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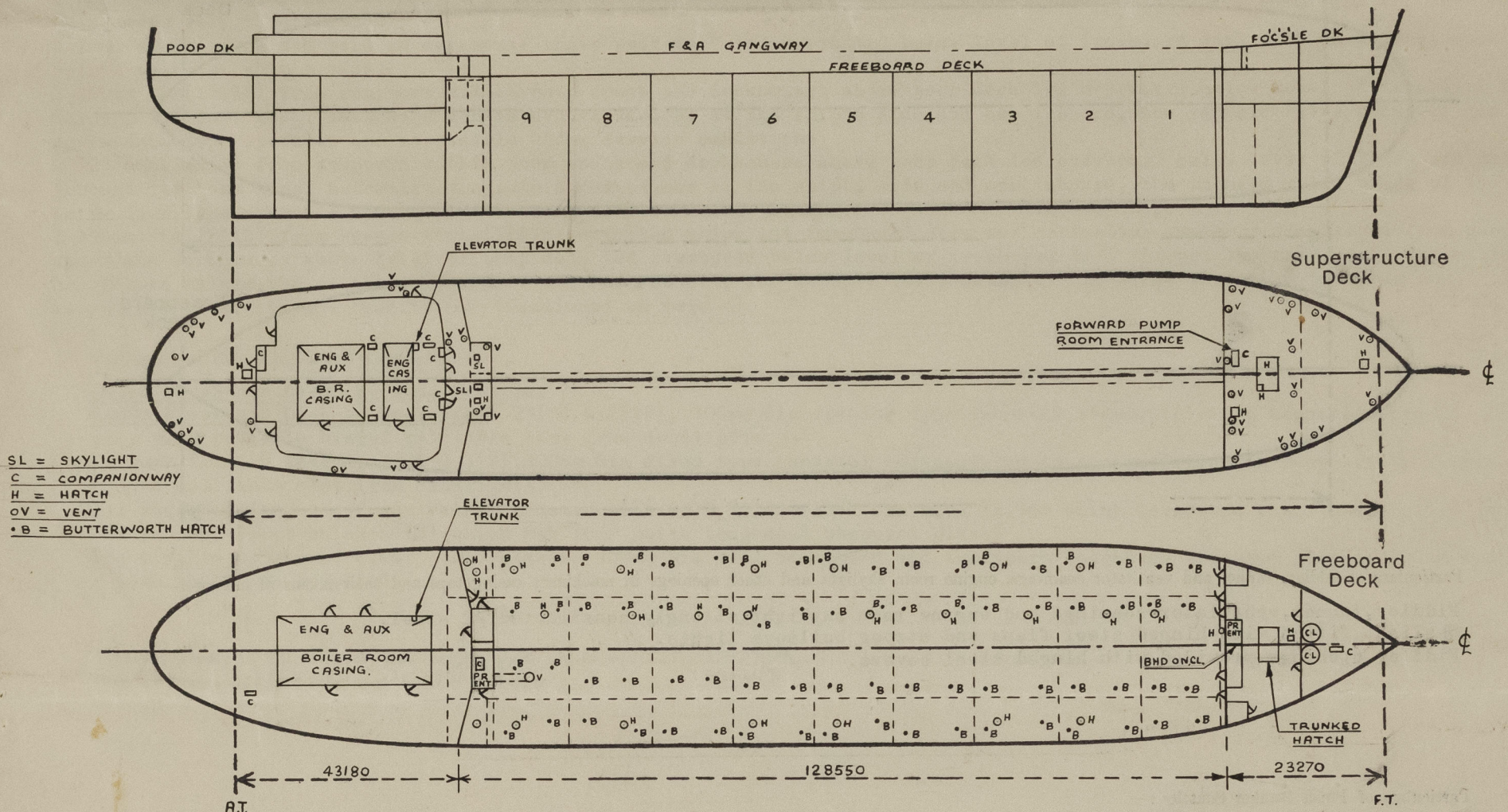
Index No.
(For London Office only.)

F-3008

SURVEYS FOR FREEBOARD
(CONDITIONS OF ASSIGNMENT)

Ship's Name "LIKHOSLAVL" Port of Survey HIROSHIMA, JAPAN
 Official Number 281 Surveyor's Signature J.F.K. Tobin
 Nationality and Port of Registry RUSSIAN, ODESSA Date of Survey During construction

Disposition and dimensions of superstructures, trunks, deckhouses, machinery casings and wood sheathing to be inserted in the diagrams and tabular statement :-



Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming mm	Plating mm	Stiffeners mm	Spacing mm	End Attachments of Stiffeners	Size of Openings mm	Height of Sills mm	Height, Beam to Beam mm
Poop Bulkhead ...	12	12	300x90x13/17 Inv.A	750	Lugged	2@ 1600x600 1@ 1600x900	460 & 610 460	2600
Raised Quarter Deck Bulkhead ...	P&S 8.5	8.5	100x75x7 Inv.A	800	Lugged	1@ 1600x700 (P) 1@ 1600x700 (S)	460	2600
Deckhouse on poop deck ...	Aft 7.5	7.5	100x75x7 Inv.A	750	Sniped	3@ 1600x700 (A) 1@ 1600x600 (F)	460	2600
Bridge After Bulkhead ...	Front 9.5	9.5	200x10 B.P.	750	Lugged	4@ 1600x600 (F)		
Bridge Forward Bulkhead ...								
Forecastle Bulkhead ...	7.5	7.5	100x75x7 Inv.A	750	Bkts top Lugged bottom	2@ 1600x600 2@ 1600x700 1@ 1600x900	380 460 460	2500
Trunk, Aft ...								
Pumproom								
Trunk Forward Entrance aft			Enclosed in poop					
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	—	—	—	—	—	—	—	—
Exposed Machinery Casings on Superstructure Decks ...	—	—	—	—	—	—	—	—
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	—	—	—	—	—	—	—	—
Deckhouse on Pump Room Entrances For'd	10.5	10.5	150x90x9 Inv.A	500 F&A 570 Sides	Bkts F&A Lugged sides EX- cept Bkt Top S	1@ 1300x500 (Aft)	610	2050(Max)(P) 800(Min)(S)

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	Hinged steel watertight doors operable from both sides(Class I)
Raised Quarter Deck Bulkhead ...	—
Bridge, After Bulkhead ...	—
Bridge, Forward Bulkhead ...	—
Forecastle Bulkhead ...	Hinged steel watertight doors operable from both sides(Class I)
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	—
Exposed Machinery Casings on Superstructure Decks ...	—
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	—
Deckhouse on poop	Hinged steel watertight doors operable from both sides-460mm Sills
Pumproom Entrance Aft	Hinged steel watertight door operable from both sides(Class I)-610mm Sill
Pumproom Entrance For'd	Hinged steel watertight door operable from both sides-610mm Sill.

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The diagram illustrates the hull cross-section of a ship. It features two main horizontal sections: the upper 'Superstructure Deck' and the lower 'Freeboard Deck'. Both sections are elongated with rounded ends. A central horizontal dashed line runs through the middle of the hull. Vertical dashed lines with arrows at the ends indicate the boundaries of the hull sections. The 'Superstructure Deck' is positioned above the 'Freeboard Deck', and the hull tapers to a point at the right end of each section.

Fiddley,funnel,ventilator coamings and engine room skylight strongly constructed of steel. Skylight fitted with hinged steel flaps and strong bullseye lights. Fiddley openings provided with hinged steel covers.

None. /

Main pumproom entrance on freeboard deck enclosed in projection of poop front with hinged steel watertight door operable from both sides 1600x600mm, sill height 610mm. ✓

Forward pumproom entrance on forecastle deck strongly constructed of steel with hinged steel watertight door operable from both sides 1300x500mm, sill height 610mm. ✓

Companionways and machinery casing doors on poop deck enclosed by strong steel deckhouse on poop deck. Hinged steel watertight doors in deckhouse sides and ends operable from both sides. 1@ 1600x700mm(P), 1@ 1600x700mm(S), 3@ 1600x700mm and 1@ 1600x600(Aft), 4@ 1600x600(For'd). All sill heights 460mm. (Continued on page 4)

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

Freeboard Deck:— Ventilator trunk to main pump room aft passing through forward bulkhead of pump room 1375mm dia x 12.5mm thick led forward horizontally above level of freeboard deck to a strongly constructed vertical ventilator coaming 9,700mm high efficiently connected to freeboard deck. Vertical coaming 1,500mm dia x 14mm thick at base tapering to 1400mm dia x 8mm thick at top. Efficiently stiffened and supported and fitted with mushroom top. ✓

Ventilation pipes for cargo tanks led to common lines taken to top of derrick posts and fitted with gauze wire. ✓

<u>Freeboard Deck</u>	<u>Poop Deck</u>
3-80mm dia x 915 _{mm} high ✓	10-100mm dia x 460mm high
5-125mm dia x 915 _{mm} high ✓	2- 80mm dia x 460mm high
1-50mm dia x 1000mm high	2-50mm dia x 460mm high ✓
led up derrick post forward ✓	5- 80mm dia x 460mm high ✓
	5-100mm dia x 460mm high ✓
<u>Forecastle Deck</u>	2-125mm dia x 460mm high ✓
2-125mm dia x 460mm high ✓	
2-125mm dia x 460mm high	

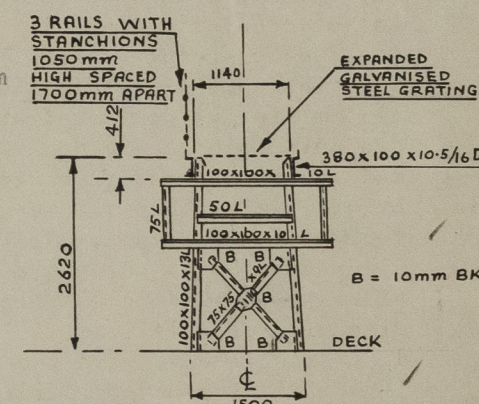
All airpipes indicated thus fitted with wire gauze. ✓
All oil fuel air pipes fitted with a ball valve. ✓
All airpipes fitted with steel cover and spring clip.

10-150mm dia(5P&5S) scuppers draining weather portions of freeboard deck led directly overboard below level of freeboard deck. ✓
2-100mm dia(1P&1S) weather deck scuppers draining forecastle deck led directly overboard below level of forecastle deck. ✓
1-50mm dia(P) weather deck scupper draining forecastle deck led directly overboard below level of forecastle deck. ✓
7-80mm dia(4P&3S) scuppers draining weather portions of poop deck led directly overboard below level of poop deck. ✓
7-24mm dia scuppers in forecastle end bulkhead draining forecastle space fitted with brass screw plugs with chain attachment. ✓
3-80mm dia(1P&2S) from scuppers within poop space led overboard below level of freeboard deck through two cast steel automatic non-return valves, one at the ship's side and one inboard, the inboard valve being of the screw-down type operable and accessible under service conditions. ✓
1-70mm dia(P) from scuppers in deckhouse above poop deck led overboard below level of freeboard deck with cast steel non-return valve at ship's side. ✓
2-100mm dia(1P&1S) from scuppers within poop space and deckhouses above poop deck led overboard below level of freeboard deck, through two cast steel automatic non-return valves, one at the ship's side and one inboard, the inboard valve being of the screw down type operable and accessible under service conditions. ✓
2-125 dia(1P&1S) from scuppers within poop space and deckhouses above poop deck led overboard below level of freeboard deck through two cast steel automatic non-return valves, one at the ship's side and one inboard, the inboard valve being of the screw down type operable and accessible under service conditions. ✓
2-150mm dia(1P&1S) from sewage tanks(1P&1S) situated below the freeboard deck and collecting sanitary discharges from poop space and deckhouses above level of poop deck led overboard below level of freeboard deck through two cast steel automatic non-return valves, one at the ship's side and one inboard, the inboard valve being of the screw down type operable and accessible under service conditions. (Continued on page 4) ✓

Below Freeboard Deck: No side scuttles
Above Freeboard Deck in Poop side: 23(S) & 25(P), 300mm dia opening type gunmetal sidescuttles to accommodation in
poop with portable hinged malleable cast iron deadlights.
In Poop front bulkhead: 2(P) & 3(S), 300mm dia fixed type gunmetal sidescuttles to accommodation in poop with portable
hinged malleable cast iron deadlights.
All sidescuttles are of equivalent construction to B.S.3024:1947 and have 12.5mm thick toughened clear plate glass except
one in poop front bulkhead(S) which has 16mm thick toughened obscured glass.
Three spare toughened clear plate glasses 300mm dia x 12.5mm thick and two spare toughened obscured glasses 300mm dia
x 16mm thick are supplied.

Vertical distance of Sill of lowest Side Scuttle above top of keel	15.991M
Distance from amidships to centre of lowest Side Scuttle	55.390M

Fore and aft gangway on centre line of ship on freeboard deck extending from poop front to forecastle after end bulkhead (see sketch). Expansion joints fitted in gangway. Supports indicated in sketch spaced 3400mm apart. Fore and aft cross bracing 100x100x10mm Angs with 10mm brackets fitted every fourth bay.



State position of each freeing port ... } After Well :—
(F. and A. position and height above deck edge) } Forward Well :—

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												
Weather portion												
In Focus												
Poop deck												
Forecastle deck												
Description of Hatchway	21 Cargo oil Hatches	72 Butter worth openings	OP Tank Hatches 2P & 1S	Access to For'd C/D	Access to Dry Cargo space	To main pump Rm Entrance	Provision Hatch	Rope Hatch	Rope Hatch	Access to Fire Station
Dimensions of Hatchway	970x700 Oval	320 dia	600 dia	600 dia	600x600	800x600	1200x1200	900x900	1220x1220	600x600
COAMINGS	{	Height above Deck	760	90	760	760	230	460	460	460	610	610
		Thickness { Sides	12.5	12	12	12	10	12	12	12	12	12
		Ends					10	12	12	12	12	12
		Stiffeners ... { Sides										
Brackets, Stays	{ Ends											
HATCH BEAMS	{	NUMBER		Approved design								
		SPACING										
		SCANTLING AND SKETCH										
		Bearing Surface										
FORE AND AFTERS	{	Number										
		Spacing										
		Unsupported Lengths										
		Scantling* and Sketch										
Bearing Surface												
HATCH COVERS	{	Material	OT steel dished	OT steel	OT steel	WT steel	NWT steel	WT steel	WT steel	WT steel	WT steel	WT steel
		Thickness	12.5	12	12	12	6	8	8	8	8	8
		How fitted	Hinged	2 Hinges	2 Hinges	2 Hinges	2 Hinges	2 Hinges	2 Hinges	2 Hinges	2 Hinges	2 Hinges
		Bearing Surface	secured by hinged strong bar bolts bearing on centre of cover.	4 Toggles	6 Toggles	6 Toggles		7 Toggles	8 Toggles	7 Toggles	8 Toggles	7 Toggles
Spacing of Cleats												
Number of Tarpaulins												

*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? -

Are wood covers fitted with galvanised end bands? -

Details of Hatches continued below

Particulars of any special features :— (Timber Deck-cargo Fittings, Skylights, Sewage Systems, Ash Ejectors, Rubbish Shoots, etc.)

Steel skylight on forward end of poop deck to after fire station 1000x1000mm with 460x10mm sill and with strong hinged steel watertight covers fitted with fixed bullseye lights.

Steel skylight on forward end of poop deck to main pump room entrance 2000x1500mm with 460x10mm sill and with strong hinged steel watertight covers fitted with fixed bullseye lights.

Opening 1500x800mm in sloping top of companionway on forecastle deck leading to forward pump room with strongly constructed steel watertight cover 8mm thick fitted with three 250mm dia fixed lights with outside deadlights. Steel cover provided with two hinges and eight toggles.

Scuppers and Sanitary Discharges(Continued from page 3)

Discharge of the sewage tanks is accomplished by means of one of two methods:-

(a) By pump connected between the sewage tank and the discharge line inboard of the two non-return valves.

(b) By eductor operated by water at high pressure connected between the sewage tank and the discharge line inboard of the two non-return valves.

NOTE:The port and starboard sewage tank systems are independent of one another.

1-50mm dia (P) scupper draining bosun's stores and chain locker forward led overboard through forecastle side through two automatic non-return valves, the one at the ship's side being of cast steel and the inboard valve being of cast steel and accessible under service conditions. Discharge of these spaces is effected by means of a cast bronze eductor operated by water at high pressure connected to the discharge line between the two automatic non-return valves.

1-50mm dia (P) scupper draining dry cargo space below freeboard deck in way of forecastle led overboard through forecastle side through two automatic non-return valves, the one at the ship's side being of cast steel and the inboard valve being of cast steel and accessible under service conditions.

Discharge of this space is effected by means of a cast bronze eductor operated by water at high pressure connected to the discharge line between the two automatic non-return valves.

1-50mm dia (P) scupper draining steering gear space below level of freeboard deck led overboard below level of freeboard deck through two automatic non-return valves, the one at the ship's side being of cast steel and the inboard valve being of cast steel and accessible under service conditions.

Discharge of this space is effected by means of a cast bronze eductor operated by water at high pressure connected to the discharge line between the two automatic non-return valves.

Details of Hatches(Continued from above)

Dry Cargo Hatch on Forecastle Deck

Dimensions:- 4110x4500mm, coaming 610mm high x 11mm thick. 180x9.5mm B.P. horizontal stiffener at coaming top. Coaming additionally stiffened by 11mm brackets spaced 1370mm (max) (3 at ends, 2 at sides)

Hatch cover 11mm steel plate stiffened by 250x90x12/16mm Inv.A's in F & A direction spaced 750mm apart with 250x12mm B.P. intercostles in athwartship direction spaced 685mm apart. Cover secured W.T.with toggles spaced 375mm apart (max).

Access hatch 600x600mm fitted in starboard after corner of main hatch cover having 75x12mm coaming above main hatch cover and secured watertight by hinged steel cover 8mm thick with 2 hinges and 7 toggles.

Particulars of Companionways (Continued from page 2)

Companionway and machinery casing doors on freeboard deck aft. enclosed in poop.

Companionway in freeboard deck forward giving access to bosun's stores enclosed in forecastle and protected by 2 hinged steel watertight doors in forecastle end bulkhead operable from both sides, openings each 1600x700mm with 460mm sills (Class I).