

# PRINCIPAL DIMENSIONS

LENGTH BETWEEN P.P. 44.5'-0"  
BREADTH MOULDED 50'-0"  
DEPTH 34'-0"

## SCANTLING NUMBERS

BREADTH 58.00  
DEPTH 34.00  
TRANSVERSE NUMBER 44.5.00  
LONGITUDINAL NUMBER 40.940.00  
 $d = 20.44'$   
10' HALF EXCESS OF HEIGHT OF TANK SIDE BRACKET AT 27' FRAME SPACING  
19'-6" FOR FRAME  
OR  
 $d = 20.44'$   
4' HALF EXCESS OF HEIGHT OF TANK SIDE BRACKET AT 27' FRAME SPACING  
20'-0" FOR FRAME

## PROPORTIONS

LENGTH TO DEPTH (TO UPPER DE) = 13.09  
(TO BRIDGE DE) = 10.60  
BREADTH = 7.67

## LLOYD'S CLASS 100 A.1

STEM 11' x 2 1/2" ROLLED STEEL  
STERN POST 9' x 4 1/2" CAST STEEL AS PER PLAN  
RUDDER FORGED STEEL SINGLE PLATE SYSTEM AS PER PLAN

## FRAMING

SPACING 36" APART FROM AFT PEAK BHP TO 3/4 L. FORWARD  
27" 1/2 L. FORWARD TO COLLISION BHP  
24" IN PEAKS  
FRAMING IN PEAKS MAIN FRAMES 8' x 3 1/2" x 46' B.A.  
INTERMEDIATE FRAMES 6' x 3 1/2" x 40' B.A.  
DE IN WAY OF TUNNEL RECESS MAIN FRAMES 11' x 3 1/2" x 56' B.A.  
INTERMEDIATE FRAMES 7' x 3 1/2" x 44' B.A.  
DE AT 27' SPACING MAIN FRAMES 11' x 3 1/2" x 60' B.A.  
INTERMEDIATE FRAMES 7' x 3 1/2" x 40' B.A.  
DE OTHERWISE (EX. DEEP TANK) MAIN FRAMES 12' x 3 1/2" x 68' B.A.  
INTERMEDIATE FRAMES 7' x 3 1/2" x 44' B.A.  
DE IN WAY OF DEEP TANK AS PER PROFILE  
EXTENSION OF MAIN FRAMES  
IN WAY OF FCL DE TO EXTEND TO FCL DE & 2ND DE ALTERNATELY  
OTHERWISE TO EXTEND TO UPPER DE & 2ND DE  
ALTERNATELY EXCEPT AT ENDS OF BRIDGE AND IN AFTER  
PEAK WHERE TO UPPER DE  
WEB FRAMES IN WAY OF MACHINERY SPACE IN DEEP TANK &  
AT FORE & AFT ENDS AS PER PROFILE  
WEBS IN WAY OF BRIDGE AS PER PROFILE  
FLOOR PLATE IN PEAKS 40"  
TRANSOM PLATE 50"

## EQUIPMENT NO.

(B+D) x L (58' x 34') x 44.5 = 40,940.0  
POOP (34' x 7.5') x 3/4 = 202.0  
BRIDGE (13.5' x 8') x 3/4 = 81.0  
FCL (35' x 7.5') x 3/4 = 198.1  
DE HOUSE (75.0' x 26.75') x 3/4 = 394.1  
EQUIPMENT NO. 62,544.1

## EQUIPMENTS AS PER RULE

## SHAFT TUNNEL AS PER PROFILE

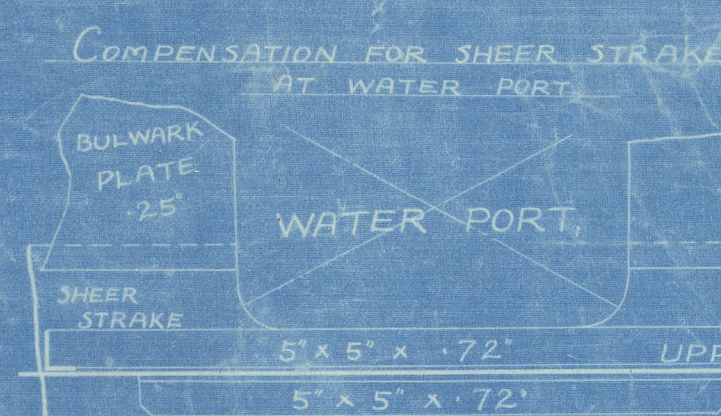
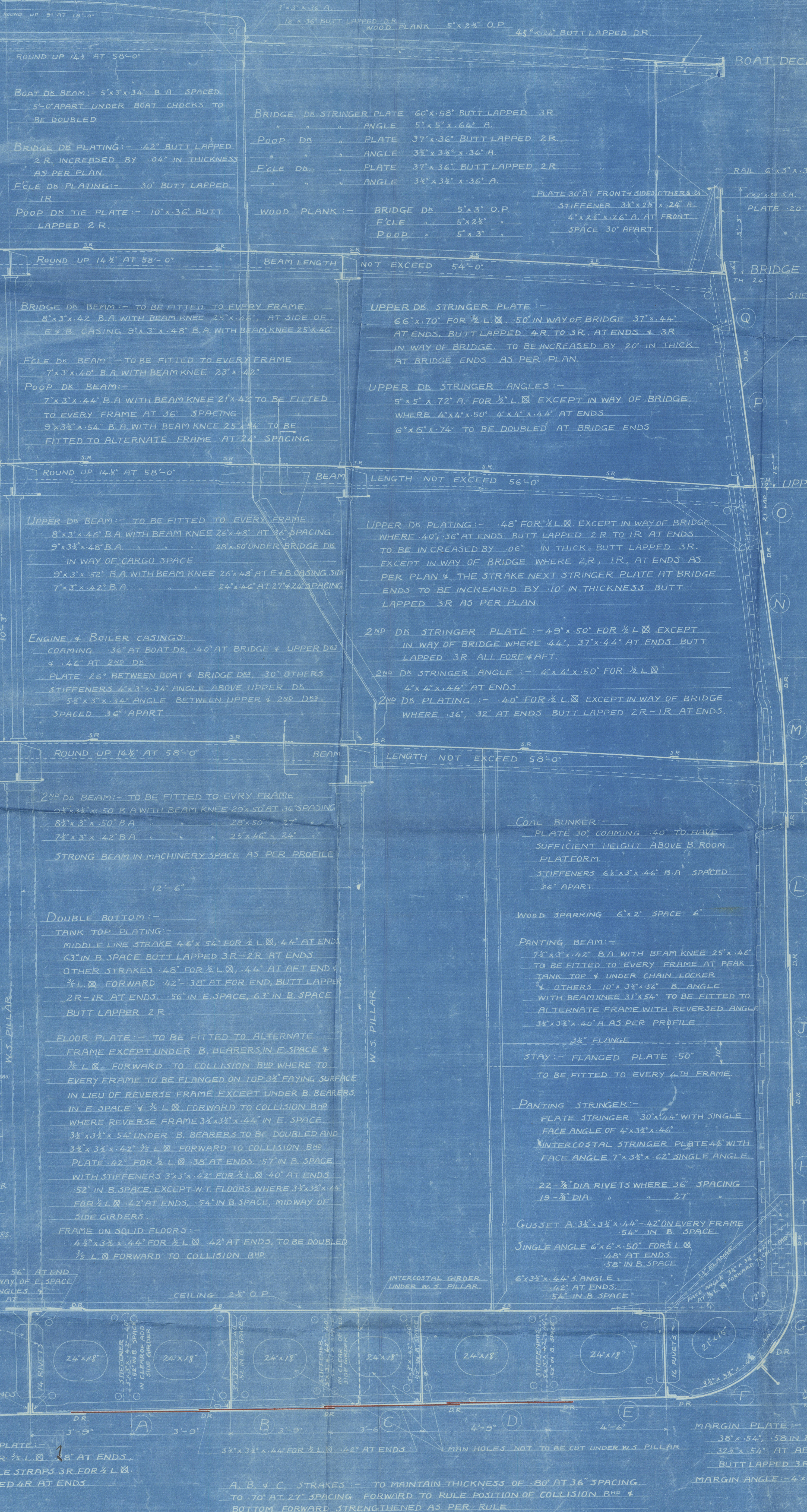
## W.T. & OT BHP

SEVEN IN NUMBER, ALL EXTENDING TO UPPER DE (EX. AT F.H. 105')  
VERTICAL STIFFENER TO BE SPACED 30" APART THROUGHOUT EXCEPT  
COLLISION BHP AFT PEAK BHP IN WAY OF TANK & DEEP TANK BHP  
WHERE 24" APART  
BRACKET PLATE TO BE FITTED AT HEADS & HEELS OF ALL VERTICAL  
STIFFENERS EXCEPT IN TWEEN DE

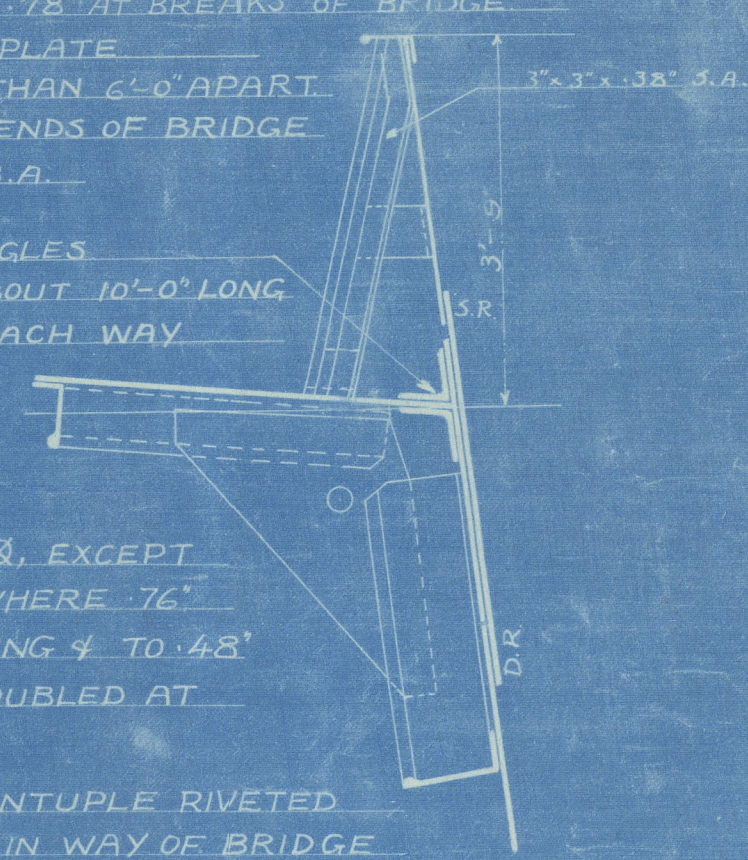
## BHP IN HOLD

FRAME NO.	AT AFT END	AT 1ST DEEP TANK	CONNECTING ANGLE (SINGLE)	TO DOUBLE BOTTOM	VERTICAL STIFF	SPACING
1	40'	36'	6" x 4" x 60"	6" x 6" x 54"	92' x 3 1/2" x 52' B.A.	24"
2	36'	32'	6" x 4" x 60"	6" x 6" x 54"	106' x 3 1/2" x 52' B.A.	24"
3	32'	28'	6" x 4" x 60"	6" x 6" x 54"	106' x 3 1/2" x 52' B.A.	24"
4	28'	24'	6" x 4" x 60"	6" x 6" x 54"	106' x 3 1/2" x 52' B.A.	24"
5	24'	20'	6" x 4" x 60"	6" x 6" x 54"	106' x 3 1/2" x 52' B.A.	24"
6	20'	16'	6" x 4" x 60"	6" x 6" x 54"	106' x 3 1/2" x 52' B.A.	24"
7	16'	12'	6" x 4" x 60"	6" x 6" x 54"	106' x 3 1/2" x 52' B.A.	24"
8	12'	8'	6" x 4" x 60"	6" x 6" x 54"	106' x 3 1/2" x 52' B.A.	24"
9	8'	4'	6" x 4" x 60"	6" x 6" x 54"	106' x 3 1/2" x 52' B.A.	24"
10	4'	0'	6" x 4" x 60"	6" x 6" x 54"	106' x 3 1/2" x 52' B.A.	24"

COLLISION BHP (EN 150) ADDITIONALLY STIFFENED AS PER PROFILE  
ALL TWEEN DE BHP PLATE 30" WITH STIFFENERS 3' x 3 1/2" x 14" ANGLE OR  
6" FLANGE SPACED 30" APART EXCEPT COLLISION BHP  
WHERE 24" APART  
MIDDLE LINE BHP IN DEEP OIL TANK (EN 150) EXTEND TO 2ND DE  
PLATE 40'-38" STIFF 11' x 3 1/2" x 66' B.A. SPACE 36" APART WITH WEB 3" MINIMUM STIFFENERS  
CENTER GIRDER  
46' x 56' FOR 1/2 L. 46' AT ENDS  
62" IN B. SPACE BUTT LAPPED 3R  
ALL FORE & AFT  
SIDE GIRDERS  
2 IN NUMBER 42' FOR 1/2 L. 38'  
AT ENDS 57' IN B. SPACE TO BE 3' A. 6' x 6' x 50' FOR 1/2 L.  
FLANGED ON TOP 3" FAYING 54" IN B. SPACE  
SURFACE EXCEPT WHERE 3' x 3 1/2" x 42' S.A. 3' A. 3' x 3 1/2" x 42' AT ENDS  
AT 1/2 L. FORWARD 3' x 3 1/2" x 42' D.A. IN ENGINE SPACE  
ADDITIONAL SIDE GIRDER IN E. SPACE  
2 IN NUMBER ON EACH SIDE 5' x 5' x 40' FOR 1/2 L. 56' AT ENDS  
TOP ANGLE 5' x 3' x 44' S.A.



POOP DE SIDE PLATING 140'  
FCL 142'  
BUTT LAPPED DOUBLE RIVETED  
SEAM SINGLE RIVETED



SHEER STRAKE 49' x 80' BUTT LAPPED 4R  
49' x 76' 78' AT ENDS OF BRIDGE  
BUTT LAPPED 4R  
BULWARK PLATE .25' .78' AT BREAKS OF BRIDGE  
STAY 6' x 130' BULWARK PLATE  
SPACED NOT MORE THAN 6'-0" APART  
4' 5'-0" APART FROM ENDS OF BRIDGE  
RAIL 6' x 3' x 36' B.A.  
DOUBLE STRINGER ANGLES  
6' x 6' x 74' FOR ABOUT 10'-0" LONG  
AT BRIDGE ENDS EACH WAY  
SHEER STRAKE 49' x 122' FOR 1/2 L. EXCEPT  
IN WAY OF BRIDGE WHERE 76'  
TO 52' AT 36" SPACING 4' TO 48'  
AT 24" SPACING DOUBLED AT  
BRIDGE ENDS  
BUTT LAPPED QUINTUPLE RIVETED  
FOR 1/2 L. EXCEPT IN WAY OF BRIDGE  
WHERE BUTT LAPPED 4R  
BUTT LAPPED 4R TO 3R AT ENDS  
65' x 100' FOR 1/2 L. 102' AT BRIDGE ENDS  
76' IN WAY OF BRIDGE TO 54' AT 36" SPACING  
4' TO 48' AT 24" SPACING  
BUTT LAPPED 5R FOR 1/2 L. EXCEPT IN  
WAY OF BRIDGE WHERE BUTT LAPPED 4R  
BUTT LAPPED 4R TO 3R AT ENDS

SIDE PLATING (H-L STRAKES)  
76' FOR 1/2 L. TO 54' AT 36" SPACING  
4' TO 48' AT 24" SPACING  
G STRAKE 180' FOR 1/2 L. TO 54' AT 36"  
SPACING 4' TO 48' AT 24" SPACING  
BOTTOM PLATING (A-E STRAKES)  
80' FOR 1/2 L. TO 58' AT 36" SPACING  
4' TO 50' AT 24" SPACING

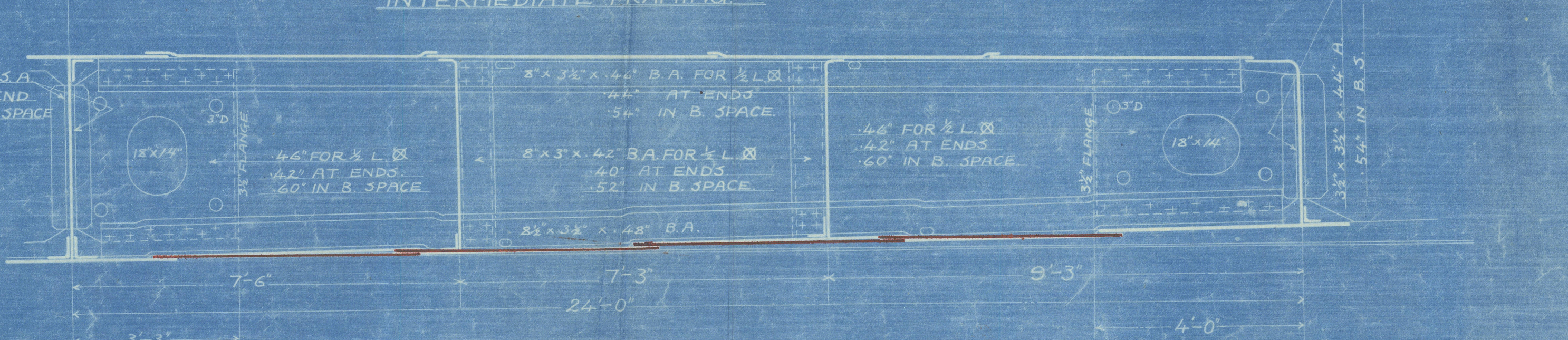
NOTES  
SHELL PLATING ALL TO HAVE BUTT  
LAPPED EXCEPT OTHERWISE SPECIFIED  
BUTTS OF A, B, C, D, E, F, G, H, I, L, M  
STRAKES TO BE 4R TO 3R AT ENDS

PROPELLER BOSS PLATE  
(FURNACED PLATE ONLY) 80' OTHERS 68'  
DOUBLE BUTT STRAPS 3R

LINE OF TANK SIDE BRACKET EXCEPT 27' F. SPACING  
LINE OF TANK SIDE BRACKET AT 27' FRAME SPACE  
2'-5" LAP EXCEPT 27' F. SPACING WHERE 2'-6"  
TANK SIDE BRACKET PLATE  
46' FOR 1/2 L. 42' AT ENDS EXCEPT  
IN 27' SPACING WHERE 38'  
52' IN BOILER SPACE  
BILGE KEEL  
10' x 46' B. PLATE WITH 6' x 6' x 50' TEE BAR  
12" DEPTH FOR ABOUT 200' FT. AMID SHIPS  
BASE LINE TOP OF KEEL

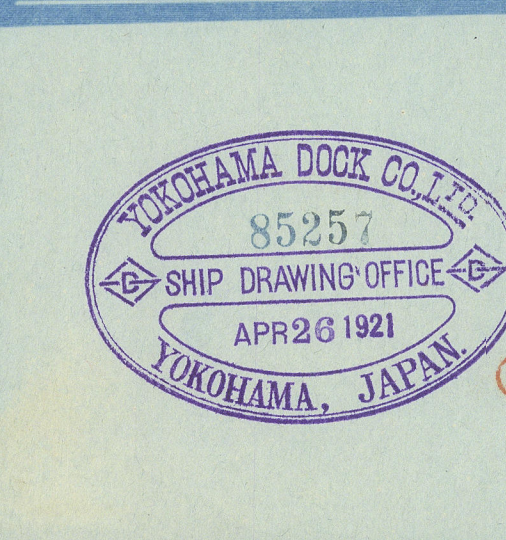
MARGIN PLATE  
38' x 54' 58' IN B. SPACE  
32' x 54' AT AFT END  
BUTT LAPPED 3R ALL FORE & AFT  
MARGIN ANGLE 4' x 4' x 50' A. ALL FORE & AFT

## INTERMEDIATE FRAMING



T. S. S. MATSUMOTO M.L.

No. 81  
MIDSHIP SECTION  
SCALE 1/2" TO 1'





Midship Section.

"Matsumoto Marie"

yka. 2823.



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Foundation