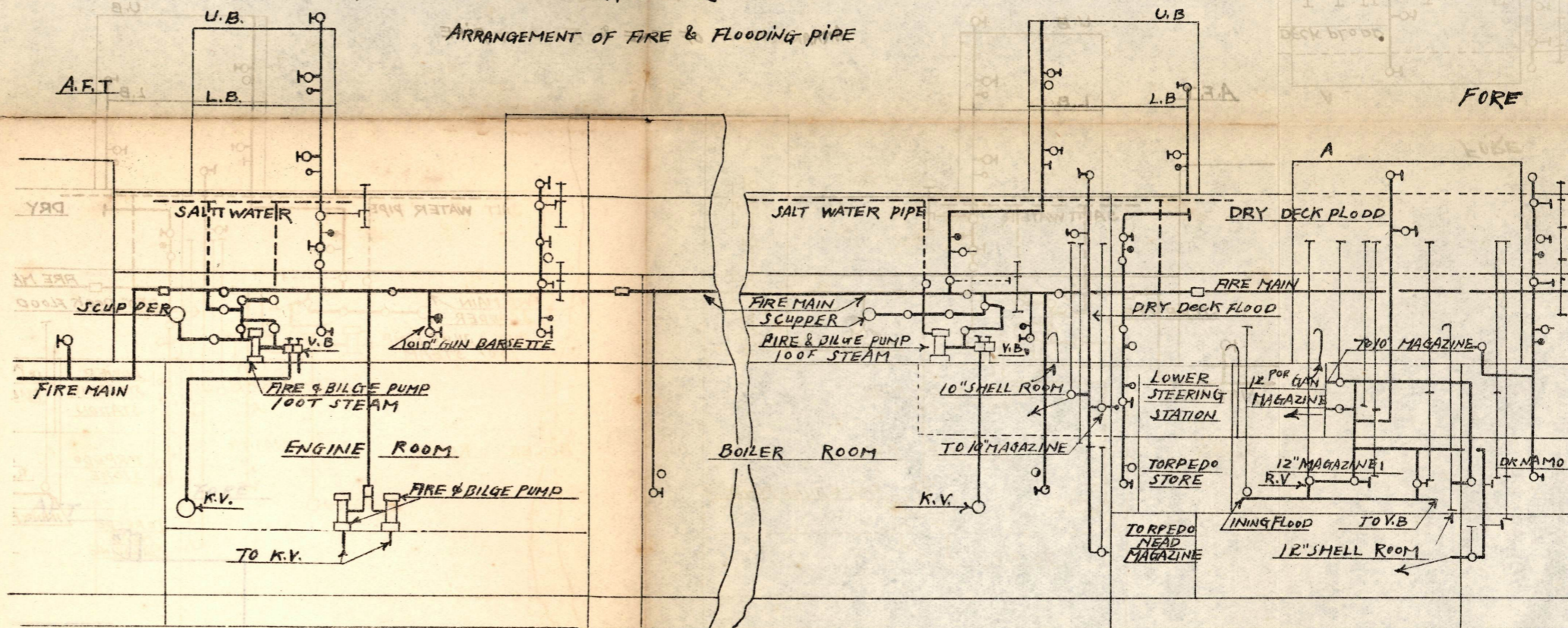
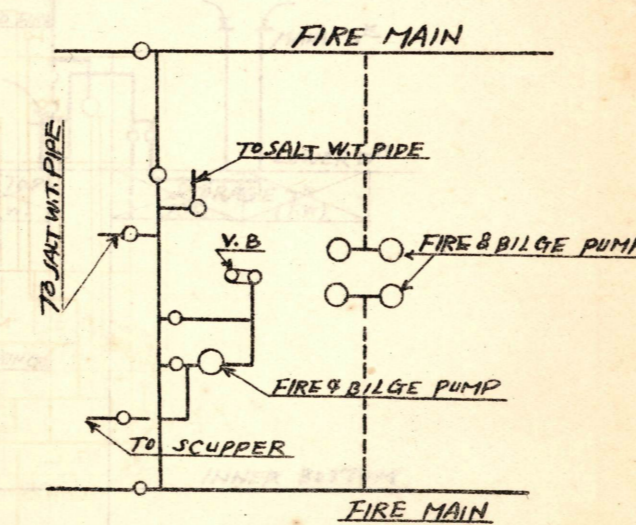


第56图

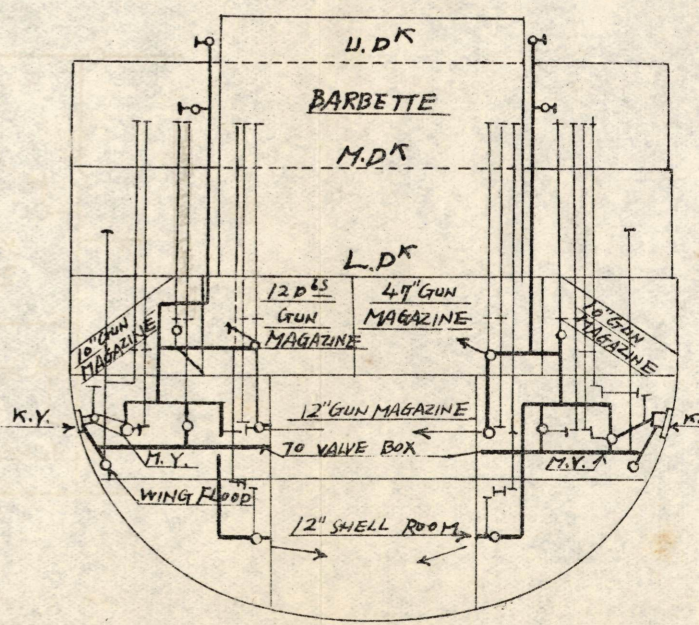
ARRANGEMENT OF FIRE & FLOODING PIPE



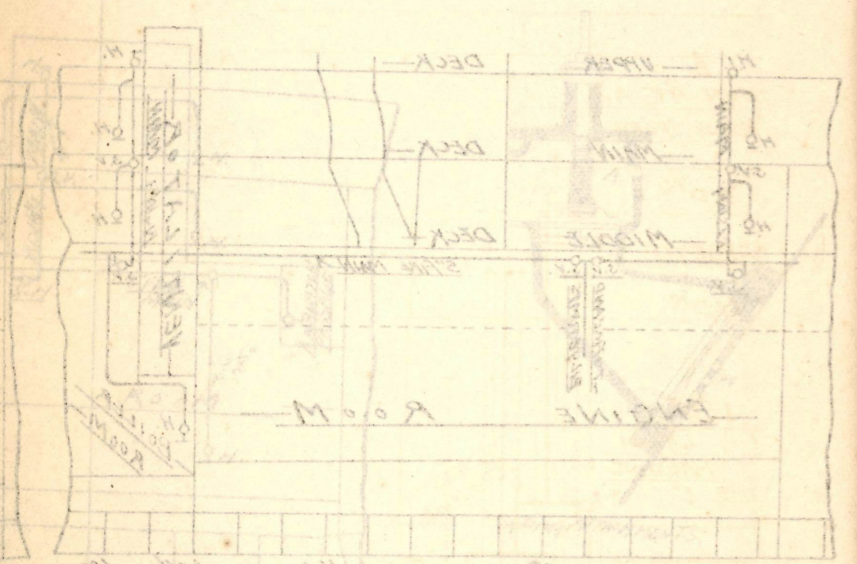
LOWER DECK PLAN



SECTION AT A-B  
LOOKING FORE

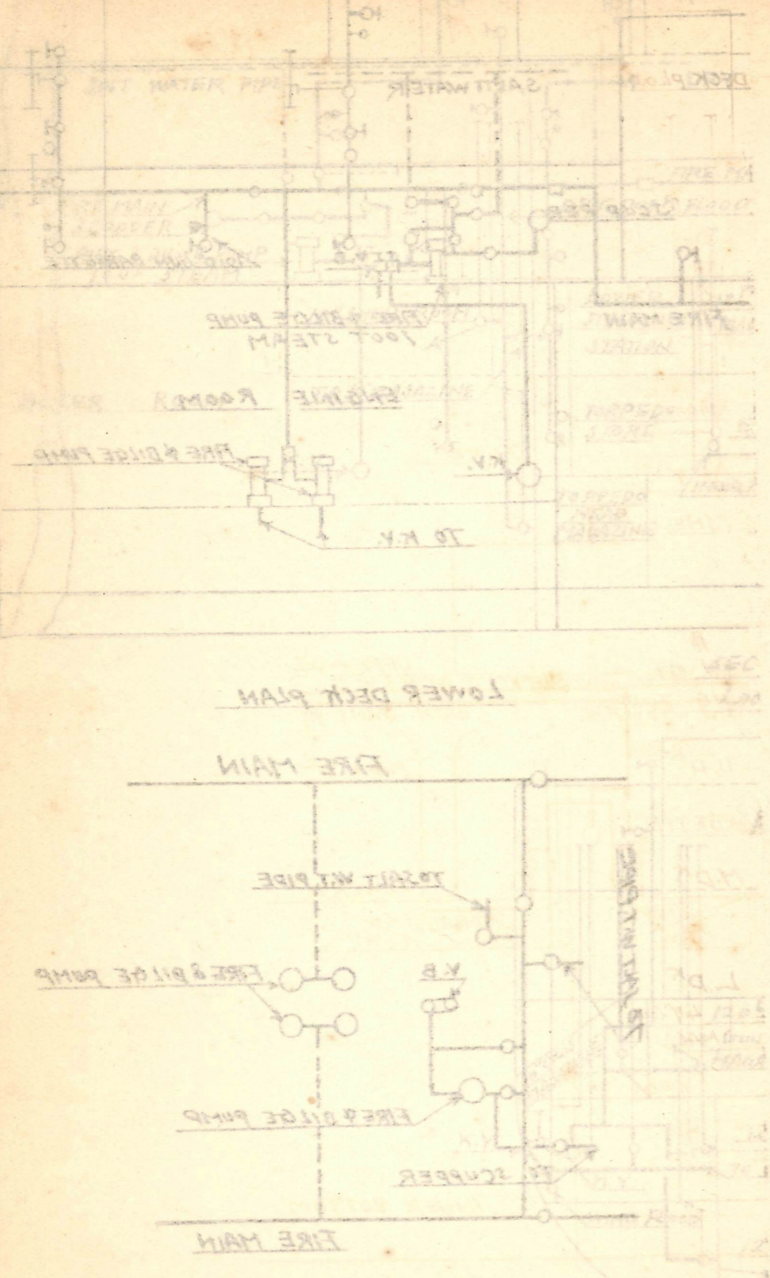
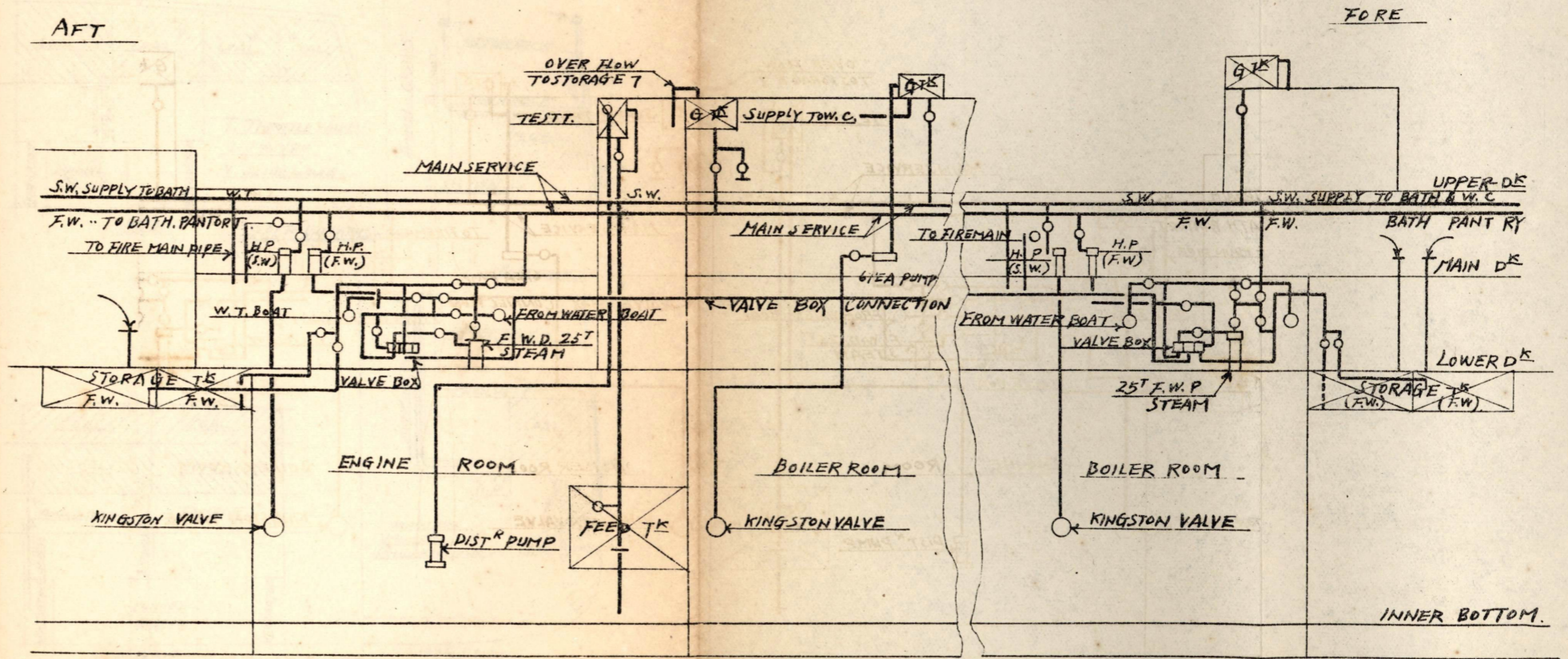


第55图  
FIRE MAIN SYSTEM

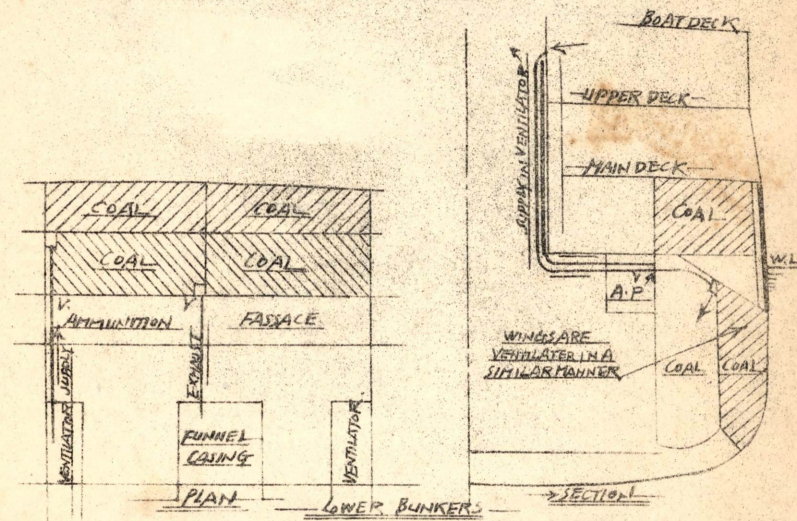
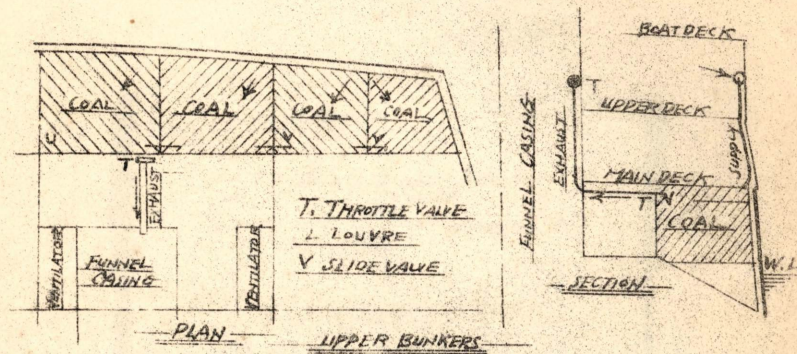


透能五十一

ARRANGEMENT OF FRESH & SALT WATER SERVICE

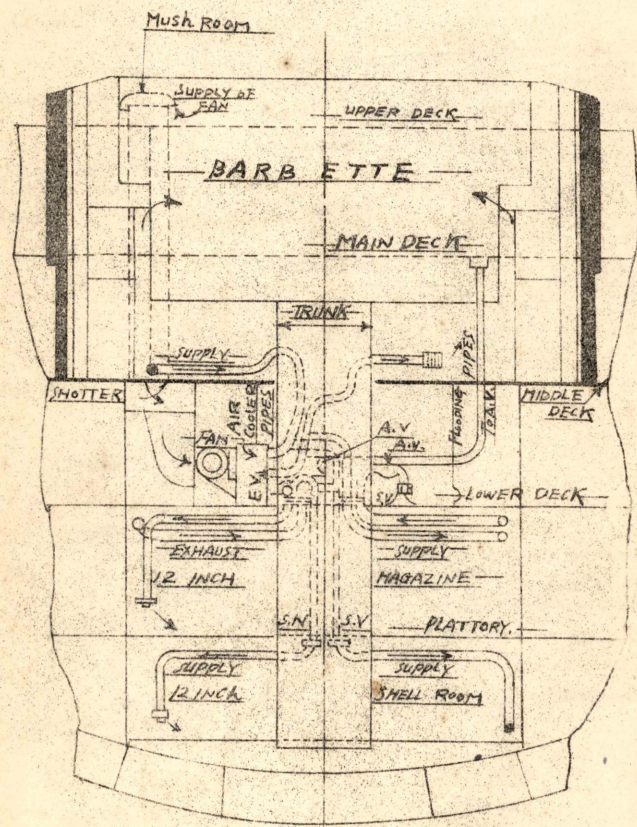


第 58 图



VENTILATION OF COAL BUNKERS

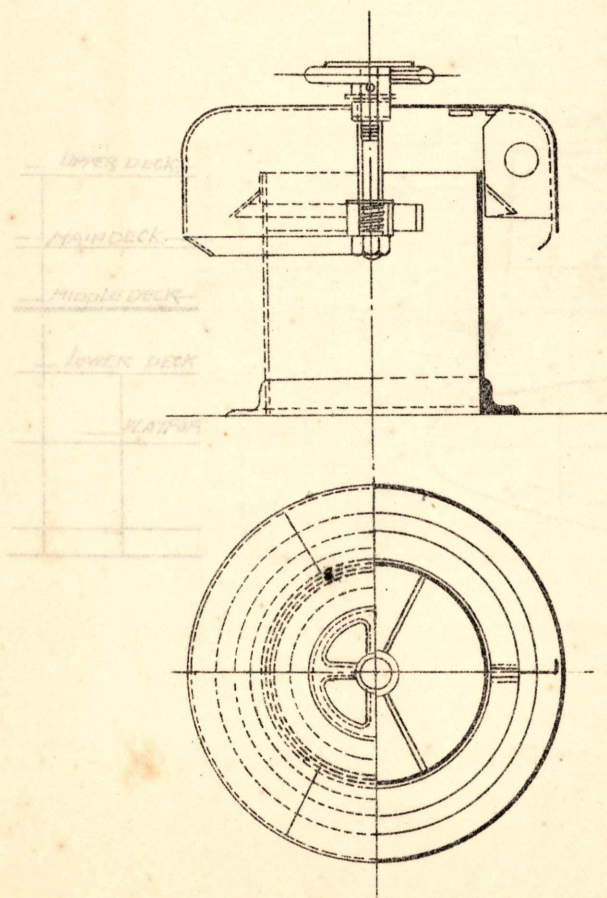
第59图



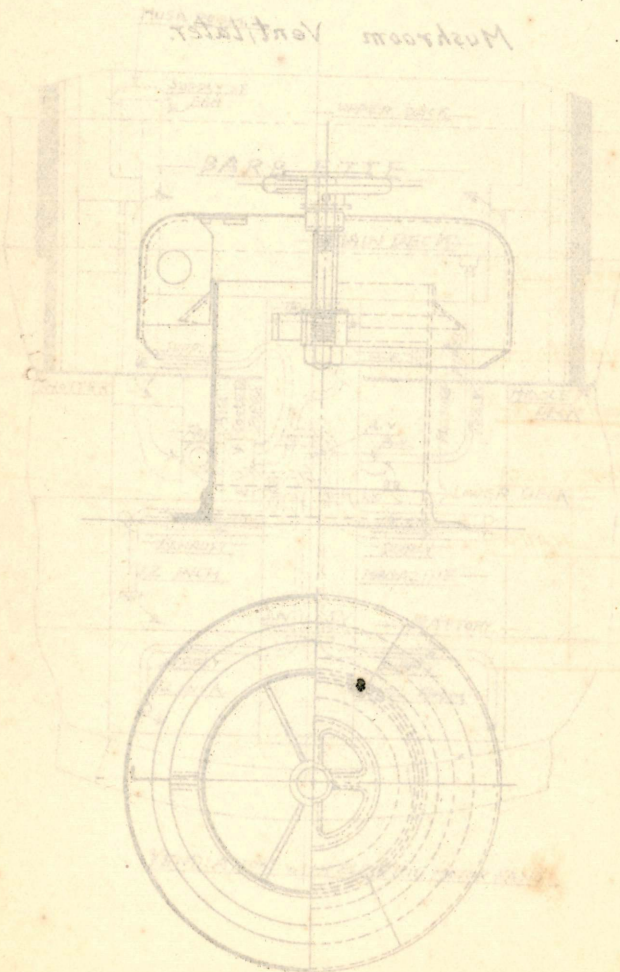
VENTILATION WITH ELECTRIC MOTOR FANS

第59图(B)

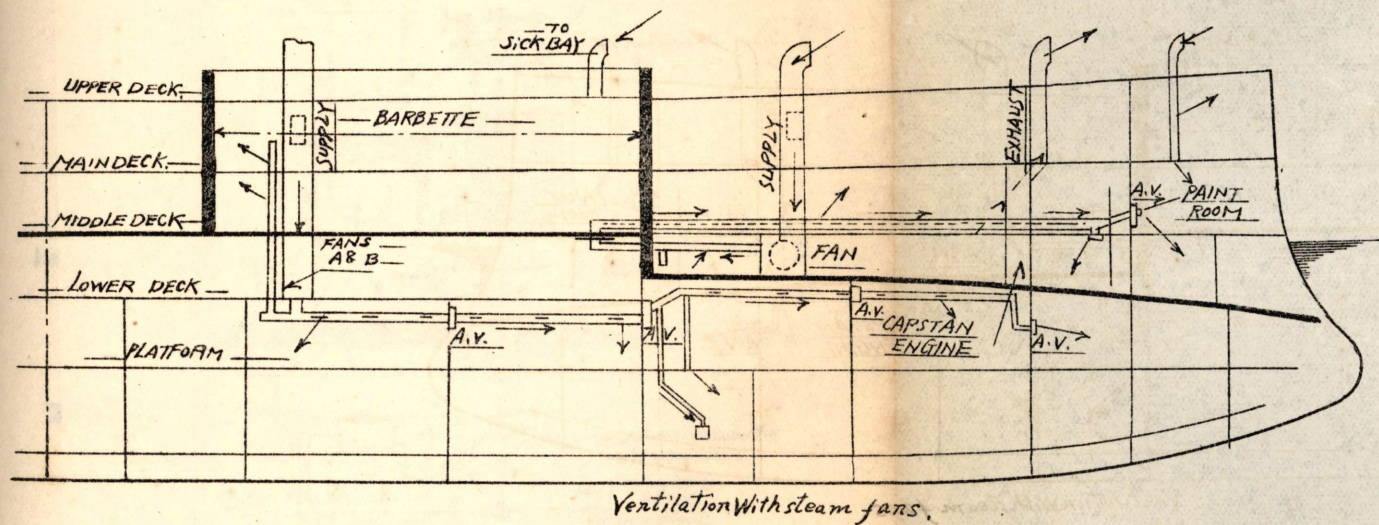
Mushroom Ventilator.



第59圖 (B) 第29圖

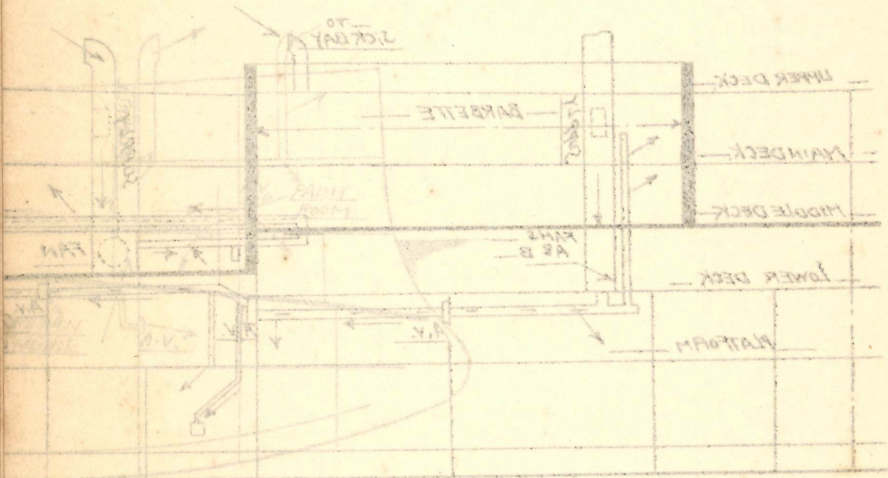


第60圖

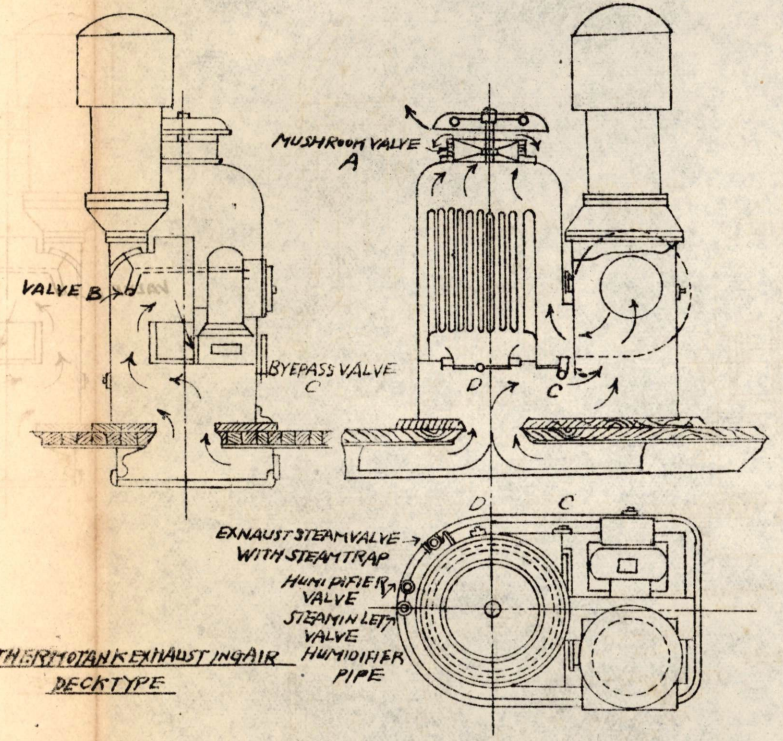
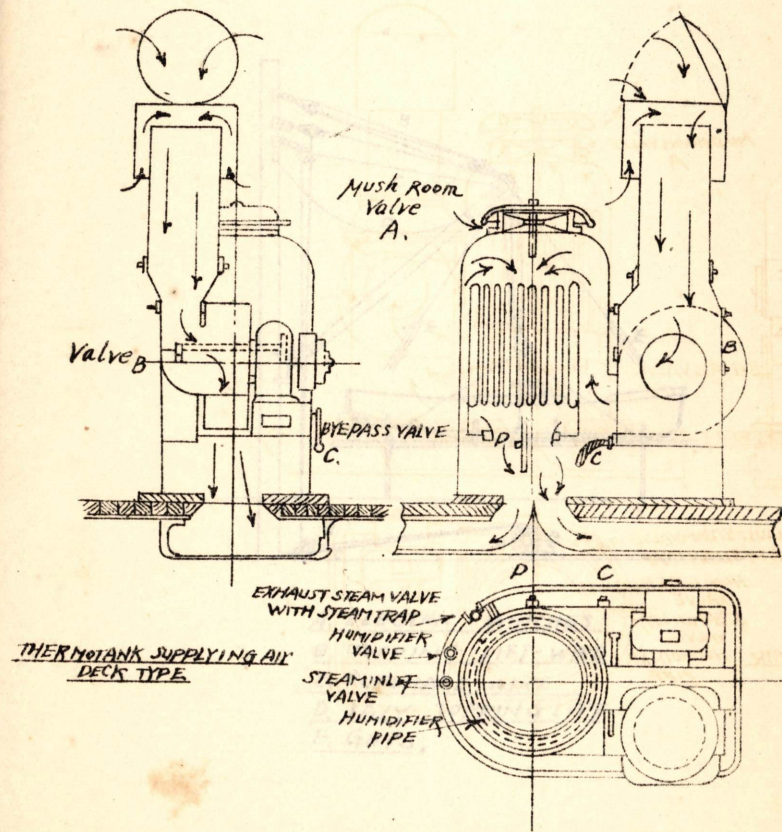


Thermo-tank system of Ventilation.

第 61 图

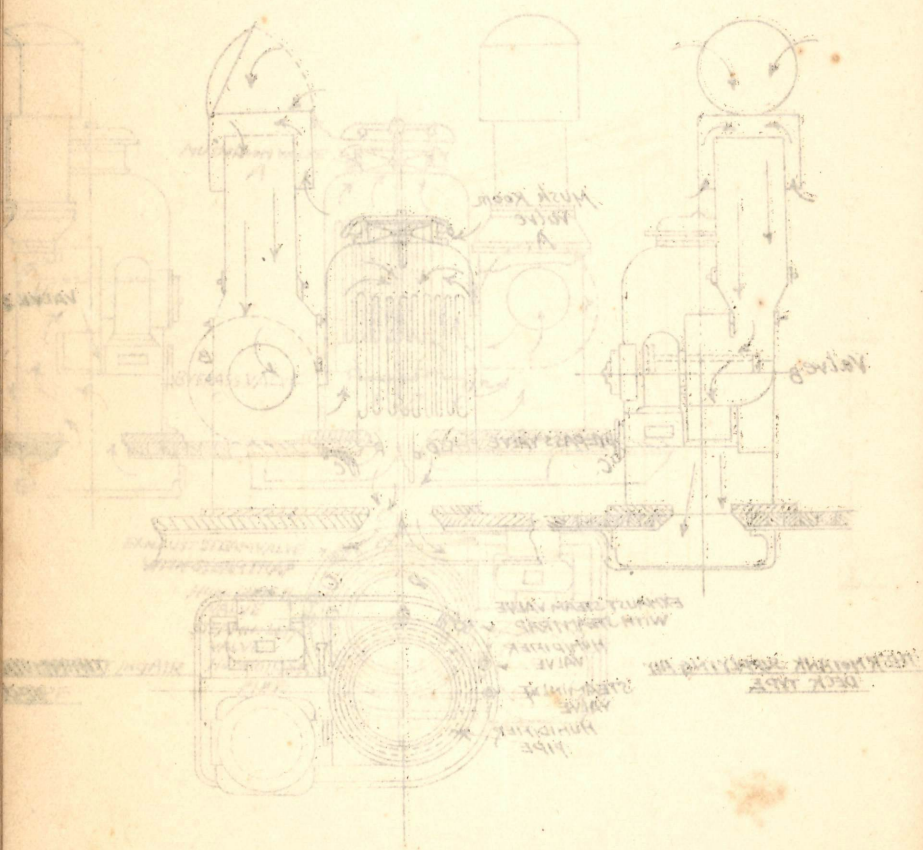


Ventilation with steam



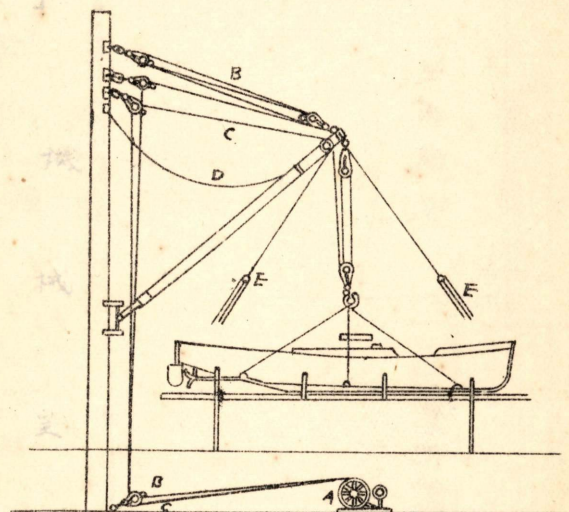
第 12 号

Thermo tank system of



第 62 号

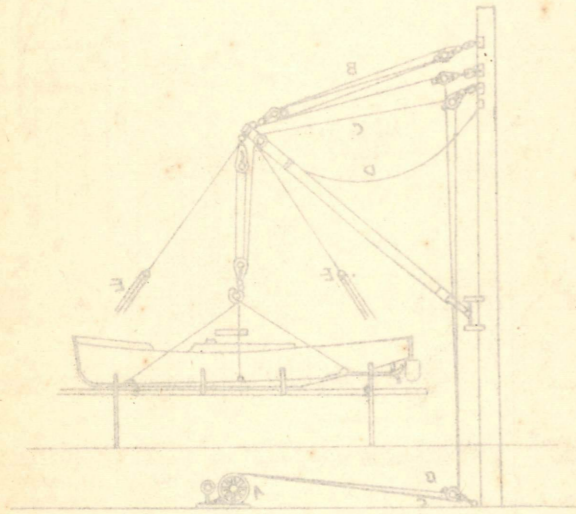
BOAT HOISTING ARRANGEMENT.



A. ELECTRIC WINCHES  
B. TOPPING LIFT WIRE  
C. PURCHASE WIRE  
D. LAZY TOPPING LIFT  
E. GUYS,

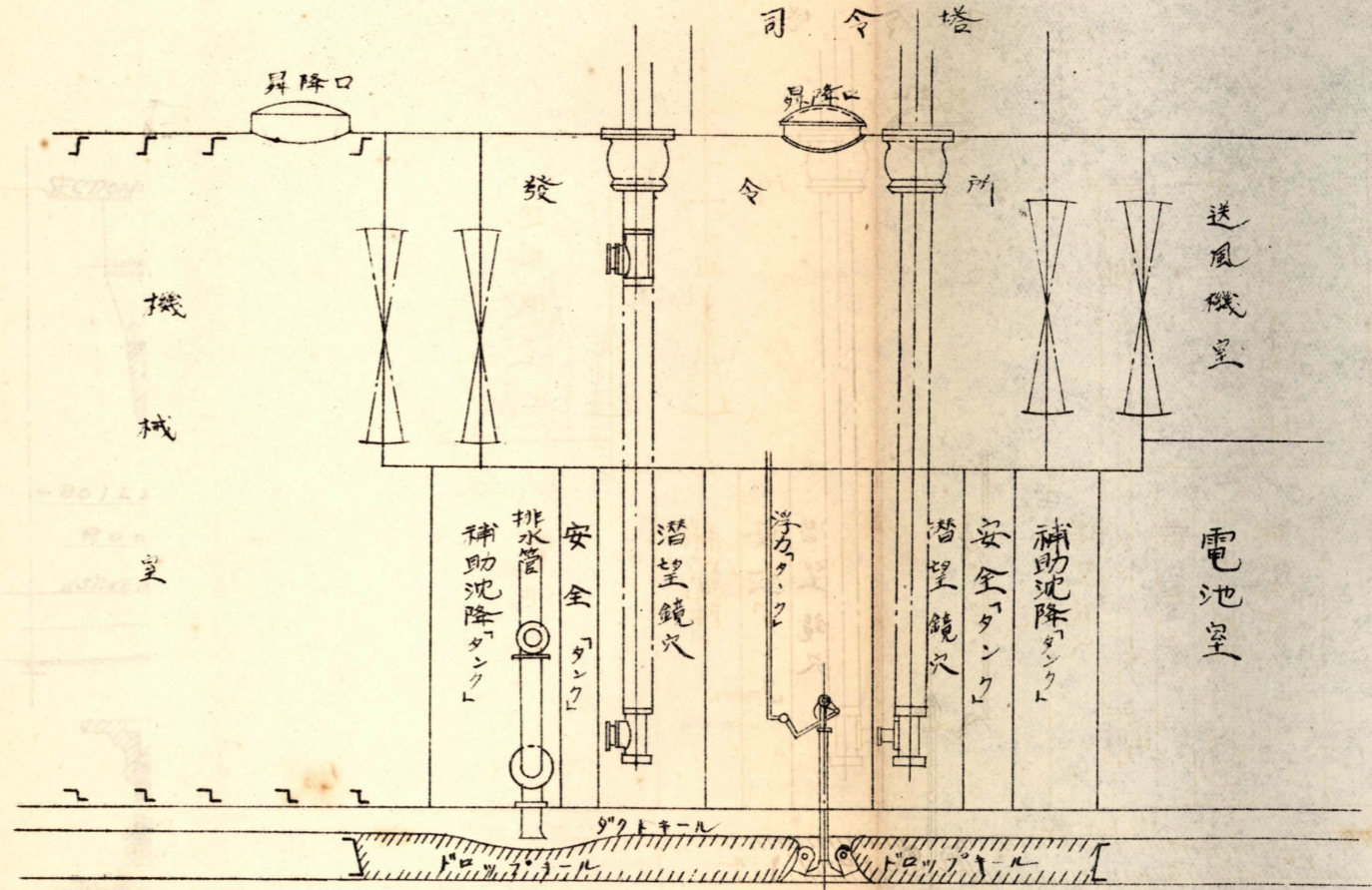
第2圖

BOAT HOISTING ARRANGEMENT.

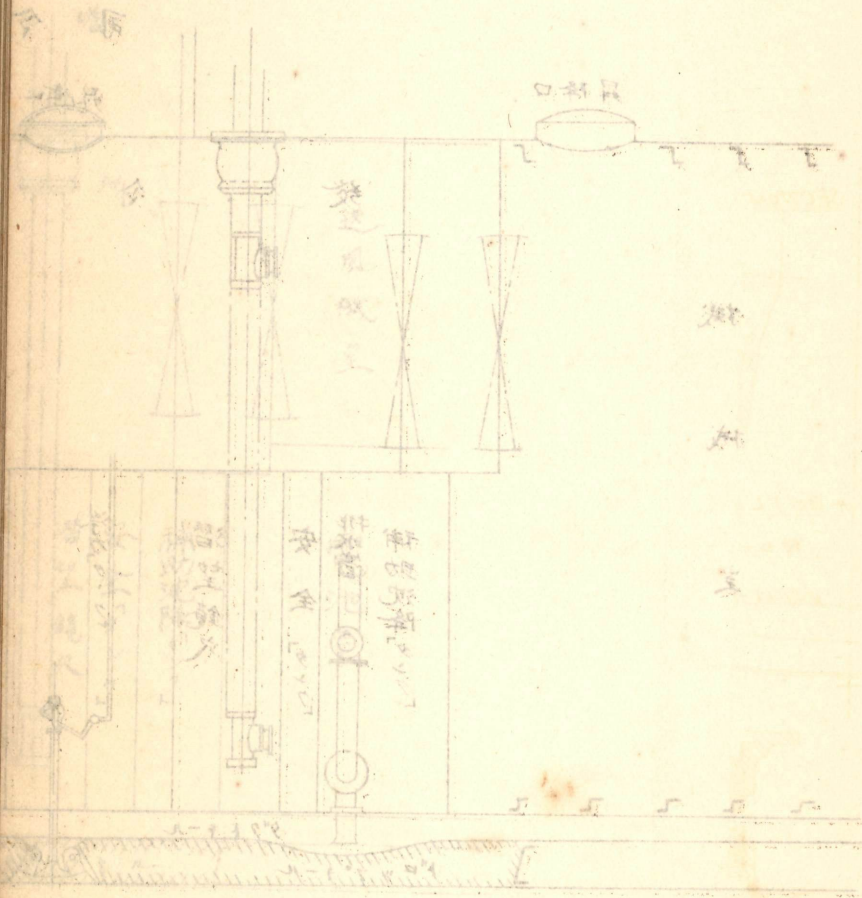


A. ELECTRIC WINCHES  
 B. TOPPING LIFT WIRE  
 C. PURCHASE WIRE  
 D. LIFT TOPPING LIFT  
 E. GUYS

第63圖







Cooling Arrangements.

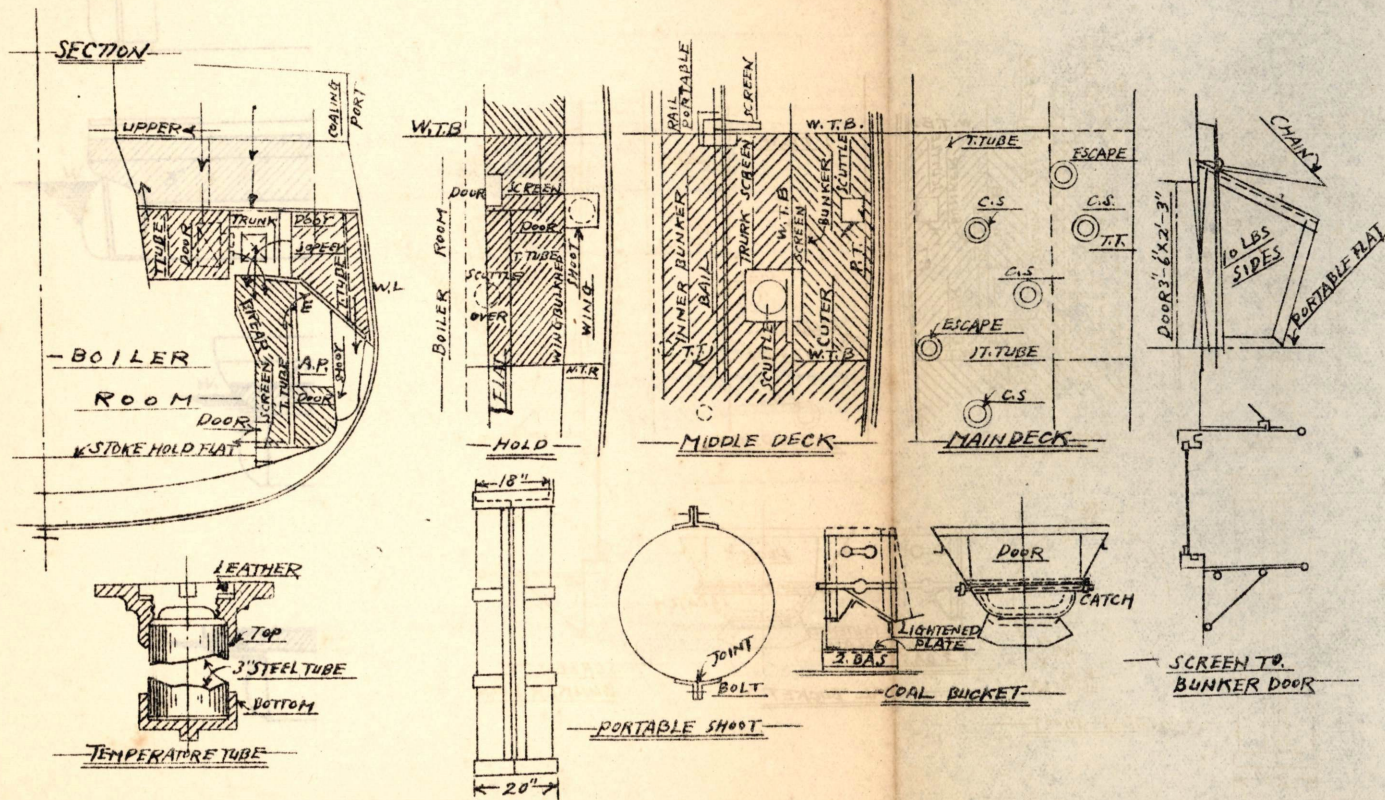
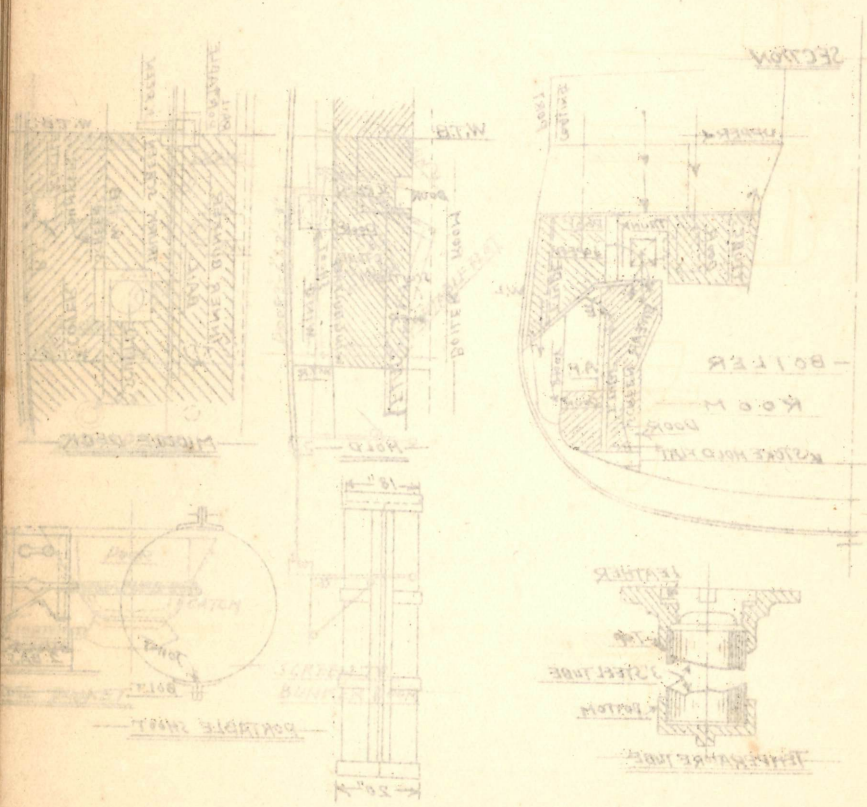


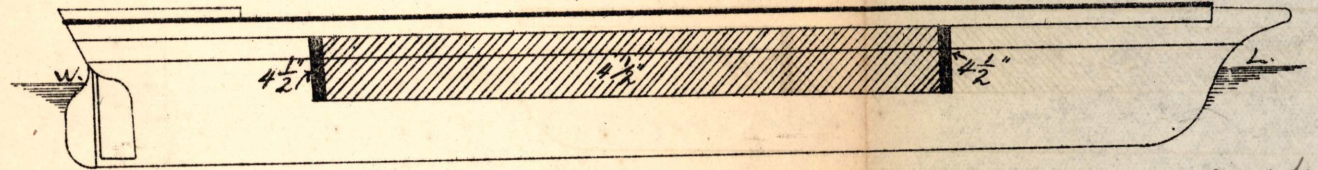
圖 4 第

Cooling Arrangement

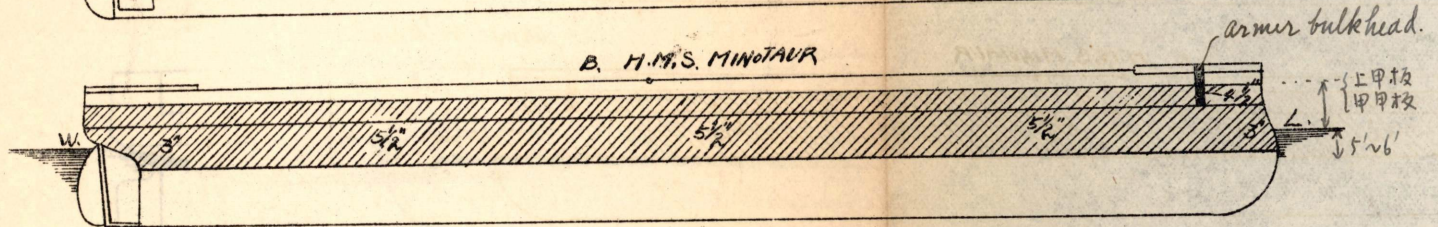


第 65 圖

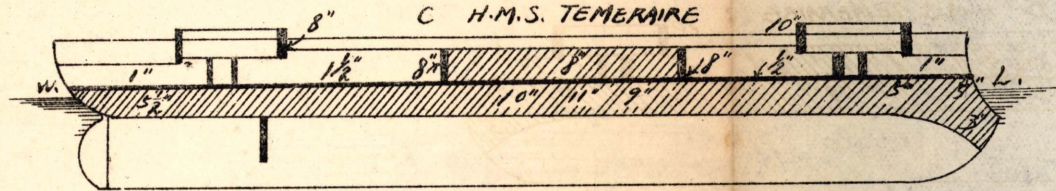
A. H.M.S. WARRIOR.



B. H.M.S. MINOTAUR.



C. H.M.S. TEMERAIRE.



D. H.M.S. DEVASTATION.

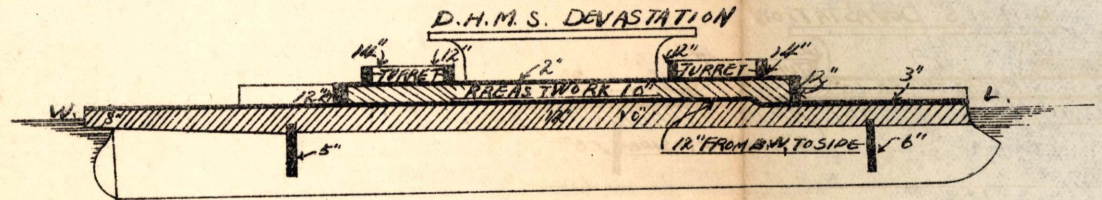
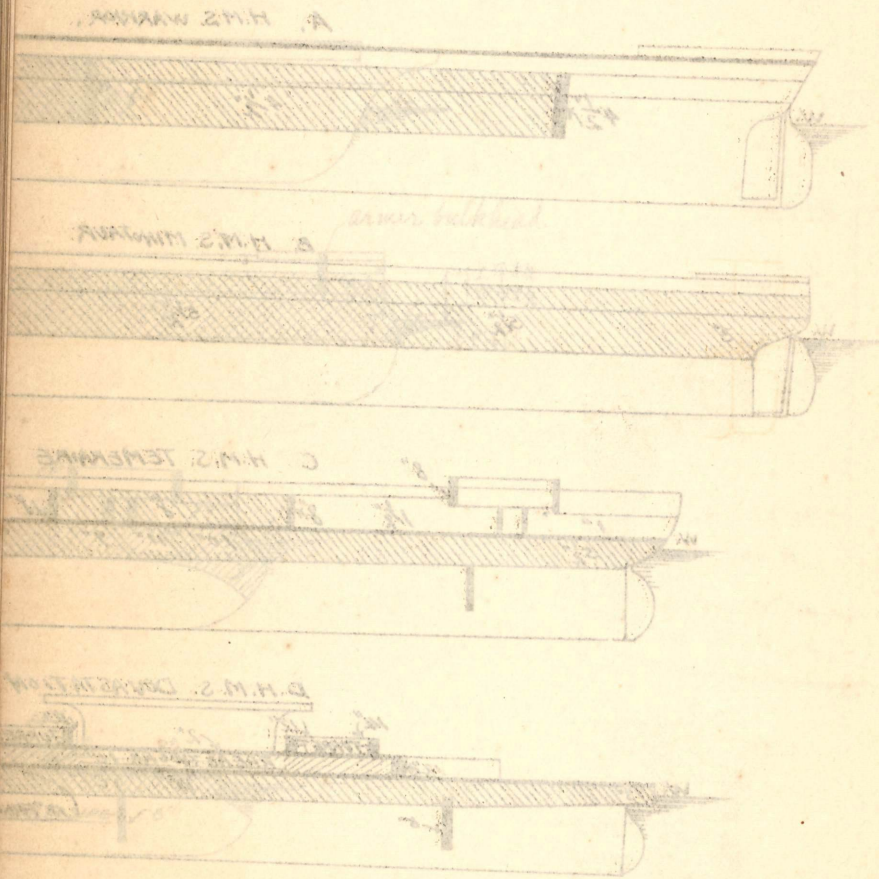


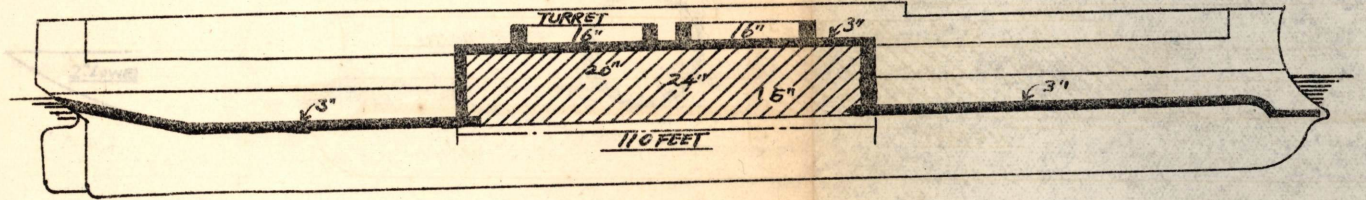
圖 2 號



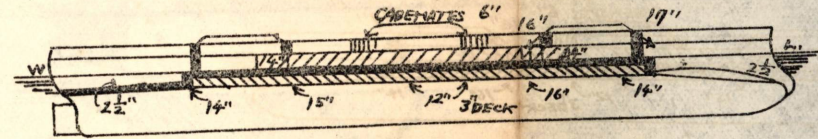
Compound armor.

第 6 6 圖

E. H.M.S. Inflexible

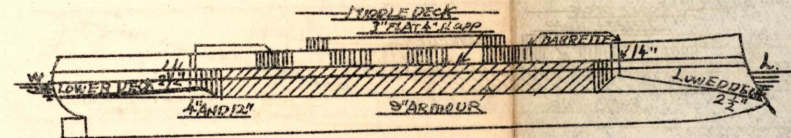


F. H.M.S. Royal Sovereign



G. H.M.S. Majestic

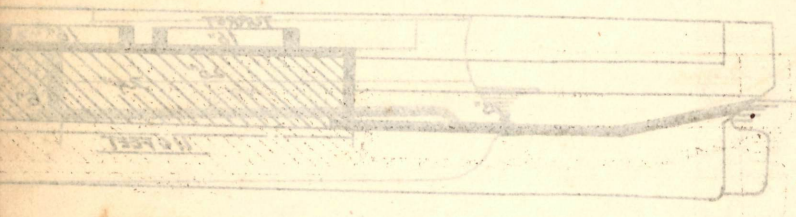
Harveyed armour.



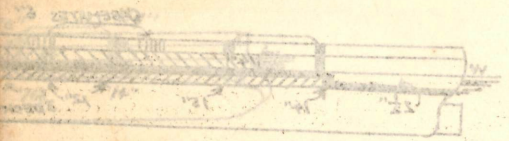
Compassing as per

第 6 号

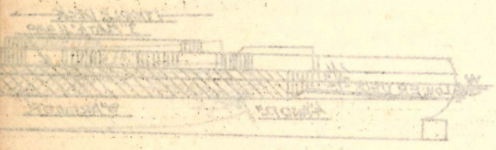
H.M.S. Duncan



H.M.S. King Edward VII

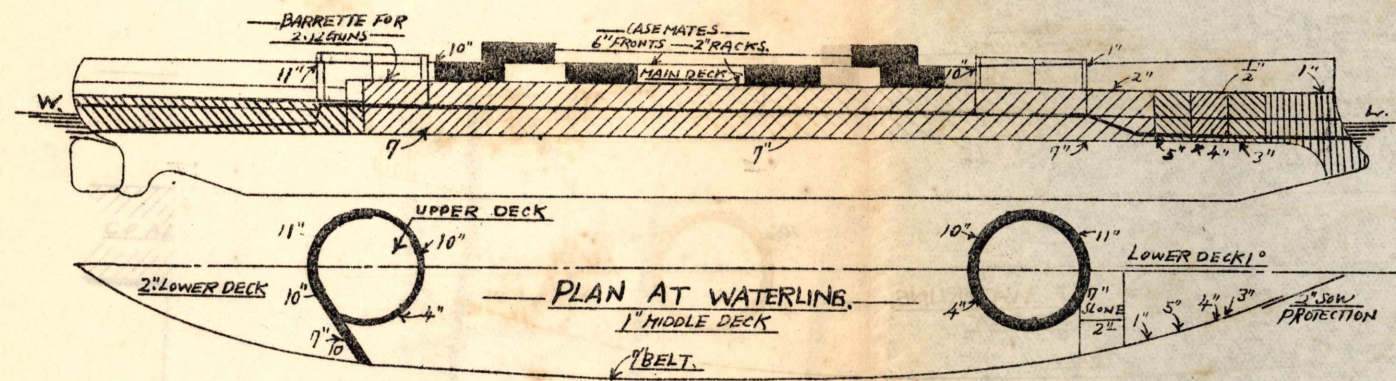


H.M.S. King Edward VII



第 67 号

H. H.M.S. DUNCAN



I. H.M.S. KING EDWARD VII

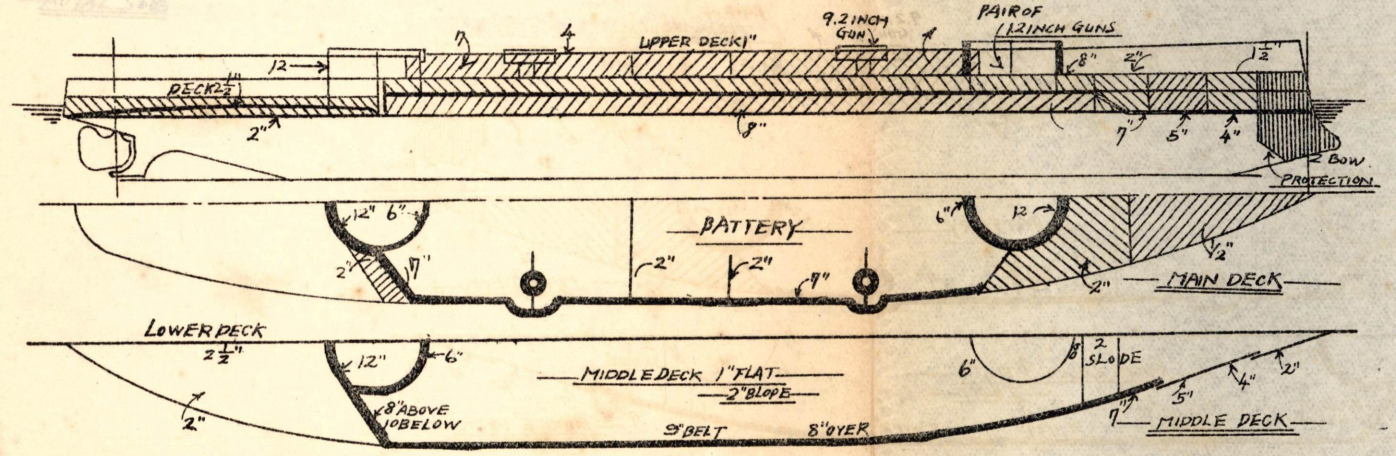
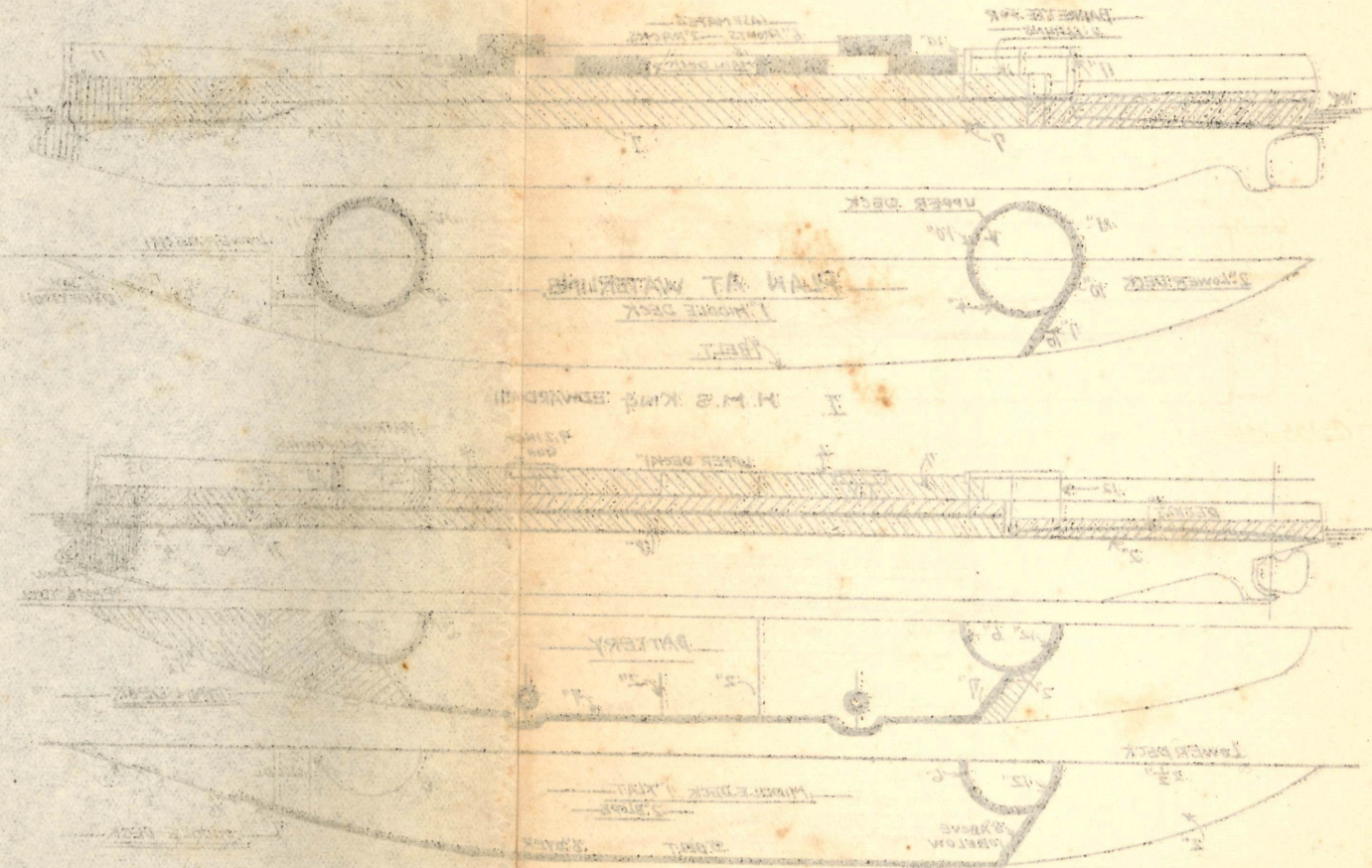


圖 71 第

第 71 圖

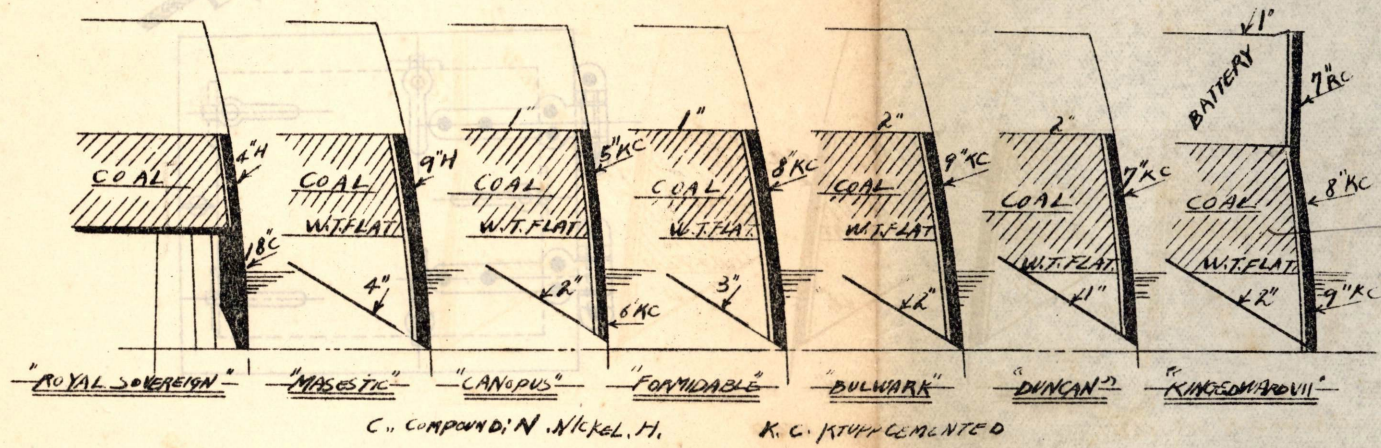


第 70 圖

ARMOUR HATCH DOOR

第 68 圖

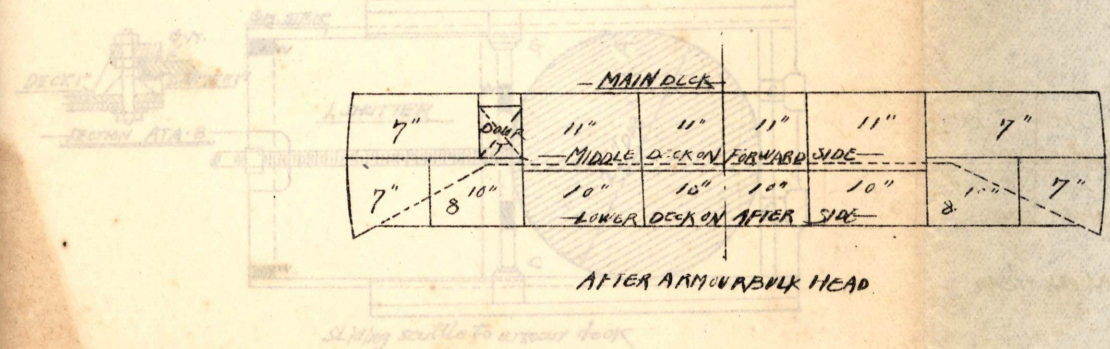
SIDE ARMOUR PROJECTION OF BATTLE SHIPS



Coal の 防禦 利用 する

第 71 圖

第 69 圖



68

图 82 第

SIDE ARMOR PROTECTION  
OF BATTLE SHIPS

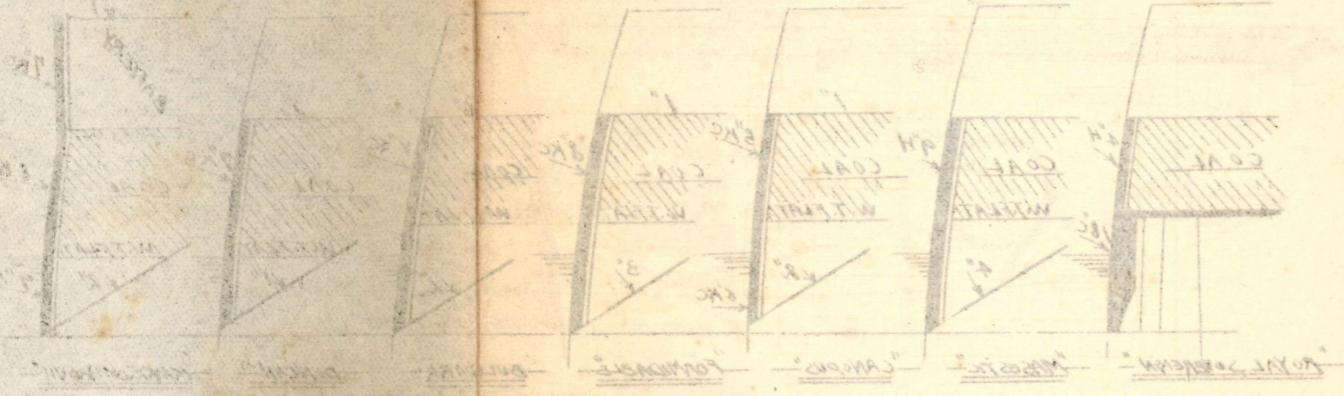
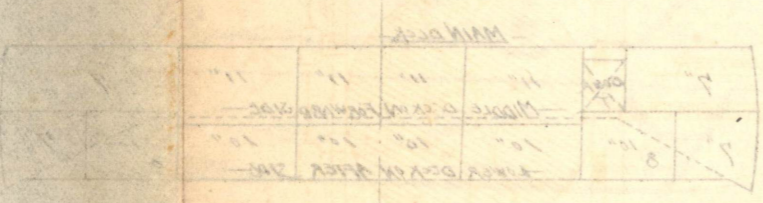
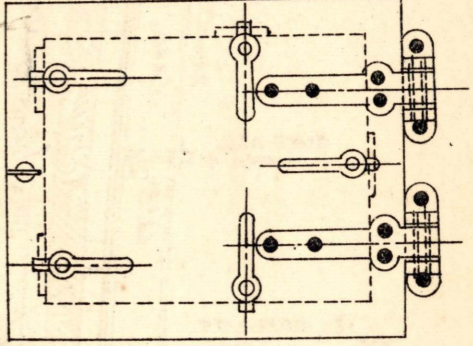
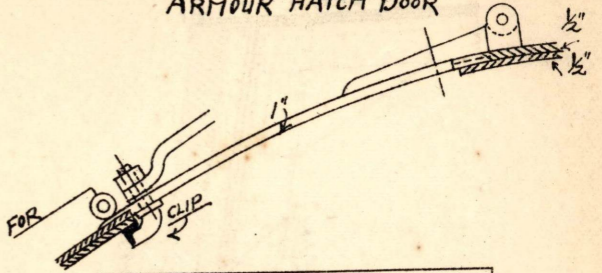


图 P1 第

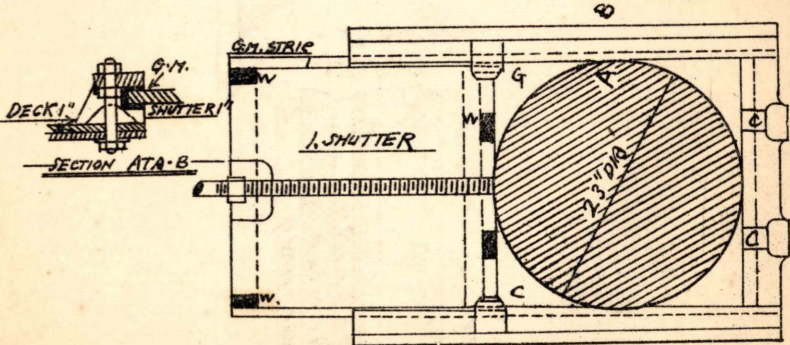


第 70 图

ARMOUR HATCH DOOR

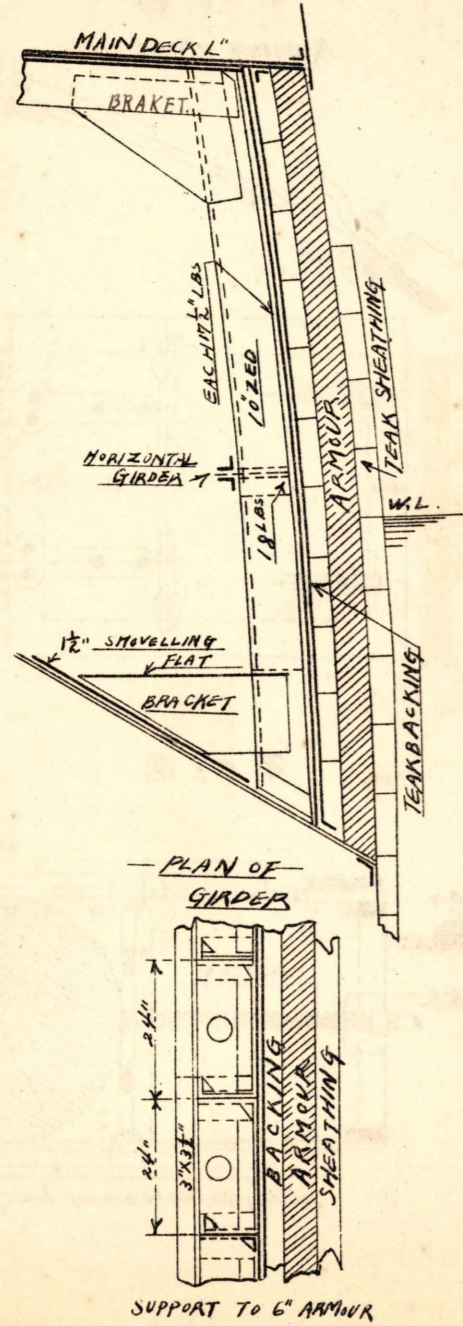


第 71 图

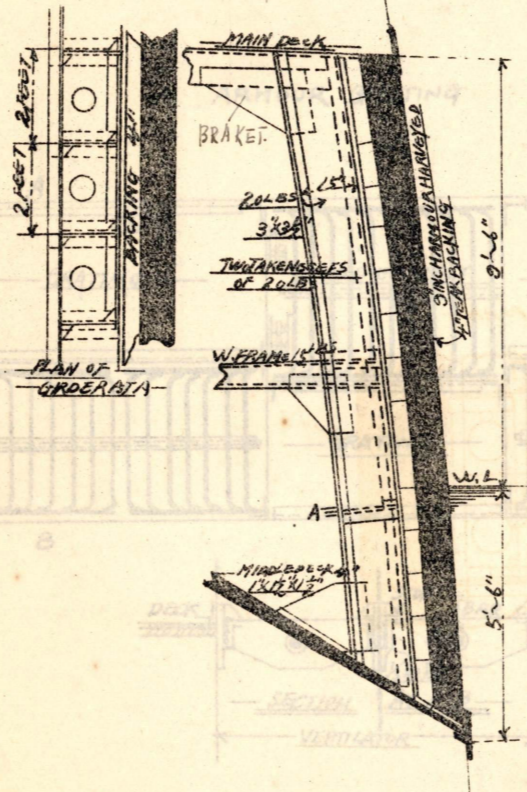


Sliding scuttle to armour deck

第72圖  
SHEATHING  
OF SHIP

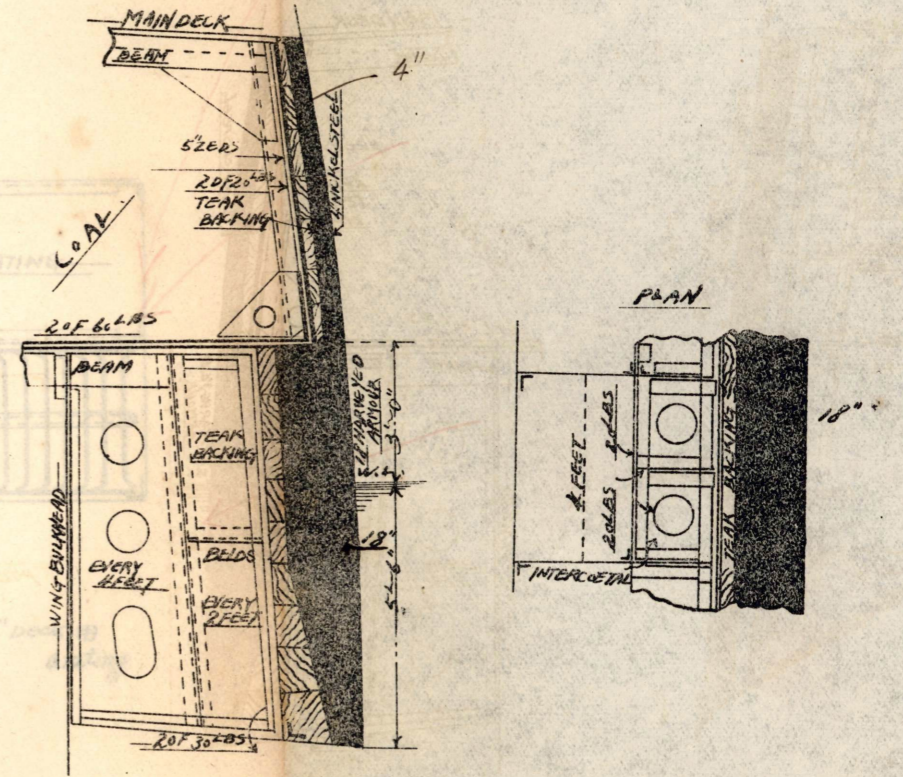


第73圖



第74圖

SIDE ARMOUR PROTECTION  
OF BATTLESHIP



第 7 十 四

圖 3 第 第

SIDE ARMOUR PROTECT  
OF BATTLESHIP

MAIN DECK

2000

1500

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

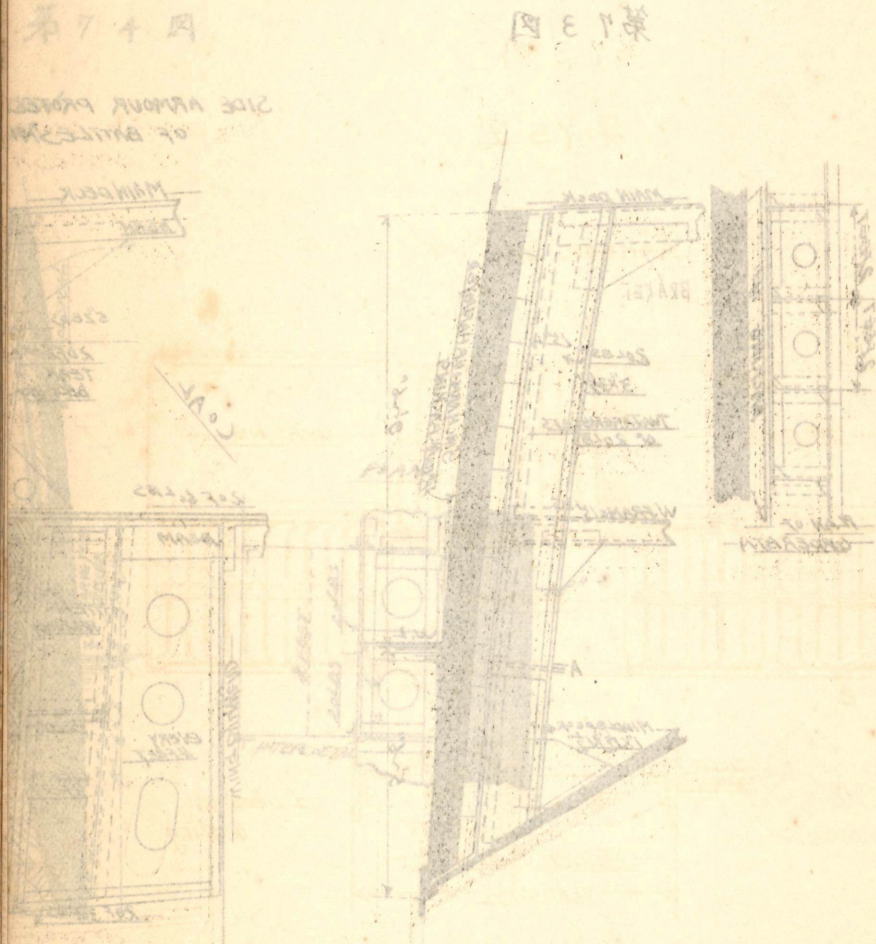
1000

1000

1000

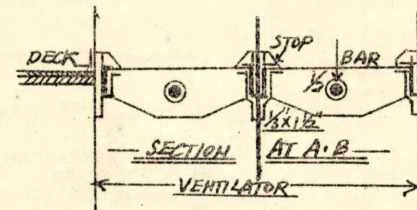
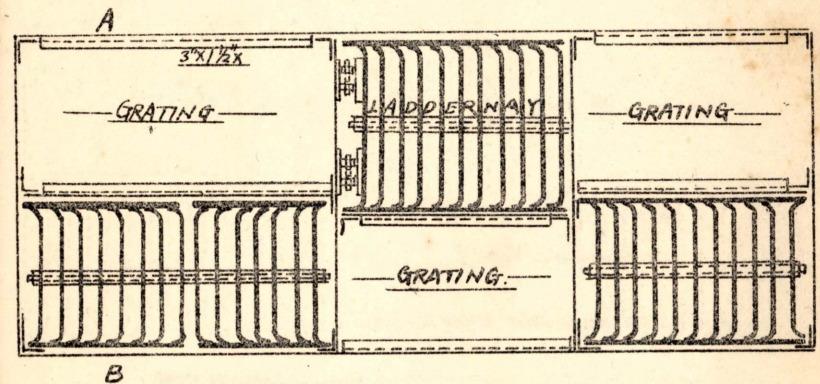
1000

1000



第 7 5 圖

ARMOUR GRATING

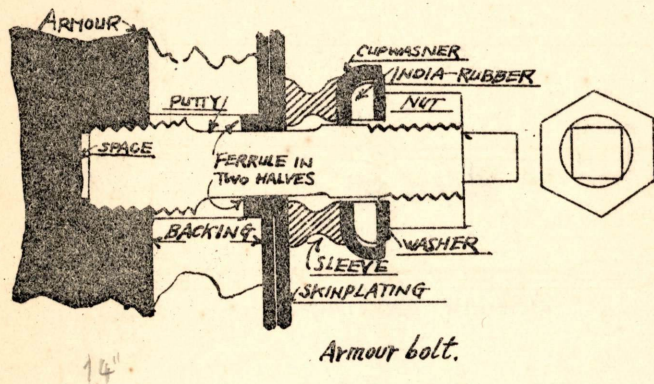


2" deck 用  
grating



第76回

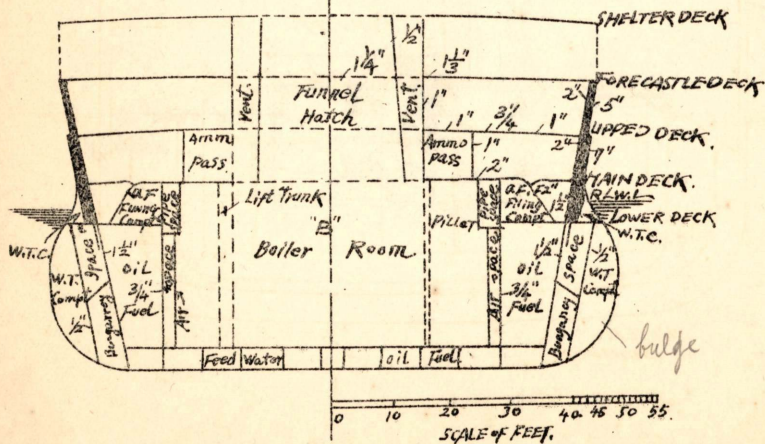
ARMOUR BOLT (OLD TYPE)



第76回

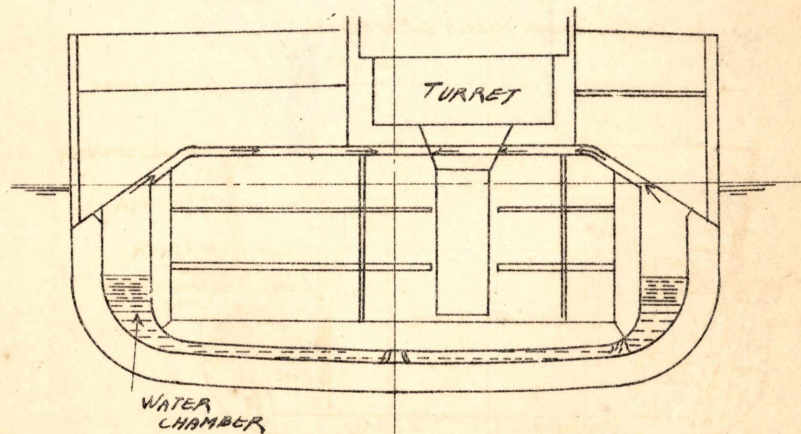
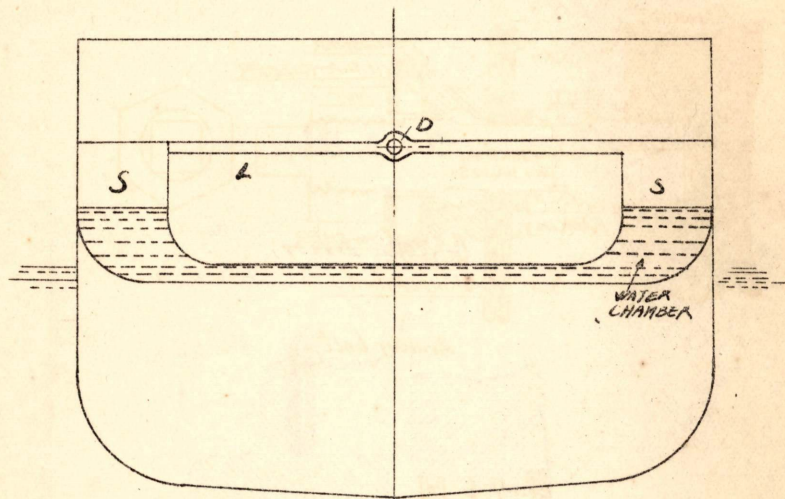
H.M.S. "HOOD"  
(41200 tons)

Section through Middle Boiler Room

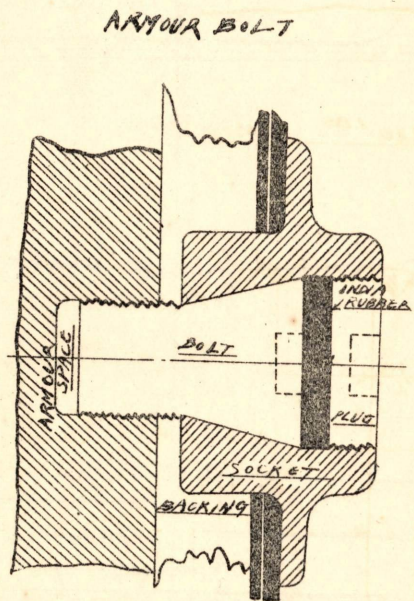


第77回

ANTI-ROLLING TANK



第78圖



第79圖

BOLT FOR 320 LBS. BELT ARMOUR

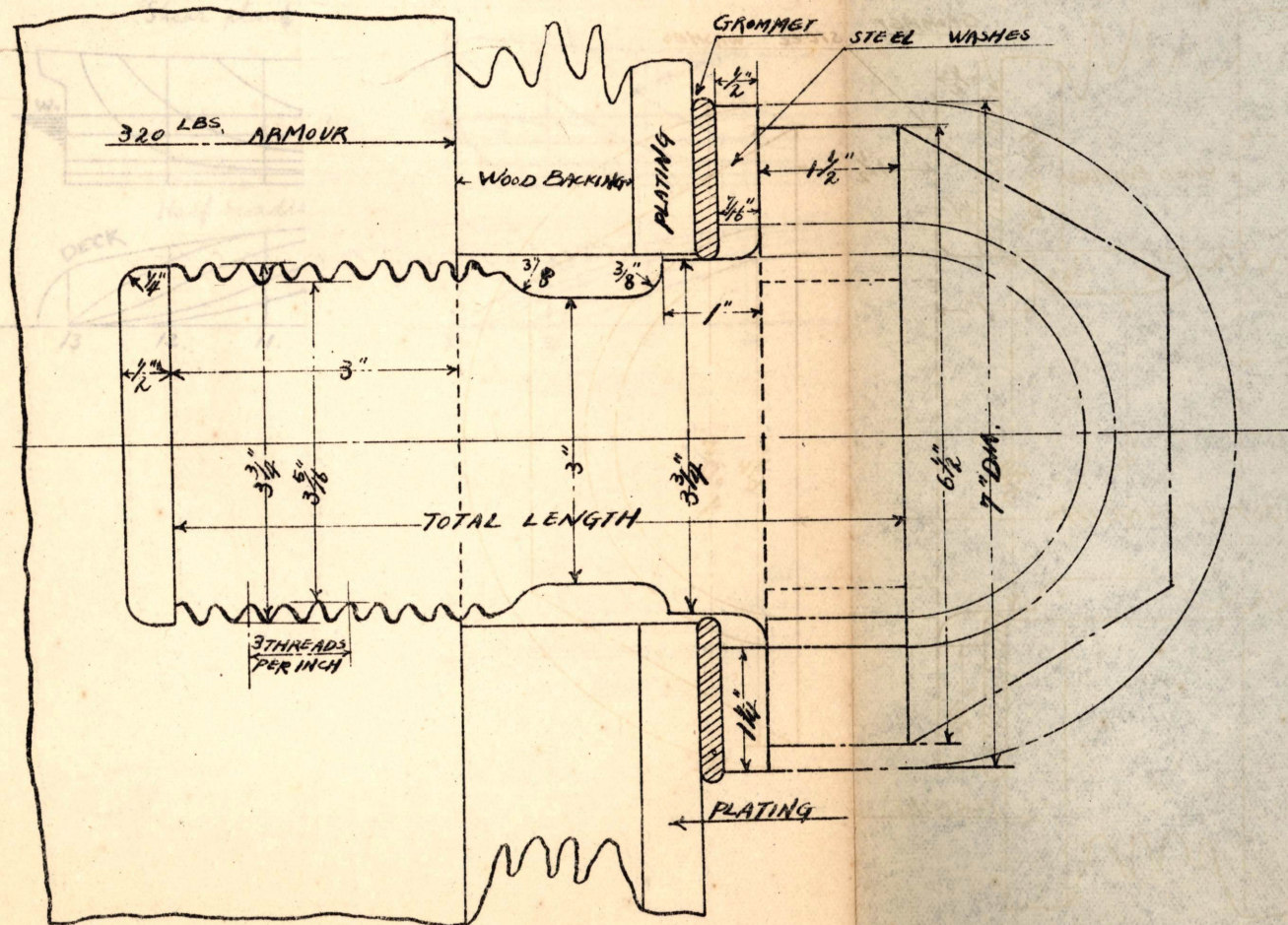
IN WAY OF WOOD BACKING

SECTION

FOR

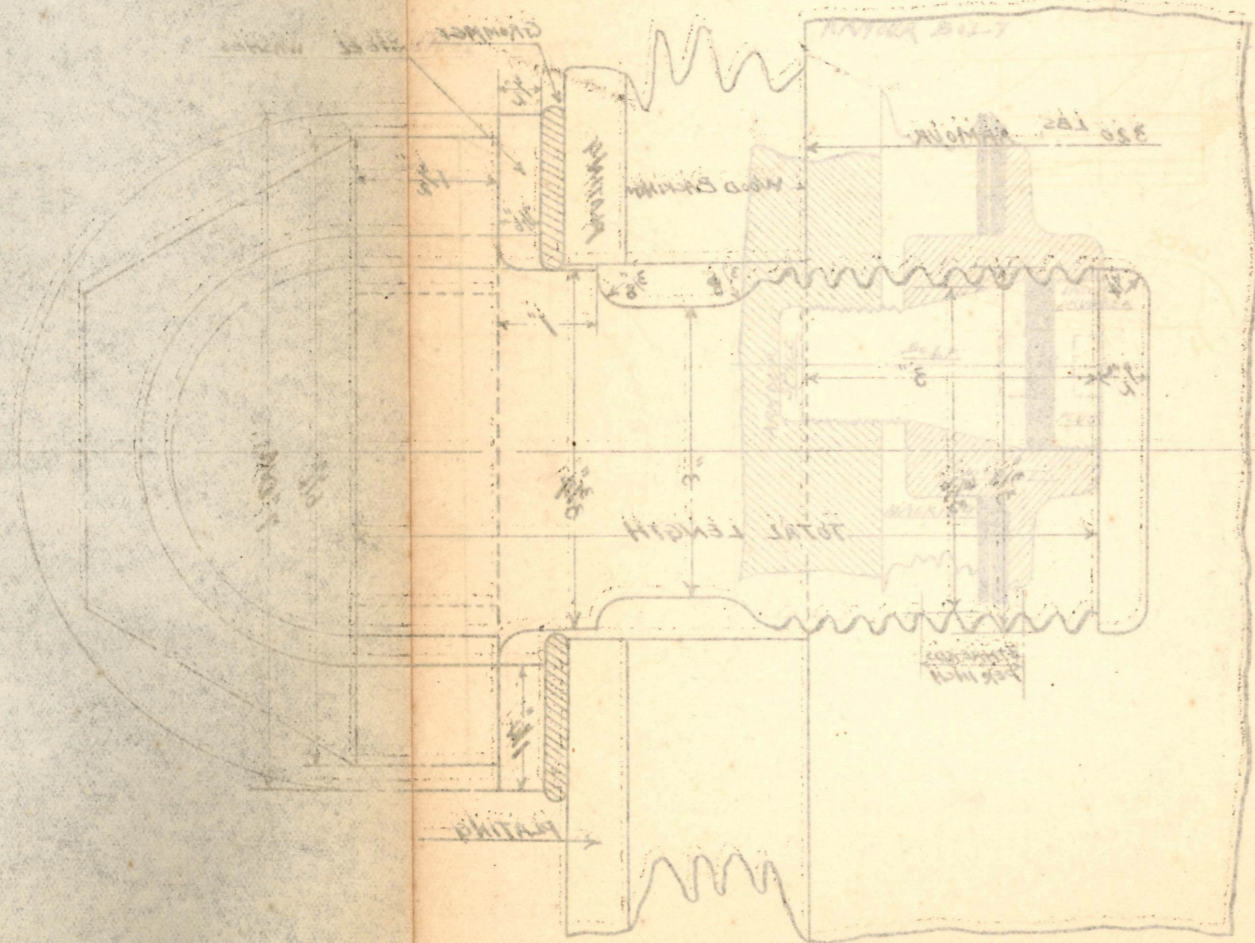
MODERN BATTLESHIP

SCALE 6"=1 FT.

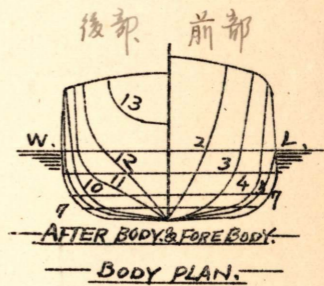
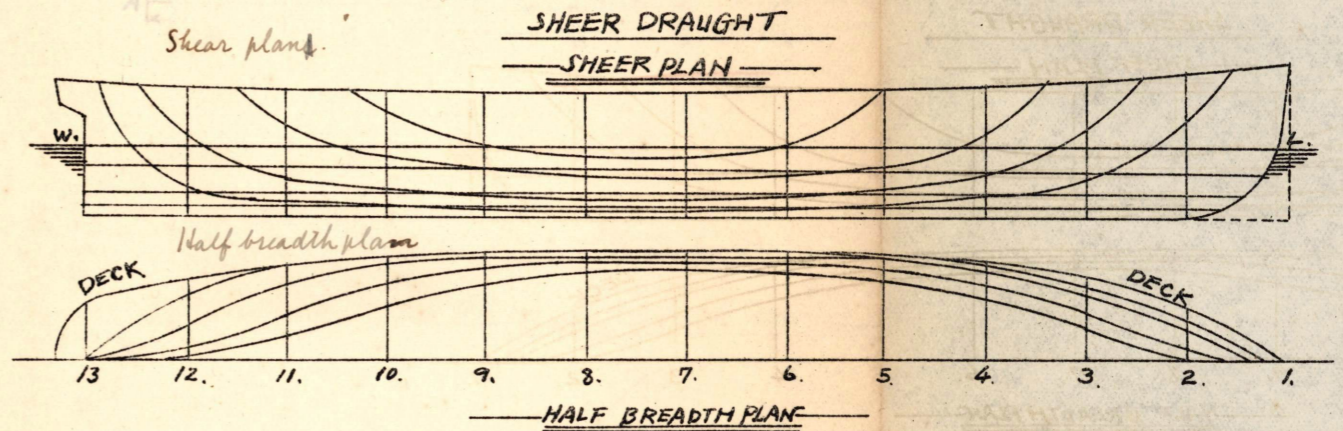


第79圖

BOAT FOR 350 LBS. BELT ARMOUR  
 IN WAY OF WOOD SKIN  
 SECTION  
 FOR  
 MOUNTING MACHINERY  
 78 圖 第 78 號 船 之 圖



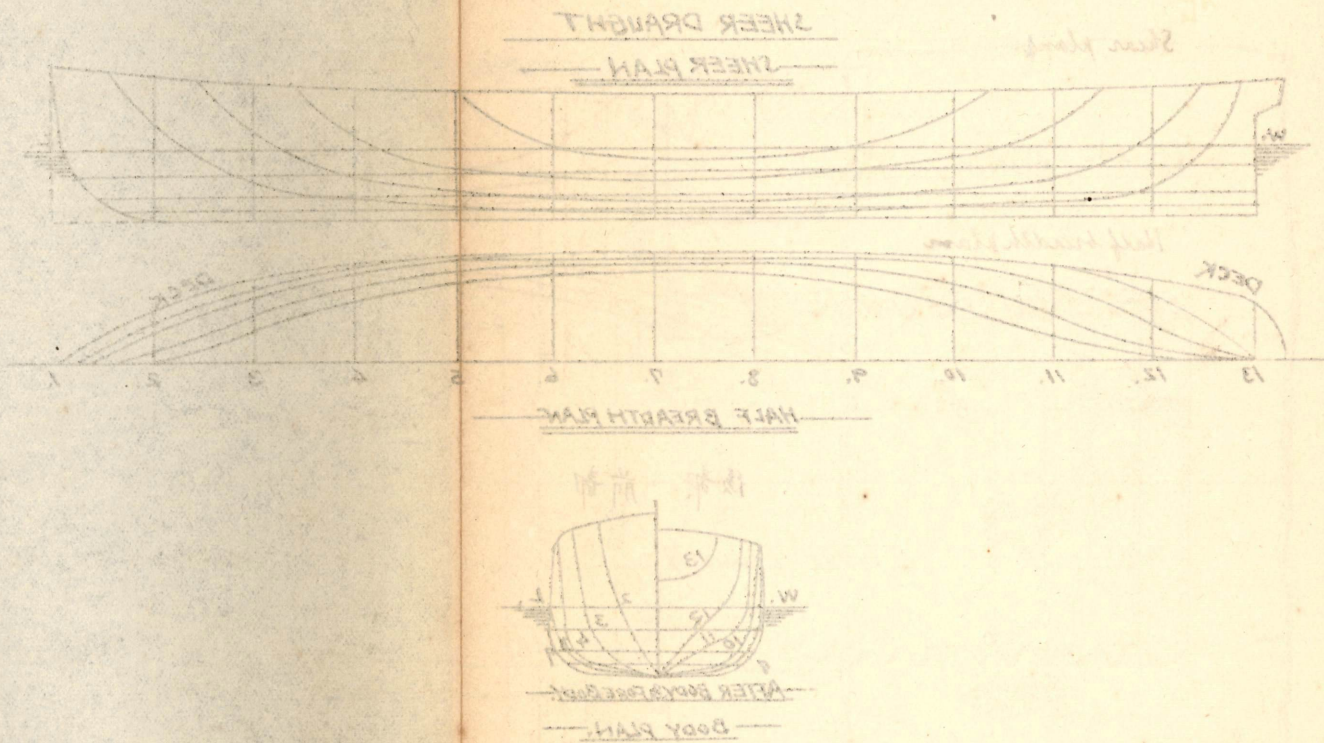
第80圖



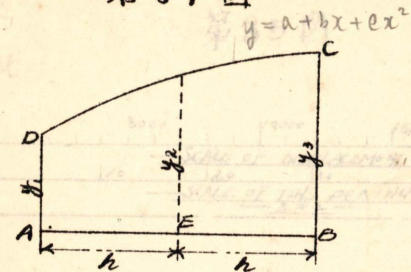
外板 thickness 7/16 吋



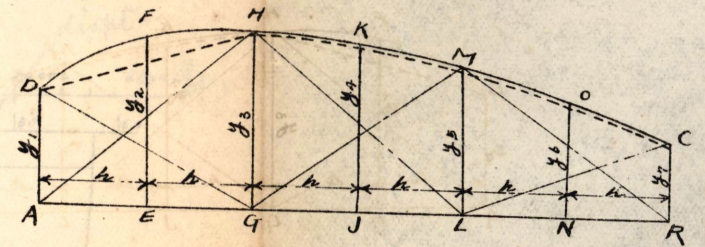
第80圖



第81圖

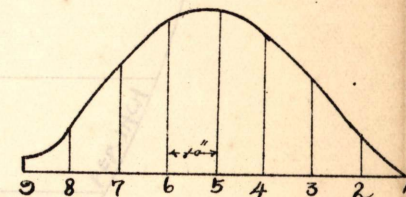


第82圖

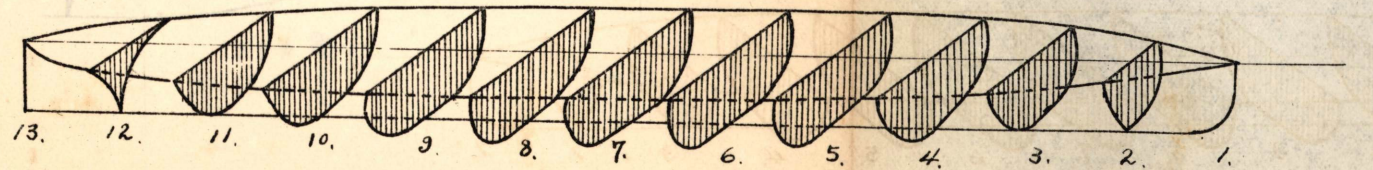


第83圖

CURVE OF SECTIONAL AREAS



第84圖



81  
82  
83  
84

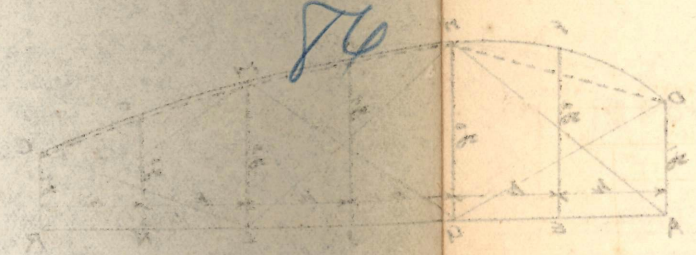


图 18 第

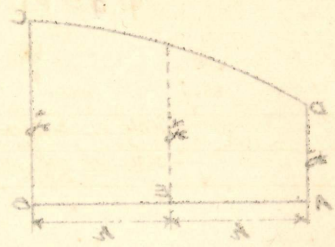


图 28 第

Curve of Section Areas

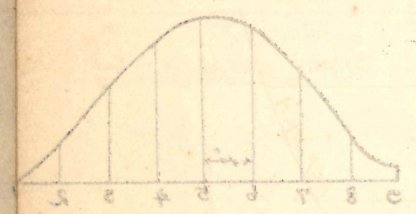
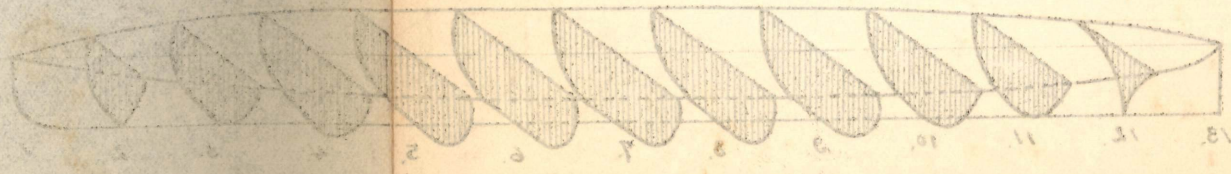


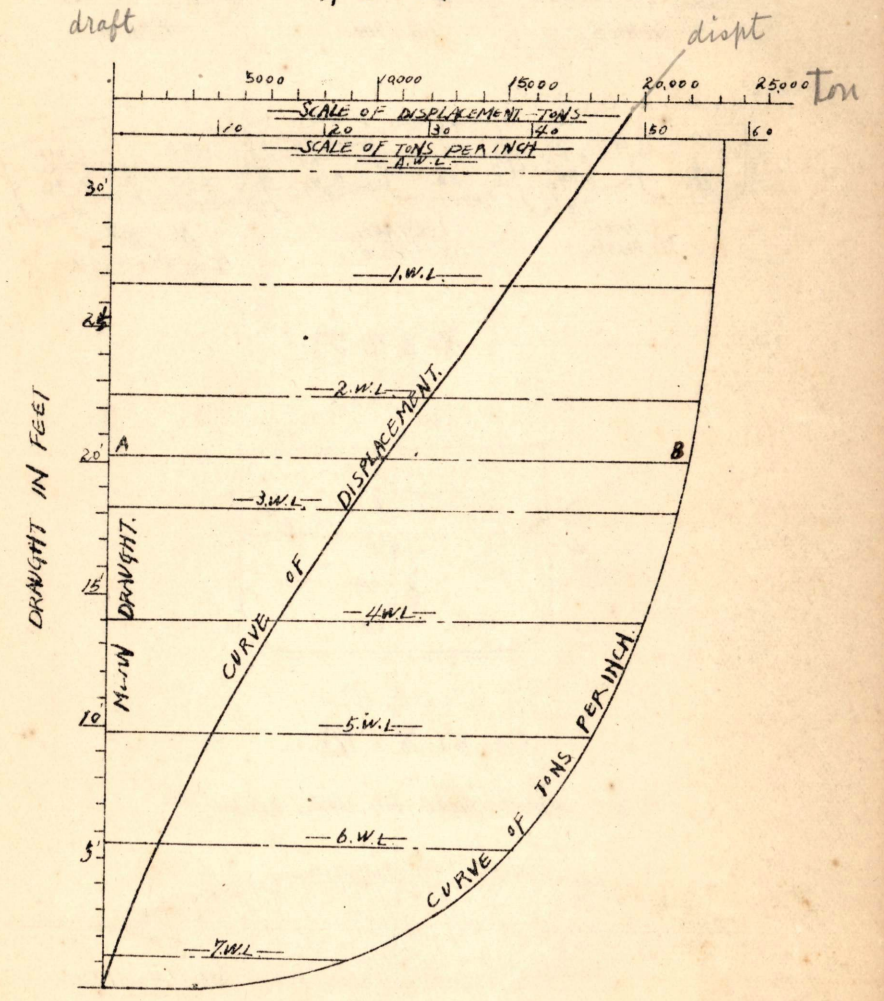
图 48 第



85

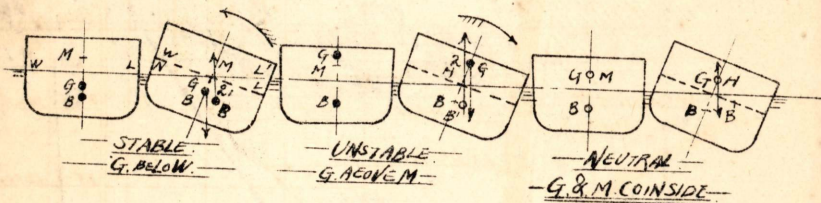
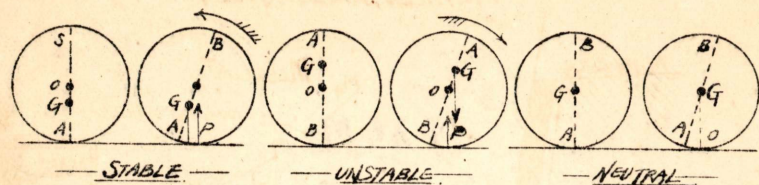
第 85 图

平均吃水  
draft

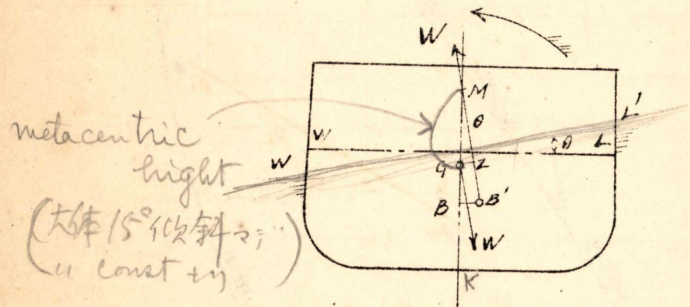


平均吃水

第 86 图

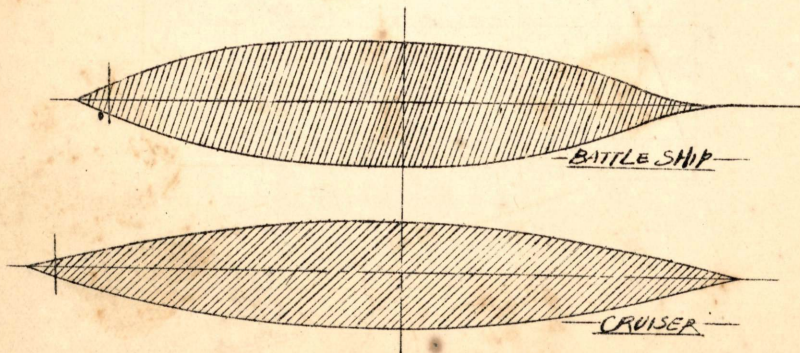


第 87 图



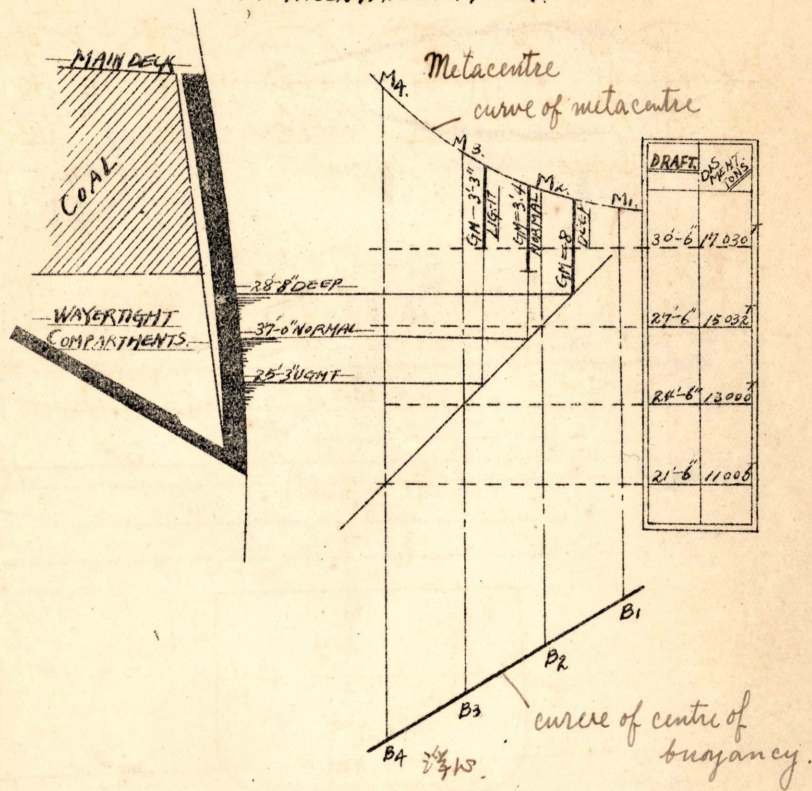
第 88 图

SHAPES OF LOAD DWATER PLANE.



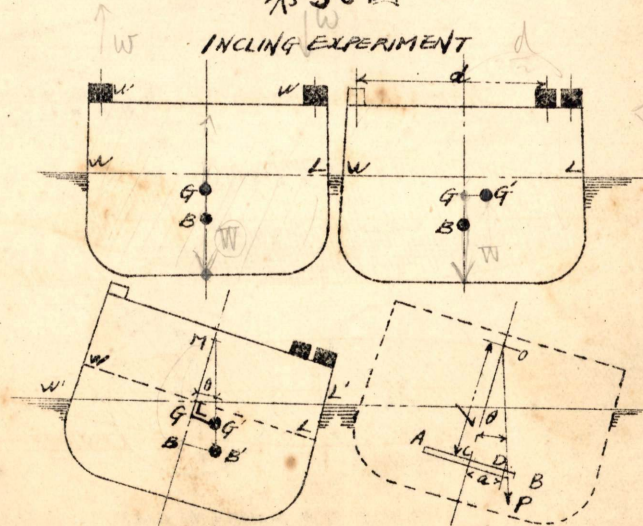
第 89 图

METACENTRIC DIAGRAM.

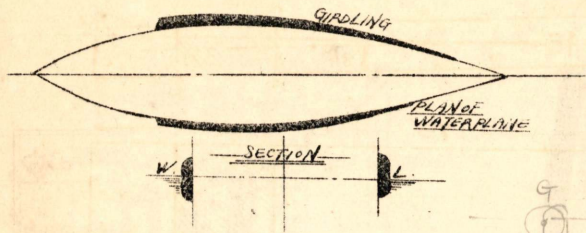


第 90 图

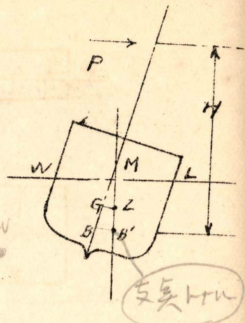
INCLING EXPERIMENT



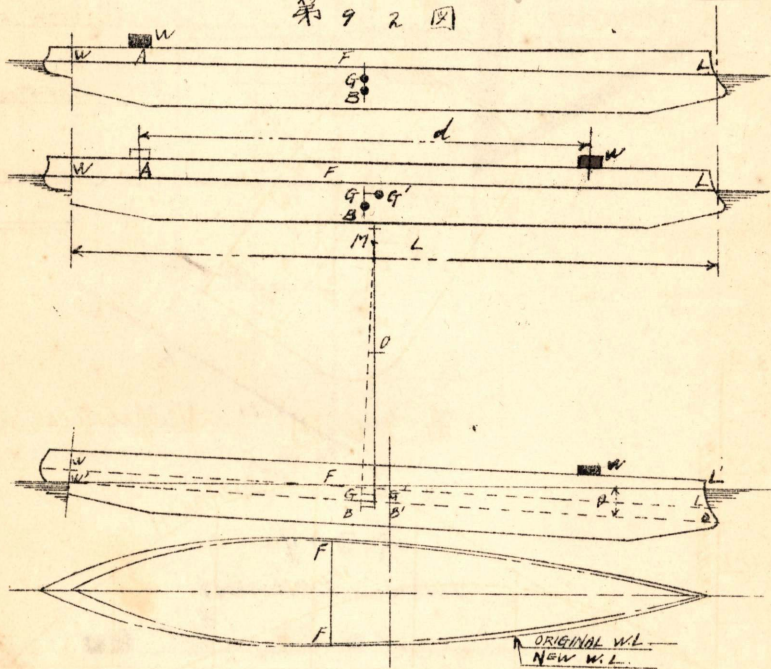
第91图



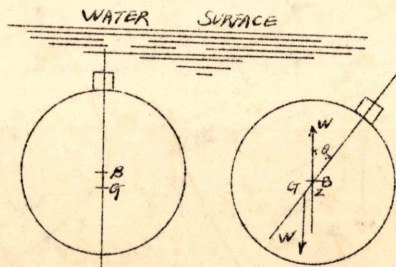
第91图 (B)



第92图

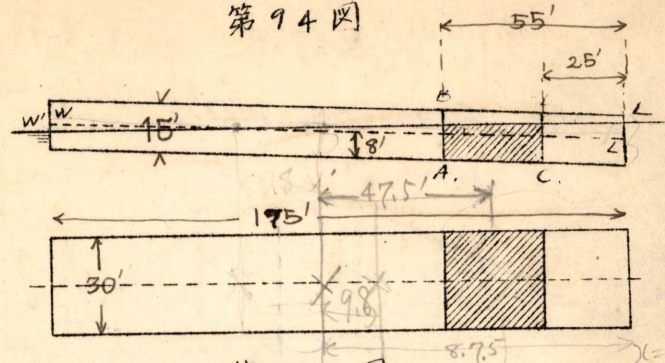


第93图

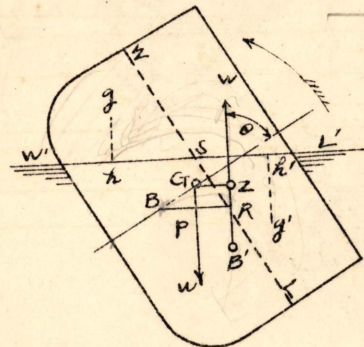


STABILITY OF A SUBMARINE BOAT

第94图

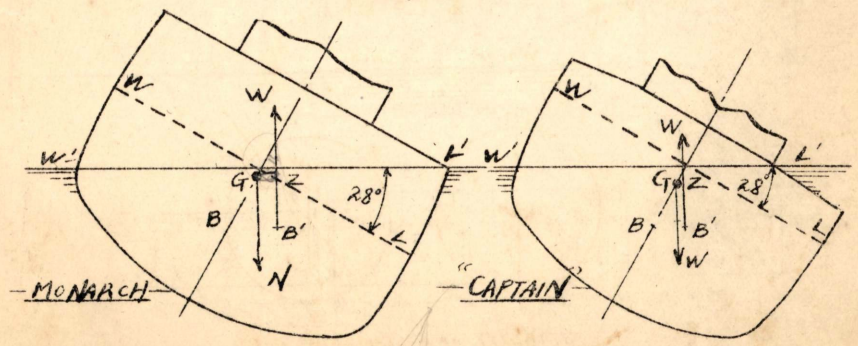
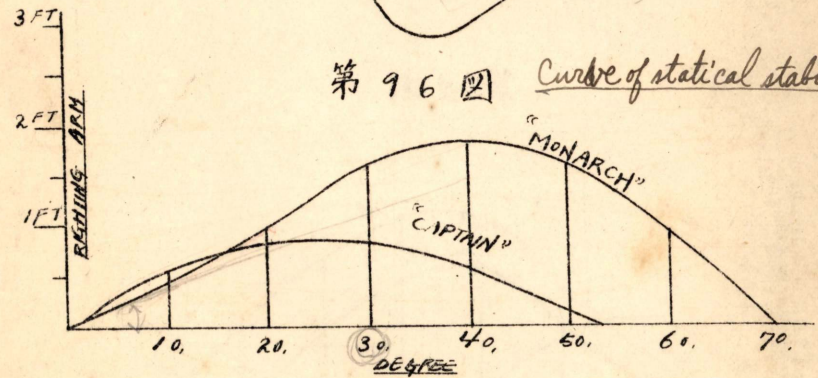


第95图



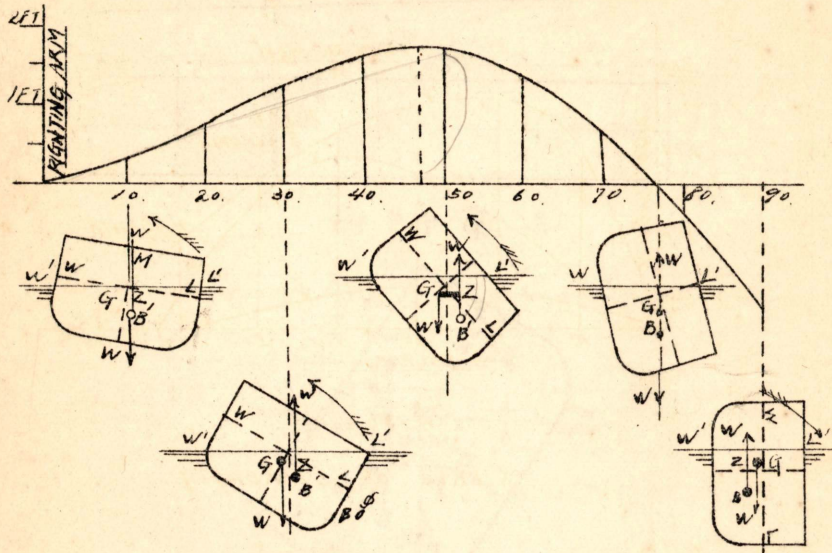
Handwritten calculations and notes:  
 $195 \times 30 \times 9$   
 $31 \times 30$   
 $x = 47.5$   
 $30 \times 10 = 191 \times 30.5$

第96图 Curve of statical stability.

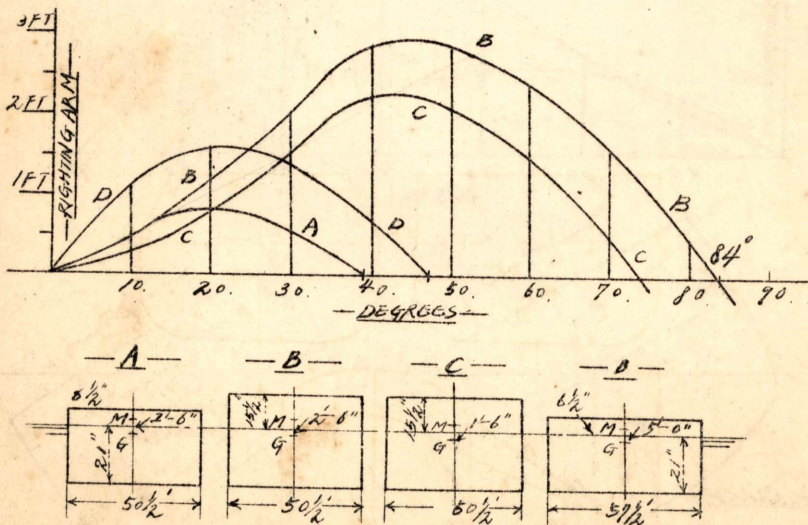


第97图

CURVE OF STABILITY.

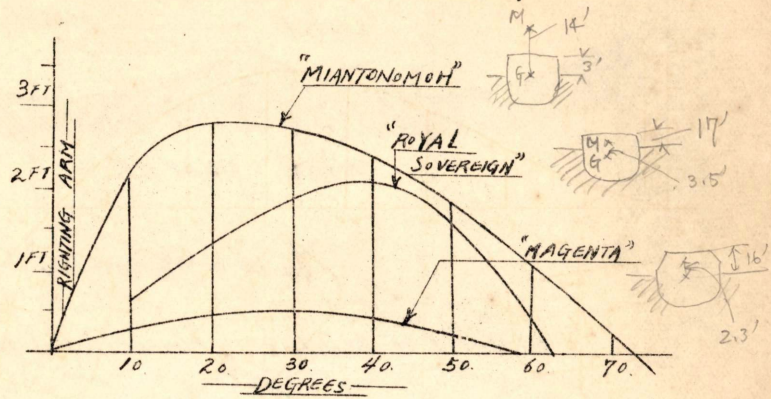


第98图



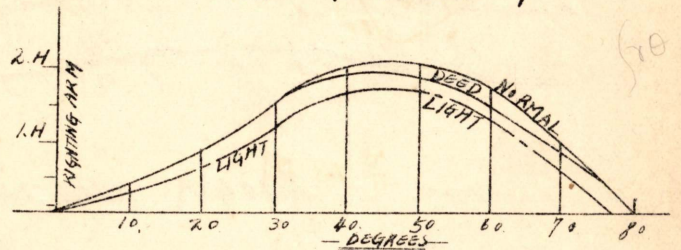
第99图

CURVE OF STABILITY

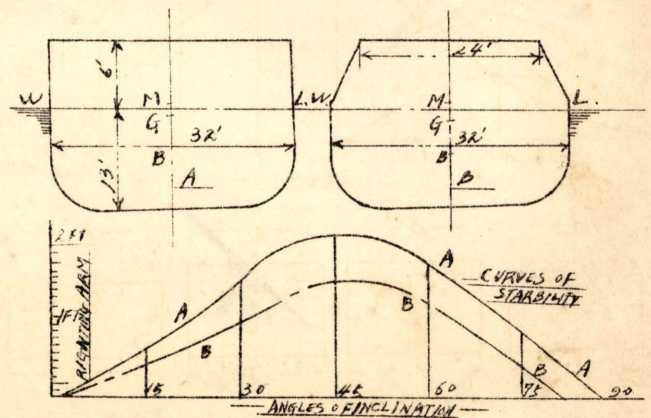


第100图

CURVE OF STABILITY

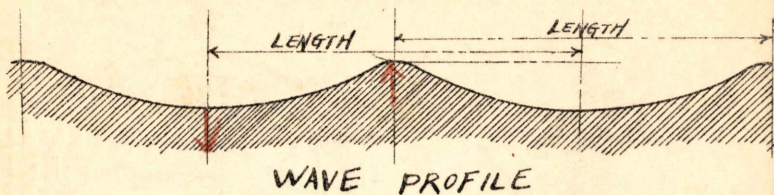


第101图

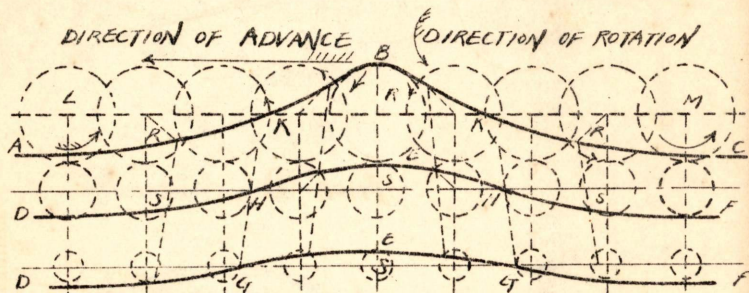




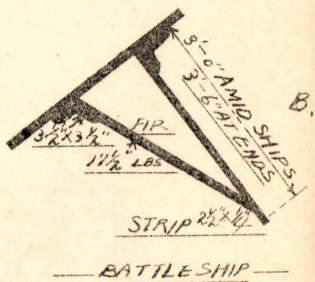
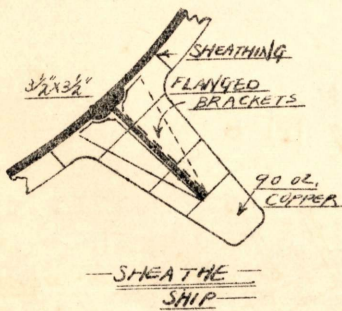
第102图



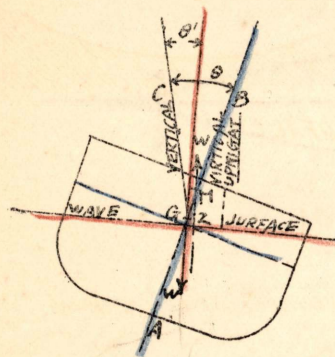
第103图



第104图 BILGE KEEL

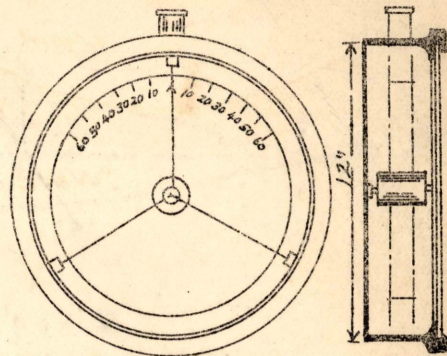


第105图

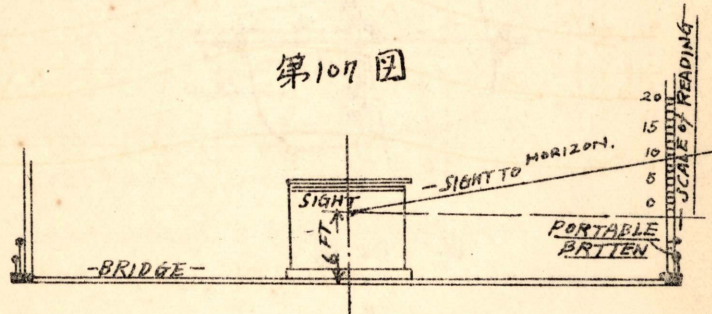


Mollock's rolling indicator.

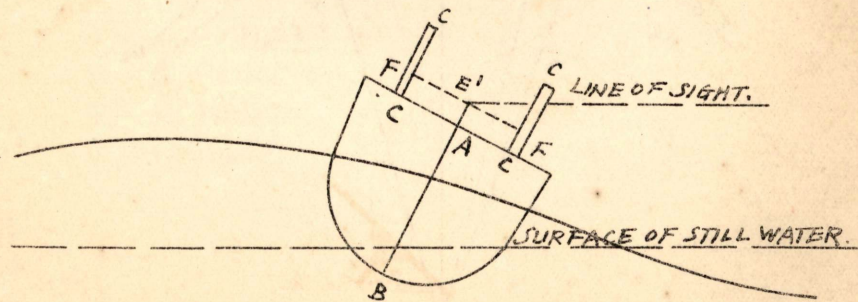
第106图



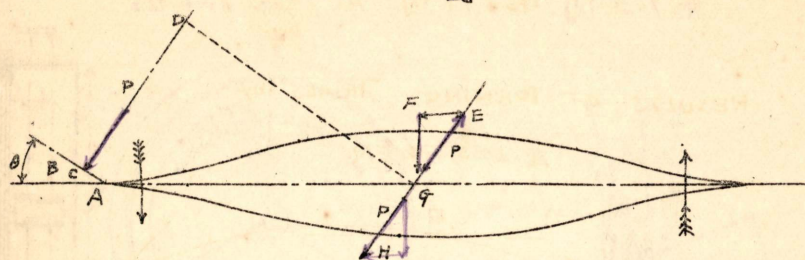
第107图



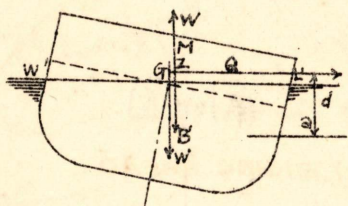
第107图 B



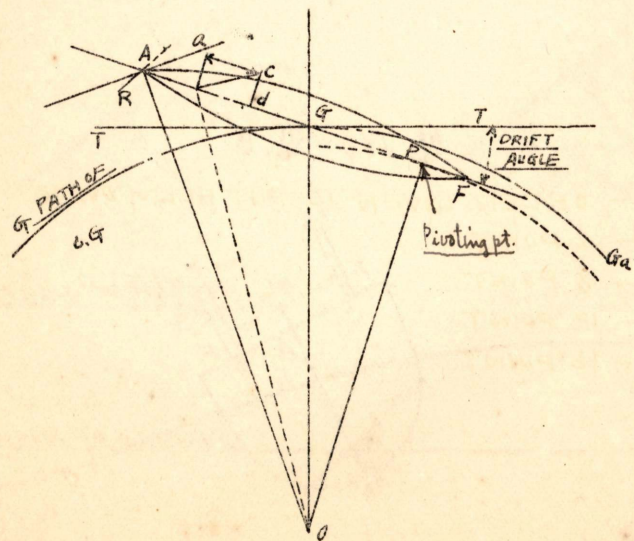
第108图



第109图

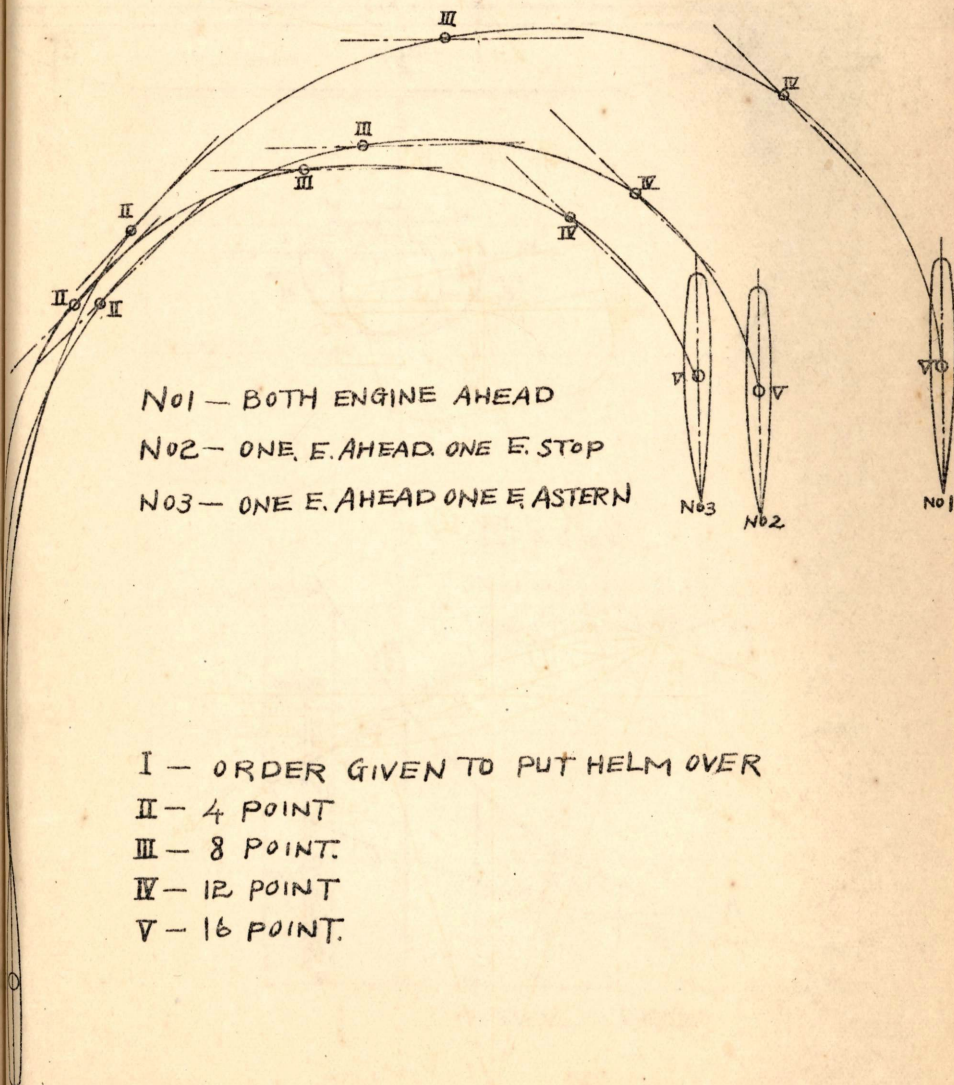


第110图

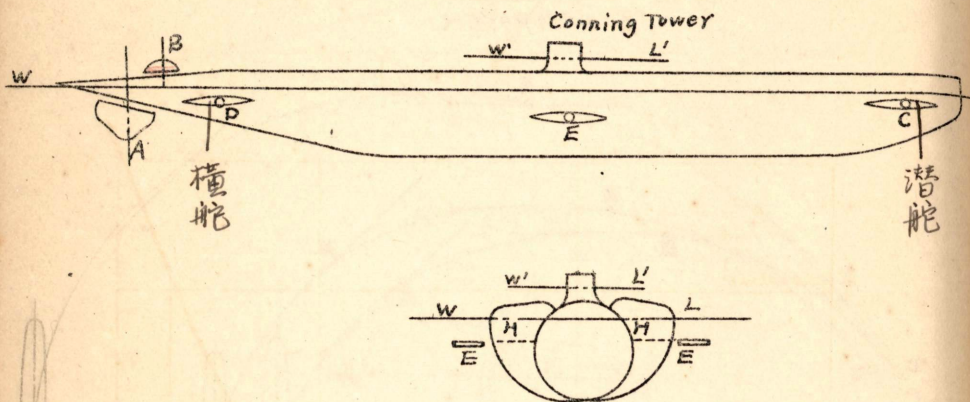


第111图 A

RESULTS OF TURNING TRIALS OF  
A DESTROYER

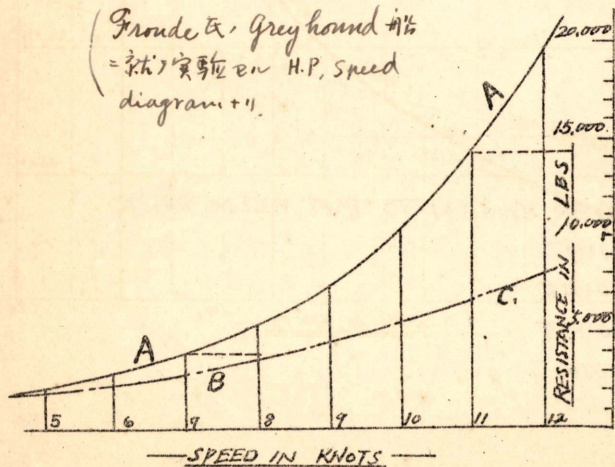


第111图 B



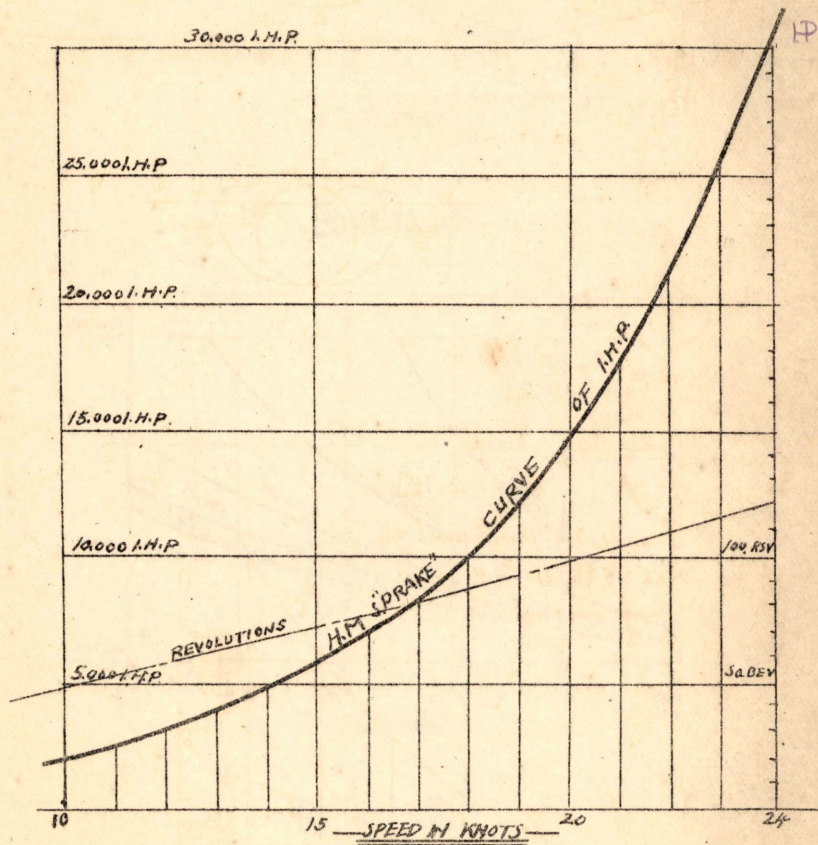
第112图

(Fronde & Greyhound 船  
= 就实验 on H.P. speed  
diagram + 1)

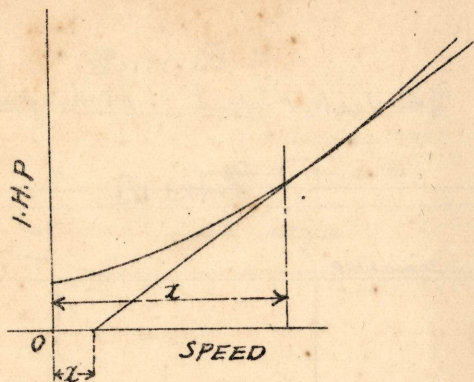


军舰 Drake / Speed. I.H.P. diagram

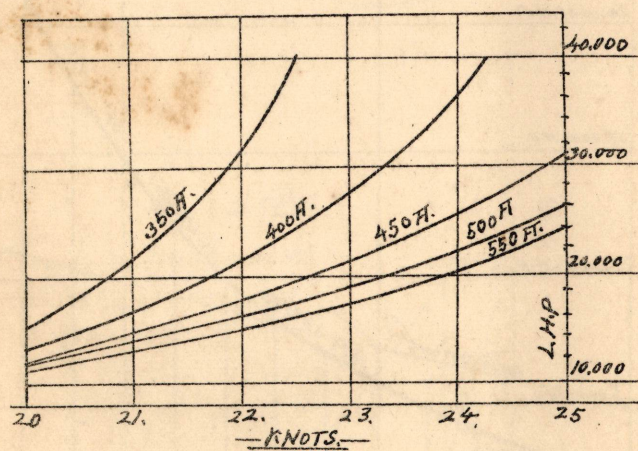
第113图



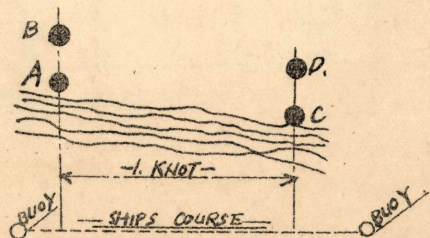
第114图



第115图



第116图



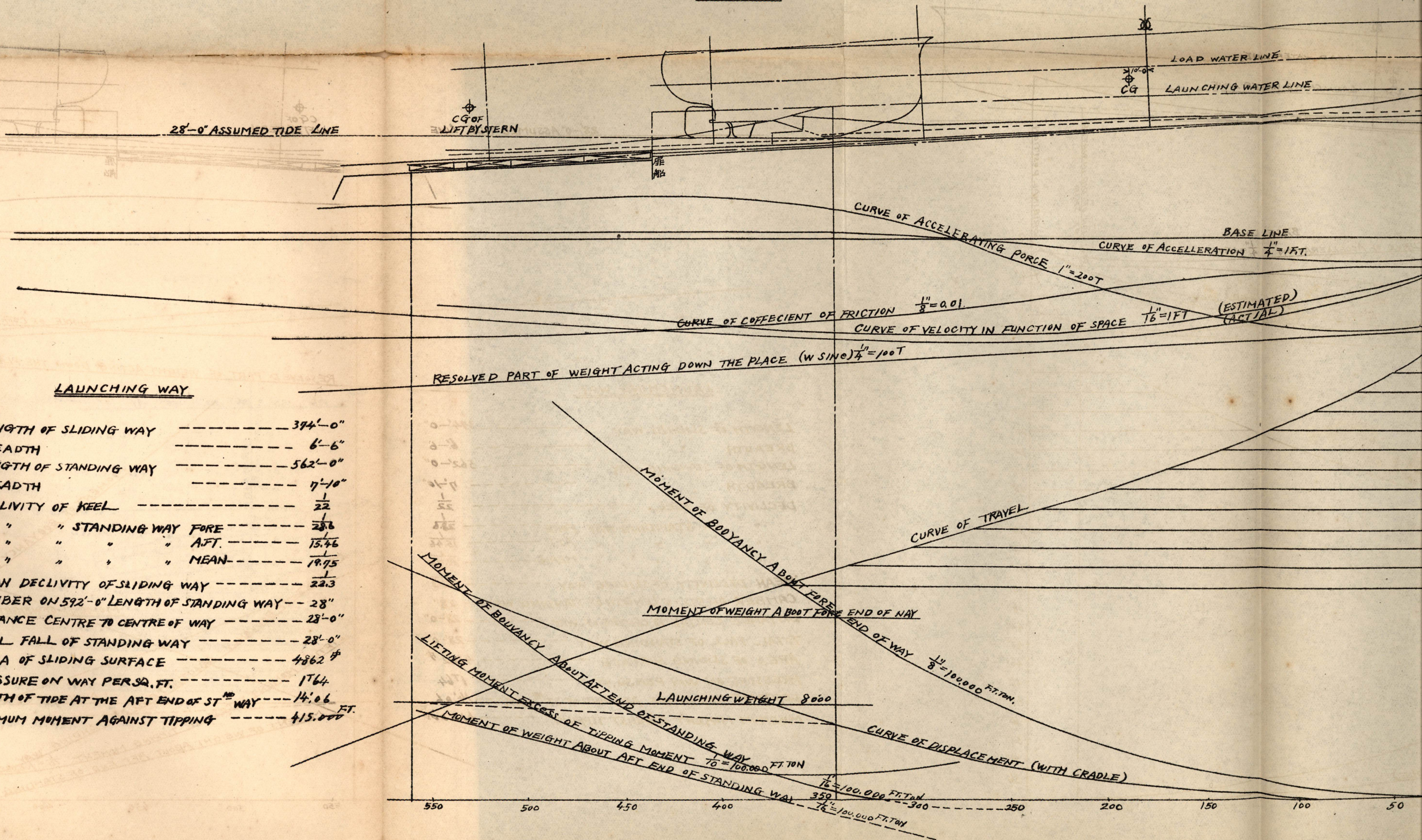
28'-0" ASSUMED TIDE LINE

LAUNCHING WAY

LENGTH OF SLIDING WAY	-----	394'
BREADTH	-----	6'
LENGTH OF STANDING WAY	-----	562'
BREADTH	-----	7'-1"
DECLIVITY OF KEEL	-----	$\frac{1}{22}$
" " STANDING WAY FORE	-----	$\frac{1}{28}$
" " " " AFT	-----	15.4
" " " " MEAN	-----	19.7
MEAN DECLIVITY OF SLIDING WAY	-----	$\frac{1}{22}$
CAMBER ON 592'-0" LENGTH OF STANDING WAY	-----	28'
DISTANCE CENTRE TO CENTRE OF WAY	-----	28'
TOTAL FALL OF STANDING WAY	-----	28'-0"
AREA OF SLIDING SURFACE	-----	4862
PRESSURE ON WAY PER SQ. FT.	-----	1764
DEPTH OF TIDE AT THE AFT END OF ST <sup>ND</sup> WAY	-----	14'.06
MINIMUM MOMENT AGAINST TIPPING	-----	415.07

第 117 号  
LAUNCHING CURVE  
FOR  
"SATSUMA"

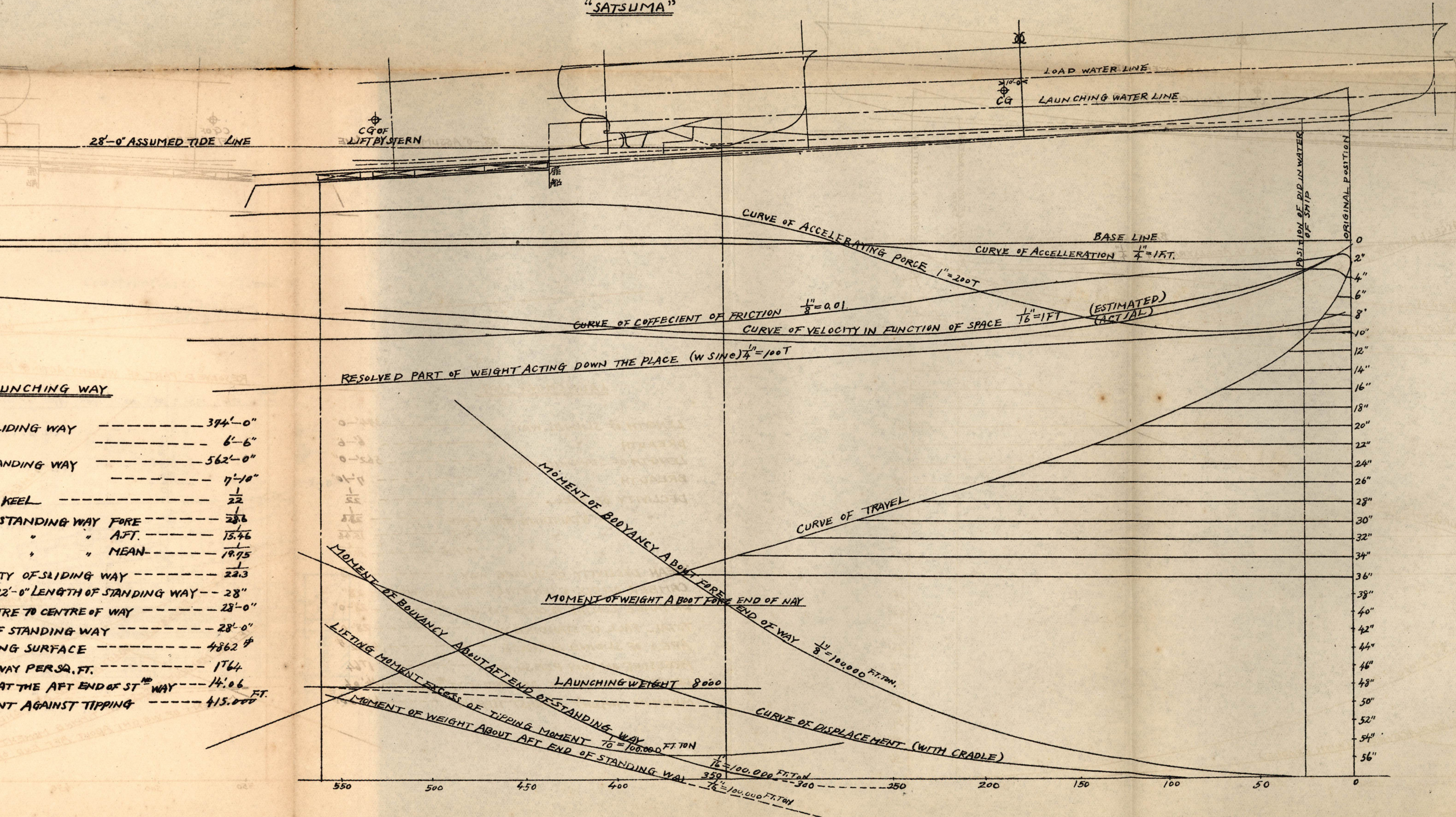
第 117 号  
LAUNCHING CURVE  
FOR  
"SATSUMA"



LAUNCHING WAY

LENGTH OF SLIDING WAY	-----	394'-0"
BREADTH	-----	6'-6"
LENGTH OF STANDING WAY	-----	562'-0"
BREADTH	-----	17'-10"
DECLIVITY OF KEEL	-----	$\frac{1}{22}$
" " STANDING WAY FORE	-----	$\frac{1}{25.8}$
" " " " AFT.	-----	$\frac{1}{15.46}$
" " " " MEAN	-----	$\frac{1}{19.75}$
MEAN DECLIVITY OF SLIDING WAY	-----	$\frac{1}{22.3}$
CAMBER ON 592'-0" LENGTH OF STANDING WAY	-----	28"
DISTANCE CENTRE TO CENTRE OF WAY	-----	28'-0"
TOTAL FALL OF STANDING WAY	-----	28'-0"
AREA OF SLIDING SURFACE	-----	4862 sq
PRESSURE ON WAY PER SQ. FT.	-----	1764
DEPTH OF TIDE AT THE AFT END OF ST <sup>ND</sup> WAY	-----	14.06 FT.
MINIMUM MOMENT AGAINST TIPPING	-----	415,000

第117圖  
LAUNCHING CURVE  
FOR  
"SATSUMA"



LAUNCHING WAY

SLIDING WAY	-----	394'-0"
STANDING WAY	-----	6'-6"
KEEL	-----	562'-0"
STANDING WAY FORE	-----	17'-10"
" " AFT	-----	22
" " MEAN	-----	23.6
WIDTH OF SLIDING WAY	-----	15.46
2'-0" LENGTH OF STANDING WAY	-----	19.75
DISTANCE FROM CENTRE OF WAY	-----	22.3
AREA OF STANDING WAY	-----	28"
SLIDING SURFACE	-----	28'-0"
WEIGHT PER SQ. FT.	-----	4862 #
MOMENT AT THE AFT END OF STANDING WAY	-----	1764
MOMENT AGAINST TIPPING	-----	14.06 FT.
	-----	415.000

38. ASSUMED LINE

CURVE OF COEFFICIENT OF

RESOLVED PART OF WEIGHT ACTING DOWN THE PLACE (W SWAY)

LANCHING WAY

LENGTH OF STANDING WAY

BREADTH

LENGTH OF STANDING WAY

BREADTH

DECLINITY OF FEET

STANDING WAY FORE

ACT

MEAN

MEAN DECLINITY OF STANDING WAY

CAMBER ON 2/3 LENGTH OF STANDING WAY

PRINCE CENTER TO CENTER OF WAY

TOTAL FOOT OF STANDING WAY

AREA OF FIRING SURFACE

PRESSURE ON WAY PER SQ. FT.

DEGREE OF THE ART. PART ST. WAY

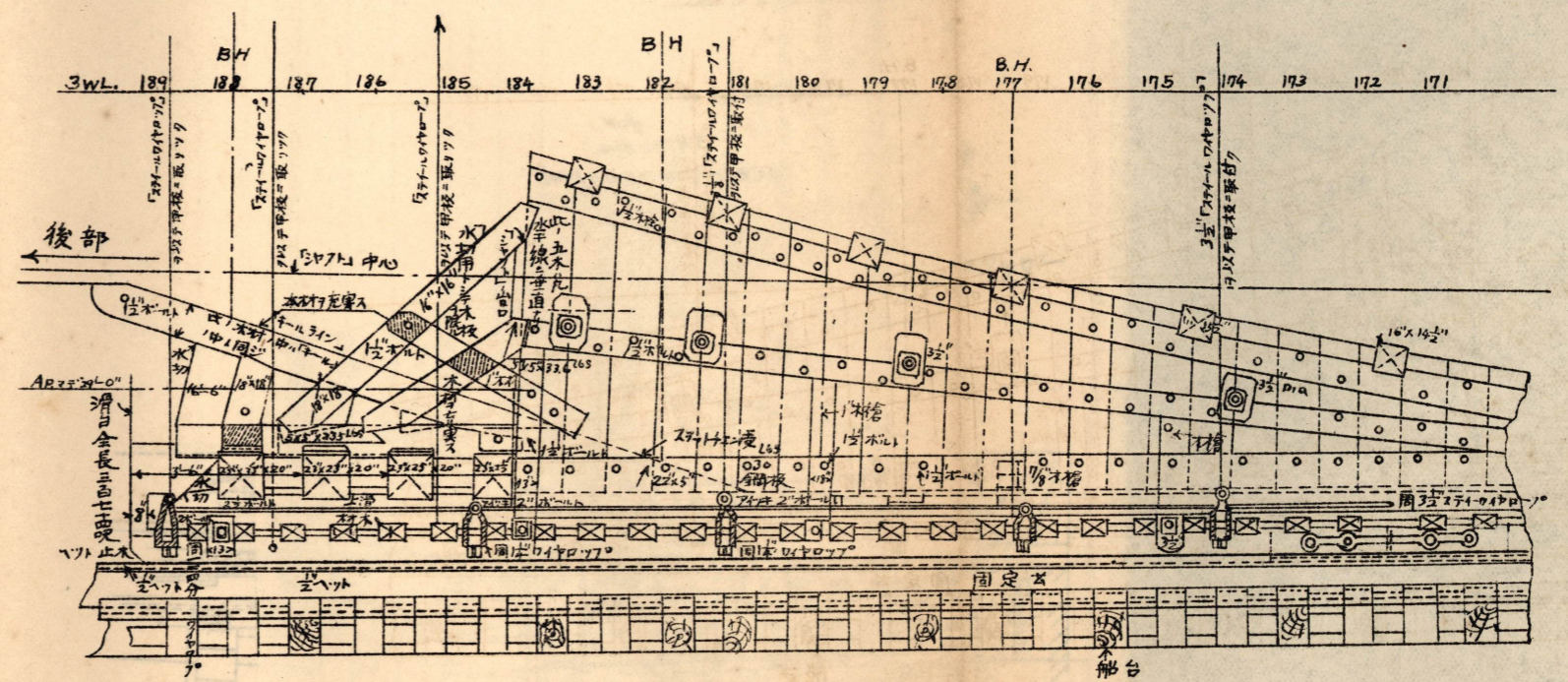
MINIMUM MOMENT AGAINST FIRING

SHIPPING WAY

MINIMUM MOMENT ABOUT AFT END OF STANDING WAY

### 第 118 図

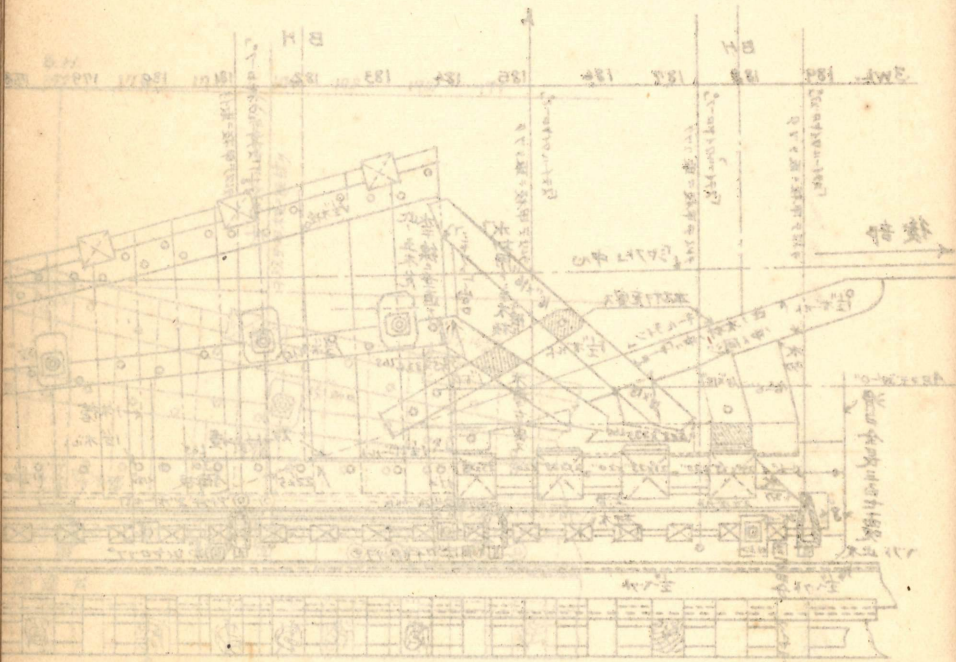
Construction of Cradle at aft end  
for  
"Satsuma"  
Scale 1/8" = one foot



Vertical text on the left margin of the right page.

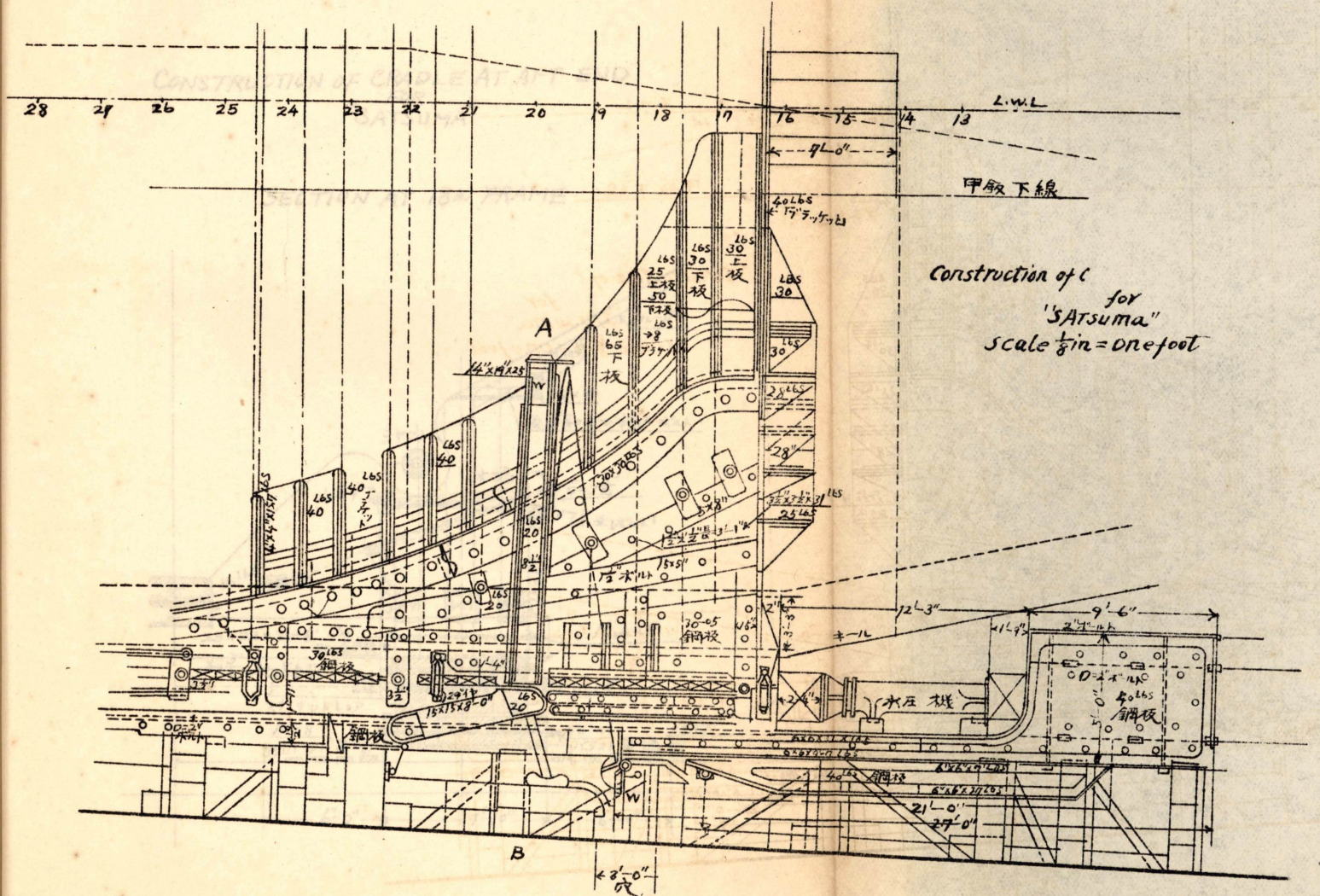
第118圖

Construction of Cradle for  
"Satsuma"  
Scale 1/4" = one foot



第119圖

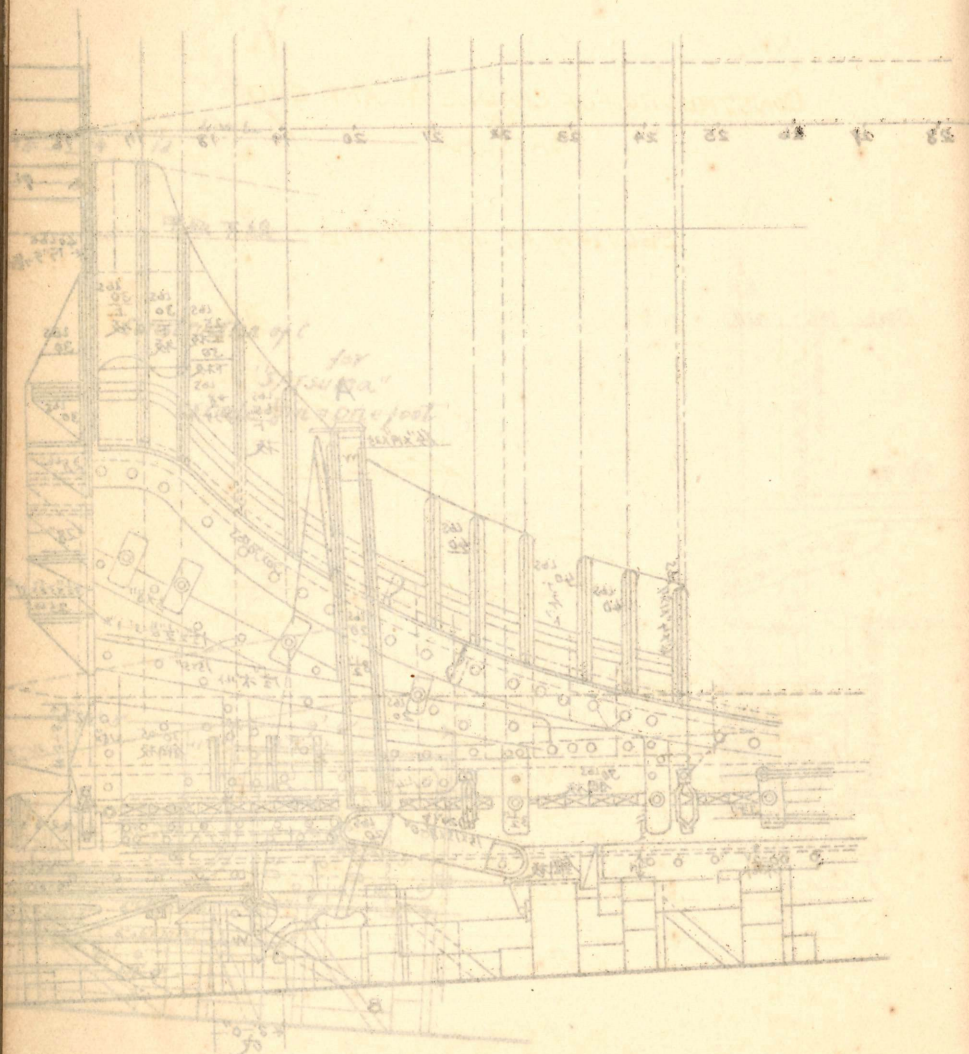
第120圖



Construction of C  
for  
"Satsuma"  
Scale 1/4" = one foot



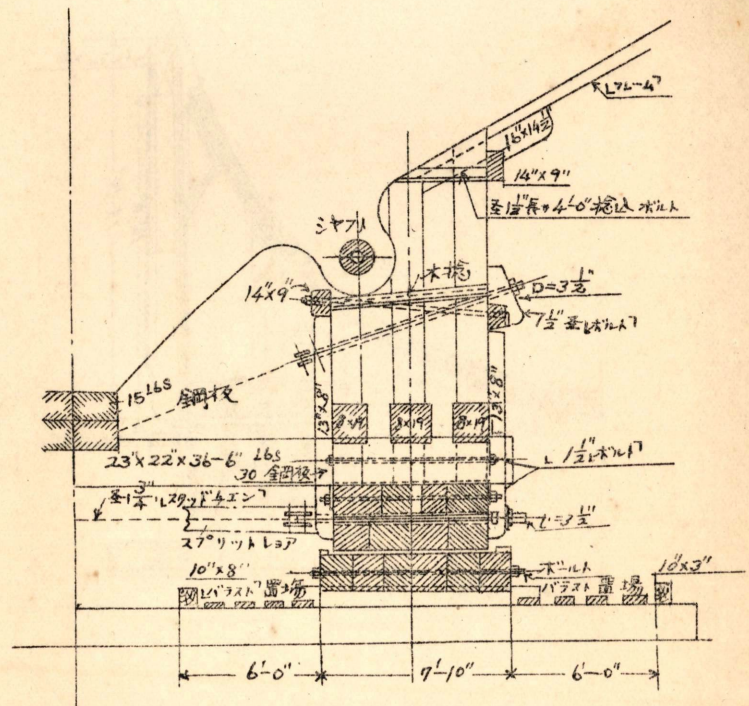
圖 P11 案



第120圖

CONSTRUCTION OF CRADLE AT AFT END  
FOR  
"SATSUMA"

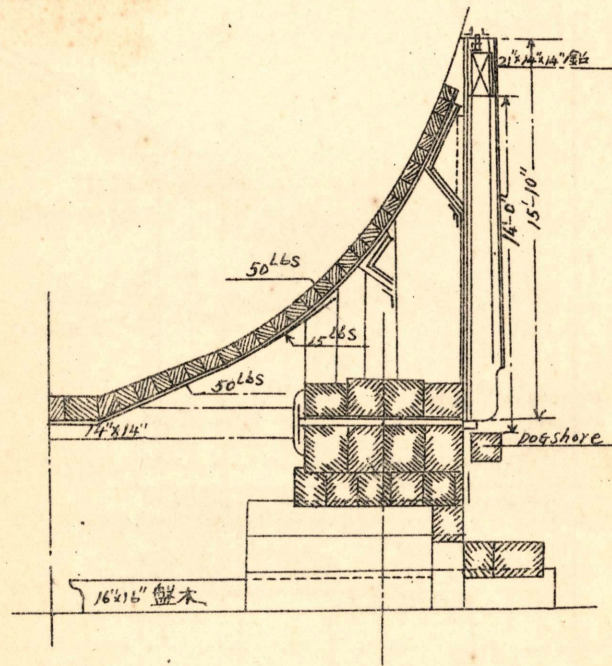
SECTION AT 184 FRAME



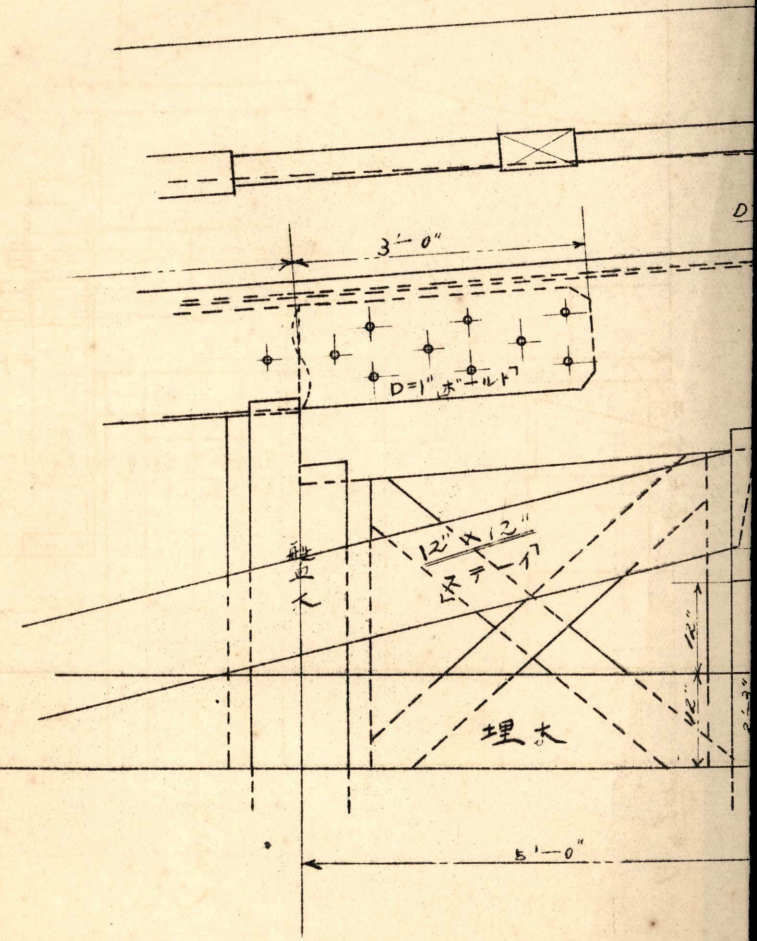
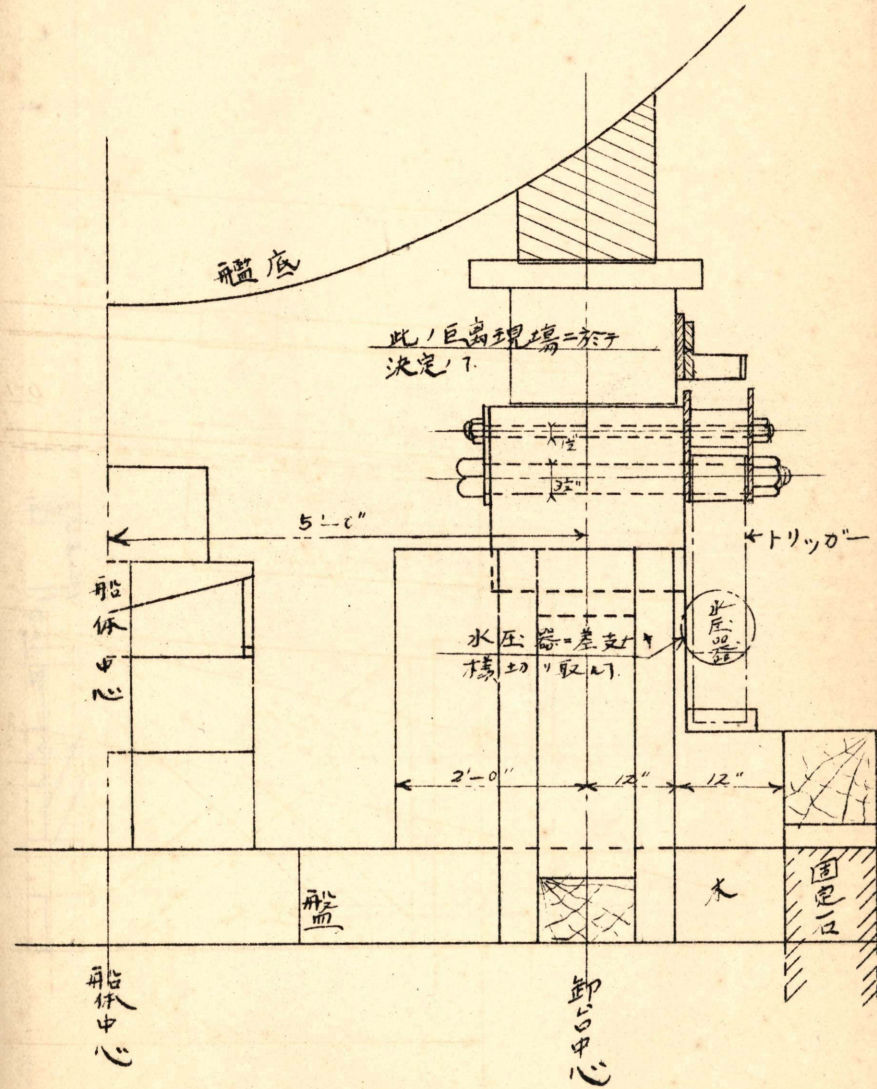
第121 図

CONSTRUCTION OF CRADLE AT FORE END  
FOR  
"SATSUMA"  
SCALE 1/4" = ONE FOOT

SECTION A.B.

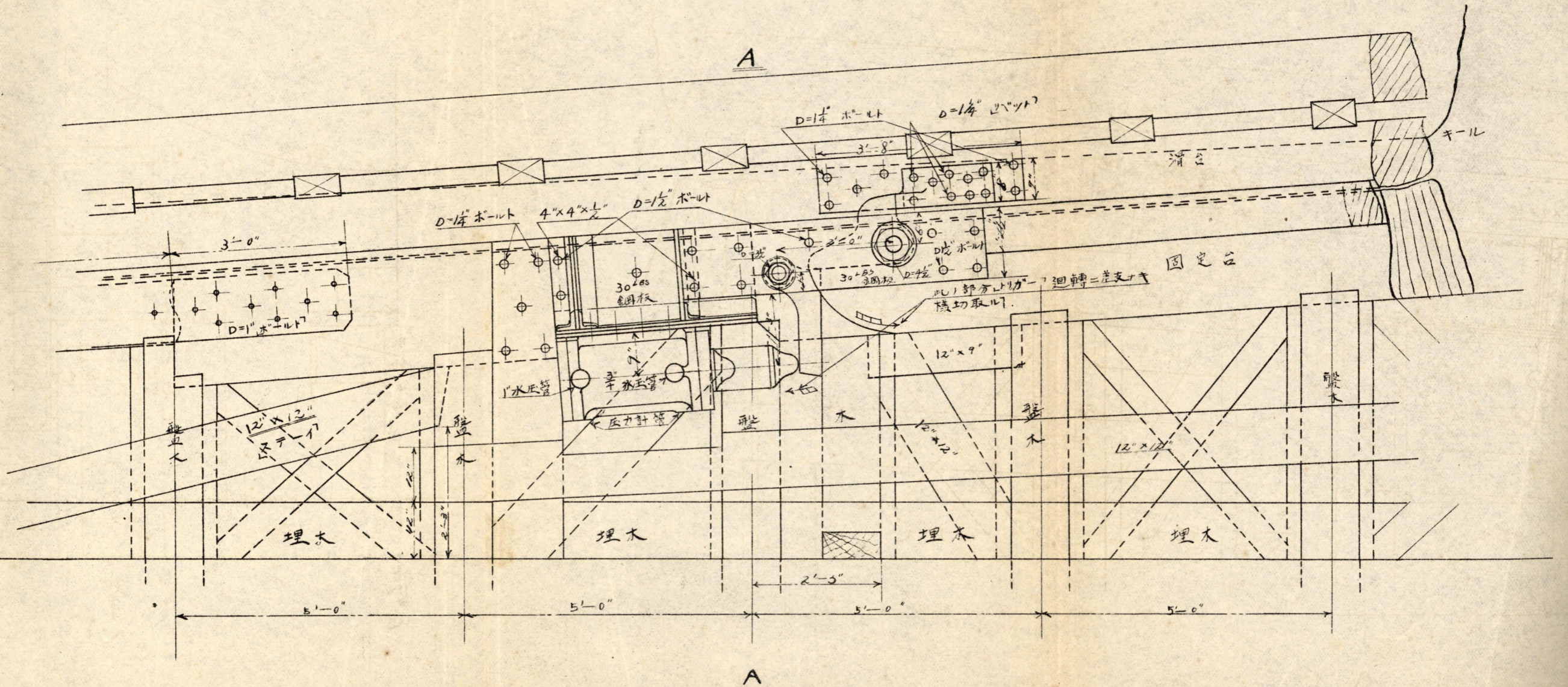


AA 切断

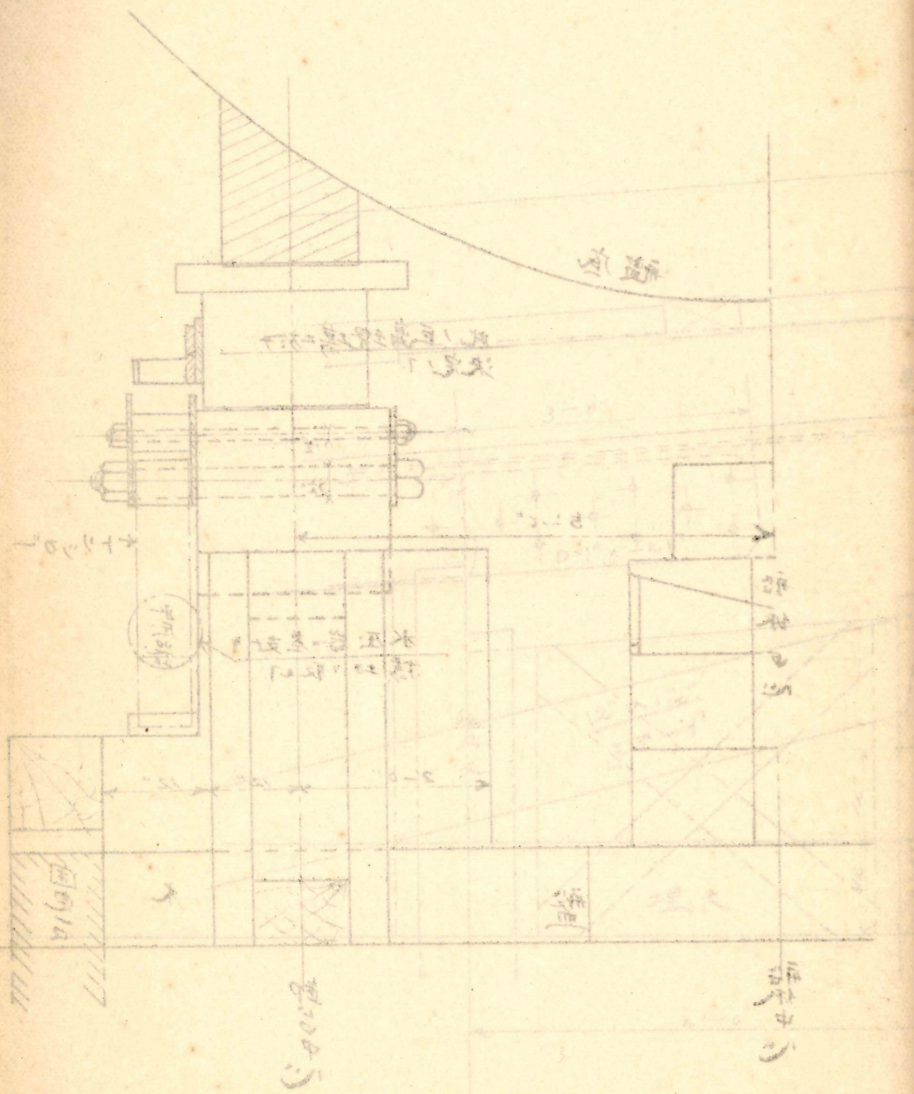


第 122 図

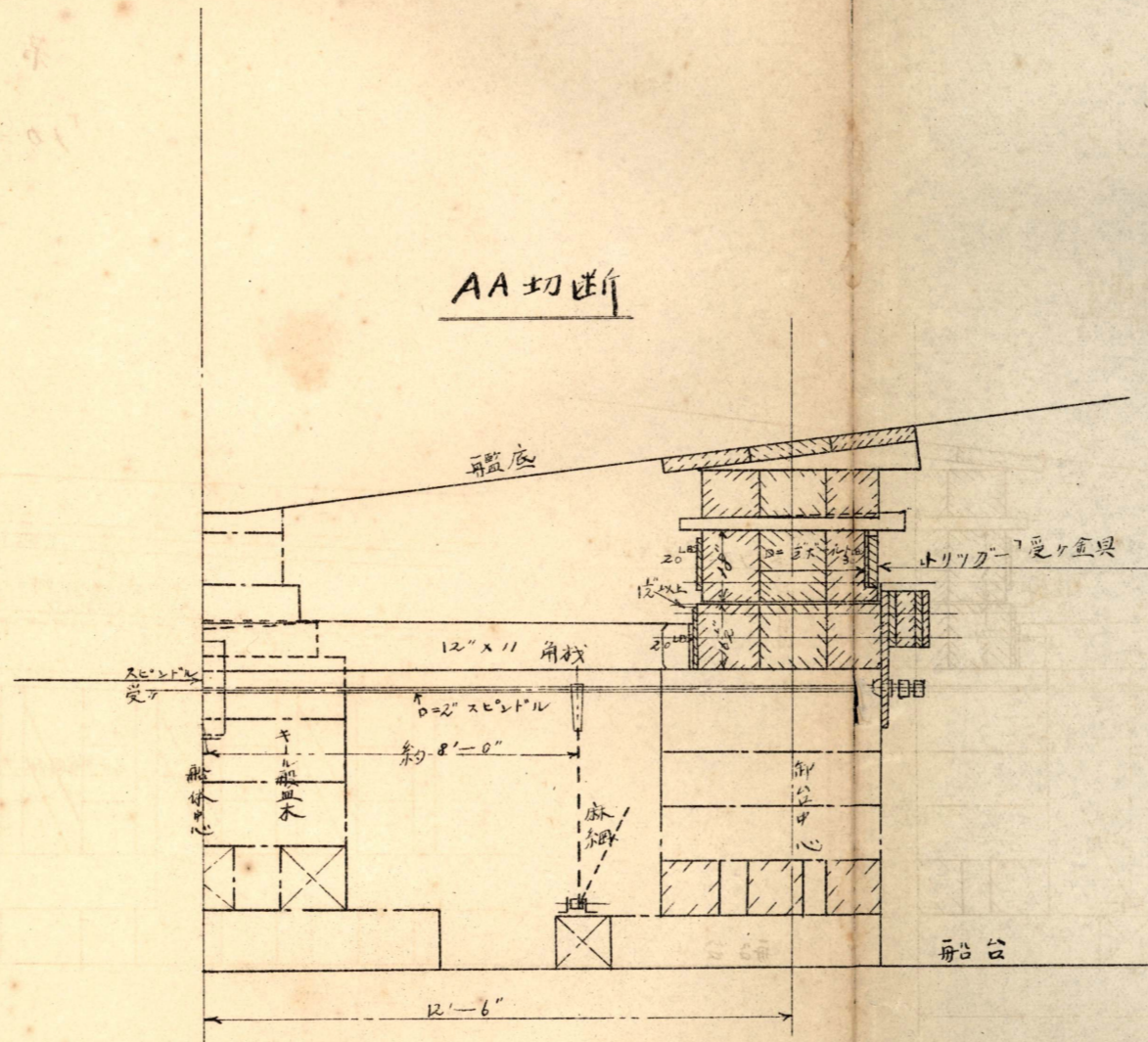
水圧「トリッガー」



階のAA

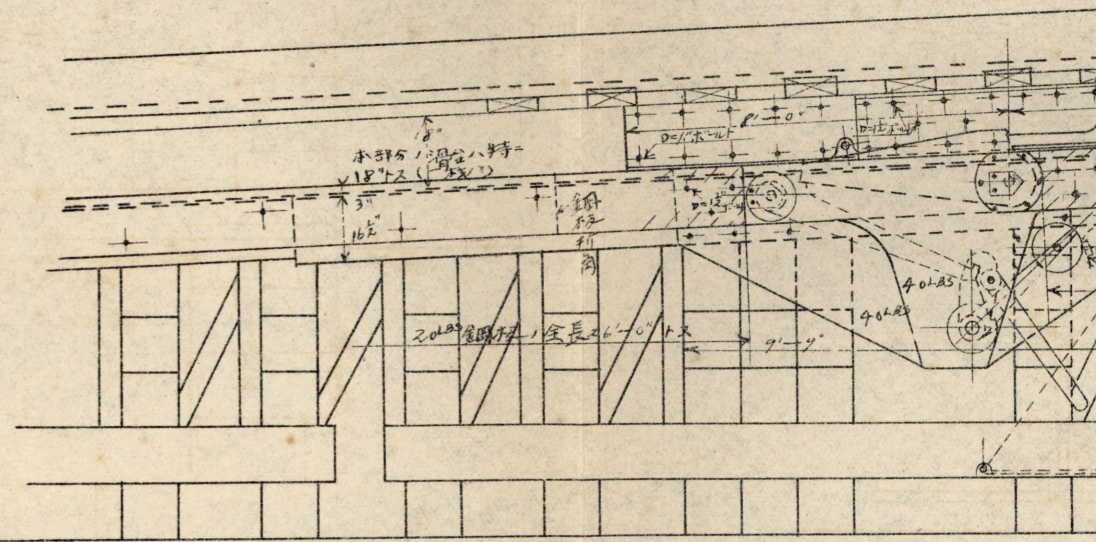


AA切断



第 123 図

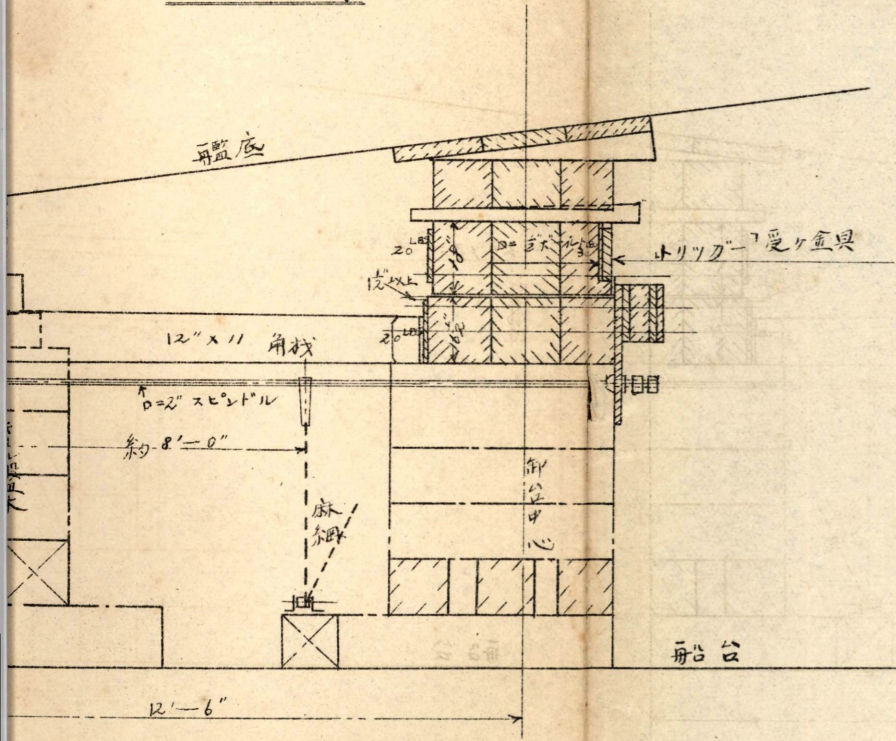
「メカニカル トリッガー」



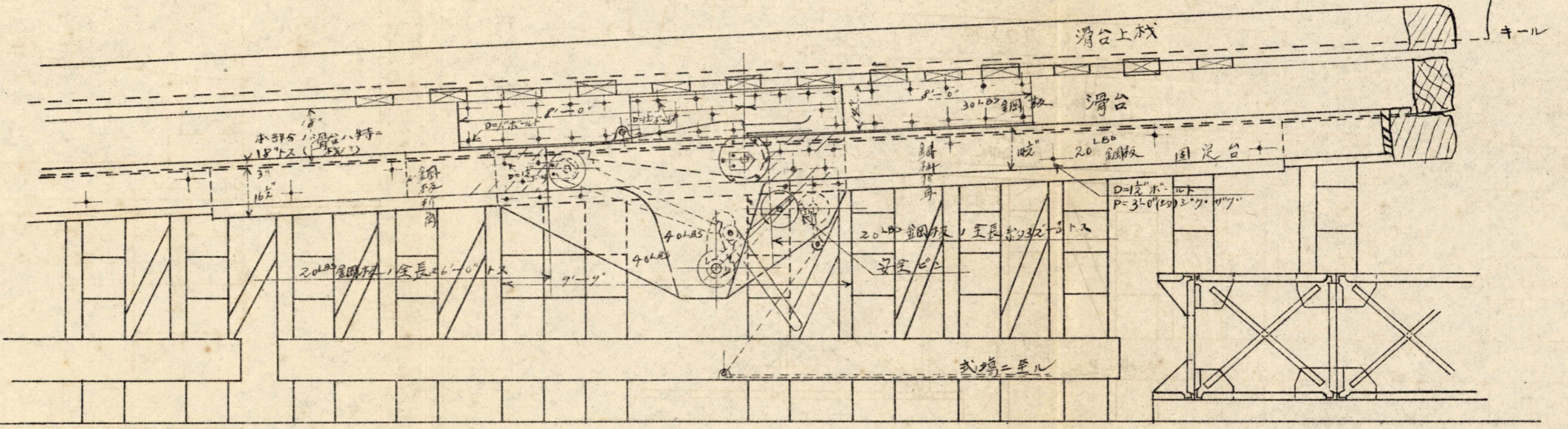
第 123 図

「メカニカル トリッカー」

AA 切断



A



A

海軍機關學校

理号	
寄贈者名	山本益寿
40.4.19	山本益寿
2850	

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