

# RUDDER AND STERN FRAME S.S. N<sup>o</sup> 224.

TRACING N<sup>o</sup> 3043.

SCALE  $\frac{3}{4}$  IN | FOOT.  
ALL TO BE PASSED BY LLOYDS.

R. WILLIAMSON & SON

SHIPBUILDERS.

WORKINGTON.

RUDDER FRAME:- TO HAVE PINS TURNED AND SCREWED TO SIZE GIVEN.

CENTRE LINE OF PINS TO BE TRUE BOTH WAYS. GREAT CARE

TO BE TAKEN TO HAVE STERN POST AND RUDDER POST EXACT LENGTH.

STERN POST:-  $5\frac{3}{4} \times 3\frac{3}{4}$  TAPERED ABOVE DOTTED LINE TO  $5\frac{3}{4} \times 1\frac{3}{4}$  AT HEAD.

HOLES IN POST BELOW DOTTED LINE FOR 1 RIVETS 5" APART.

HOLES ABOVE DOTTED LINE FOR  $\frac{3}{4}$  RIVETS  $3\frac{3}{4}$  APART.

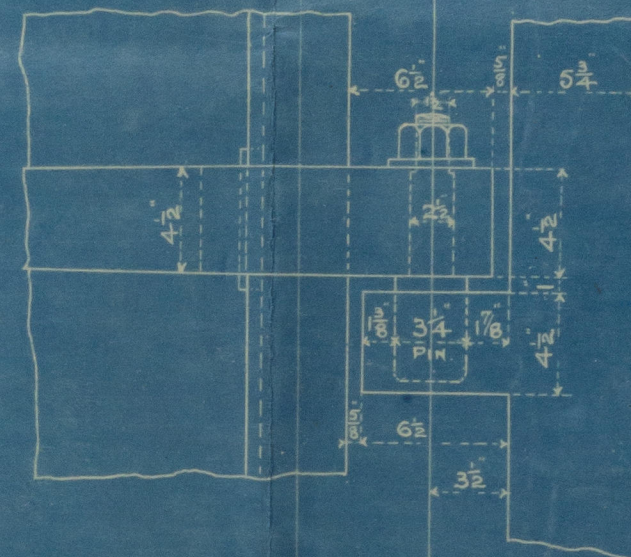
PROPELLER POST:-  $6\frac{1}{4} \times 3\frac{3}{4}$ . HOLES FOR 1 RIVETS 5" APART.

ENLARGED SKETCH OF GUDGEONS AND PINS.

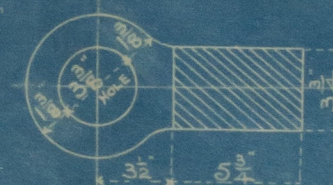
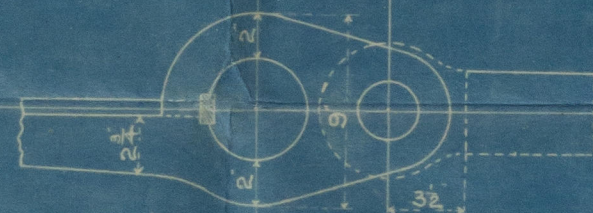
$3\frac{3}{8}$ " HOLES BORED IN STERN POST GUDGEONS 4" DEEP, BOTTOM

GUDGEON BORED  $3\frac{1}{2}$ " DEEP. CENTRE OF HOLES  $3\frac{1}{2}$ " AFT SIDE OF

POST, SO THAT RUDDER WILL WORK  $\frac{5}{8}$ " CLEAR.



SCALE  $\frac{1}{2}$  IN = 1 FOOT



NOTE:- SHIPBUILDERS ROUGH BORE  $15\frac{1}{4}$ "

ENGINEERS FINISHED BORE  $15\frac{1}{2}$ "

DISTANCE OF C.G. ABAFT CENTRE  
LINE OF PINTLES IS 1.99 FEET.  
AREA OF RUDDER IS 41.13 SQ. FEET.

$1.99 \times 41.13 = \text{NUMERAL } 81.84.$

SPEED UNDER 10 KNOTS.

RUDDER BANDS BORED FOR 1 RIVETS  
 $4\frac{1}{2}$ " APART. HOLES TO BE COUNTERSUNK  
ON OUTSIDE.

DIAMETER OF RUDDER  
STOCK, INCREASED 10%  
IN WAY OF ARMS.

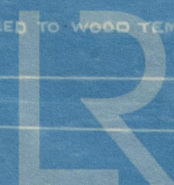
PLATE TO DOTTED LINE  $\frac{3}{8}$ " THICK.

HEIGHT OF POST FROM BASE TO HEAD 20' 6"

TOTAL LENGTH OF RUDDER FROM BASE TO HEAD 21' 3"

RUDDER STOCK IN WAY OF RUDDER BANDS TO BE TURNED PARALLEL FOR A DEPTH OF 9" AT EACH BAND

FORGED AND BORED TO WOOD TEMPLATE



Lloyd's Register  
Foundation

002109-002118-0040

B281



Copy as hull.

R Williams & Son  
Steam Trawls & Riggers

No 224

S.S. "GALACUM"

Bow RM-No 1650



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