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(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having Poop with raised poop.

Port of Survey New Orleans

Date of Survey 4th February, 1939

Name of Surveyor A. W. Murray

Particulars of Classification Al-with freeboard.  
Service Gulf of Mexico & Caribbean  
Sea or Great Lakes, Newfoundland &  
up to Boston.

PRESIDENTE MADRERO (Type of Superstructures.)

Ship's Name FLORITA Nationality and Port of Registry Nicaraguan Bluefields Official Number --- Gross Tonnage 623 Date of Build 1920

Moulded Dimensions: Length 184' Breadth 25'-3" Depth 18'-4"  
Moulded displacement at moulded draught = 85 per cent. of moulded depth.  
Coefficient of fineness for use with Tables .72

## Depth for Freeboard (D)

Moulded depth ... 18'-4"  
Ringer plate ... 3/8"  
Heating on exposed deck  
 $T \left( \frac{L-S}{L} \right) =$

Depth for Freeboard (D) = 18'36"

## Depth correction

(a) Where D is greater than Table depth  
(D-Table depth) R =  $(18.36 - 18.27) \times 1.415 = + 8.62"$   
(b) Where D is less than Table depth (if allowed)  
(Table depth-D) R =  $6.09$

If restricted by superstructures ☒

## Round of Beam correction

Moulded Breadth (B) 25.3  
Standard Round of Beam =  $\frac{B \times 12}{50} = 6.07$   
Ship's Round of Beam = 5.3  
Difference 0.77  
Restricted to  
Correction =  $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{.32}{4} \times .9369 = +.07$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<u>11.75</u>	<u>11.75</u>	<u>3.75</u>	<u>3.75/6.00</u>	<u>7.34</u>
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
Circle enclosed ...					
" overhang ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	<u>11.75</u>	<u>11.75</u>			<u>7.34</u>

Standard Height of Superstructure 6.00

" " R.Q.D.

Deduction for complete superstructure 24.40Percentage covered  $\frac{S}{L} = 6.39$ "  $\frac{S_1}{L} = 6.39$ "  $\frac{E}{L} = 3.99$ Percentage from Table, Line A. nil  
(corrected for absence of forecastle (if required))Percentage from Table, Line B. ☒  
(corrected for absence of forecastle (if required))Interpolation for bridge less than .2L (if required) ☒Deduction = nil

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	<u>28.4</u>	<u>1</u>		<u>28.40</u>	<u>8.50</u>	<u>8.50</u>	<u>1</u>		<u>8.50</u>
$\frac{1}{4}$ L from A.P. ...	<u>12.64</u>	<u>4</u>		<u>50.56</u>	<u>3.50</u>	<u>3.50</u>	<u>4</u>		<u>14.00</u>
$\frac{2}{4}$ L " ...	<u>3.12</u>	<u>2</u>		<u>6.24</u>	<u>.75</u>	<u>.75</u>	<u>2</u>		<u>1.50</u>
Amidships ...	<u>-</u>	<u>4</u>		<u>-</u>	<u>-</u>	<u>-</u>	<u>4</u>		<u>-</u>
$\frac{3}{4}$ L from F.P. ...	<u>6.25</u>	<u>2</u>		<u>12.50</u>	<u>3.50</u>	<u>3.50</u>	<u>2</u>		<u>7.00</u>
$\frac{1}{4}$ L " ...	<u>25.28</u>	<u>4</u>		<u>101.12</u>	<u>13.0</u>	<u>13.00</u>	<u>4</u>		<u>52.00</u>
F.P. ...	<u>56.8</u>	<u>1</u>		<u>56.80</u>	<u>26.00</u>	<u>26.00</u>	<u>1</u>		<u>26.00</u>
Total ...	<u>132.49</u>			<u>255.62</u>	<u>55.25</u>	<u>55.25</u>			<u>109.00</u>

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{146.62}{18} \left( .75 - \frac{.0320}{.7180} \right) = + 5.85$ 

If limited on account of midship superstructure.

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 18.36  
Summer freeboard = 4.06  
Moulded draught (d) = 14.30

Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = 3.58 = 3 1/2

Addition for Winter North Atlantic Freeboard (if required) ☒

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ 

Tons per inch immersion at summer load water line

T =

Deduction =  $\frac{\Delta}{40T}$  inches $\frac{d}{4} = 3\frac{1}{2}$ 

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient  $\frac{72 + .68}{1.36} = \frac{1.40}{1.36}$ 

Depth Correction ... 8.62  
Deduction for superstructures ... -  
Sheer correction ... 5.85  
Round of Beam correction ... .07

Correction for Thickness of Deck amidships  
TO CORRESPOND TO AN APPROVED SUMMER EXTREME  
Other corrections, scantlings, etc. 14.34

+	-
<u>8.62</u>	
<u>5.85</u>	
<u>.07</u>	
<u>11.55</u>	
<u>26.09</u>	
	<u>26.09</u>

Summer Freeboard = 48.84SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water	Line above Centre of Disc ...	<u>7</u>
Fresh Water Line	" " ...	<u>3 1/2</u>
Tropical Line	" " ...	<u>3 1/2</u>
Winter Line	below " " ...	<u>✓</u>
Winter North Atlantic Line	" " ...	<u>✓</u>

Tropical Fresh Water Freeboard ...	<u>4'-0 3/4"</u>
Fresh Water	<u>3'-5 3/4"</u>
Tropical	<u>3'-9 1/4"</u>
Winter	<u>3'-9 1/4"</u>
Winter North Atlantic	<u>✓</u>

MARKING FORM

RECEIVED 13 MAY 1940



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS						
Description of Hatchway	No. 1	No. 2	No. 3			
Dimensions of Hatchway	23'-5" x 11'-2"	28'-10" x 13'-8"	16'-3" x 11'-2 1/2"			
COAMINGS	Height above Deck ... 33" Thickness ... 3/8" Sides ... 7" x 3" channels Stiffeners ... ALL Brackets, Stays ... welded to deck with angle bars	Height above Deck ... 33" Thickness ... 3/8" Sides ... 7" x 3" channels Stiffeners ... ALL Brackets, Stays ... welded to deck with angle bars	Height above Deck ... 33" Thickness ... 3/8" Sides ... 7" x 3" channels Stiffeners ... ALL Brackets, Stays ... welded to deck with angle bars			
HATCH BEAMS	Number ... 3 Spacing ... 5'-10" Scantling and Sketch ... ALL	Number ... 4 Spacing ... 5'-9 1/4" Scantling and Sketch ... 7/8" ANGLES 4" x 2 1/2" x 5 1/4"	Number ... 2 Spacing ... 5'-5" Scantling and Sketch ... 7/8" ANGLES 4" x 2 1/2" x 5 1/4"			
FORE AND AFTERS						
Bearing Surface						
HATCH COVERS	Material ... WOOD Thickness ... 3" How fitted ... FORE + AFT Bearing Surface ... ALL ON ANGLE BARS	Material ... WOOD Thickness ... 3" How fitted ... FORE + AFT Bearing Surface ... ALL ON ANGLE BARS	Material ... WOOD Thickness ... 3" How fitted ... FORE + AFT Bearing Surface ... ALL ON COAMINGS 3" WIDE			
Spacing of Cleats	24	24	24			
Number of Tarpaulins	3	3	3			

\*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? YES

Particulars of fiddle, funnel and ventilator coamings:—

2 in No on Casings Top.  
 18 Ventilators 15" to 18" diameter, 3 feet coaming, in good order.  
 Fiddle and funnel coamings good. Wood plugs and canvas covers.

Particulars of Flush Bunker Scuttles:—

None.

Particulars of Companionways:—

Steel door to engine room aft and galley, hinges and locks. Wood doors to accommodation 1 1/2" thick, oak (hinges and locks) size 5'-0" x 2'-0". All bolted from inside. Capable of being opened from both sides.  
 Height of coaming 18" from deck.

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

15" & 18" diameter ventilators all in good order. 3/8" plating coamings 3/32" top plating. Height of coamings 4 feet. Ventilators 8 feet. Wood plugs and canvas covers. Giving ventilation to Nos. 1, 2 and 3 holds and Engine and Boiler spaces.

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

All pipes fitted with gauze wire covers, 18" to 24" above deck. 7 Shaped.  
 36"

Particulars of Gangway Cargo and Coaling Ports:—

None.

Particulars of Scuppers and Sanitary Discharge Pipes —

One scupper midships, one aft, 2'-6" below deck with valves on ships side. Scupper midships from Officers' toilet, scupper aft from crews toilet. Both above freeboard deck.

Particulars of Side Scuttles:—

None. *Side light in Crews accommodation 6" dia with deadlight*

Particulars of Guard Rails:—

3 tier rails, except amidships.  
 Top rail 39" high 1" diameter rail. Remaining 2 - 3/4" diameter rail, stanchions 3' - 8" apart.

Particulars of Gangways, Lifelines, etc.:—

No gangways. Lifelines to after quarters from midship deck house, 1/4" diameter steel wire.

## 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 ...						
AMIDSHIPS	47 FEET	39"	23" x 18"	3	414 sq"	<i>Open rails supported.</i>
Forward Well ...						

State position of each freeing port (F. and A. position and height above deck edge) } After Well: — ALL MIDSHIPS  
 Forward Well: — ALL MIDSHIPS  
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— HINGED SHUTTERS  
 Additional area where sheer is less than standard. ✓

## Particulars of Superstructures, Trunks, Casings, Deckhouses.

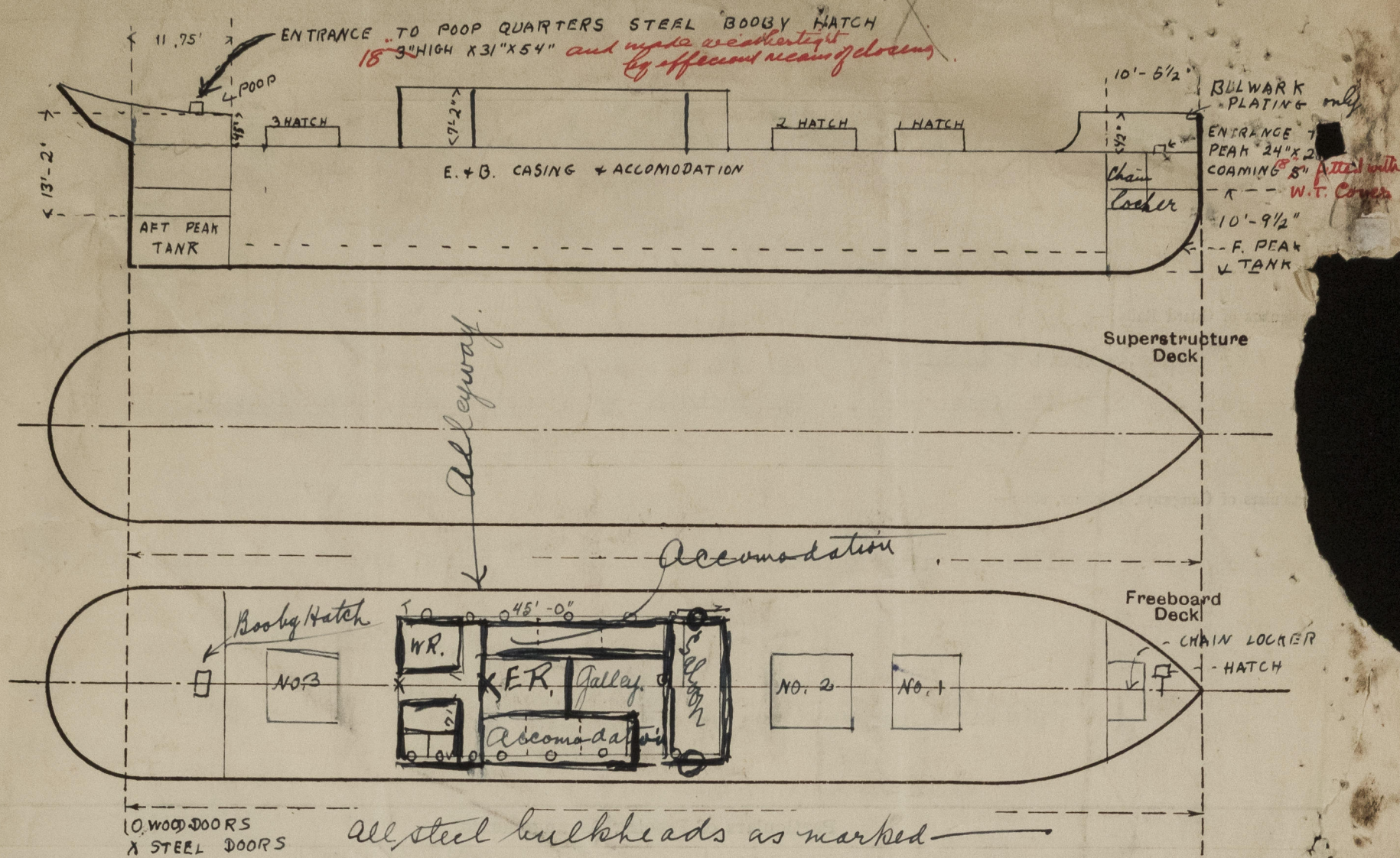
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...		3/8"	5/2 x 2 1/2	30"	✓	✓	✓	45"
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead ...								
Bridge, Forward Bulkhead ...								
Forecastle Bulkhead ...								
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	3/8"	5/16"	3" x 3" x 1/4"	18"	ANGLES	ENTRANCE DOORS ONLY TO ENGINE ROOM FIDLEY ACCOMMODATION	18"	7'-2"
Exposed Machinery Casings on Superstructure Decks ...								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...								
Deckhouses on Flush Deck Ships ...	AS	STATED	ABOVE					

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 ...	



Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



State any special features in the construction of the ship:—

Sunken poop from above main deck to 13' - 2" below top of deck. (Poop deck).

Builder's name and yard number ✓

Names of sister ships ✓

Owners Captain Vernon O. Peardon.

Fee £ : :

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