

RADIUS OF QUADRANT 4'-0" (DETAILS OF SINGLE ARM TILLER, PER TABLE 45)

STEERING CHAINS $\frac{13}{16}$ " ✓
RODS 1" ✓

TAYLOR PALLISTER RUDDER BRAKE ON TILLER (AUXILY STEERING FROM AFTER WINCH)

STEAM STEERING GEAR AMIDSHIPS.

Spare tiller to be provided, or main tiller increased, as per Rule.

22/3/24.

No of ORD	ORD ^E	S. M.	FUNCTION	$\frac{1}{2}$ ORD ^E	MOMENTS.
1	1-23	1	1-23 ✓	.62	.76 ✓
2	3-75	4	15-00 ✓	1.88 ✓	28.2 ✓
3	4-33	2	8-66 ✓	2.17 ✓	18.8 ✓
4	4-33	4	17-32 ✓	2.17 ✓	37.6 ✓
5	4-16	$\frac{1}{2}$	6-24 ✓	2.08	13.0 ✓
5 $\frac{1}{2}$	3-5	2	7-00 ✓	1.75 ✓	12.25
6	1-00	$\frac{1}{2}$.50 ✓	.5	.25

55.95

110.86

$$\text{C.G. ABAFT FRONT OF RUDDER} \frac{110.86}{55.95} = 1.98' \checkmark$$

$$\text{FRONT OF RUDDER ABAFT C.L. OF PINTLES} = .38' \checkmark$$

$$\text{C.G. ABAFT C.L. OF PINTLES} = \underline{2.36'} \checkmark$$

$$\text{AREA OF RUDDER} \frac{55.95 \times 3.56}{3} = 66.4' \checkmark$$

$$A \times D = 66.4 \times 2.36' = \underline{157} \checkmark$$

SPEED UNDER 10 KNOTS

$$\text{RUDDER HEAD TO RULE} = \underline{6" \text{ DIA.}} \checkmark$$

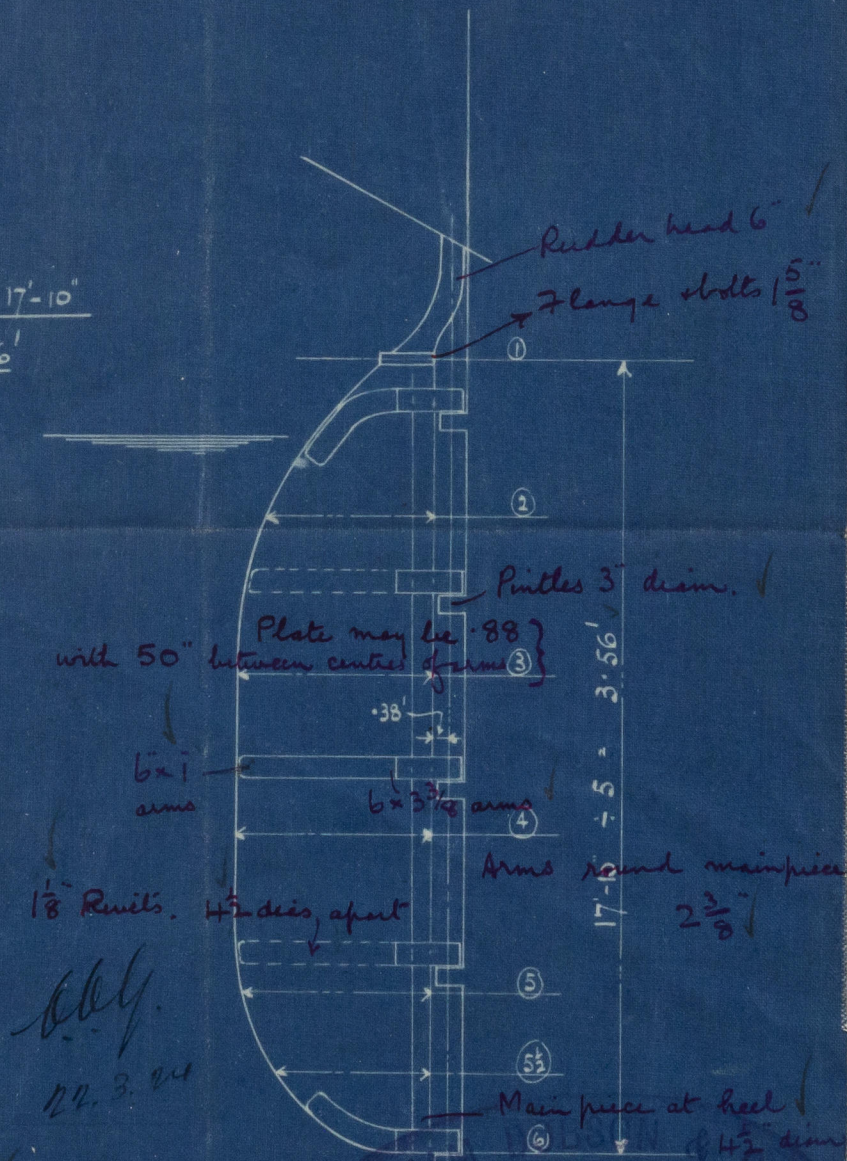
CALC^N FOR SIZE OF RUDDER HEAD

N^o 223 SHIP

SCALE $\frac{1}{4}" = 1 \text{ FOOT.}$

TOTAL DEPTH 17'-10"

C-I 3.56'



22.3.24



SHIPBUILDERS

DATE 19/3/24

NEWCASTLE ON TYNE

003106-003115-0003

Messrs Wm Dobson & Co.

N^o 223.

Plan of Rudder

N^o 4

S. S. ALGOL
NEWCASTLE ON TYNE.

Report No. 174173.

Plan of Rudder

Wm Dobson & Co
No 223



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