

PLAN N° 23.

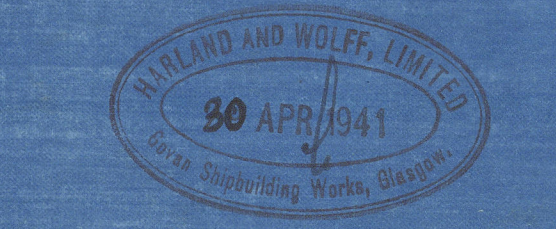
N° 1163. + 11838.

# RUDDER PLAN.

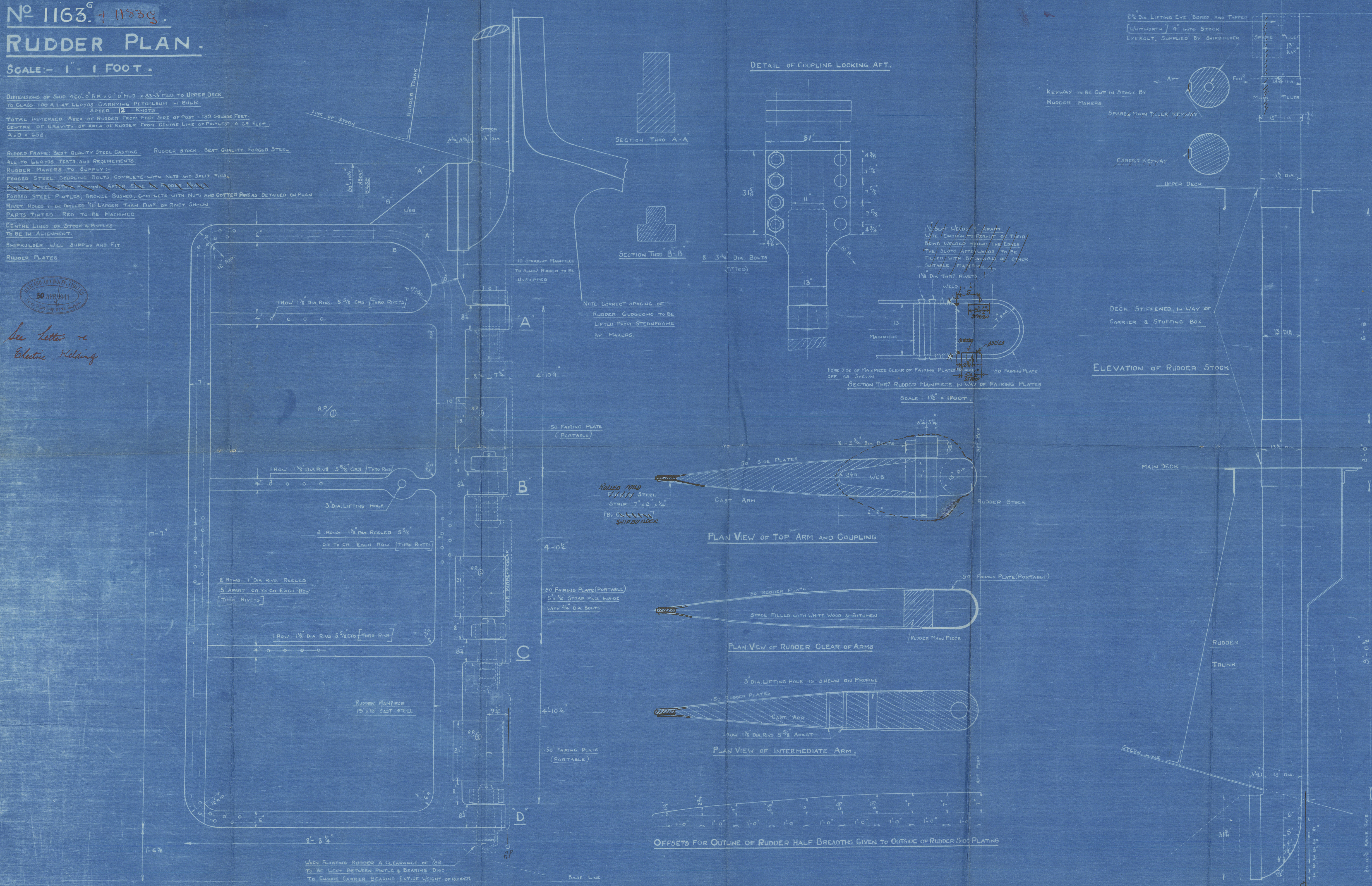
SCALE:- 1" = 1 FOOT.

DIMENSIONS OF SHIP 460'-0" B.P. x 61'-0" MLD. x 33'-3" MLD. TO UPPER DECK.  
TO CLASS 100 A.1. AT LLOYD'S CARRYING PETROLEUM IN BULK.  
SPEED 12 KNOTS.  
TOTAL IMMERSED AREA OF RUDDER FROM FORE SIDE OF POST 139 SQUARE FEET.  
CENTRE OF GRAVITY OF AREA OF RUDDER FROM CENTRE LINE OF POSTLES 4.68 FEET.  
A.D. 1902.

RUDDER FRAME: BEST QUALITY STEEL CASTINGS. RUDDER STOCK: BEST QUALITY FORGED STEEL.  
ALL TO LLOYD'S TESTS AND REQUIREMENTS.  
RUDDER MAKERS TO SUPPLY:-  
FORGED STEEL COUPLING BOLTS COMPLETE WITH NUTS AND SPLIT PINNERS.  
FORGED STEEL PINTLES, BRONZE BUSHES, COMPLETE WITH NUTS AND COTTER PINS AS DETAILED ON PLAN.  
RIVET HOLES TO BE DRILLED 1/8" LARGER THAN DIAS. OF RIVET SHOWN.  
PARTS TINTED RED TO BE MACHINED.  
CENTRE LINES OF STOCK & PINNERS TO BE IN ALIGNMENT.  
SHIPBUILDER WILL SUPPLY AND FIT RUDDER PLATES.



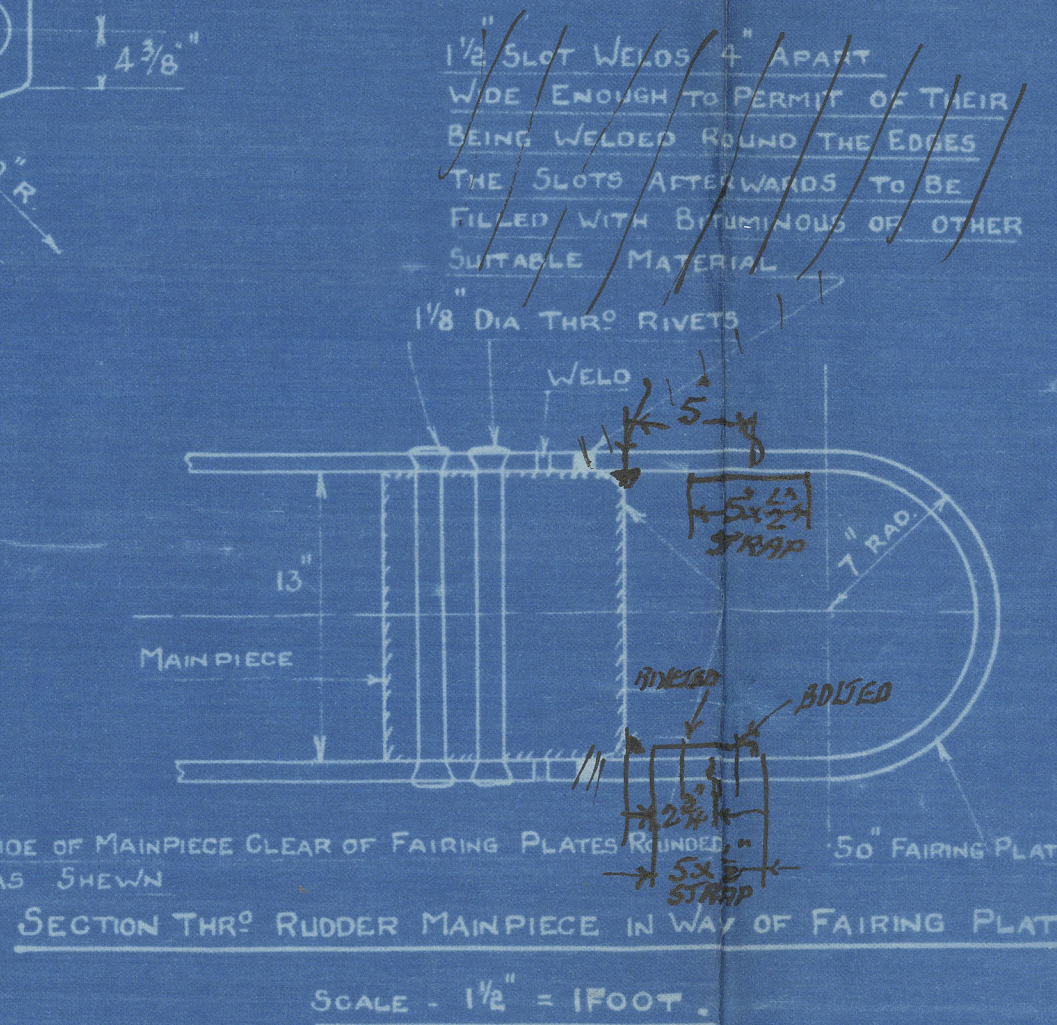
See Letter re Electric Welding



DETAIL OF COUPLING LOOKING AFT.

SECTION THRO A-A

SECTION THRO B-B



ELEVATION OF RUDDER STOCK

PLAN VIEW OF TOP ARM AND COUPLING

PLAN VIEW OF RUDDER CLEAR OF ARMS

PLAN VIEW OF INTERMEDIATE ARM

OFFSETS FOR OUTLINE OF RUDDER HALF BREADTHS GIVEN TO OUTSIDE OF RUDDER SIDE PLATING

DETAIL OF GUDGEON B AND LOCKING PINTLE

DETAIL OF PINTLE NUTS - SCALE - 1/4" FULL SIZE.

DETAIL OF GUDGEONS A & C AND PINTLES

DETAIL OF BOTTOM GUDGEON D AND PINTLE

NOTE:- DETAILS NOT INDICATED SIMILAR TO SKETCH BELOW.

NOTE:- ALL PINTLES TO BE SUPPLIED COMPLETE BY RUDDER MAKERS. PINTLES TO BE OF STEEL MADE AND EFFICIENTLY FITTED AS PER DETAILS.

APPROVED FOR 11838  
LLOYD'S REGISTER OF SHIPPING  
James K. Clark  
DATE 19/1/02

APPROVED  
LLOYD'S REGISTER OF SHIPPING  
James K. Clark  
DATE 5/3/01



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HARLAND & WOLFFS

N<sup>o</sup> 1163 G. & N<sup>o</sup> 1183 G.

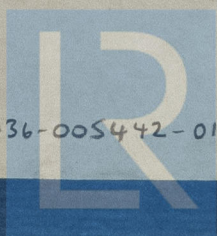
"RUDDER PLAN"

*Shd. 1163<sup>e</sup> San Vulfrano*  
GLASGOW REPORT No. 66419

*1163<sup>e</sup> San Vulfrano*  
GLASGOW REPORT No. 66526

*Shd. 1183<sup>e</sup> San Vito*  
GLASGOW REPORT No. 67876

*1183<sup>e</sup> San Vito*  
GLASGOW REPORT No. 67930



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Lloyd's Register  
Foundation