

# MIDSHIP SECTION.

DIMENSIONS: 420'-0" B. P. x 53'-9" M<sup>LD</sup> x 38'-1" K. TO B.

SCALE  $\frac{1}{2}$ " = 1 FOOT.

TO CLASS 100 A1 [WITH FREEBOARD.]



COPY TO  
MR KEITH 28.5.23  
LLOYDS 31.5.23 50.24  
DO 8.6.23  
BELFAST  
OWNERS 16.6.23  
MCDONALDSON 24.7.24  
LLOYDS 25.7.24

## NUMERALS.

$D = 37.15$   $d = 25.56$   
 $L \times D = 419.5 \times 37.15 = 15534$   
 $L \times (B+D) = 419.5 (53.75 + 37.15) = 38133$   
 $\frac{L}{D}$  TO SHELTER DECK = 11.3  
EQUIPMENT N°  
 $38133 + 328 = 38461$

## SHELTER DECK.

6" x 6" x 60" ANGLE

2 7/8" DIA SOLID PILLARS  
ON ALT BEAMS

## UPPER DECK.

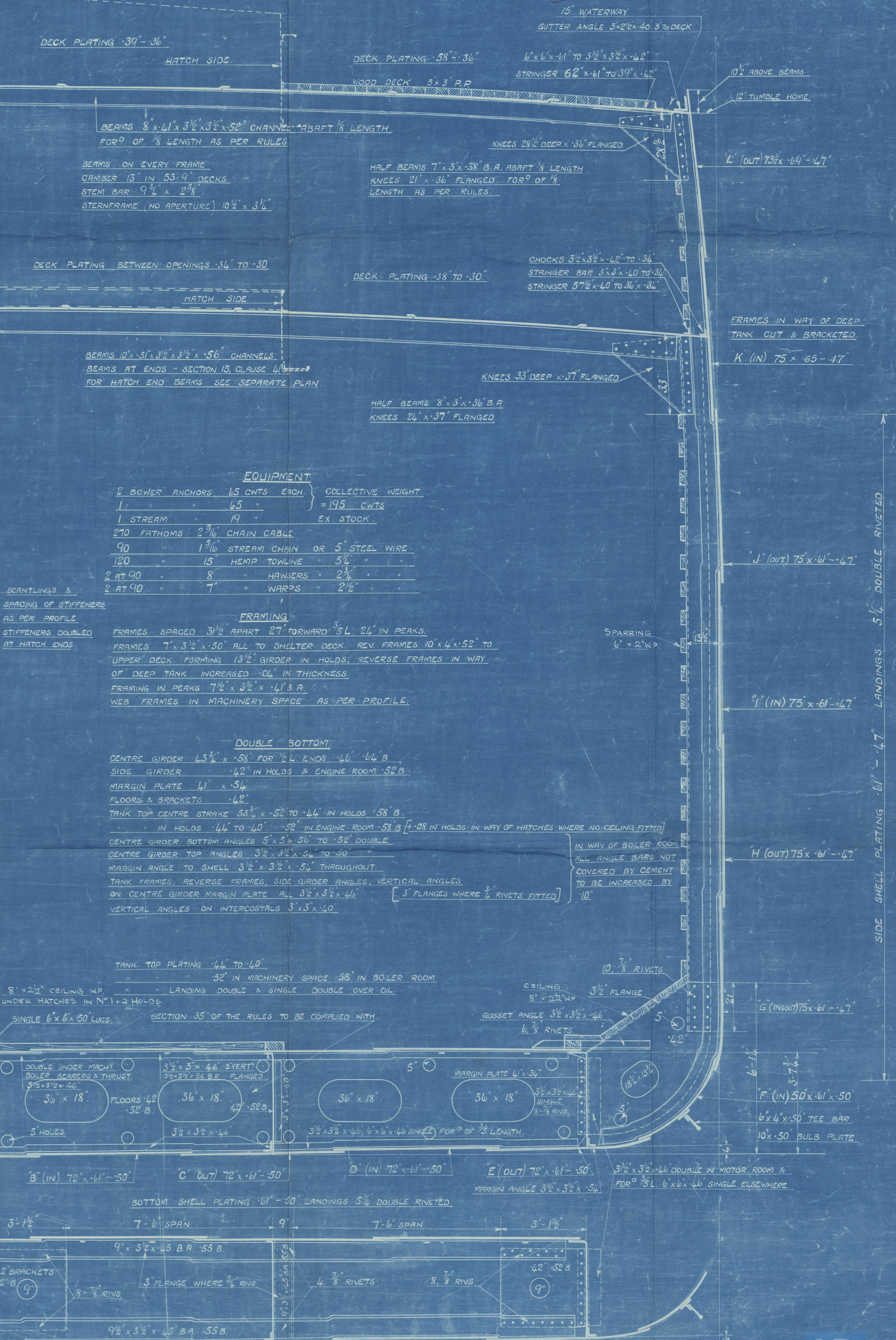
## EXTRACTS FROM SPECIFICATION.

THE THICKNESSES OF THE FOLLOWING ITEMS ARE EACH TO BE INCREASED 10% ABOVE THOSE APPROVED BY LLOYDS

- VERTICAL TANK CENTRE PLATE.
- TOP & VERTICAL ANGLES OF TANK CENTRE PLATE
- SOLID & BRACKET FLOOR PLATES.
- TANK REVERSE FRAMES.
- TANK MARGIN PLATE
- VERTICAL ANGLE ON TANK MARGIN PLATE INSIDE TANK
- INTERCOSTAL PLATES.
- TOP & VERTICAL ANGLES ON INTERCOSTAL PLATES
- TANK TOP PLATING.
- SHELTER DECK SHEER STRAKE FORE & AFT.
- FLAT KEEL PLATES & BOTTOM SHELL.
- PLATING FOR 2/3 LENGTH FOR WIDTH OF DOUBLE BOTTOM, I.E. FROM MARGIN PLATE TO MARGIN PLATE

BETWEEN FRAMES 20A & 7E

30'-2 3/4" AMIDSHIPS.  
30'-1" AT LOWEST POINT



## EQUIPMENT

2 BOWER ANCHORS	65 CWTs EACH	COLLECTIVE WEIGHT
1 " "	65 " "	= 195 CWTs
1 STREAM	19 " "	EX. STOCK
270 FATHOMS	2 3/4" CHAIN CABLE	
90 " "	1 1/4" STREAM CHAIN OR 5" STEEL WIRE	
120 " "	15" HEMP TOWLINE	5 1/2" " "
2 AT 90 " "	8 " HAWKERS	2 1/4" " "
2 AT 90 " "	7 " WARPS	2 1/2" " "

## FRAMING

FRAMES SPACED 3 1/2' APART 27' FORWARD 3/4 L 24' IN PEAKS.  
FRAMES 7" x 3 1/2" x 50" ALL TO SHELTER DECK. REV. FRAMES 10" x 4" x 52" TO UPPER DECK FORMING 1 1/2" GIRDER IN HOLDS. REVERSE FRAMES IN WAY OF DEEP TANK INCREASED .04" IN THICKNESS.  
FRAMING IN PEAKS 7 1/2" x 3 1/2" x 4 1/2" B.A.  
WEB FRAMES IN MACHINERY SPACE AS PER PROFILE.

## DOUBLE BOTTOM

CENTRE GIRDER 4 3/4" x 58" FOR 2 L ENDS 46" x 64" B  
SIDE GIRDER 42" IN HOLDS & ENGINE ROOM 52" B  
MARGIN PLATE 4 1/2" x 54"  
FLOORS & BRACKETS 42"  
TANK TOP CENTRE STRAKE 53 1/2" x 52" to 44" IN HOLDS 58" B.  
" " IN HOLDS 44" to 40" 52" IN ENGINE ROOM 58" B 1/4" OS IN HOLDS IN WAY OF HATCHES WHERE NO CEILING FITTED  
CENTRE GIRDER BOTTOM ANGLES 5" x 5" x 56" to 52" DOUBLE  
CENTRE GIRDER TOP ANGLES 3 1/2" x 3 1/2" x 54" to 50"  
MARGIN ANGLE TO SHELL 3 1/2" x 3 1/2" x 54" THROUGHOUT.  
TANK FRAMES, REVERSE FRAMES, SIDE GIRDER ANGLES, VERTICAL ANGLES ON CENTRE GIRDER MARGIN PLATE ALL 3 1/2" x 3 1/2" x 46" [3' FLANGES WHERE 1/4" RIVETS FITTED]  
VERTICAL ANGLES ON INTERCOSTALS 3" x 3" x 40"

IN WAY OF BOILER ROOM  
ALL ANGLE BARS NOT COVERED BY CEMENT TO BE INCREASED BY 10'

TANK TOP PLATING 44" to 40"  
52" IN MACHINERY SPACE 58" IN BOILER ROOM.  
8" x 2 1/2" CEILING W.P. " " LANDING DOUBLE & SINGLE. DOUBLE OVER OIL.  
UNDER HATCHES IN N° 1 & 2 HOLDS  
SINGLE 6" x 6" x 50 LUGS.

SECTION 35 OF THE RULES TO BE COMPLIED WITH.

10, 7/8 RIVETS  
CEILING 8" x 2 1/2" W.P.  
3 1/2" FLANGE  
GUSSET ANGLE 3 1/2" x 3 1/2" x 46"  
6 3/8 RIVETS

3 1/2" x 3 1/2" x 54" to 50"  
13 1/4" x 58" to 46" x 64" IN BOILER SPACE  
3 1/2" x 3 1/2" x 46" SINGLE 6" x 6" x 50 SINGLE IN MACH.  
SPACE UNDER BOILER BEARERS & THRUST  
5" x 5" x 56" to 52"

DOUBLE UNDER MACH.  
BOILER BEARERS & THRUST  
3 1/2" x 3 1/2" x 46"  
30" x 18"  
FLOORS 42"  
52 B.

3 1/2" x 3 1/2" x 46"  
36" x 18"  
42" x 52 B.

3 1/2" x 3 1/2" x 46"  
36" x 18"  
3 1/2" x 3 1/2" x 46" SINGLE FOR 2/3 LENGTH.

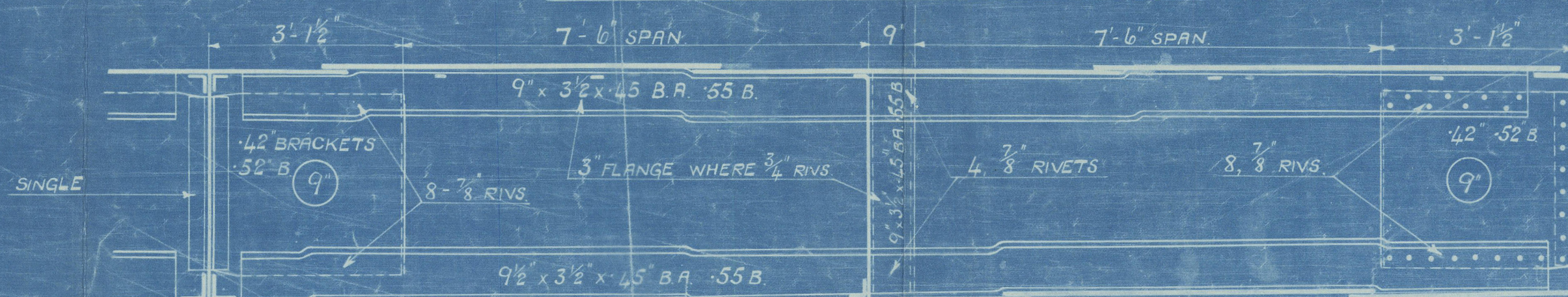
MARGIN PLATE 4 1/2" x 54"  
3 1/2" x 3 1/2" x 46" SINGLE 3 1/4" RIVETS  
3 1/2" x 3 1/2" x 46" DOUBLE IN MOTOR ROOM & FOR 2/3 L. 6" x 6" x 40 SINGLE ELSEWHERE.

KEEL PLATE 52 1/2" x 79" to 69"

B' (IN) 72" x 61" to 50" C' (OUT) 72" x 61" to 50"

D' (IN) 72" x 61" to 50" E' (OUT) 72" x 61" to 50"

BOTTOM SHELL PLATING 61" to 50" LANDINGS 5 1/4" DOUBLE RIVETED.



## BRACKET FLOORS.





HARLAND & WOLFF LIMITED,  
GOVAN, GLASGOW.

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