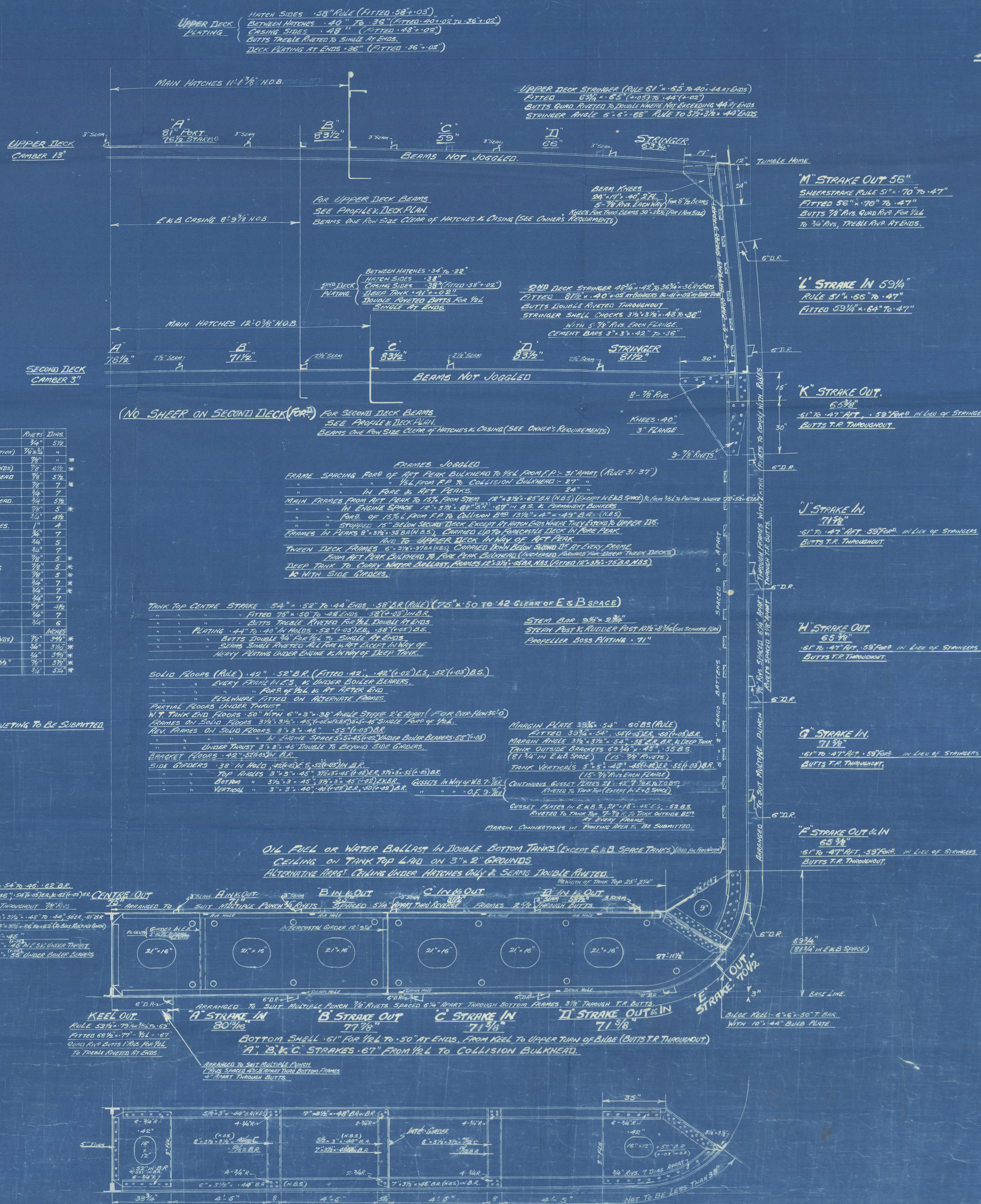


5/5 HARPACUS SSN^o 282. MIDSHIP SECTION. AS BUILT SCALE: 1/2" = 1 FOOT DIMENSIONS:- 428'-0" B.P. x 58'-2 1/2" BOTH M.L. x 38'-3" M.L. TO UPPER DECK. CLASS * 100 A.I. WITH FREEBOARD x 28'-9" " " SECOND " CORRESPONDING TO A DRAFT NOT EXCEEDING THAT CONTEMPLATED BY THE RULES, FOR A COMPLETE SUPERSTRUCTURE SHIP HAVING A TONNAGE OPENING.



INCREASED THICKNESSES ABOVE LLOYD'S SCANTLING'S ARE REQUIRED
BY OWNERS AS STATED BELOW.

THE FOLLOWING TO BE OF CHROMIUM STEEL:-
ALL MATERIAL IN ENGINE & BOILER ROOM TANKS, & PLUS 5% OVER MILD STEEL.
C.G. GIRDER PLATES & ANGLES IN E.B.S.
FORECASTLE DECK PLATING, & PLUS 5% OVER MILD STEEL.
TANK TOP IN ENGINE & BOILER SPACE & PLUS 5% OVER MILD STEEL.
SECOND DECK PLATING, & PLUS 5% OVER MILD STEEL IN WAY OF BUNKERS.
UPPER DECK PLATING WHERE EXPOSED & PLUS 5% OVER MILD STEEL.
SHELL PLATING FORWARD IN WAY OF PLATING AREAS IN WAY OF FORE PEAK STRINGERS.
THE WHOLE OF THE DEEP TANK INCLUDING DECK BEAMS, FRAMES, SHELL, BULKHEADS, TANK TOP & ALL STRINGERS & FRAME CONNECTIONS.

DOUBLE BOTTOM TO BE ABOUT 3/4" IN EXCESS OF LLOYD'S REQUIREMENTS
C.G. LINE B.H. IN HOLD 3/8" THICK & 1/8" THICK IN TWEEN DECK.
BEAMS TO UPPER & 2ND DECK TO BE ONE ROW SIZE CLEAR OF HATCH & CASING WITH
GIRDERS IN LINE WITH HATCH SIDECAMINGS

RIVETING LIST

ITEMS.	QUANTITY	DIAMETER
SIDE FRAMES TO SHELL IN FORE & AFT PEAKS.	34"	5/16"
" " " " 10% HATCH COLLISION BULKHEAD (RULE POSITION)	78"	5/16"
" " " " IN DEEP TANK.	78"	5/16"
" " " " ELSEWHERE (3/4" RIVETS AT ENDS)	78"	5/16"
BOTTOM FRAMES TO SHELL FORWARD OF V.L. TO COLLISION BULKHEAD.	78"	5/16"
" " " " FROM AFT TO V.L. FORWARD.	78"	5/16"
" " " " FLOORS " " " " V.L. FORWARD.	78"	5/16"
BULKHEAD FRAMES TO SHELL } DOUBLE RIVETED BULKHEADS	78"	5/16"
" " " " BULKHEAD } TO DEEP TANK	78"	5/16"
REVERSE FRAMES TO TANK TOP UNDER ENGINE HEAVY PLATES.	78"	5/16"
" " " " FLOORS.	78"	5/16"
" " " " N.T. DIVISIONS	78"	5/16"
" " " " TANK TOP & FLOORS ELSEWHERE	78"	5/16"
CENTRE GIRDER BOTTOM ANGLES	78"	5/16"
" " " " VERTICAL	78"	5/16"
" " " " TOP & BOTTOM " "	78"	5/16"
" " " " VERTICAL " "	78"	5/16"
N.T. FLOORS VERTICALS	78"	5/16"
MARGIN PLATE (E.B. PLATES)	78"	5/16"
BULKHEAD STUDS EXCEPT PEAKS & DEEP TANK	78"	5/16"
" " " " IN " " " "	78"	5/16"
SEAMS OF SHELL PLATING (DOUBLE)	78"	5/16"
" " " " TANK TOP PLATING (SINGLE)	78"	5/16"
" " " " SECOND DECK " "	78"	5/16"
" " " " UPPER DECK " "	78"	5/16"
BEAMS TO DECK PLATING (AT EVERY FRAME)	78"	5/16"

* ARRANGED TO SUIT MULTIPLE PUNCH.

NOTE:- MIDSHIP SECTION OF MULTIPLE RIVETING TO BE SUBMITTED.

LENGTH ON LOAD LINE.

LENGTH ON LOAD LINE.	428'-0"
BREADTH MOULDED	38'-3 1/2"
DEPTH TO UPPER DECK.	38'-3"
" " " " SECOND DECK	28'-9"
RULE DEPTH (28'-9" + 8'-0")	36'-9"
1ST NUMBER $\frac{L \times D}{100}$	15779.00
2ND " $\frac{L \times (B+D)}{100}$	40632.00
$\frac{L \div B}{100}$ BY DEPTH TO SHELTER DECK =	11.19
$\frac{L}{100}$ AT V.L. FORWARD FRAMES	24.40
$\frac{L}{100}$ AT E.B. SPACE	24.40
$\frac{L}{100}$ AT COLLISION BULKHEAD, PAINTING FRAMES.	24.40
$\frac{L}{100}$ (OTHER THAN FRAMES)	24.40

EQUIPMENT NUMBER

2ND NUMBER	41280.00
FORECASTLE	160.31
CASING & SIDEHOUSES	289.20
SALOON-DECKHOUSE	121.00
BRIDGE	82.00
AFTER	133.00
TOTAL	42076.11

2 BOWER ANCHORS 7200 LBS EACH STOCKLESS

1 " " 6200 LBS STOCKLESS

BOWER ANCHORS COLLECTIVE HEIGHT 2070 LBS.

1 STREAM ANCHOR 2012 LBS EX STOCK

300 FATHOMS 2 1/2" STUD CABLE (MAYO PATENT) RULE 2 1/2"

120 " 5" STEEL WIRE STREAM

130 " 5" " " " " " "

2-100 " 2 1/4" " " " " " "

2-100 " 2 1/4" " " " " " "

s.s. "Harpegnus"
Barton Tons, Ltd., No. 282.

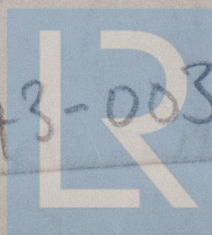
SUNDERLAND RPT. NO.

32855.

Midship section (As Built.)

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W43-0030



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