

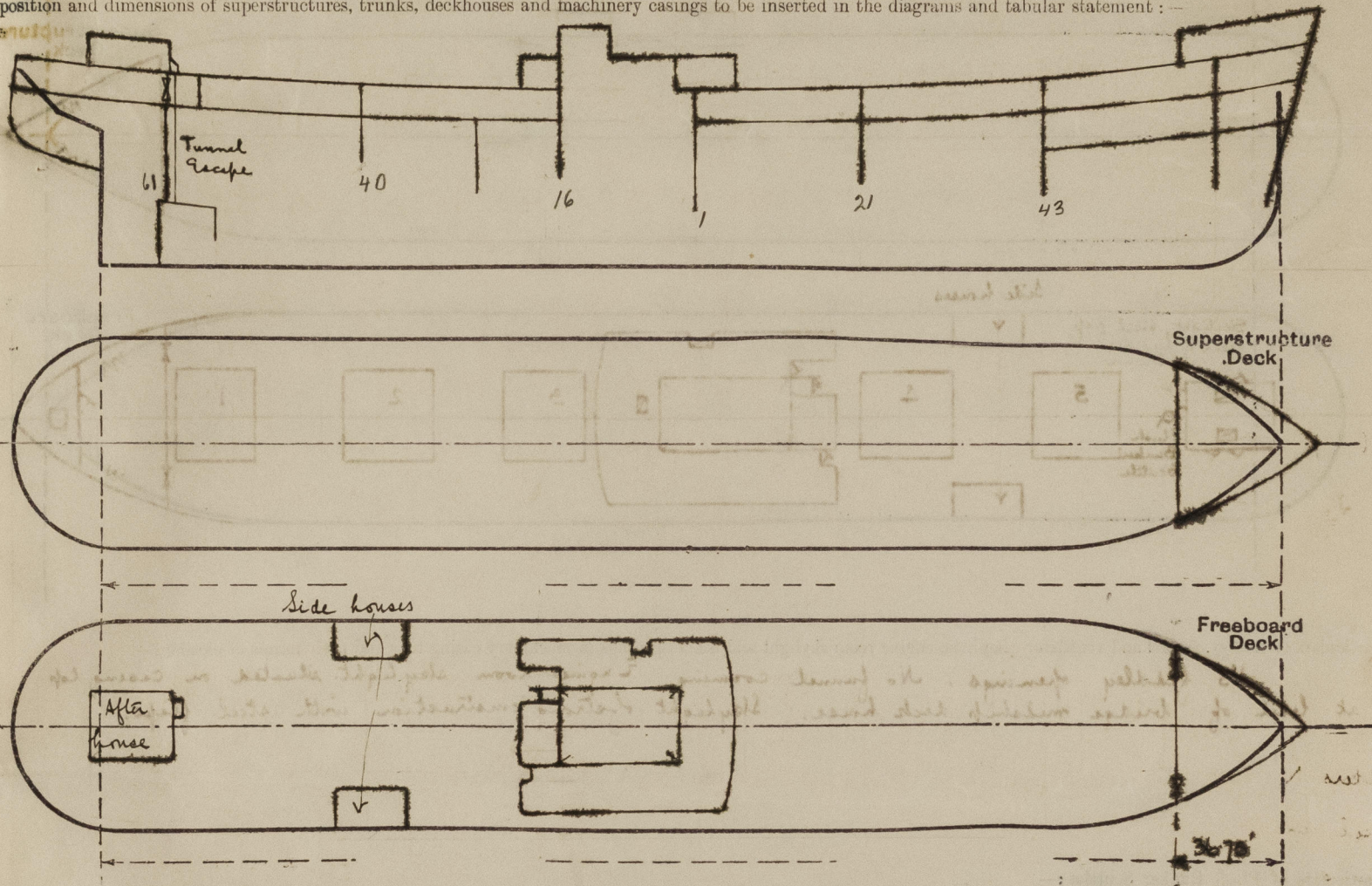
## Lloyd's Register of Shipping.

Index No. \_\_\_\_\_  
(For London Office only).SURVEYS FOR FREEBOARD. F. 21  
(CONDITIONS OF ASSIGNMENT.)

OCT 14 1940

Ship's Name **ARAYBANK** Port of Survey **Belfast**  
 Serial Number **168501** Surveyor's Signature **L. R. Edgar**  
 Nationality and Port of Registry **British. Belfast.** Date of Survey **While building.**

Position and dimensions of superstructures, trunks, deckhouses and machinery casings to be inserted in the diagrams and tabular statement:—



Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Port Bulkhead	✓							
Starboard Quarter Deck Bulkhead	✓							
Starboard Bulkhead, After Bulkhead	✓							
Starboard Bulkhead, Forward Bulkhead	✓							
Castle Bulkhead	30	30	2" x 24" x 32"	27" to 36"	Top. stiff. 24" x 32" x 32"	Two 37" wide	18"	✓
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	Machinery casings on freeboard deck within deckhouse. ✓							
Exposed Machinery Casings on Superstructure Decks	✓							
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓							
Deckhouses on Flush Deck Ships	✓							

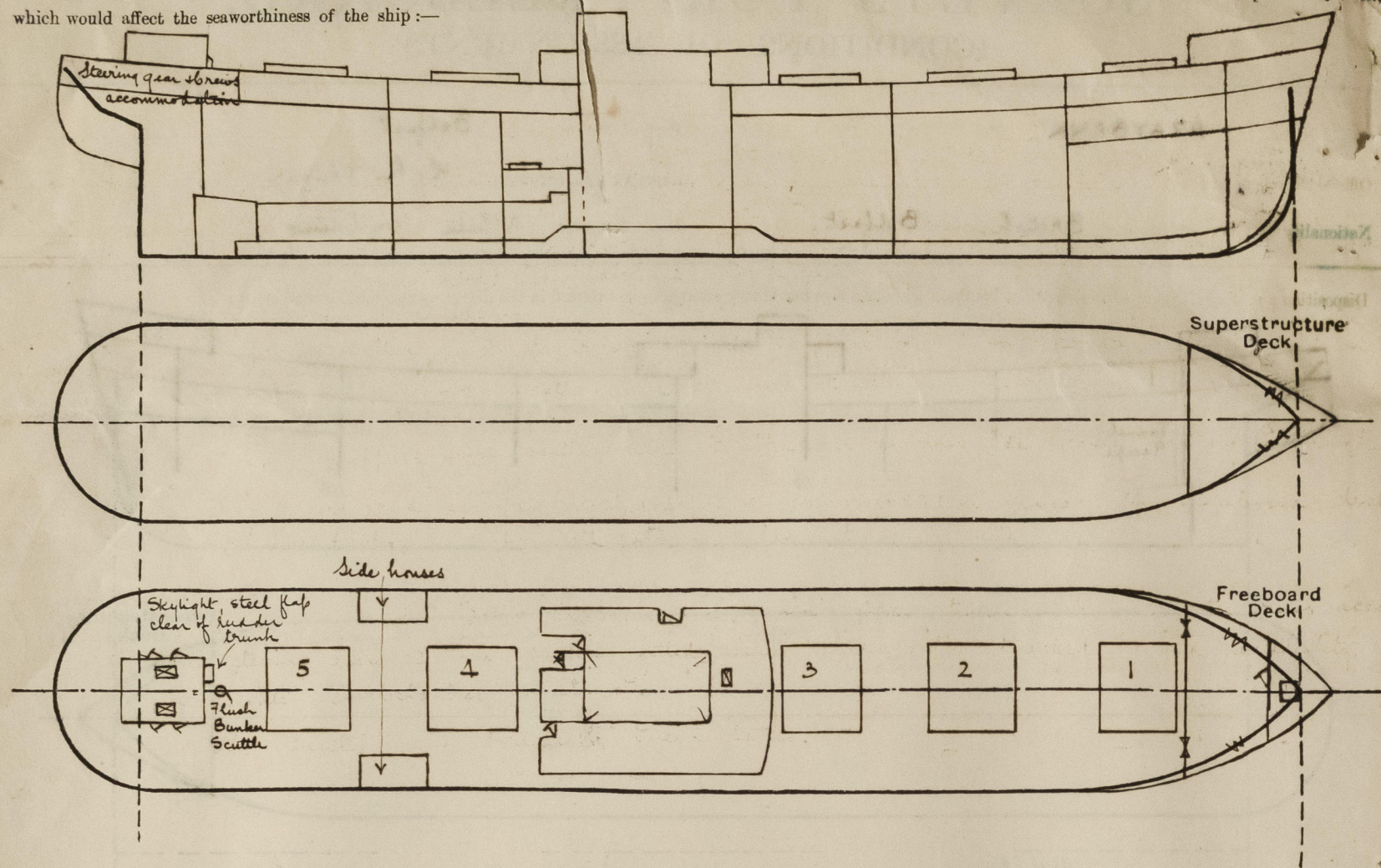
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Port Bulkhead	✓
Starboard Quarter Deck Bulkhead	✓
Starboard Bulkhead, After Bulkhead	✓
Starboard Bulkhead, Forward Bulkhead	✓
Castle Bulkhead	Shifting boards full height 2 1/2" in riveted channels. ✓
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	✓
Deckhouses on Flush Deck Ships	✓



# 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 fiddle, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing:-

No fiddle openings. No funnel coaming. Engine room skylight situated on casing top at level of bridge midship deck house. Skylight of strong construction with steel flaps.

Particulars of Flush Bunker Scuttles:-

One on freeboard deck aft to accommodation coal bunker. Cast iron, bayonet joint with permanent chain attachment.

Particulars of Companionways:-  
1. Formed by midship deckhouse on freeboard deck to stairway to store below.  
2. Doors at after end and one port. 5'-0" x 25". 1 1/2" teak solid with 1/8" steel plate screwed. Sills 23".  
2. Formed by deckhouse aft on freeboard deck to stairways to crews quarters below. 2 doors port + starboard 24" x 60". Sills 21". 2 solid teak, both doors with screwed steel plate 1/8".  
3. Doors to engine room entrance at after end machinery casing, teak with 1/8" screwed steel plates. Opening 4'9" x 5'9" high. All doors manipulated from both sides.

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

On Freeboard deck. Fore.  
6. 24" dia. 6'-0" high. 40. to hold. 6'-0" coamings supported by brackets at deck; 9'-6"  
2. 24" " 9'-6" " 40 do. coamings supported by derrick tables.  
2. 12" " 3'-0" " 34 to tween decks.  
2. 6" " 3'-0" " 20 French tops.  
2. 24" Derrick plate, mushroom tops.

Aft. midship house.  
Port. Fine 19'-8" x 4". 29 high } 7 1/2" tops.  
Starboard. Fine 17" x 4. do. } to tween decks.

Air.  
2. 24" dia. 2'-9" high. 40 4. 10" dia. 2'-9" high. 32.  
2. 24" " 9'-6" " 40 1. 9" " 2'-9" " 32.  
2. 24" " 6'-0" " 40 2. 8" " 2'-9" " 32.  
3. 12" " 2'-9" " 34 French tops.  
Port 6. 8" x 4". 29 high } 7 1/2" tops also 2 at fore side of deck house.  
Starboard 6. 13' x 8" x 4". 29 high.

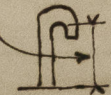
Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:-

Freeboard deck. Fore.  
1. 6" dia. to Fore Peak. 4'-10" high. Supported within fore. (see sketch).  
1. 5" " to No. 1 D.B. tank.  
4. 5" " " No. 2 D.B. tank.  
2. 5" " " No. 3 D.B. tank.

Aft. midship house.

2. 5" dia. to No. 3 D.B. tank.  
4. 5" dia. to No. 4 D.B. tank.  
4. 2 1/2" dia. to No. 5 D.B. tank.  
3. 5" Cofferson (Eng. Rm).  
2. 5" dia. to No. 6 D.B. tank.  
2. 6" dia. to Upper Deep tank.  
1. 6" dia. to lower Deep tank.

Air pipes except where marked otherwise are 29" to 31" to underside of bend.



On Superstructure deck.

Forecastle.  
1. 9" dia. 36" high. 32.  
2. 24" " 36" " 40.  
2. (1 P. 15) 12" x 4" 36" high. 7 1/2" tops.  
Midship Deck House.  
1. 12" dia. 21" high. 25. French top. to deep tank.  
Side houses aft.  
2. 24" dia. 30" high. 25. to hold.  
Deck house aft.  
1. 12" dia. 24" high. 34.

All ordinary coamings, except on deck house aft closed by metal covers, with canvas covers, also coamings with French (portable) tops.

Air.  
2. 6" dia. to Upper Deep tank.  
2. 6" " " lower " "  
2. 5" dia. to No. 6 D.B. tank.  
2. 5" " " No. 7 " "  
4. 5" " to Upper lower Deep tank. 24" to under side of bend.  
2. 5" " " No. 8 D.B. tank.  
2. 5" dia. to After Peak.  
Forecastle deck.  
1. 6" dia. to Fore Peak.  
1. 5" dia. to No. 1 D.B. tank.  
Side houses aft.  
2. 5" dia. to No. 9 D.B. tank.

All air pipes fitted with gauge appliances, except to No. 6 D.B. tank air pipes closed with canvas covers.

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Araybank.

Particulars of Gangway Cargo and Coaling Ports:-

None ✓

Particulars of Scuppers and Sanitary Discharge Pipes:- From spaces below freeboard deck.

- Two 2" scuppers one port one starboard from crews accommodation aft with screw plug at inner end and storm valve on ship's side below 2nd Deck. X
- Three scuppers from refrigeration spaces at after end No. 3 tween decks with one discharge and storm valve on shell on starboard side below 2nd Deck. X

From spaces above freeboard deck.

From weather part of freeboard deck scuppers formed in stringer angle to discharge overboard.  
2 1/2" scuppers from weather deck at doors at after end of midship deckhouse discharging through shell in tween decks.

2. 4" scuppers from weather deck at after side of after side houses discharging through shell.

Scuppers and sanitary discharges from accommodation spaces above freeboard deck led overboard below freeboard deck with storm valves at ship's sides.

Particulars of Side Scuttles:-

Below freeboard deck. In upper tween decks aft to crews accommodation and steering gear 12" dia. scuttles fitted with permanently attached hinged deadlights. Scuttles and deadlights of substantial construction.

No scuttles in fore-castle tween decks.

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

38'-6"

At fore end of crews accommodation aft.

Particulars of Guard Rails:-

On freeboard deck. Between fore-castle bridge house, bridge house + side houses aft. and aft of side houses aft. Stanchions about 4'-9" apart, 4 rails. Bulwark at after end of fore-castle, abreast bridge house and at after end.

Bulwark in bows on fore-castle deck. Rails (3) abaft this at sides and end. Stanchions about 4 feet apart.

Particulars of Gangways, Lifelines, etc.:-

Complete Superstructure vessel.

## 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 ...						

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.

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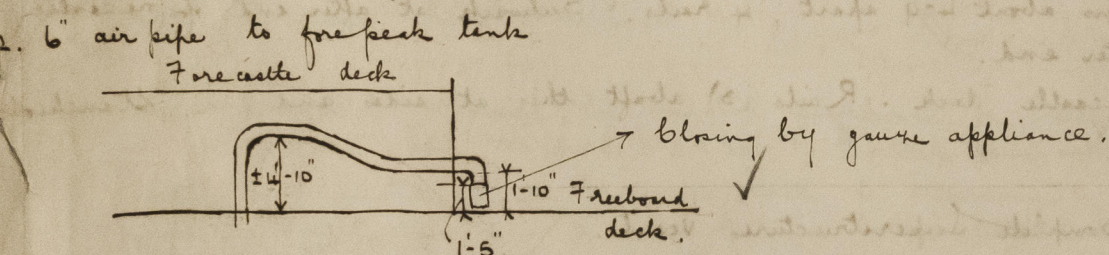
# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

## HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECK

Description of Hatchway	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.	In File to store	
Dimensions of Hatchway	29'3" x 22'	33' x 22'	30' x 22'	33' x 22'	30' x 22'	2'6" square	
COAMINGS	Height above Deck ... 30" Thickness Sides ... 44" Ends ... 44" Stiffeners ... 10 x 3 1/2 x 45 Brackets, Stays ... 9 x 3 1/2 x 40 <i>Stays to side coamings of 2nd deck</i>	As No. 1	As No. 1	As No. 1	As No. 1	2 1/2"	
HATCH BEAMS	Number ... 9 Spacing ... 9 in Scantling and Sketch ... 	9 x 63 19 x 46	9 x 64 13 1/2 x 42	9 x 65 14 x 42	9 x 64 13 1/2 x 42	9 x 65 14 x 42	None
Bearing Surface	On rollers	As No. 1	As No. 1	As No. 1	As No. 1	As No. 1	
FORE AND AFTERS	Number ... None Spacing ... None Unsupported Lengths ... Note. 2nd coamings have horizontal Scantling* and Sketch ... B.A. stiffener; coamings supported by welded L stiffeners, a winch guide brackets.	None	None	None	None	None	
Bearing Surface	On rollers	As No. 1	As No. 1	As No. 1	As No. 1	As No. 1	
HATCH COVERS	Material ... W.P. with 1/8" steel plating Thickness ... 2 1/2" How fitted ... F. + A. Bearing Surface ... 3" x 4"	As No. 1	As No. 1	As No. 1	As No. 1	W.P. 2 1/2" Thwartship 3"	
Spacing of Cleats	24"	24"	24"	24"	24"	None	
Number of Tarpaulins	2	2	2	2	2	do.	

\*Are wood fore and afters steel shod at all bearing surfaces? ☒ Yes  
 Are battens and wedges efficient and in good condition? ☒ Yes  
 Are tarpaulins in good condition and in accordance with rule requirements? ☒ Yes  
 Are lashings provided in accordance with rule requirements? ☒ Ring bolts provided.

Particulars of any special features:— 1. This vessel was commenced as similar to M.V. 'Ernebank' (same Builders No. 984) but with modifications to deckhouses and addition of forecastle, as C.S.S. vessel with tonnage opening. During construction it was decided to close the tonnage opening and extend seven W.T. bulkheads to upper deck. See Secretary's letter F. of 21. 2. 40 and Belfast letter of 1. 5. 40.



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.