

Port of Survey *Newcastle - Warr. - Tyne*
Surveyor's Signature *W J Craig* *11.5.37.*
Date of Survey *Dunn's Building*

The diagram is a hand-drawn plan view of the USS Nautilus (SSN-576), showing the layout of the Superstructure Deck and the Freeboard Deck. The ship's hull is elongated and tapers towards the bow. The Superstructure Deck is shown above the Freeboard Deck, with various rooms and structural details labeled.

Superstructure Deck:

- Dimensions:** 106.5, 138.5, 42.5, 132.25, 44.46.
- Rooms and Structures:**
 - ENG (Engine Room)
 - BLR (Ballast Room)
 - CAS (Cabin)
 - STEEL D^K (Steel Deck)
 - 2 1/2" WOOD D^K (2 1/2 inch Wood Deck)
- Other Labels:** "steel dk", "STEEL D^K", "2 1/2" WOOD D^K".

Freeboard Deck:

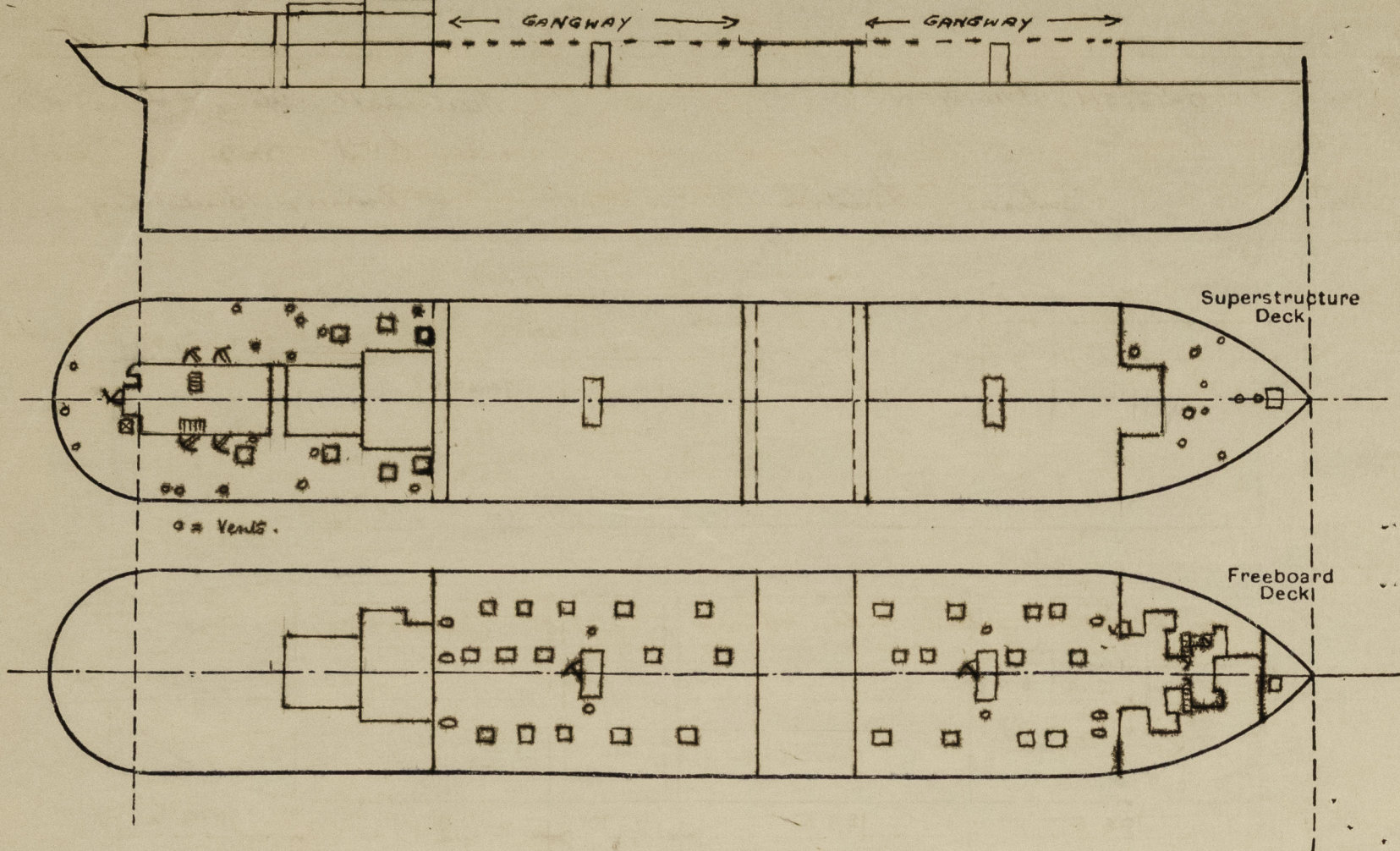
- Dimensions:** 103.0, 145.0, 36.0, 122.25, 13.5, 34.25, 10.21.
- Rooms and Structures:**
 - ENG (Engine Room)
 - BLR (Ballast Room)
 - P (Pump Room)
 - R (Reactor Room)
 - INTACT BMD. (Intact Bulkhead)
 - 5'-0" x 3'-0" W.T. hinged steel door 15" sill
 - 5'-0" x 3'-0" W.T. hinged steel door 15" sill
 - 5'-0" x 3'-0" W.T. hinged steel door 15" sill
 - doors operated from both sides
 - 58.5
 - 15'-0" x 2'-0" HINGED STEEL DOOR
- Other Labels:** "Eng Room air lock", "hinged w.t. steel door", "15" sill", "5'-0" x 3'-0" W.T. hinged steel door", "15" sill", "doors operated from both sides", "58.5", "15'-0" x 2'-0" HINGED STEEL DOOR", "INTACT BMD.", "P", "R".

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	.44	.44	10 x 3½ x 40 J	30"	lugged	2 at 4'0" x 3'1"	22" (S) 18" (P)	8'-0"
Raised Quarter Deck Bulkhead ...				✓			19"	
Bridge, After Bulkhead ... ..	.30	.30	4½ x 3 x 34 L	29"	none	1 at 5'1" x 4'1" 1 at 4'0" x 3'1" 1 at 5'0" x 3'0"	18" 18"	8'-0"
Bridge, Forward Bulkhead ... ..	.44	.44	10 x 3½ x 40 J	30"	lugged	1 at 5'0" x 3'0"	18"	8'-0"
Forecastle Bulkhead ... ..	.30	.30	4 x 3 x 35 L	28" - 32"	none	14 at 5'0" x 2'4" 3 at 5'0" x 2'0" 1 at 4'3" x 2'3"	18"	8'-0"
Trunk, Aft				✓				
Trunk, Forward				✓				
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...				✓				
Exposed Machinery Casings on Super- structure Decks ... ..	.30	.26	3½ x 2½ x 36	21" & 30"	none	4 at 5'3" x 2'0"	15½"	8'-0" + 6'-0" F10 8'-0" + 4'6" Eng
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ... ..	.34	.26	3½ x 2½ x 36	ruled 4 beams in double 21" & 30" boiler houses continuous to casing top in engine space	none		✓	8'-0"
Deckhouses on Flush Deck Ships ...				✓				

Poop Bulkhead	...	...	2 openings closed with hook bolted plates ^{also} 4x3" storm boards in channels full height
Raised Quarter Deck Bulkhead	...	...	2 openings closed with hook bolted plates & also 3" storm boards in channels full height
Bridge, After Bulkhead	...	...	1 opening closed with hinged steel W.T. door operated from both sides
Bridge, Forward Bulkhead	...	...	1 opening closed with hinged steel W.T. door operated from both sides
Forecastle Bulkhead	...	...	4 openings closed with hinged steel W.T. doors operated from both sides
Exposed Machinery Casings on Fore- board or Raised Quarter Decks	...	...	2 " " " " " doors " " " "
Exposed Machinery Casings on Super- structure Decks	...	...	7 " " " " 2" solid teak doors " " " "
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances	...	...	5 " " " " 2" " pine " " " "
Deckhouses on Flush Deck Ships	...	...	4 openings closed with hinged steel doors operated from both sides
			None

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangway, cargo and coaling ports, ventilators, companionways, etc., which would affect the seaworthiness of the ship:—



Particulars of fiddley, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing:—

Sidley, vent, & funnel openings of steel
Sidley openings covered by hinged steel covers
Engine skylight of steel strongly constructed

Particulars of Flush Bunker Scuttles:—

None

Particulars of Companionways :—

Particulars of Companionways:				
Ht.	{	To Churn Room forward (enclosed by Deck head)	hinged steel W.T. door 8'-0" x 2'-0" opened from both sides	18" bill
		To Churn Hatch	" " " " " " " " " " " "	18" "
Deck	{	To Pump Room	" " " " " " " " " " " "	18" "
		To Mess Room	" " " " " " " " " " " "	18" "
Port	{	To Mess Room	" " " " " " " " " " " "	18" "
		To Pump Room	" " " " " " " " " " " "	18" "

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :—

<u>Yucca coccinea</u> :-	2-18"	vent to	June held	Common	36"	x	40
	1-12"	"	"	Planch. Run	36"	x	36
	1-9"	"	"	P. B.	36"	x	32
	1-10"	"	"	P. B.	36"	x	30
	2-4"	"	"	Tree 18"	36"	x	30
	1-19"	Thompson English			36"	x	30
	3-10"	vent to	Tree 18"	(P. B. Type)	36"	x	30
<u>Fuchsia 5"</u>	4-20"	"	"	Planch. Run	36"	x	40
<u>Pop 5"</u>	2-16"	"	"	Empire Run	36"	x	40
	2-10"	"	"	"	30"	x	36
	1-8"	F. B. Washburn	"	Run via	30"	x	30
	2-8"	Overcrauchs	to	P. B. 36"	36"	x	36
	2-10"	to Washburn	to	Pop 36"	36"	x	36
	3-8"	vent to	Pop	accom	36"	x	36
	1-10"	"	"	Measuring 40"	36"	x	36
	4-12"	"	"	Pop 100"	36"	x	36

Closed by wood plugs, and covers.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :—

Foot deck:- 2'-4" air pipes to O.F. bunker 36" high.
2'-4" " " " D.B. tank 36" "
2'-3" " " " D.B. Cofferdam 18" "
2'-3" " " " fuel tank 18" "
2'-6" " " " A.P. tanks 21" "
Foot deck:- 4'-4" " " to cofferdams 36" high.

all air pipes closed with hinged steel covers & to oil fuel tanks
also fitted with gauge.

Particulars of Gangway Cargo and Coaling Ports:—

None

Particulars of Scuppers and Sanitary Discharge Pipes :—

all discharges from Poop & Forecabin spaces discharging below
freeboard deck are fitted with brass storm valves.

Particulars of Side Scuttles :—

all side scuttles fitted with strong hinged deadlights.

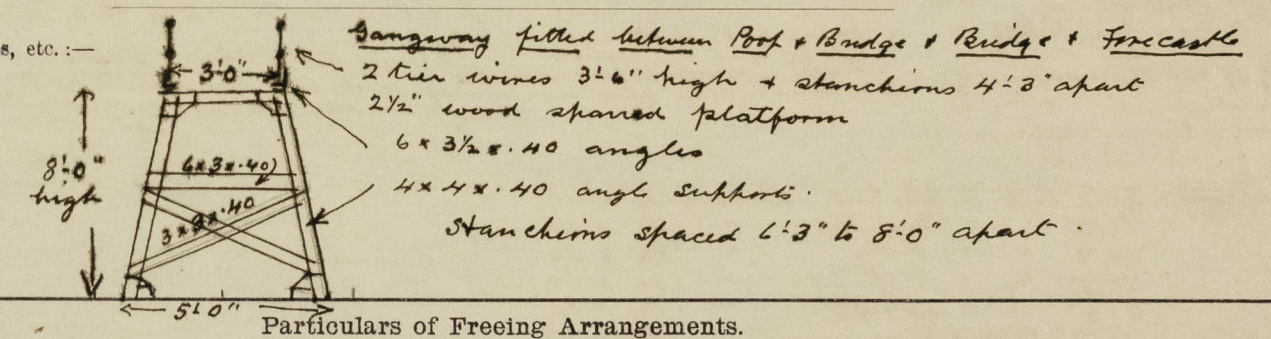
Vertical distance of Sill of lowest Side Scuttle above top of keel

39-3 1/2"

Particulars of Guard Rails :—

Poor dh:- 3 tie rails, 3'6" high with stanchions 4'6" apart.
Forecastle:- 3 " " 3'6" " " " 4'0" " "
Budge:- Steel bulwark at side 3'7" high with peak rail.
 Rails & stanchions at ends 2ood & tank rail 3'7" high. Stanchions 4'6" apart.

Particulars of Gangways, Lifelines, etc.:—



Particulars of Freeing Arrangements.

Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side!
After Well
Forward Well

After Well ... *Port* ... *F.P. 6'0" x 9" 5'9" x 9"* ... *F.P. 4'0" x 9" 4'3" x 9"* ... *Bridge* ... *F.P. 4'3" x 9"* ... *OPEN RAILS* ... *F.P. 5'11" x 9" 5'8" x 9"* ... *Forecastle*

State position of each freeing port ... (F. and A. position and height above deck edge) ... (After Well :- ... Forward Well :- ... } *Freeboard deck open rails 3' tier 4'0" high Stanchions 4'6" apart Freeing ports as shown 11" above deck edge.*

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :-

Additional area where sheer is less than standard.

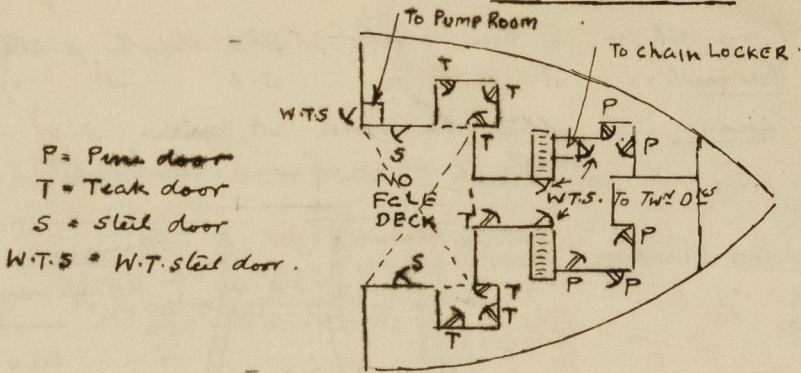
PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.										
← FREEBOARD DECK → ← POOP DECK →										
Description of Hatchway	To Fore peak	To Fore hold	To Cofferdams	To cargo tanks	To Fore peak	To oil bunker	To Poop space	To Poop space	To Store aft	
Dimensions of Hatchway	2'0" x 2'6"	6'9" x 10'0"	6'6" x 2'18"	27'6" x 4'0"	2'3" x 2'9"	2'0" x 3'0"	4'0" x 2'11"	2'8" x 2'8"	3'3" x 3'5"	
COAMINGS	Height above Deck	2 1/2"	24" / 28 1/2"	12" x 3 1/2" x 2 1/2"	12" x 3 1/2" x 4 1/2"	12" above wood deck	30"	30"	18"	
	Thickness	1/4"	1/4"	3/8" channel	B.P. Coaming	1/4"	1/4"	1/4"	1/4"	
	Sides	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	
	Ends	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	
HATCH BEAMS	Number									
	Spacing									
	Scantling and Sketch									
	Bearing Surface	✓	✓	✓	✓	✓	✓	✓	✓	
FORE AND AFTERS	Number									
	Spacing									
	Unsuported Lengths									
	Scantling* and Sketch									
HATCH COVERS	Material	wood	1/32"	1/40"	1/64"	1/36"	1/64"	wood 3"	wood 3"	1/40"
	Thickness	2 1/2"	Steel W.T. cover	Steel O.T. cover	Steel O.T. cover	Steel W.T. cover	Steel O.T. cover	F&A 3"	F&A 3"	Steel W.T. cover
	How fitted	Plug	Stiffened	cover	cover	cover	cover	F&A 3"	F&A 3"	cover
	Bearing Surface	2 1/2"	Stiffened	cover	cover	cover	cover	3"	3"	cover
Spacing of Cleats	24"	14"	20"	14"	8"	8"	23"	23"	8"	
Number of Tarpaulins	2	Cleats	bolts	Cleats	Cleats	Cleats	2	2	Cleats	
*Are wood fore and afters steel shod at all bearing surfaces? Are battens and wedges efficient and in good condition? Are tarpaulins in good condition and in accordance with rule requirements? Are lashings provided in accordance with rule requirements?										
none yes yes not necessary										

Particulars of any special features:—

Builder: Swan Hunter & Wigham Richardson No 1508
owner: British Tanker Co. Ltd.
Steel Vessel: British Firm, British Endurance, Abbeydale.

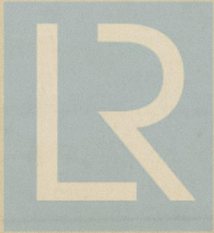
FORECASTLE



Endorsement at first survey and at surveys for renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown on this form (or as now modified) and are in good condition.

W. Craig
11.5.37.



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Lloyd's Register
Foundation