

13/10/19

RUDDER (FORGED STEEL)

TOP EDGE ROUNDED DOWN TO $\frac{1}{2}$ " RADIUS
HOLE $\frac{1}{2}$ " DIA^B PLACED IN A FORE & AFT DIRECTION.

46 - $3\frac{1}{2}$ " IN 884 (TAKEN FROM SHIP)
46 - $2\frac{1}{2}$ " IN 881 (TAKEN FROM SHIP)

EXTREME LENGTH OF RUDDER FRAME = 46' 4"

28' - $1\frac{1}{4}$ " IN 884 (TAKEN FROM SHIP)
28' - 0" IN 881 (TAKEN FROM SHIP)

HOLES FOR PINTLES TO BE CENTRED $5\frac{3}{4}$ " FROM FORE SIDE OF RUDDER FRAME.
HEAD & HOLES FOR HEEL & PINTLES TO BE TURNED IN A LATHE SO AS TO GET THEM QUITE TRULY CENTRED. CHECK THE HEIGHTS OF GUDGEONS ON RUDDER FRAME FROM THE HEIGHTS OF GUDGEONS ON SCREW FRAME & MAKE THEM CORRESPOND.

SPEED NOT EXCEEDING 12 KNOTS

AREA OF RUDDER = 135.39 sq

CENTRE OF GRAVITY = 4' 26"

PINTLES $5\frac{1}{2}$ " DIA^B

46 BOLTS IN COUPLING $3\frac{1}{2}$ " DIA^B
SEE LARGE SKETCH FOR DETAIL OF COUPLING.

SECTION THRO. A.A.

SECTION THRO. B.B.

SECTION THRO. C.C.

SECTION THRO. D.D.

SPACE BETWEEN ARMS FOR 1" 10" STEEL PLATE.

NOTE: THE DISTANCE BETWEEN THESE TWO CENTRES IS LESS AT BOTTOM OF RUDDER.

STEEL PLATE 1" 10" THICK
14 RIVETS, $1\frac{1}{2}$ " HOLES SPACED $5\frac{1}{8}$ " APART CENTRES.

NOTE: THE DISTANCE BETWEEN THESE TWO CENTRES IS GREATER AT TOP OF RUDDER.

NOTE: RUDDER POST TO BE $\frac{1}{8}$ " MORE IN DIA^B AT EACH ARM FOR 13" DEEP FROM $\frac{1}{2}$ " ABOVE TOP OF ARM FOR KEYWAY. EXCEPT BOTTOM ARM WHICH IS 12" DEEP.
NO SLOT IN BACK OF POST FOR RUDDER PLATE.

THIS PART LEFT FULL TO ENSURE ITS STOPPING RUDDER AT 42° RATHER LEAVE $\frac{1}{2}$ " TO CHIP OFF THAN BE THE LEAST SCANT.

RUDDER PLATE 1" 10" THICK

KEYWAY

POST 9 x 7 1/2

SKETCH OF STOPPERS
SCALE 3" = 1 FOOT

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Rudder

& City of Glasgow "X"

now Marianne B

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