

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

24 JAN 1942

Ship's Name S. "ISLAND COMMANDER" EX S. "ANDREW KELLY"	Official Number 134745	Nationality and Port of Registry British Vancouver, B.C.	Gross Tonnage 270.98 (altered) { 1941 }	Date of Build 1912	Port of Survey Vancouver, B.C.
Moulded Dimensions: Length 117.6 ft. Breadth 21.87 ft. Depth 13.08 Virtual 13.75 ft.					Date of Survey November, 1941
Moulded displacement at moulded draught = 85 per cent. of moulded depth (4685) 412 tons					Surveyor's Signature F.B. Gill and Munro
Coefficient of fineness for use with Tables .447 .68 (actual, less than .68)					Particulars of Classification 100A - "for Towing Services." (CONTINGENT)

Depth for Freeboard (D) = 13.11	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = (13.11 - 7.84) x .905 = + 4.77" (b) Where D is less than Table depth (if allowed), (Table depth - D) R = 5.17 If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 21.87 ft. Standard Round of Beam = $\frac{B \times 12}{50} = \frac{21.87 \times 12}{50} = 5.25"$ Ship's Round of Beam = 7 inch Difference 1.75" Restricted to Correction = $\frac{\text{Diff}^*}{4} \times (1 - \frac{S_1}{L}) = \frac{1.75}{4} \times 0.308 = -.01"$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
.. overhang ...					
R.Q.D. enclosed ...	98.6	98.60	.67'	.92/3.17	29.10
.. overhang ...			+ .25'		
Bridge enclosed ...			sheathing		
.. overhang aft ...					
.. overhang forward					
Fore enclosed OPEN ...	19.0	15.38	ON C.L. -	4.79/6.0	12.28
.. overhang ...			ATEP 4'-9"		
Trunk aft ...			FORE FRONT 6'-5"		
.. forward ...					
Tonnage opening aft ...					
.. forward					
Total ...	117.6	113.98			41.38

Standard Height of Superstructure	6.00'
" " R.Q.D.	3.117'
Deduction for complete superstructure	17.76"
Percentage covered $\frac{S}{L} =$	100.00
" " $\frac{S_1}{L} =$	96.92
" " $\frac{E}{L} =$	35.19
Percentage from Table, Line A.	19.41
(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 =	17.76 x .1941 = -3.45"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
L.P. ...	21.76	1		21.76	47.00	47.00	1		47.00
L from A.P. ...	9.685	4		38.74	27.00	27.00	4		108.00
L " ...	2.39	2		4.78	9.20	9.20	2		18.40
midships ...	-	4		-	-	-	4		-
L from F.P. ...	4.785	2		9.57	9.20	9.20	2		18.40
L " ...	19.375	4		77.50	27.00	27.00	4		108.00
L.P. ...	43.52	1		43.52	47.00	47.00	1		47.00
Total ...				195.87					346.80

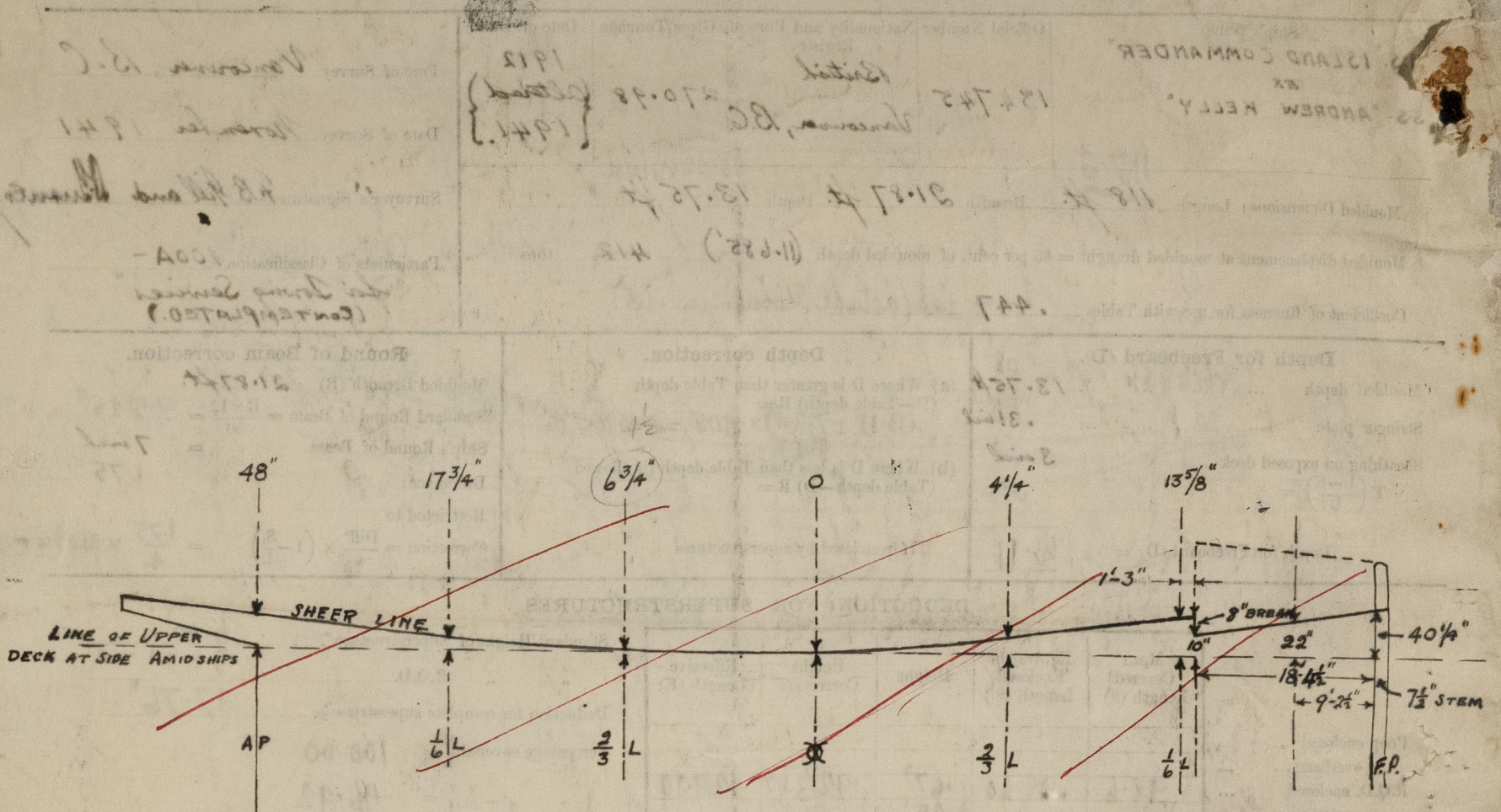
Correction = $\frac{\text{Difference between sums of products}}{18} = \frac{195.87 - 346.80}{18} = -8.38$
If limited on account of midship superstructure. **no correction**
If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Fresh Deck (if required)	11.76
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line 10'-6"	Correction for coefficient None	11.76
Depth to Freeboard Deck = 14.03	$\Delta =$ 348 tons	Depth Correction ... 4.77	
Summer freeboard = 2.67	Tons per inch immersion at summer load water line	Deduction for superstructures ... 3.45	
Moulded draught (d) = 11.36	$T =$ 4.58	Sheer correction01	
Deduction for Tropical freeboard and Addition for Winter freeboard = $\frac{d}{4}$ inches = 2.84 = 2 3/4"	Deduction = $\frac{\Delta}{40T}$ inches = 2.18	Round of Beam correction 11.00	
Addition for Winter North Atlantic Freeboard (if required) =	= 2 1/4"	Correction for Thickness of Deck amidships 7.93	
		Other corrections, scantlings, etc. to position of lowest side scuttle 13.703.46	40.24
		Summer Freeboard = 32.00	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ...	2 1/4"	Tropical Fresh Water Freeboard ...	2'-8"
Fresh Water Line " " ...	2 1/4"	Fresh Water " " ...	2'-5 3/4"
Tropical Line " " ...	2 3/4"	Tropical " " ...	2'-10 3/4"
Winter Line below " " ...	-	Winter " " ...	-
Winter North Atlantic Line " " ...	-	Winter North Atlantic " " ...	-

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.



Trade of ship

Towing and Salvage Work.

Names of sister ships

Builder's name and yard number *Cochrane and Sons, Selby, England. Yard No. 534*

ALTERATIONS BY - *North Van Ship Repairs, Ltd., North Vancouver, B.C. 1941.*

Owners *Island Tug and Barge Co. Ltd., Victoria, B.C.*

Fee *\$30.00*



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