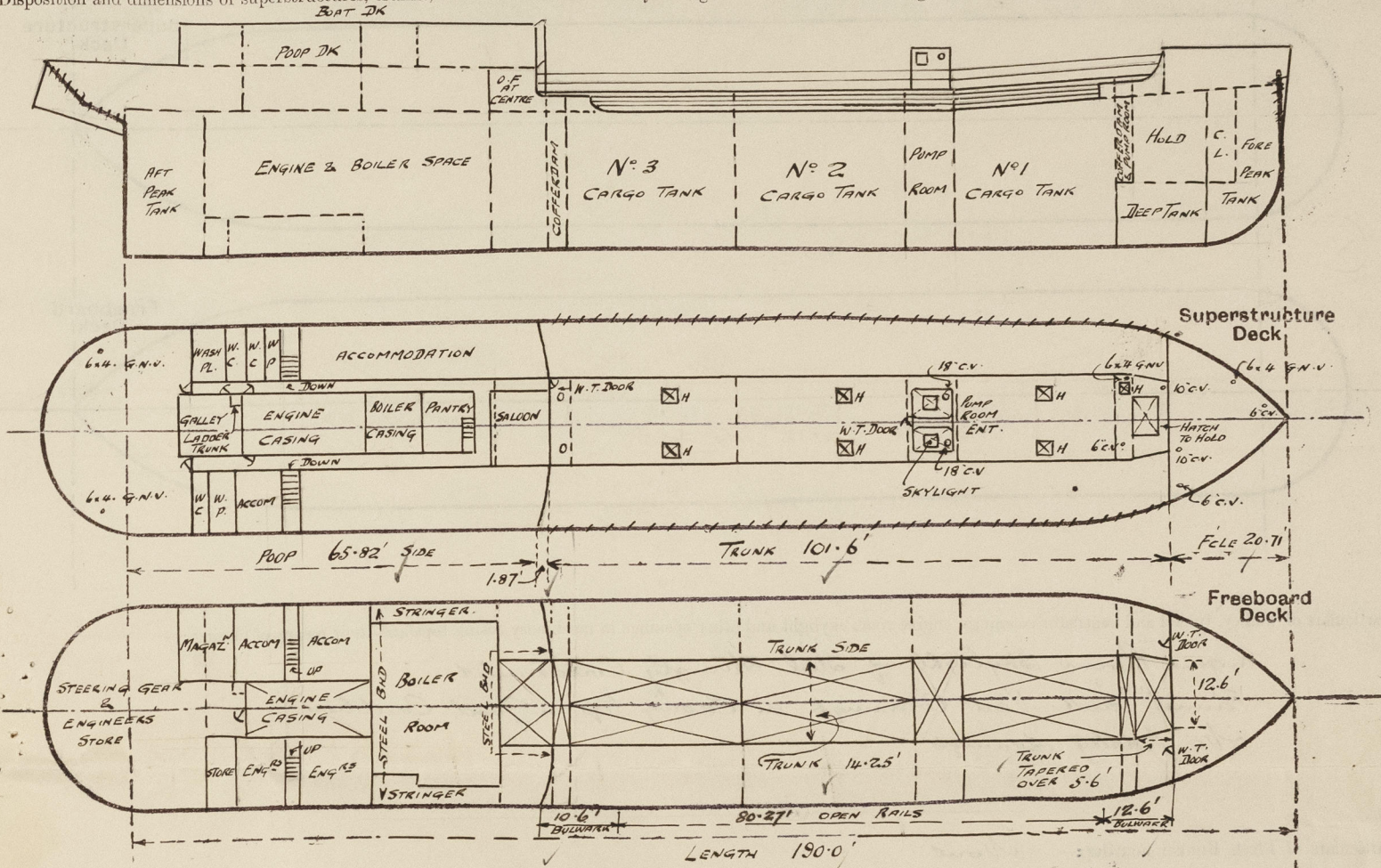


Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(CONDITIONS OF ASSIGNMENT.)

Ship's Name *EMPIRE BAIN* Port of Survey *Glasgow*
Official Number *168702* Surveyor's Signature *H. Dickerson*
Nationality and Port of Registry *British Glasgow* Date of Survey *While building*

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



Particulars of Superstructures, Trunks, Casings, Deckhouses.

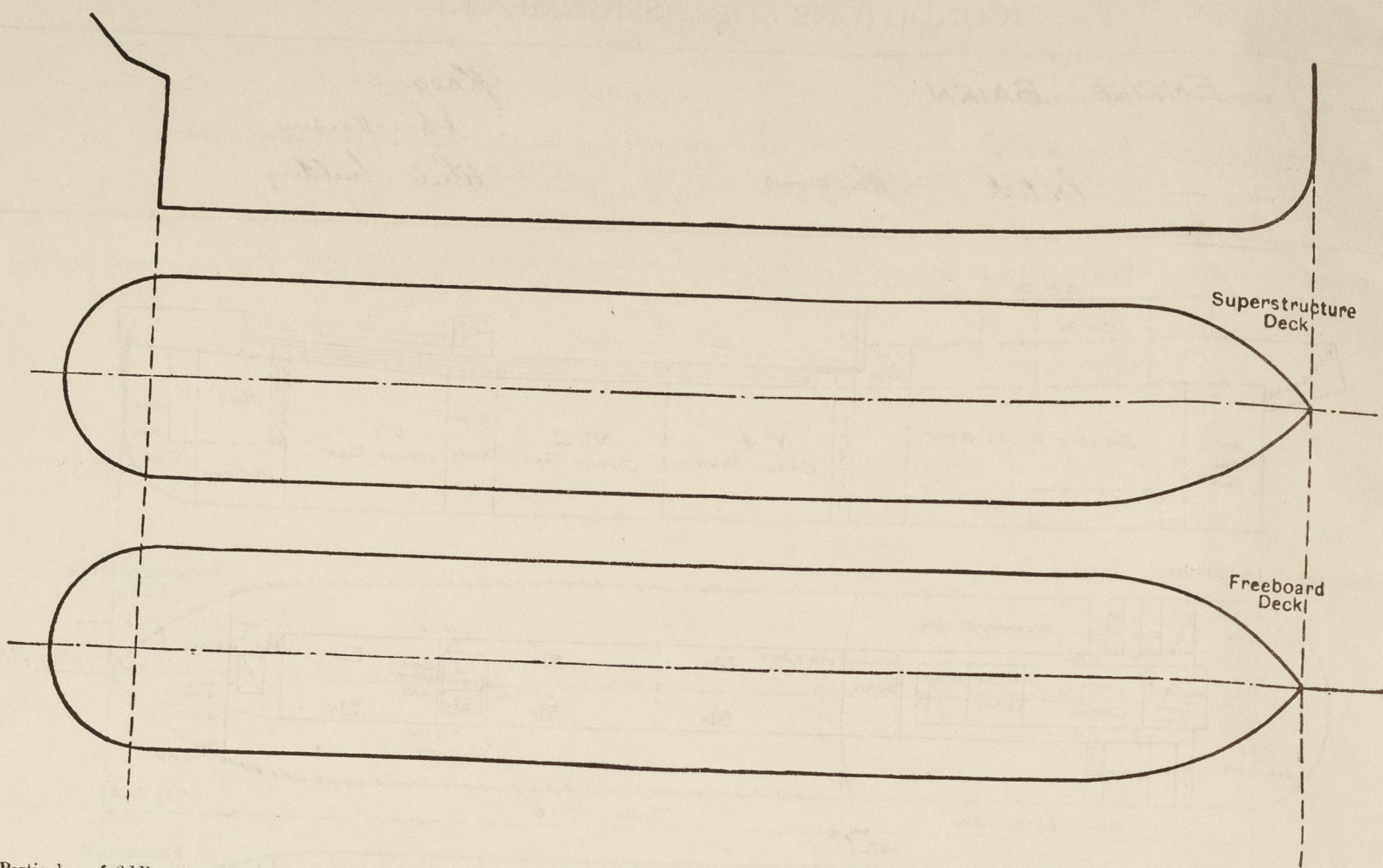
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead <i>at Sides of Trunk</i>	✓	✓	✓	✓	✓	✓	✓	✓
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Aft <i>Side</i>	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Forward								
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 Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	<i>No openings</i>
Raised Quarter Deck Bulkhead	
Bridge, After Bulkhead	
Bridge, Forward Bulkhead	
Forecastle Bulkhead	
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 fiddley, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing :-

Engine Room skylight and other openings in machinery casing tops and their means
 Engine Room skylight of steel strongly constructed
 Funnel and Vent Cappings on Casing tops in good condition
 No faddy openings

Particulars of Flush Bunker Scuttles:— *None*

Particulars of Companionways:— To accommodation in poop and to engine and boiler space ✓
 in Substantial Steel Deckhouse on poop deck. Openings in after end of house
 4-11 x 2-0 Hinged Solid Wood doors operated from both sides (P+S) Opening in forward end of house
 4-6 x 2-0 Steel hinged W.T. door operated from both sides. Sills to after opening 5' 8" Sill to fwd. opening 18"
 Main Pump room entrance of Steel on trunk top. Strongly Corrugated. Opening in after end 4-6 x 2-0 Steel
 Hinged W.T. Door operated from both sides Sill 21"

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

Fido Deck
2-6" C.V. to Fido Cummings 36x36 ✓
1-10" C.V. to Ford. hold Cummings 48x32 with Supporting Brackets ✓
1-6x4 G.N.V. to Fido 18" high to opening (C.V.) ✓

Trunk Top
1-10" C.V. to Ford. hold ✓

Trunk Top

- 1- 6"x4 G.N.V. to FCB 18" high to ceiling (C-1) with supporting brackets ✓
- 1- 10" C.V. to Ford hold Coaming 48"x32" with supporting bracket ✓
- 1- 6" C.V. to Ford pumproom Coaming 36"x30" ✓
- 1- 6"x4 G.N.V. " " " " 18" high to ceiling ✓

Main Pump Room

Main Pump Room
Entrance Top

Poop Deck 2-6x4 G.N.V. to Steering Gear Space 18" high to opening (C.I.)
all Cowl Vents to Rule Requirements and fitted with Wood plugs and Canvas Covers

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

Fide Deck 1-4" N.I. to fore peak 12' high 18" high ✓

<u>Trunk top</u>	2-4" "	to forward deep tank	18" high	✓
<u>Long Deck</u>			24" "	✓

Loop Deck 2-1½" to F.W. Lanks in pwp. 26" "

Loop Front-Bld 2-2 " to after peak tank 18" "

Keeps Front-Bld 2-3' to O.F. Benches 6'-0" high above base

Upper Deck 1-3 to 2 ft. Stinkens 6'-0" high above poop deck and Secured to Deckhouse front to Jetting tank 6'-0" high Secured to poop front Bulkhead ✓

Air pipes to O.F. Bunkers and Settling tanks fitted with Joints, Vascumex
fitted with Wood plugs and Canvas covers

Particulars of Gangway Cargo and Coaling Ports:—

ET. COPY

'Empire Basin'

Particulars of Scuppers and Sanitary Discharge Pipes :—

Stoppers from poop deck led through Ships' Bells above foreward deck
- upper deck in poop led to E.R. bridges

Discharges from WCs and Wash places on poop deck led through Ship's Side above foreboard deck and fitted with brass Storm Valves at outlets

Particulars of Side Scuttles :—

Loop 9" & 10" dia Filb 9" dia

All Sidelights of Substantial Construction and fitted with hinged deadlights

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

None below freeboard deck

Particulars of Guard Rails :—

<u>F-6 Deck</u>	Open	vents	3-6	high	With	Brods	and	Stanchions	Spaced	4'-0"	6'-5"
<u>Trunk top</u>	"	"	"	"	"	2"	"	"	"	4'-0"	6'-4"
<u>Upper Deck</u>	"	"	"	"	"	3"	"	"	"	4'-0"	6'-4"
<u>Lower Deck</u>	"	"	"	"	"	3"	"	"	"	4'-0"	6'-4"

Particulars of Gangways, Lifelines, etc.:—

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 Bulwark	10.6'	3' 9"	Mooring pipe 10" x 8" Freeing port 24" x 4"	1 1	450' 660	
Forward Well Bulwark	12.6'	3-7	Mooring pipe 10" x 8" Freeing port 24" x 4"	1 1	450' 660'	

State position of each freeing port	After ^{Bulwark} Well:—	2'-9" from poop front	½" above deck
(F. and A. position and height above deck edge)		Forward ^{Bulwark} Well:—	4'-6" " Feb end.	½" " "

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.

TRUNK TOP					
O.T & W.T HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.					
Description of Hatchway	1/2 after Cofferdam	1/2 Main Oil Tanks	1/2 Fore Cofferdam	1/2 Fore Boat
Dimensions of Hatchway	16 x 14	2'6" x 2'6"	2'0" x 2'0"	3'9" x 5'0"
COAMINGS	Height above Deck	1(P) 1(S)	3(P) 3(S)	1(P)	
	Thickness { Sides { Ends	Coaming	Coaming	Coaming	Coaming
	Stiffeners	10 x 3 1/2 x 50	10 x 3 1/2 x 44	9 x 3 1/2 x 40	9 x 3 1/2 x 40
	Brackets, Stays ...	Channel	B.A.	B.A.	B.A.
HATCH BEAMS	Number	Portable	hinged	Cover	Cover
	Spacing	Steel Covers	Covers	Secured	Secured
	Scantling and Sketch	Secured With 1" x 6" bolts spaced 4" fitted in Coaming	Secured With Toggles spaced 13"	With Toggles spaced 12"	With Toggles spaced 14"
	Bearing Surface ...	Coaming			
FORE AND AFTERS	Number	✓			
	Spacing				
	Unsupported Lengths				
	Scantling* and Sketch				
HATCH COVERS	Material				
	Thickness				
	How fitted				
	Bearing Surface ...				
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? ✓

Particulars of any special features:—

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.

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Lloyd's Register
Foundation