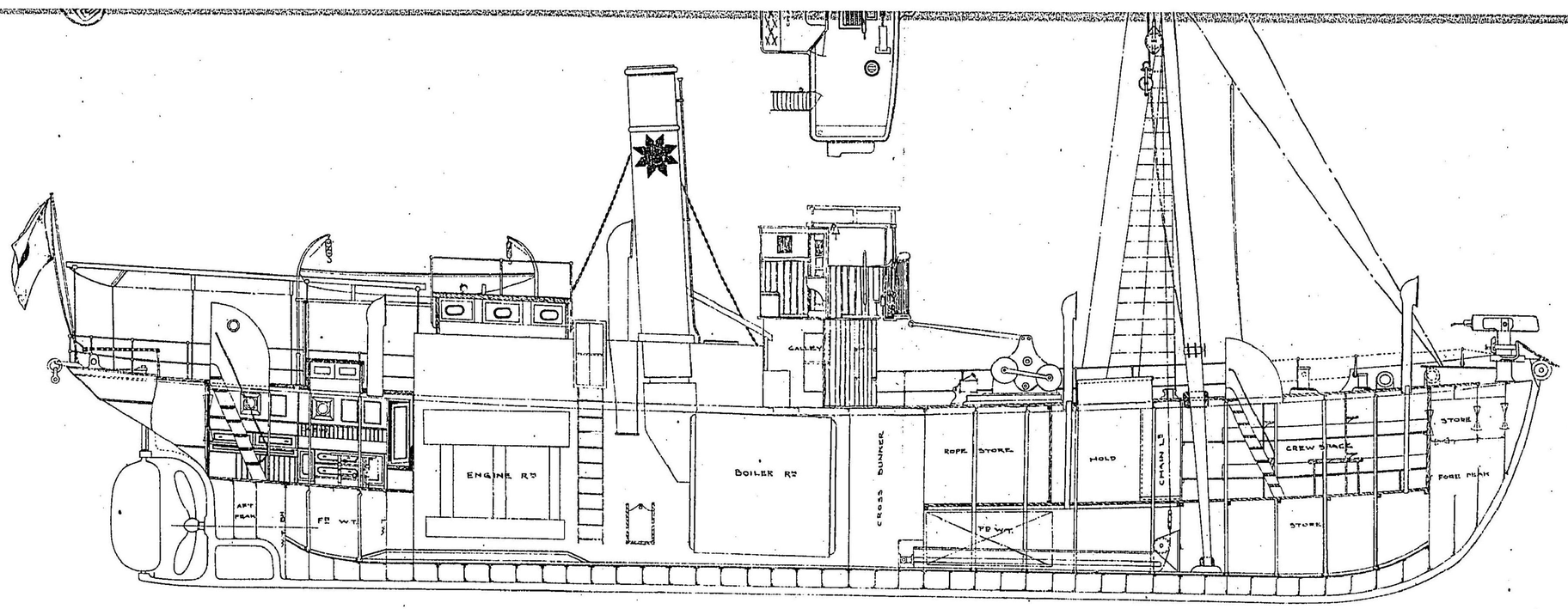
第四拾九圖

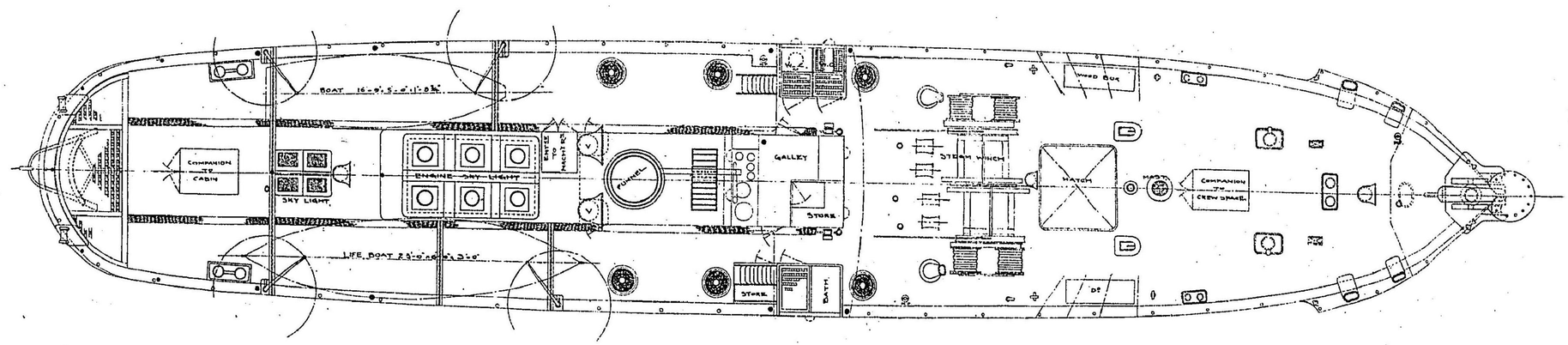


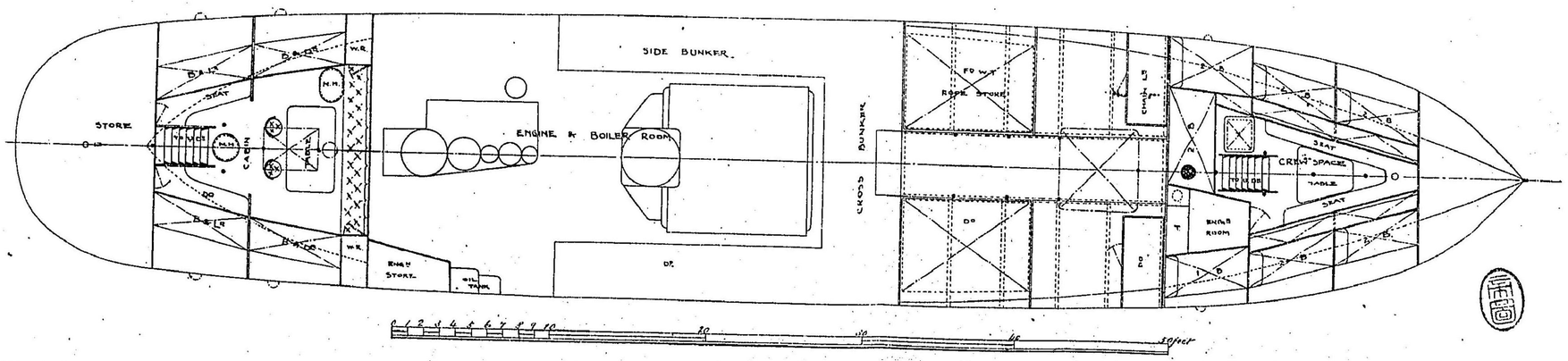
第五拾圖

六甲丸舩體圖



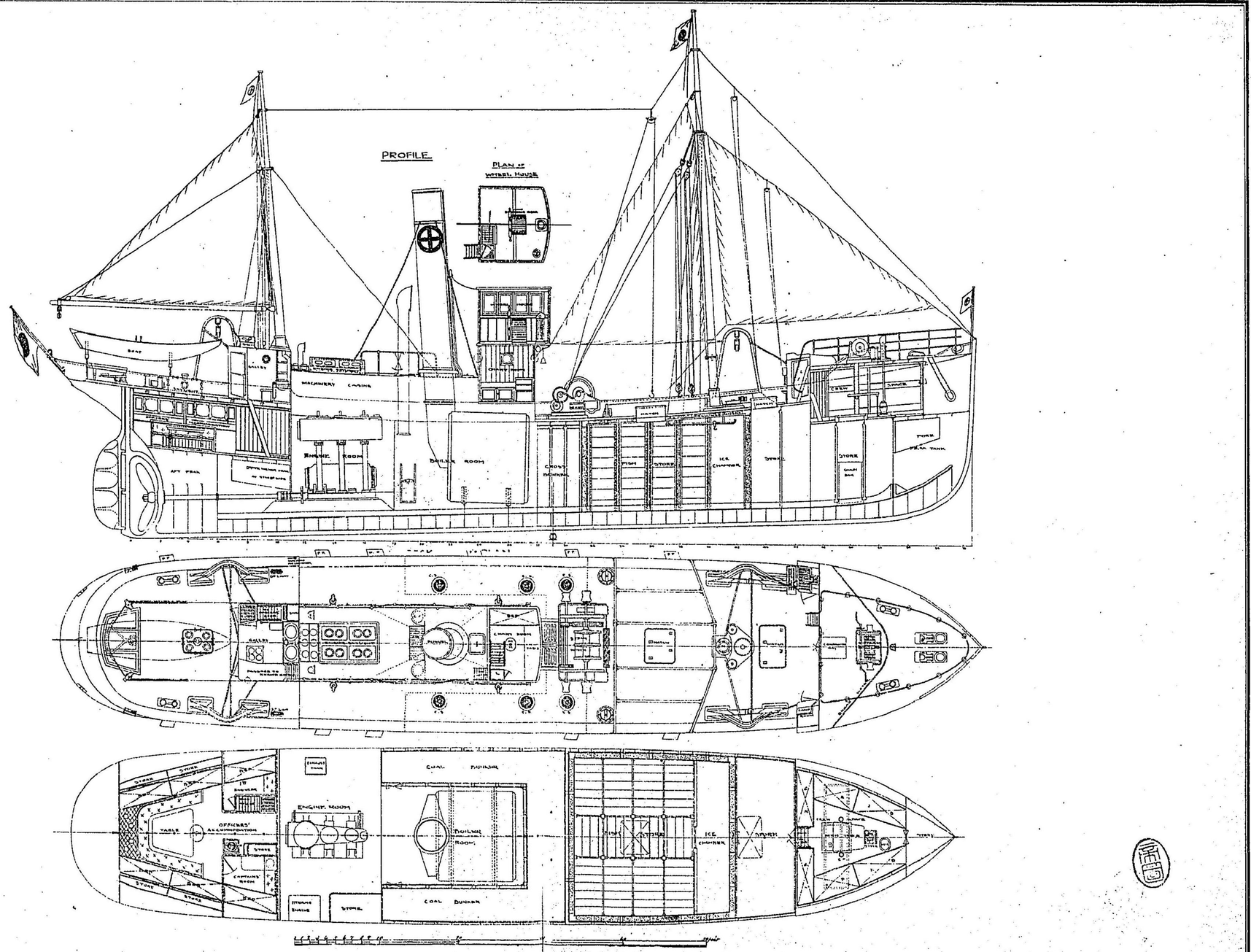

ENGINE RM
BOILER RM
CROSS BUNKER
ROPE STORE
HOLD
CHAIN LB
CREW SPACE
STORE
FORE PEAK
AFT PEAK
FP WT
AFT WT
FD WT
GALLEY


BOAT 16-0"x5-0"x1-0"
COMPANION TO CABIN
SKY LIGHT
ENGINE SKY LIGHT
ENTRE TO ENGINE ROOM
FUNNEL
GALLEY
STORE
STEAM WINCH
HATCH
COMPANION TO CREW SPACE
LIFE BOAT 25-0"x6-0"x2-0"
BATH
DT


STORE
CABIN
TABLE
SIDE BUNKER
ENGINE & BOILER ROOM
CROSS BUNKER
FD WT
ROPE STORE
CREW SPACE
SEAT
ENGS ROOM
DT
0 1 2 3 4 5 6 7 8 9 10
20
30
40
50 reflect

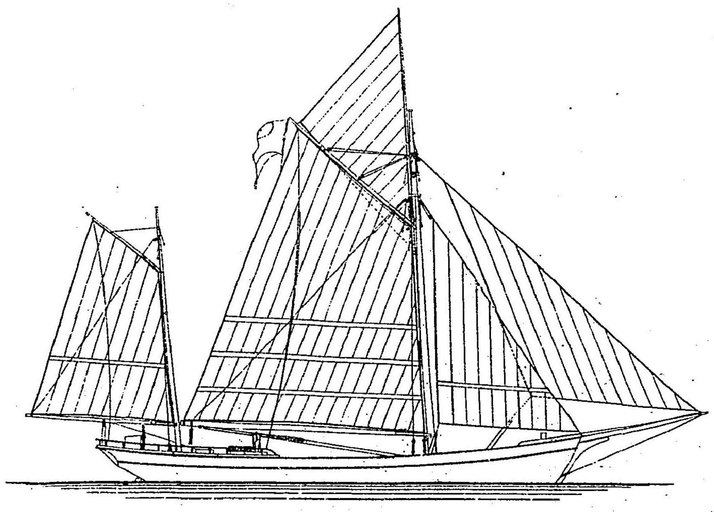
第壹九舩體圖

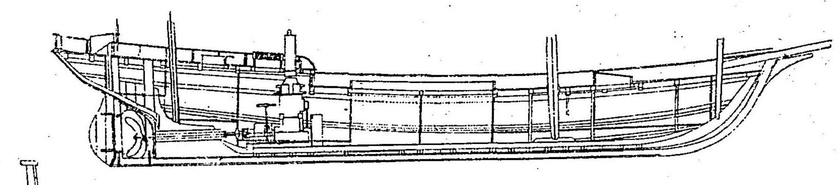
第五拾壹圖

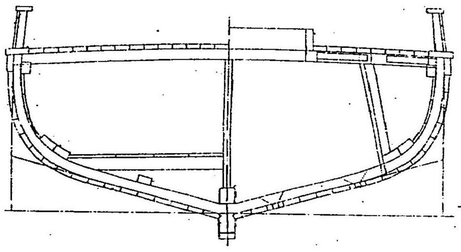


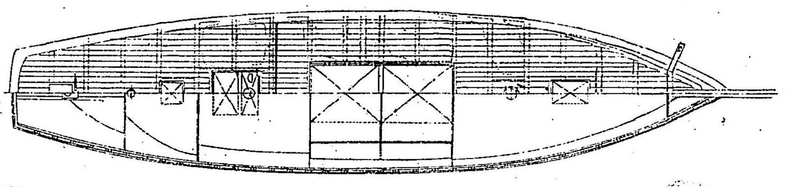
第五拾貳圖

第壹駒形丸舩體圖



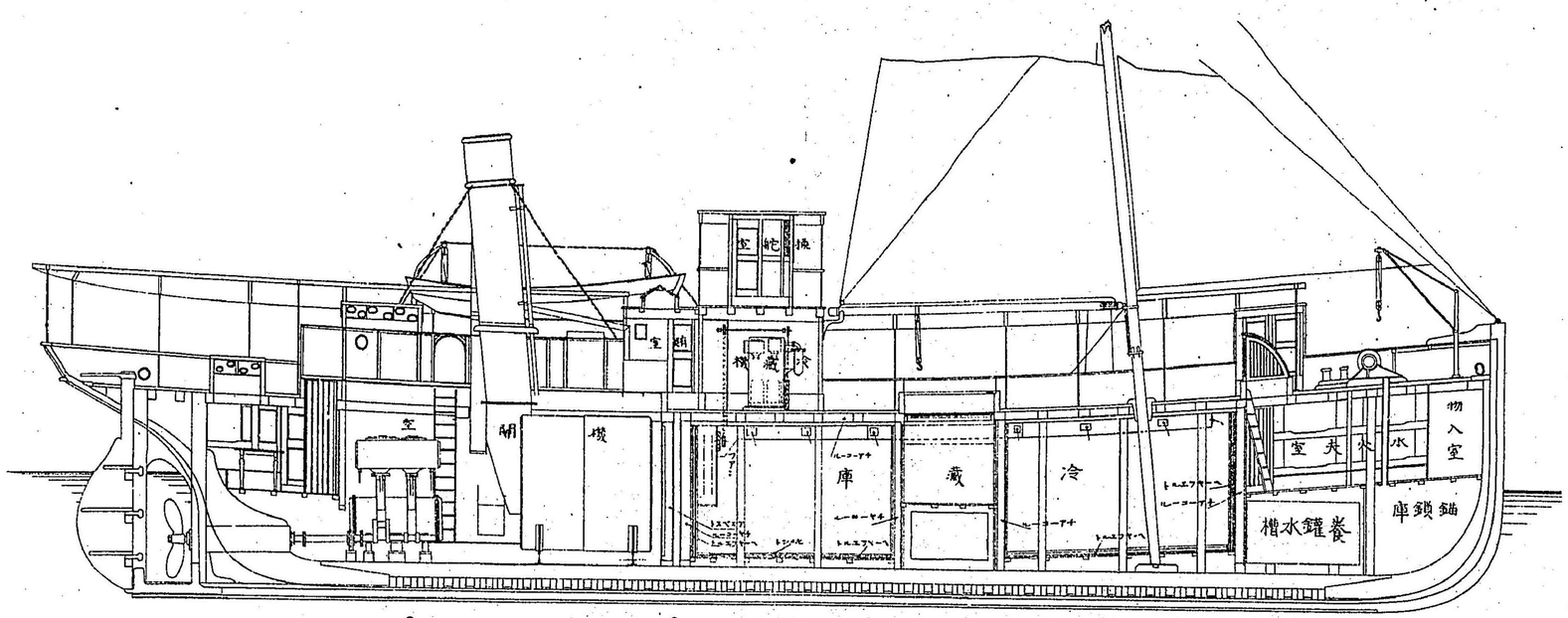






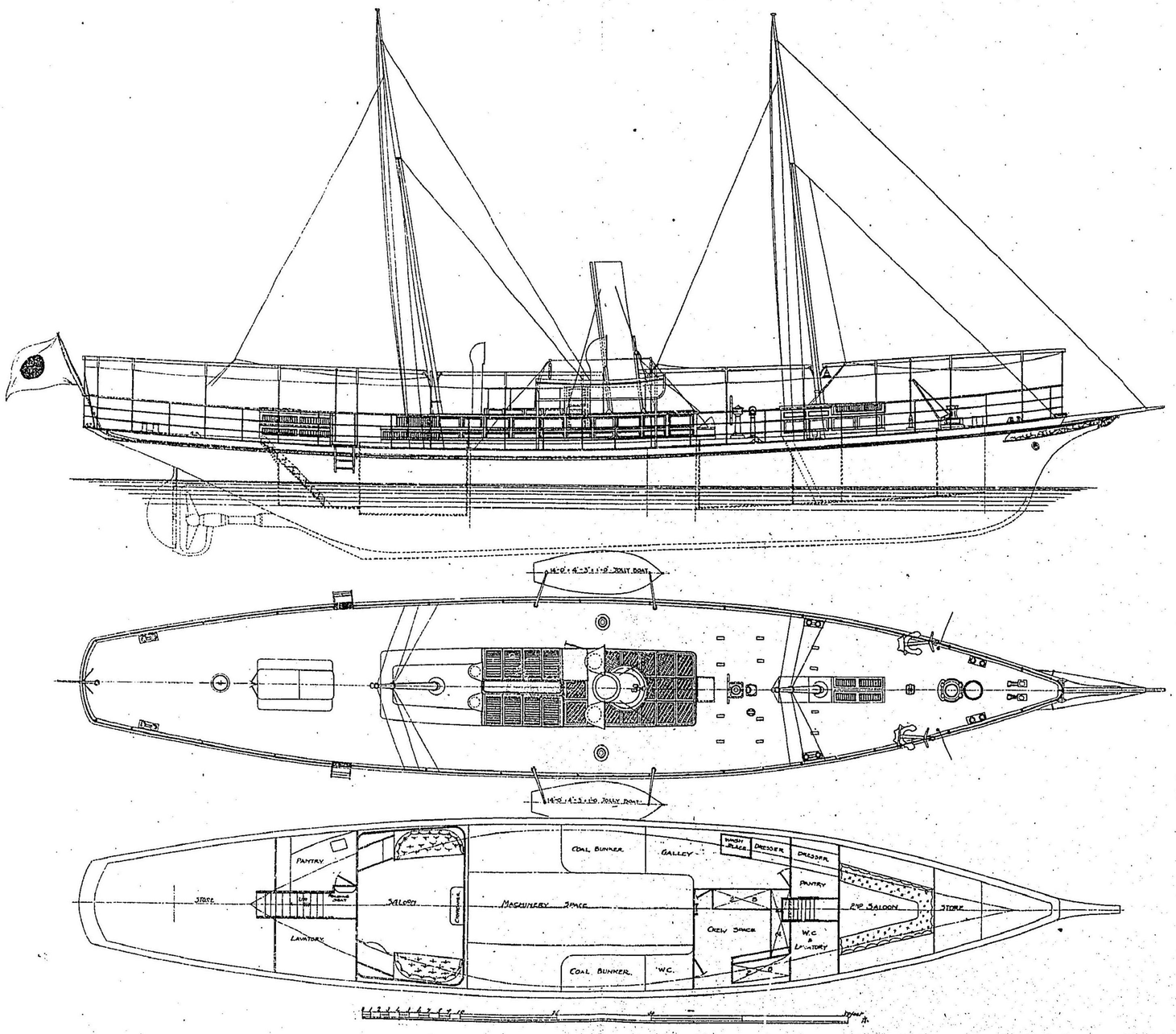
有魚光船體圖

第五拾參圖



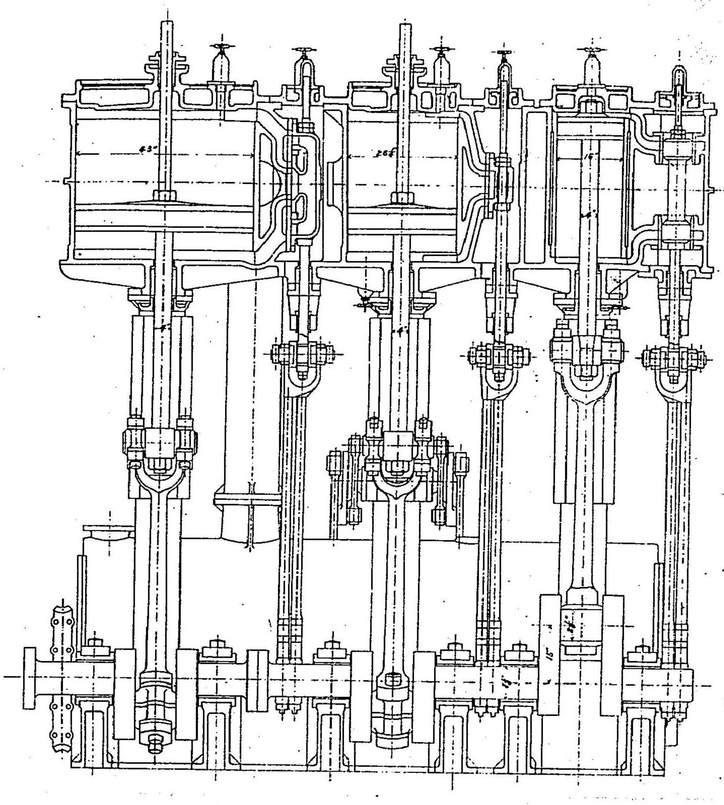
快遊汽艇初加勢舩體圖

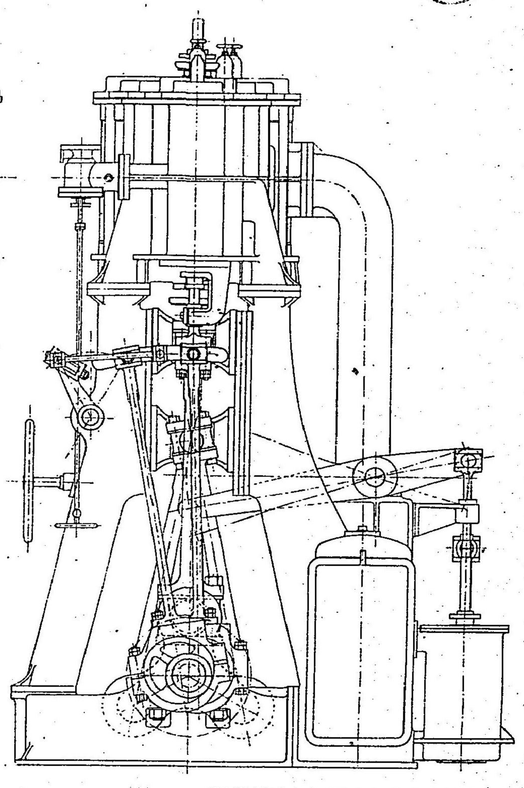
第五拾四圖

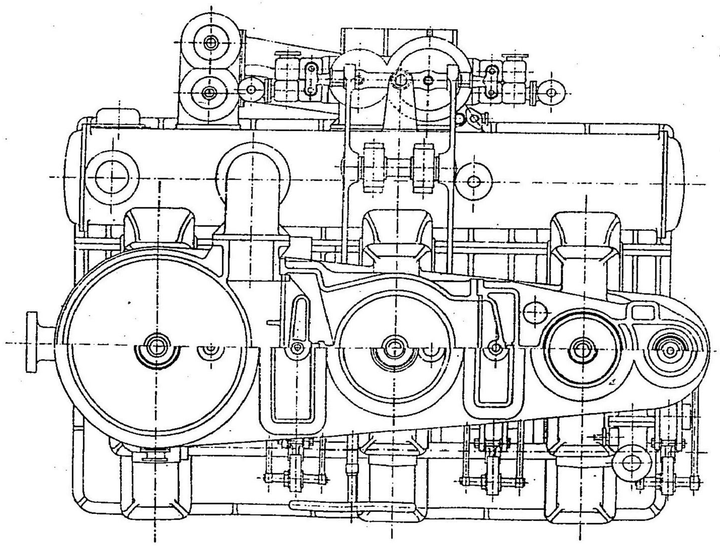


第五拾五圖

北見丸(伊豫丸)機關圖

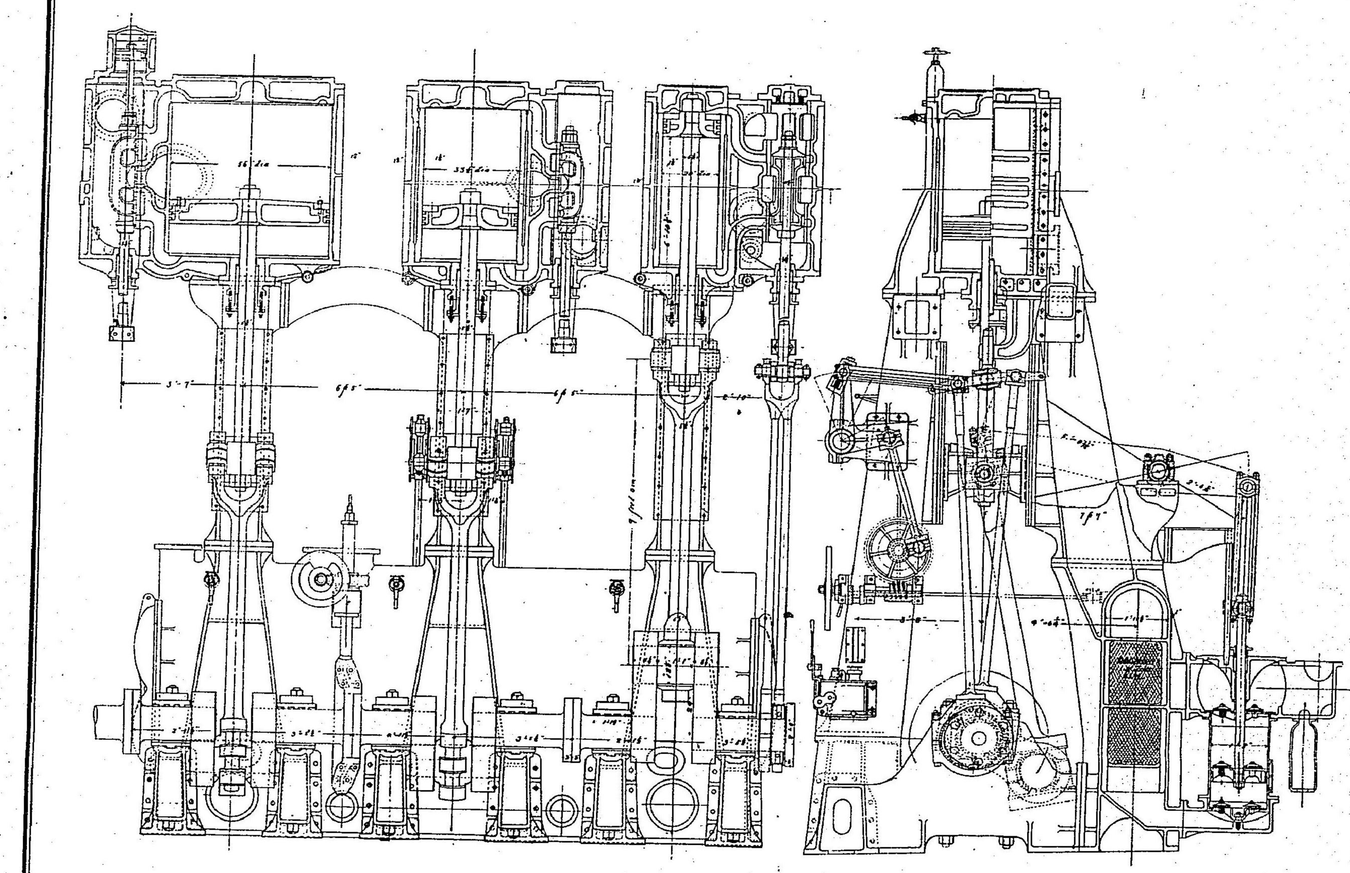


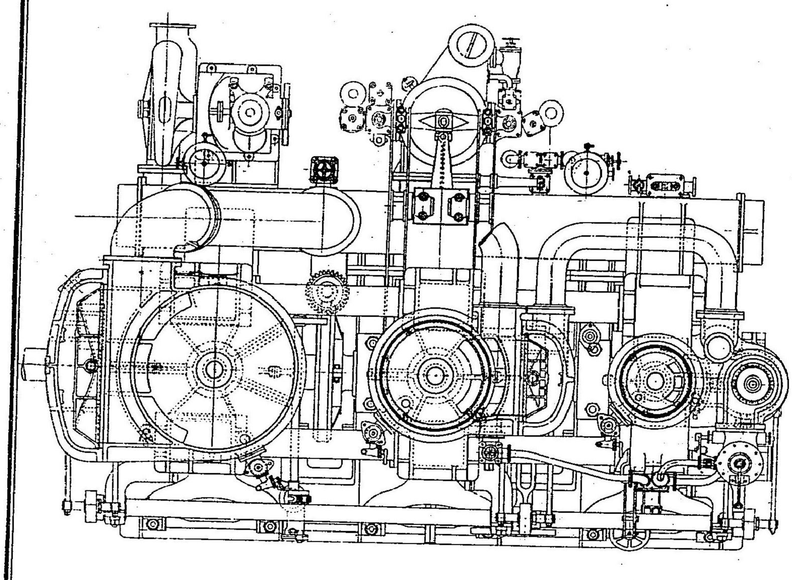




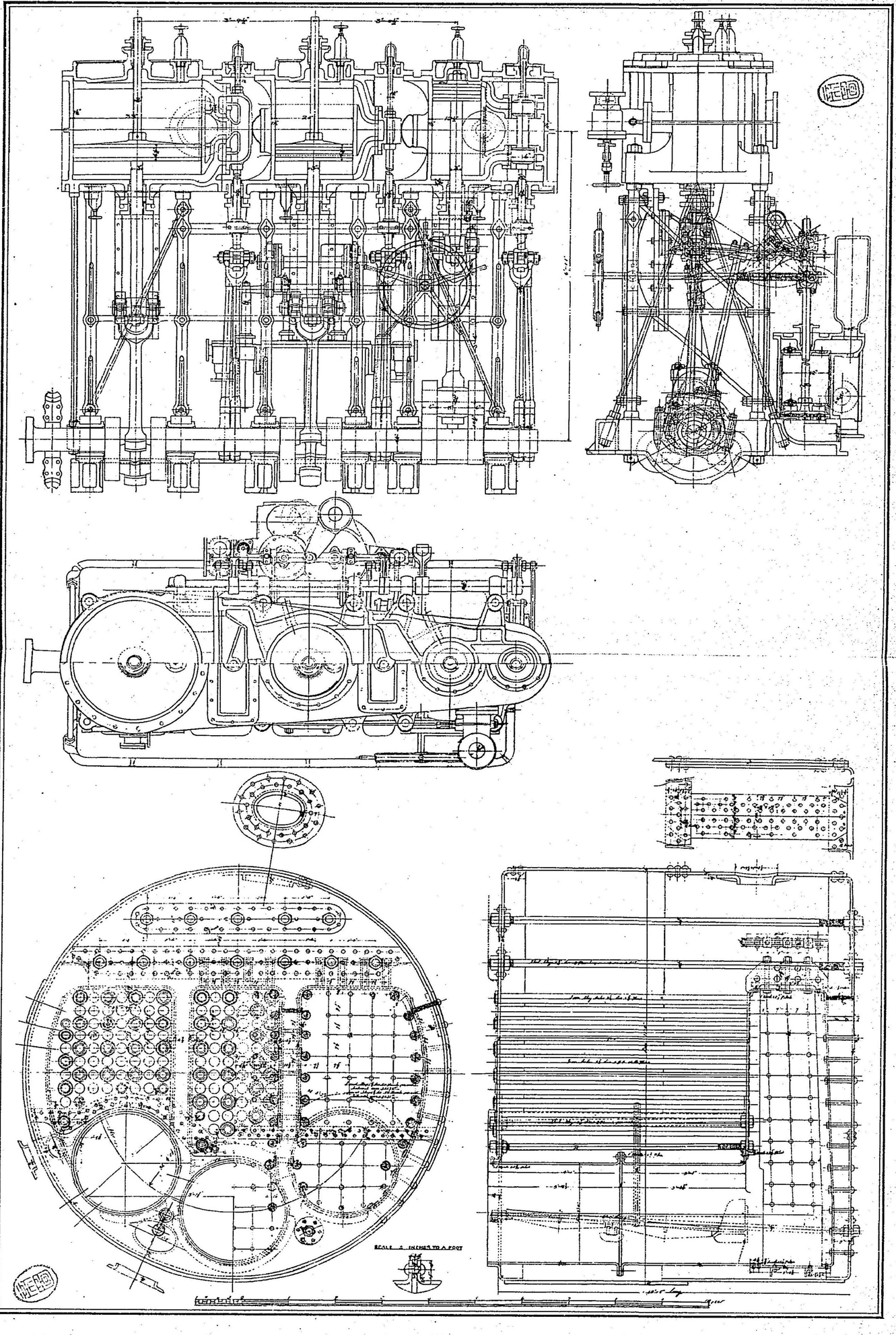
常陸丸機關圖

第五拾六圖



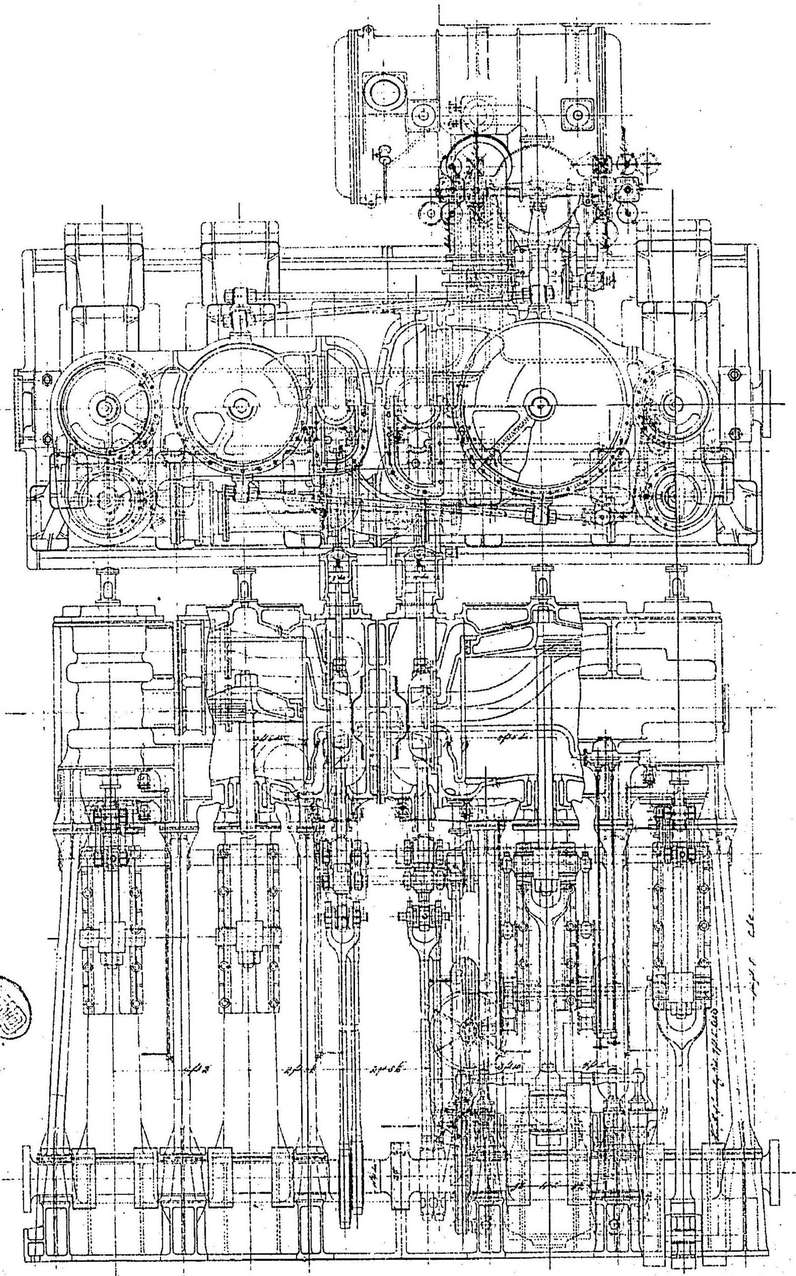


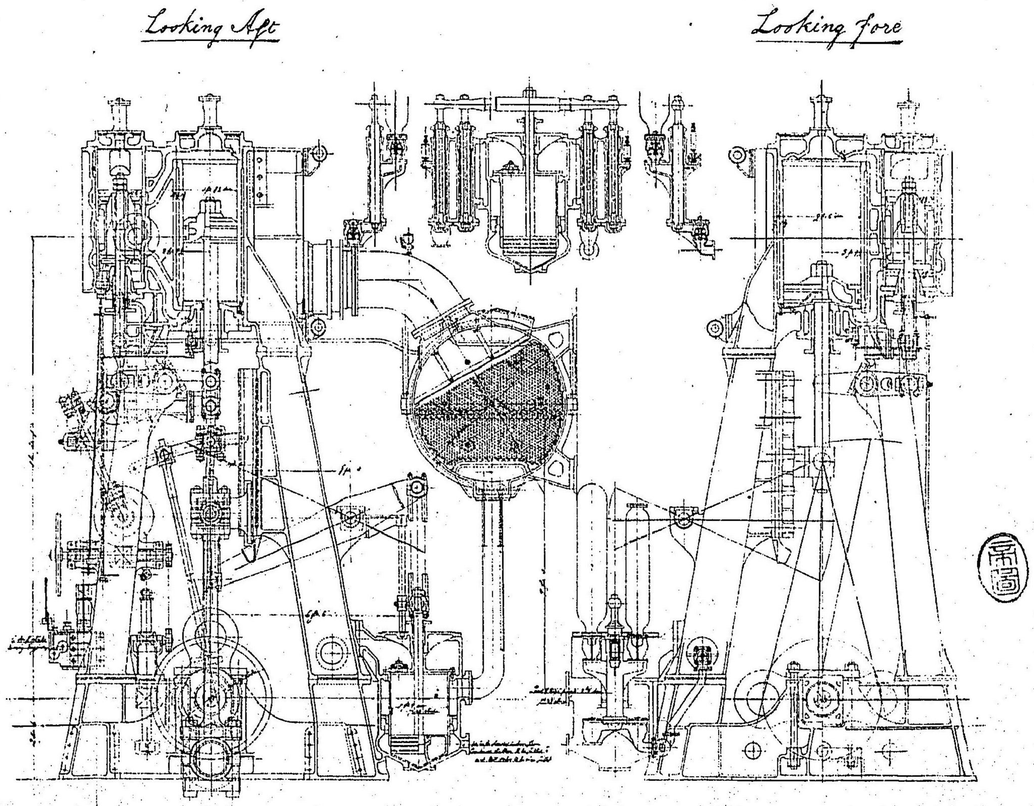
大元丸機關圖



大治丸機關圖

第五拾八圖





日光丸機關圖

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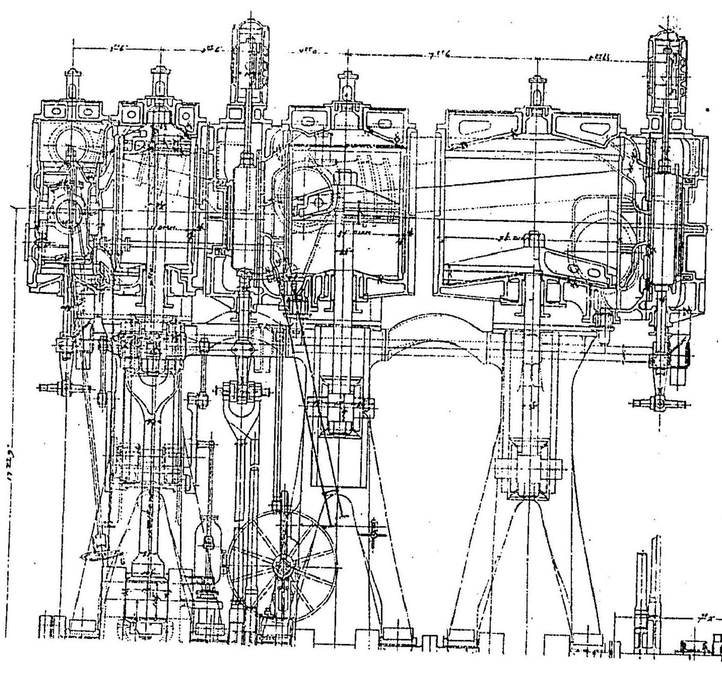
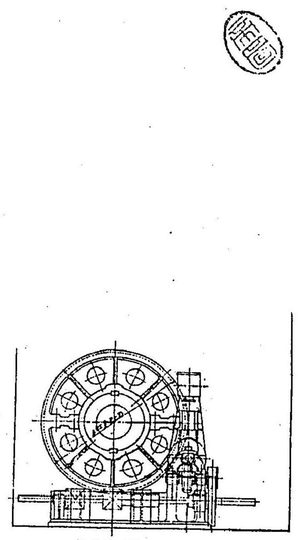
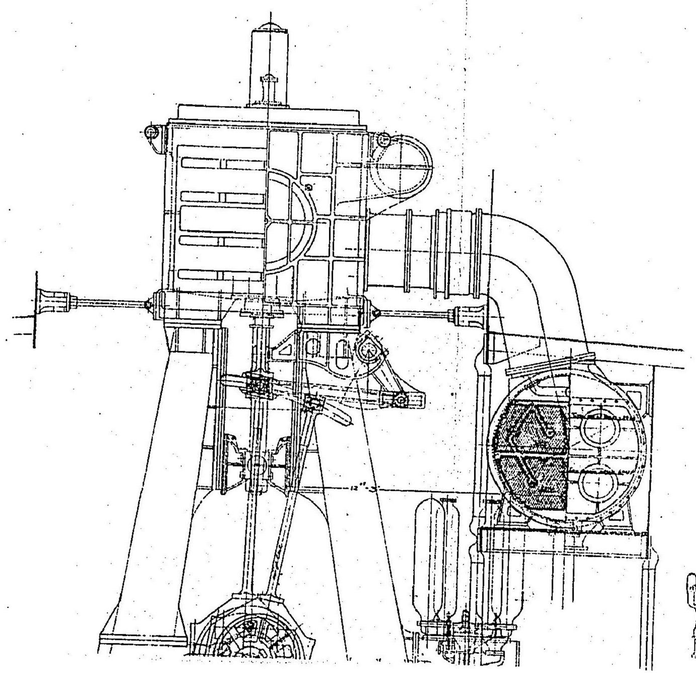
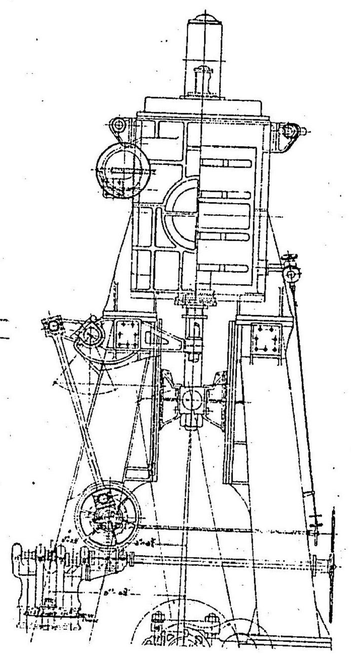


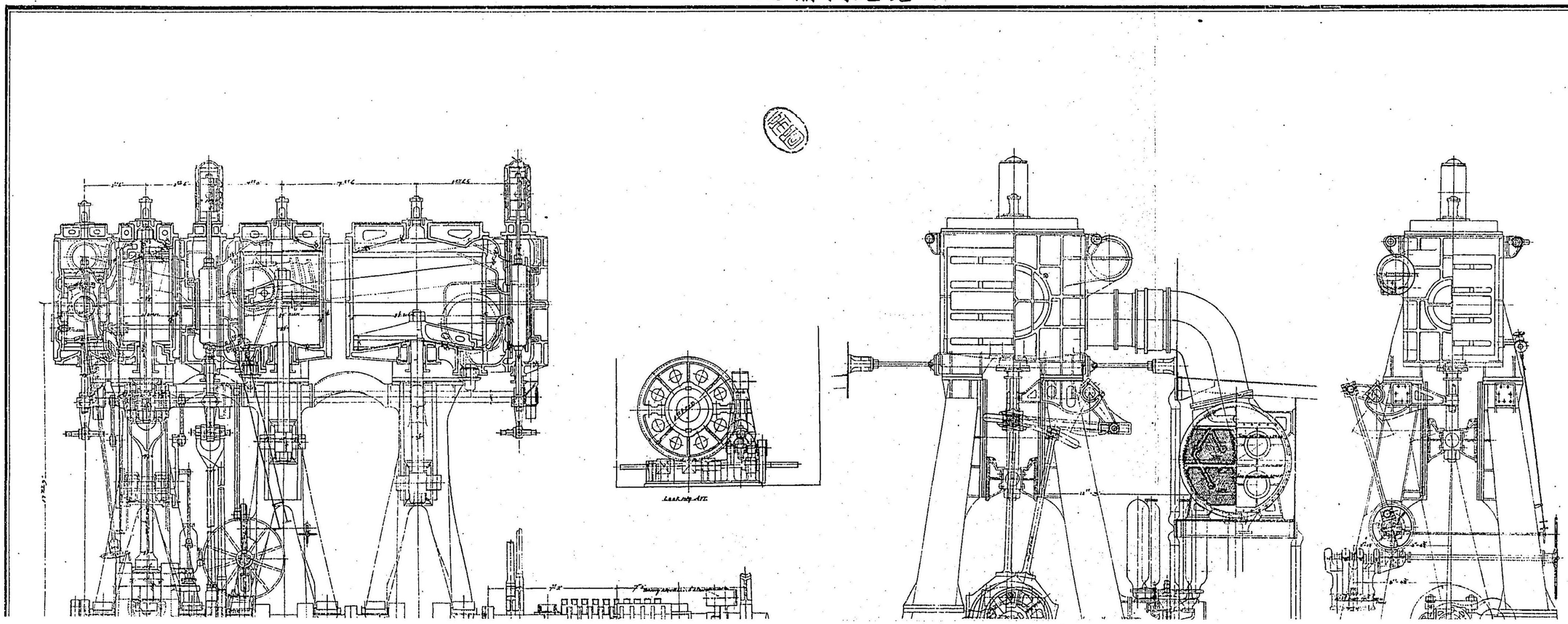


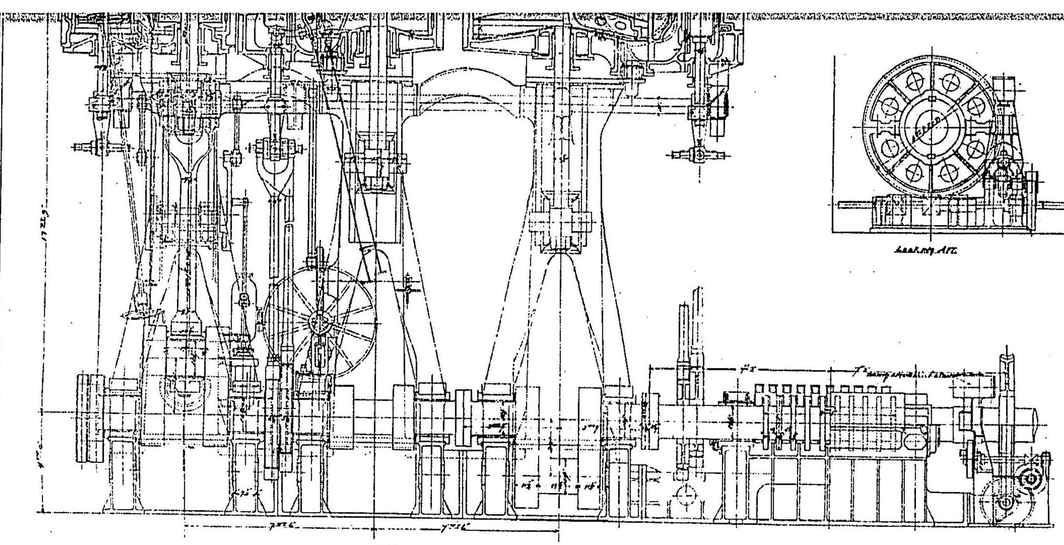


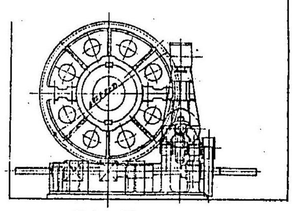


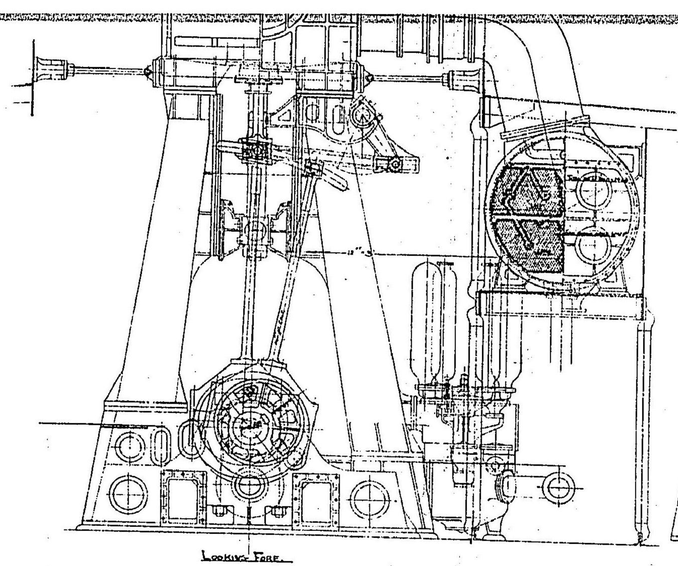
日光丸機關圖

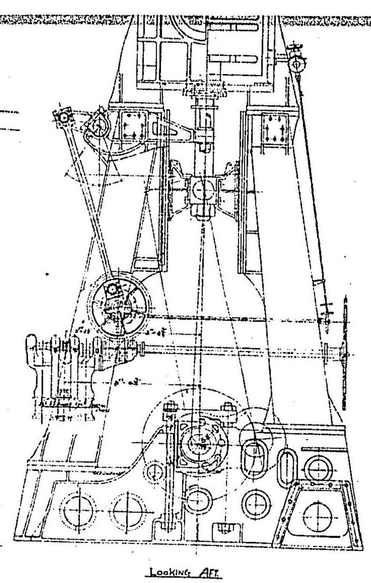
第五拾九圖

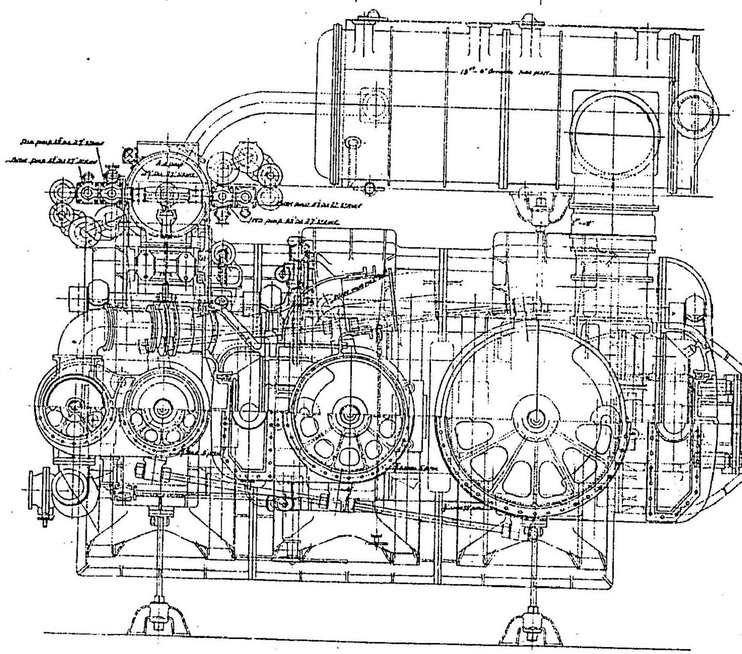


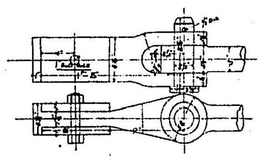


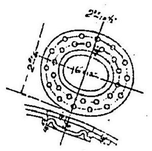


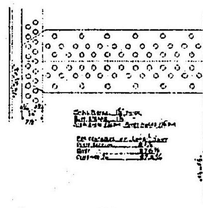


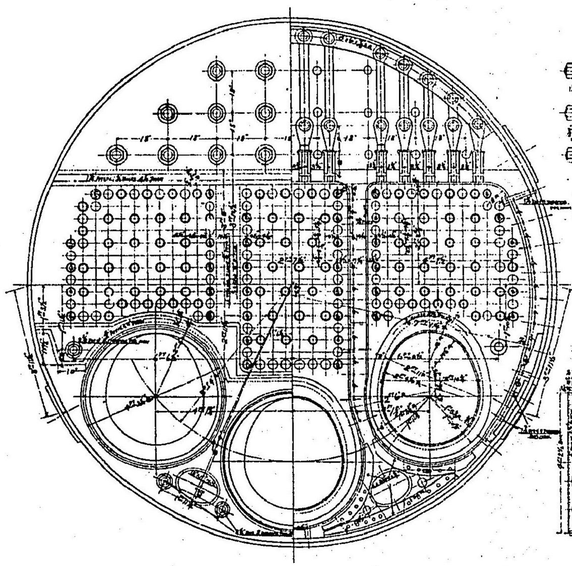


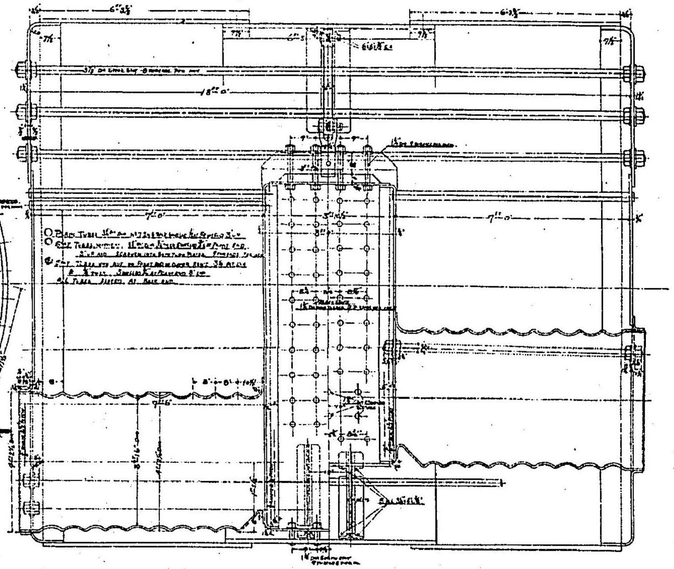






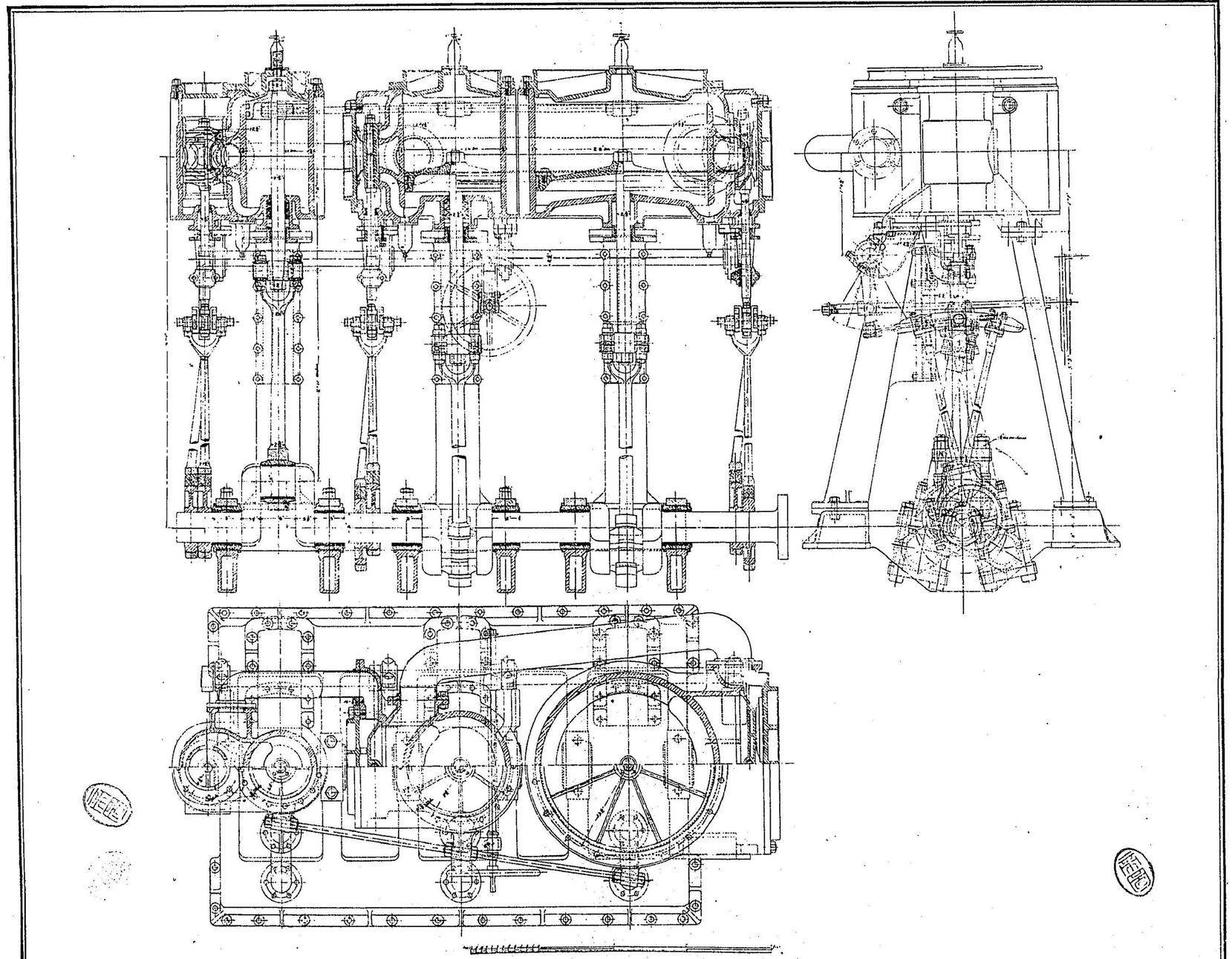






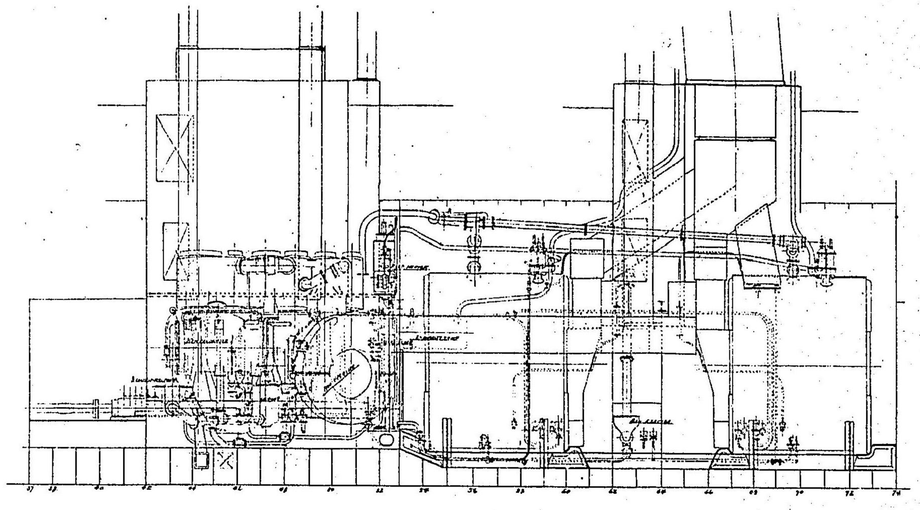
湘江丸機關圖

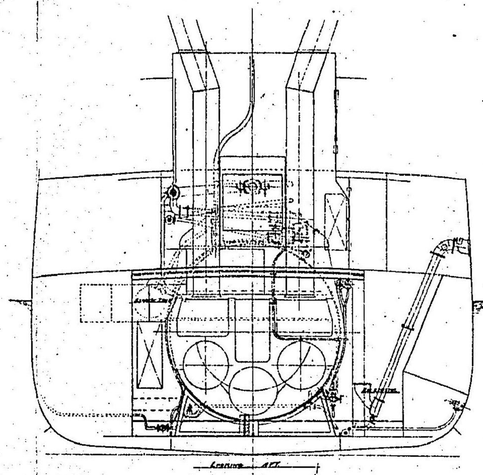
第六拾圖

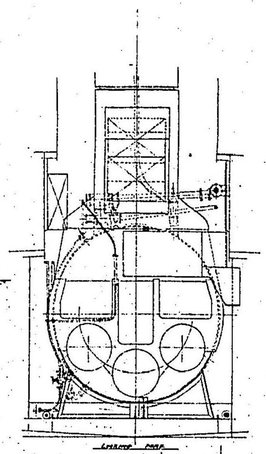


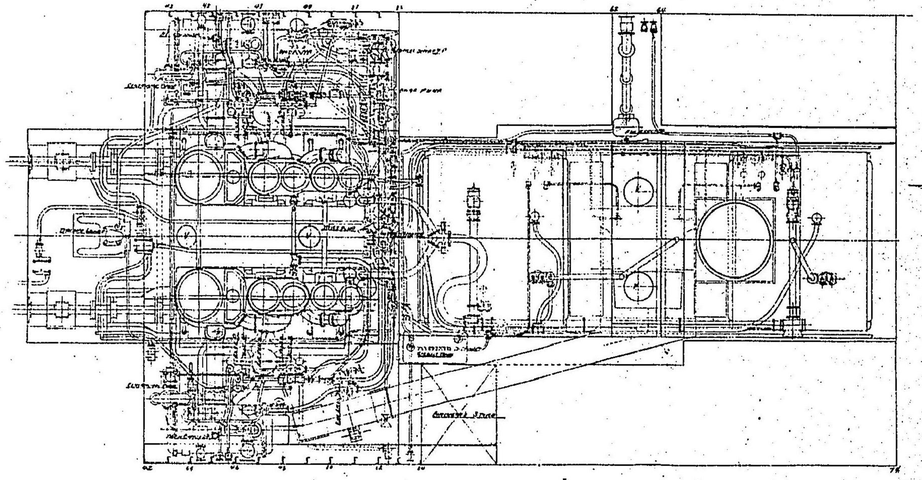
對馬丸機關圖

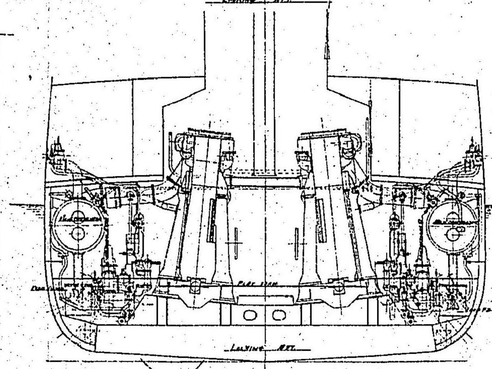
第六拾壹圖

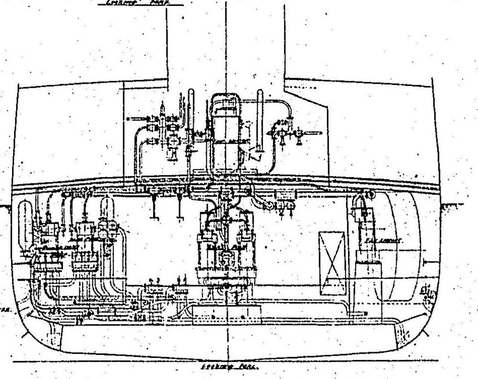


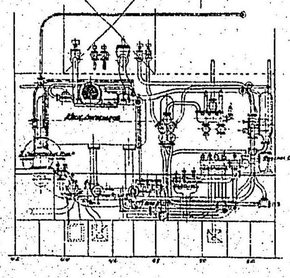






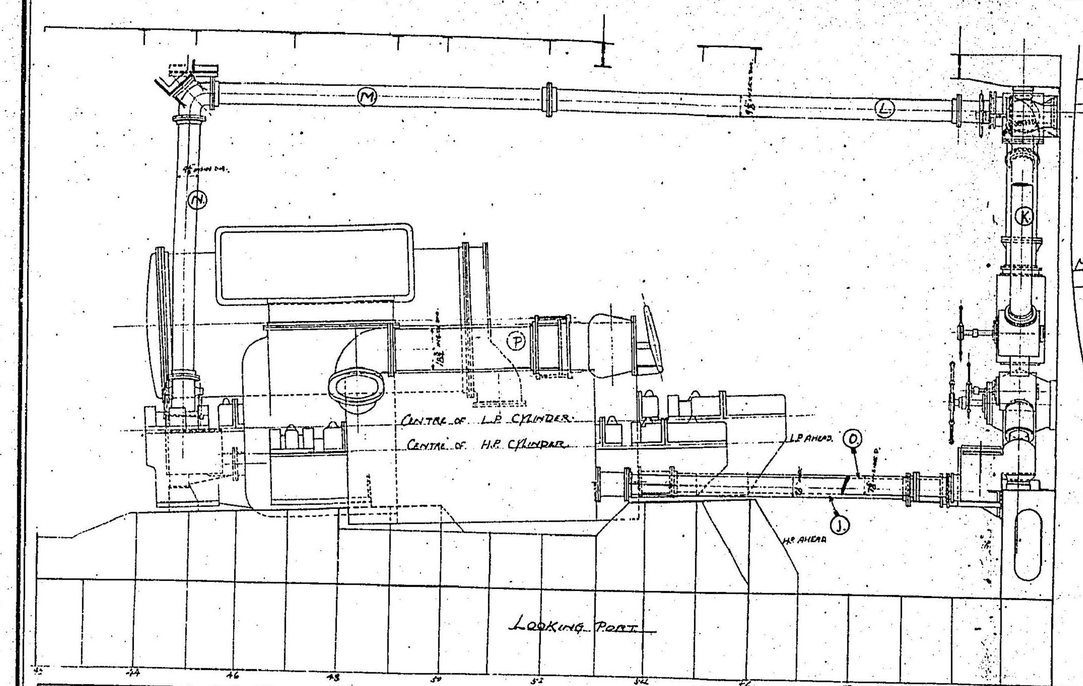


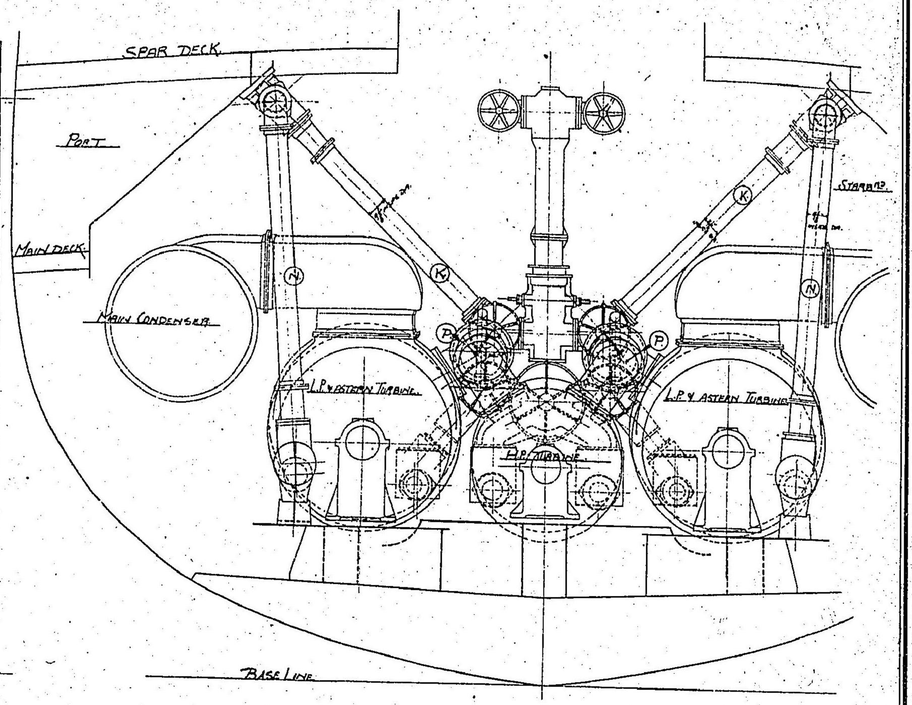




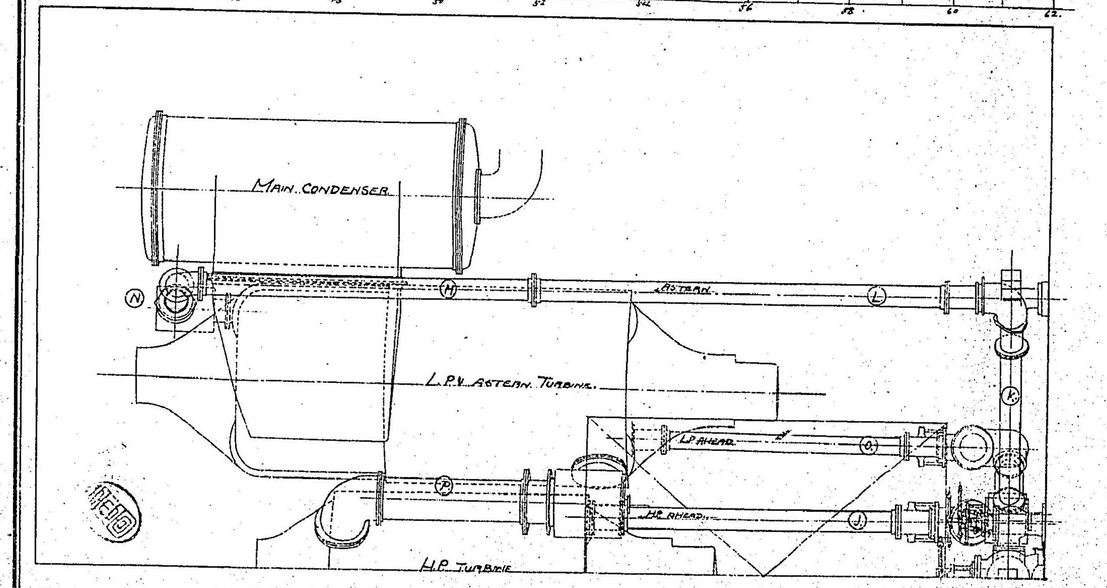
さくら丸機關圖

第六拾貳圖其一



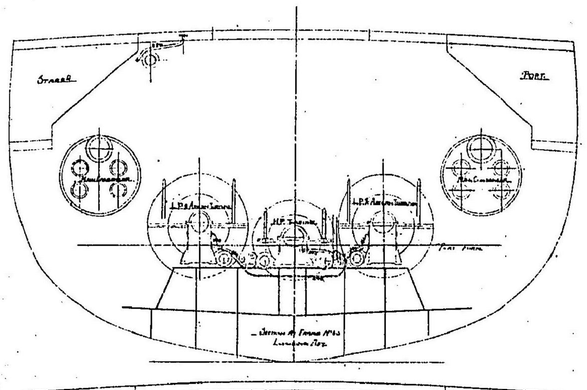


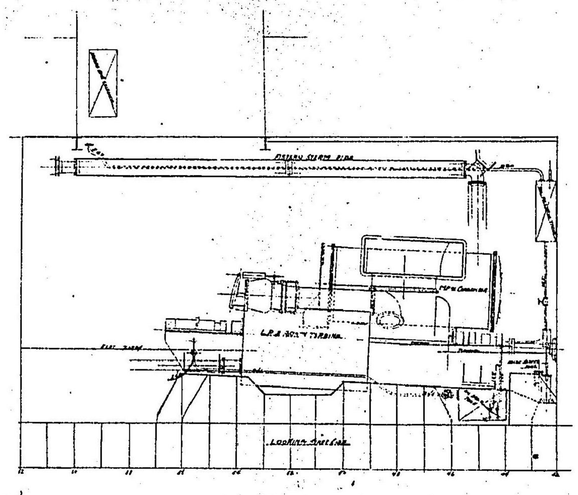
LOOKING FORE.

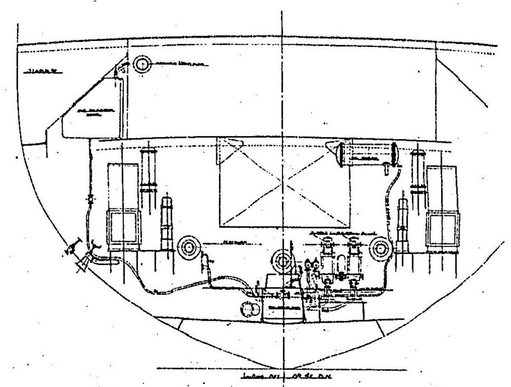


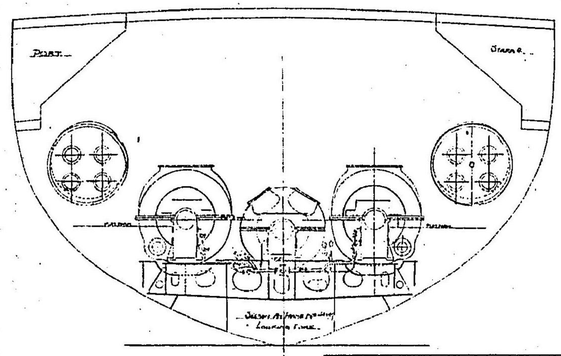
MARK	DESCRIPTIONS.	BORE.	MATERIAL.
J.	H.P. STEAM.	$9\frac{1}{8}$"	W.I.
K.	ASTERN "	"	"
L.	"	"	"
M.	"	"	"
N.	"	"	"
O.	AHEAD STEAM (L.P.)	$7\frac{5}{8}$"	"
P.	L.P. RECEIVER	$18\frac{3}{4}$"	COPPER.

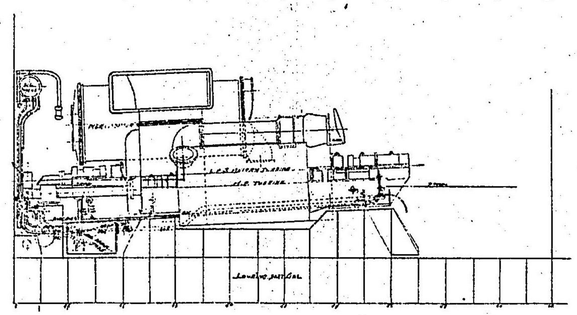
さくら丸機關圖

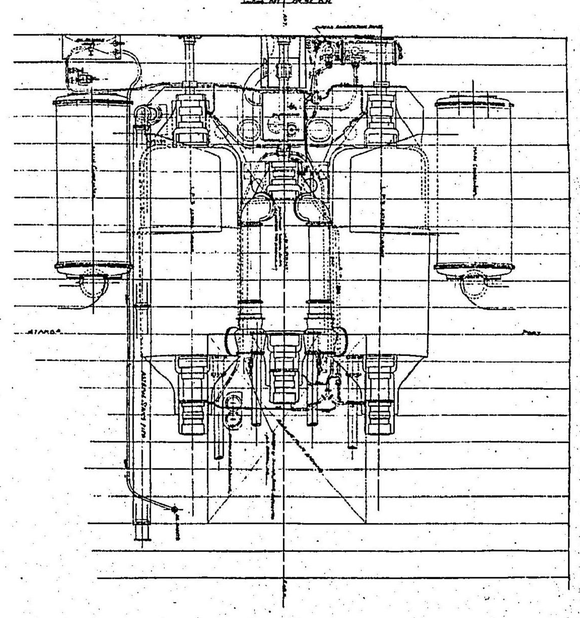








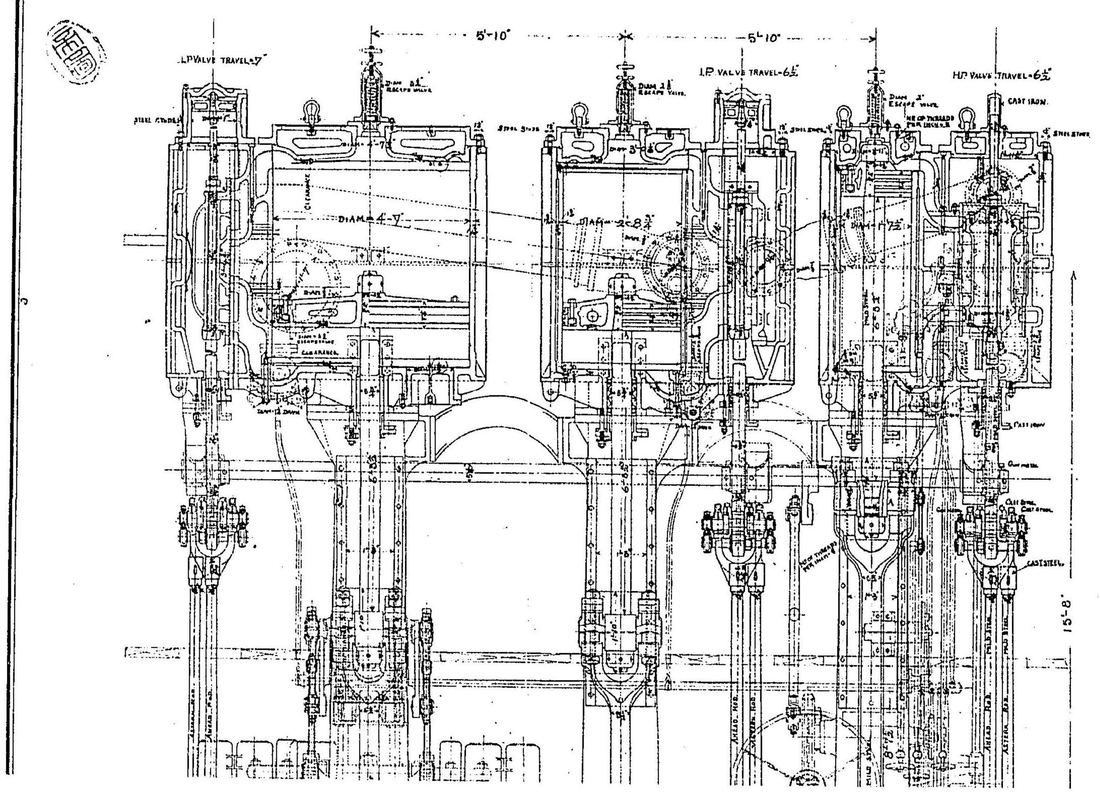


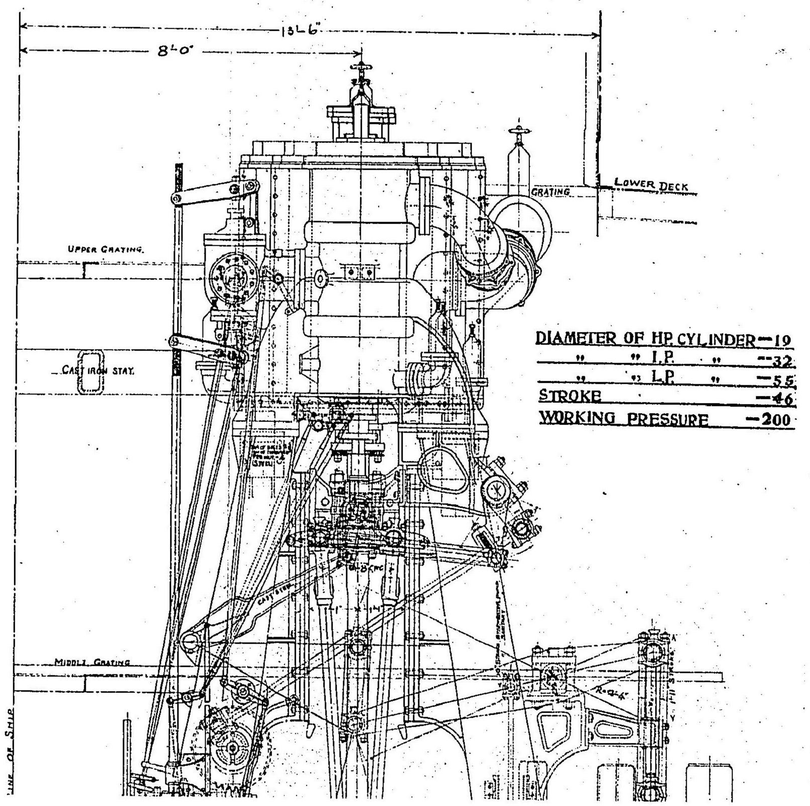


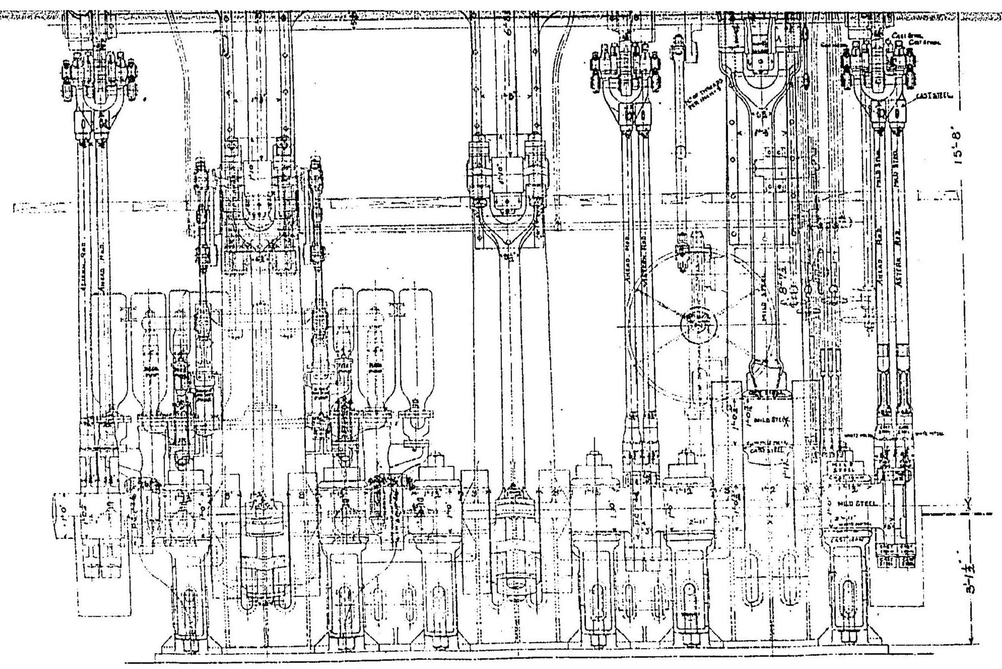
NO.	DESCRIPTION	BORE	MATERIAL
230	OIL FILLING TO RESERVE TANK.	2"	COPPER
231	OIL FILLING FOR DRAIN TANK FROM RESERVE TANK	1½"	"
232	FORCED LUBRI. PUMPS SUCTION FROM OIL DRAIN TANK	2"	"
233	" " " DELIVERY COMMON	1½"	"
234	" " " " TO OIL COOLER	1½"	"
235	OIL COOLER DELIVERY	1½"	"
236	OIL SERVICE MAIN	1½"	"
237	" " SUPPLY FOR HP AFTER BEARING	¾"	"
238	" " " " P.L.P. " "	¾"	"
239	" " " " S.L.P. " "	¾"	"
240	" " " " H.P. FORWARD BEARING	¾"	"
241	" " " " P.L.P. " "	¾"	"
242	" " " " S.L.P. " "	¾"	"
243	OIL SERVICE DRAIN FROM H.P. FORWARD BEARING	2"	"
244	" " " " P.L.P. " "	2"	"
245	" " "COMMON " H.P.L.P. " "	2½"	"
246	" " " FROM S.L.P. " "	2"	"
247	" " " " H.P. AFTER BEARING	2"	"
248	" " " " P.L.P. " "	2"	"
249	" " " " S.L.P. " "	2"	"
250	FORCED LUB PUMPS ESCAPE DRAIN TO O.D.T.	1"	"
251	OIL DRAIN TANK AIR PIPE	2"	"

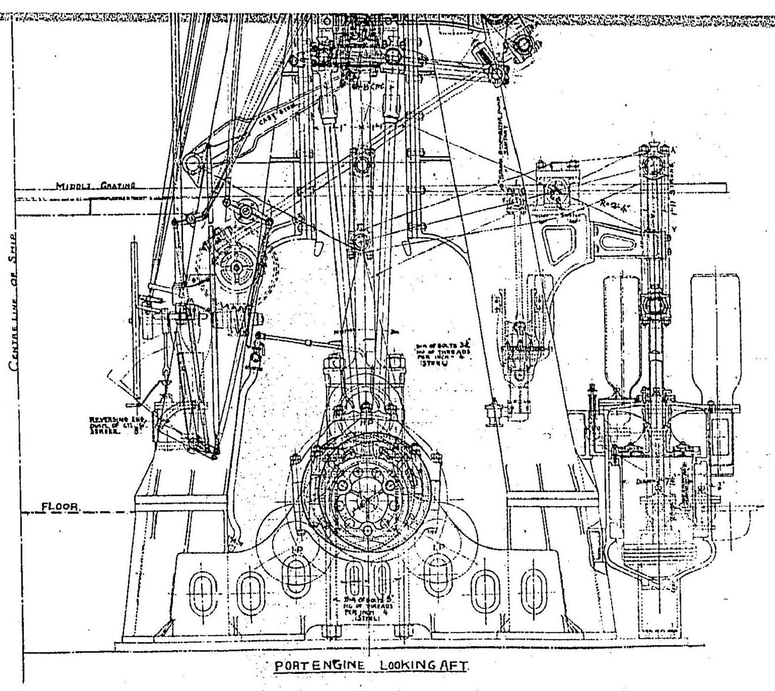
たこまる機關圖

第六拾參圖

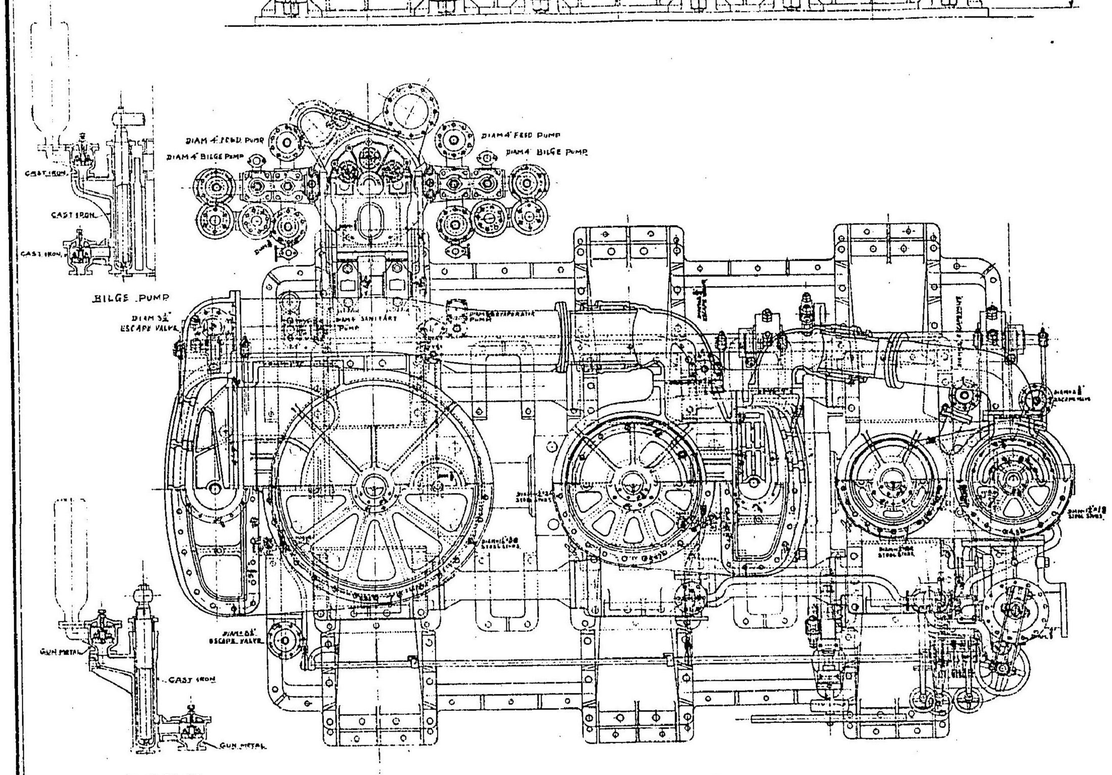


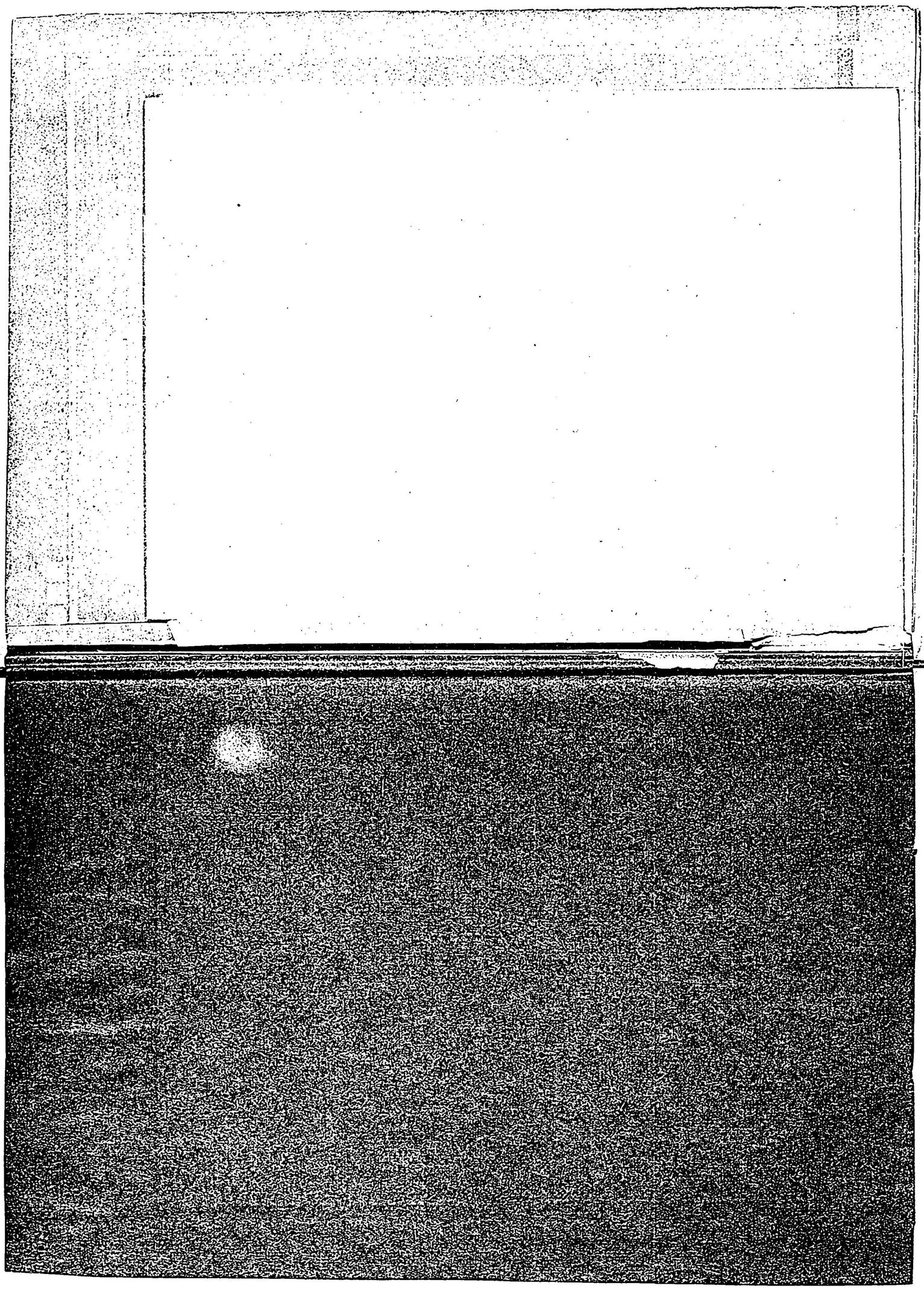






PORT ENGINE LOOKING AFT.





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