

S.S. "CRAFTSMAN"

MIDSHIP SECTION.

SCALE :- 1/2" = 1 FT.

DIMENSIONS :- 44'-9" B.P. ON L.W.L. x 58'-0" EXT. x 57'-9" M.L. x 32'-2" M.L. TO UPPER DECK.
TO CLASS 100 A.I. AT LLOYD'S SPECIAL SURVEY.

EQUIPMENT NUMBER :-

MULL	43.75 x 7.96 x .75	=	29717
FORECASTLE	141.75 x 7.96 x .75	=	261
BRIDGE	47.25 x 7.96 x .75	=	846
POOP	40.75 x 7.96 x .75	=	282
BRIDGE DECK HOUSES	29.75 x 7.96 x .75	=	337
BRIDGE DECK HOUSES	29.75 x 7.96 x .75	=	108
BRIDGE DECK HOUSES	29.75 x 7.96 x .75	=	1551

EQUIPMENT.

2 BOWER ANCHORS EACH 60 CWT STOCKLESS	
1 STREAM ANCHOR 20 1/2 CWT EX-STOCK	
200 FATHOMS OF 3" STEEL STREAM WIRE 6.12	
120 FATHOMS OF 3" SPECIAL FLEX STEEL WIRE TOWLINE 6.24	
2 AT 100 FATHOMS 2 1/2" STEEL WIRE HANDERS 6.12	
2 AT 100 FATHOMS 2 1/2" STEEL WIRE WARPS 6.12	

RIVETING NOTE :-

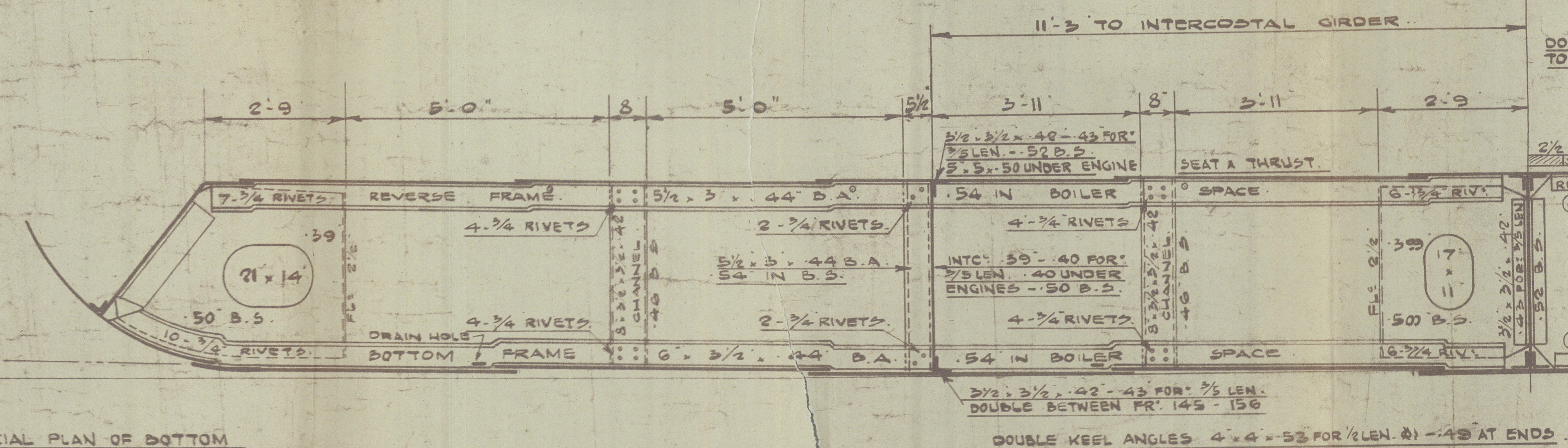
RIVETS IN FRAMES TO FLOORS IN FORE & AFT PEAKS SPACED 5 DIA. APART C₁ TO C₂.
RIVETS IN FRAMES TO SHELL AT FLAT OF DOUBLE BOTTOM FORWARD 1/2 LEN. FOR. SPACED 5 DIA. APART 2 COMPLETE ROWS.
RIVETS IN FRAMES TO FLOOR AT FLAT OF DOUBLE BOTTOM FORWARD 1/2 LEN. FOR. SPACED 5 DIA. APART 2 COMPLETE ROWS.
RIVETS IN SIDE FRAMES TO SHELL SPACED 5 DIA. APART C₁ TO C₂ & 5 1/2 DIA. APART C₁ TO C₂ IN WAY OF FORE
AND AFT PEAK TANKS & DEEP FRAMING FORWARD AND OIL FUEL BUNKERS AND SIDE P.W. TANKS.
RIVETS IN BOTTOM FRAMES TO SHELL AND FLOORS AFT OF 1/2 L. FORWARD, REVERSE FRAMES TO FLOORS AND
INNER BOTTOM PLATING, VERTICAL ANGLED TO FLOORS & SIDE ORDERS, W.T. BULKHEAD STIFFENERS (EXCEPT
PEAK BULKHEADS) & IN DECK PLATING TO BEAMS ON EVERY FRAME SPACED 7 DIA. APART C₁ TO C₂.
RIVETS IN DECK PLATING TO BEAMS ON ALTERNATE FRAMES SPACED 6 DIA. APART C₁ TO C₂.
RIVETS IN END LAPS OF OUTSIDE PLATING, END LAPS OF UPPER DECK STRINGER PLATES & PLATING FOR
1/2 L. & END LAPS OF INNER BOTTOM PLATING SPACED 4 DIA. APART C₁ TO C₂.
RIVETS IN BEAMS & END LAPS OF TUNNEL, W.T. BULKHEAD PLATING EXCEPT IN PEAK TANKS &
OIL FUEL BUNKER BULKHEADS SPACED 4 1/2 DIA. APART C₁ TO C₂.
RIVETS IN BEAMS OF SHELL, INNER BOTTOM & DECK PLATING (EXCEPT IN WAY OF PEAK TANKS &
OIL FUEL BUNKERS) SPACED AS PER TABLE 40 OF THE RULES.
RIVETS IN BEAMS & END LAPS OF TUNNEL, W.T. BULKHEADS & DECKS IN WAY OF PEAK TANKS, OIL
FUEL BUNKERS & SIDE W.D. TANKS SPACED 4 DIA. APART C₁ TO C₂.
RIVETS IN END LAPS OF UPPER DECK STRINGER PLATES & PLATING AT ENDS & END LAPS OF
LOWER DECK STRINGER PLATES & PLATING SPACED 4 1/2 DIA. APART C₁ TO C₂.
RIVETS IN FLAT KEEL ANGLED, VERTICAL ANGLED CONNECTING FLOORS TO CENTRE GIRDER & SHELL
PLATE OF W.T. BULKHEAD FRAME SPACED 5 DIA. C₁ TO C₂.
RIVETS IN WEATHER DECK STRINGER ANGLES, MARGIN PLATE SHELL ANGLE, & PLATE OF W.T. BULKHEAD
FRAME TO BULKHEAD SPACED 4 1/2 DIA. APART C₁ TO C₂.
RIVETS IN CENTRE GIRDER TOP ANGLES SPACED 5 DIA. APART C₁ TO C₂ WATERTIGHT.
RIVETS IN CENTRE GIRDER TOP ANGLES SPACED 7 DIA. APART C₁ TO C₂ NON-WATERTIGHT.
RIVETS IN 7 x 7" WEATHER DECK STRINGER ANGLES SPACED 5 DIA. APART IN EACH ROW 2 ROWS REELED.

SIDE FRAMING :-

FRAMES SPACED 27" APART 24 IN FORE & AFT PEAKS.
MAIN SIDE FRAMES AFT HALF LENGTH FORWARD CLEAR OF DEEP TANK & PEAK TANKS
10' x 3 1/2" x 42" B.A. ON EVERY FRAME TO SECOND DECK.
MAIN SIDE FRAMES FORWARD HALF LENGTH FORWARD CLEAR OF DEEP FRAMING 11' x 3 1/2" x 42" B.A. FOR 1/2 LEN.
MAIN SIDE FRAMES IN FORE & AFT PEAK TANKS 8' x 3 1/2" x 36" B.A. ON EVERY FRAME TO POOP & FORECASTLE
MAIN SIDE FRAMES IN DEEP TANK 10' x 3 1/2" x 32" B.A. ON EVERY FRAME TO SECOND DECK.
MAIN SIDE FRAMES IN WAY OF DEEP FRAMING FORWARD (FR. 105-106) 10' x 3 1/2" x 46" B.A. ON EVERY FRAME
TO SECOND DECK WITH G. 3/2" x 34" REV. ANG. FITTED TO MAIN FRAMES FORMING 12 GIRDER.
MAIN SIDE FRAMES IN ENGINE ROOM 10' x 3 1/2" x 46" B.A. IN LIEU OF WEBS.
MAIN SIDE FRAMES IN OIL FUEL BUNKERS AT BOW & FORE END OF BOWLER ROOM 10' x 3 1/2" x 46" B.A.
THIRTEEN DECK FRAMES 5' x 3 1/2" x 36" B.A. 5' x 3 1/2" x 40" B.A. FORWARD OF 2/3 LENGTH SCARPHED 19" TO
MAIN FRAMES AT SECOND DECK AND CARRIED TO UPPER DECK ON EVERY FRAME AND CARRIED TO POOP, BRIDGE
& FORECASTLE DECKS ON ALTERNATE FRAMES IN WAY OF SAME. THE FOUR FRAMES AT FORE AND AFT
ENDS OF BRIDGE DECK 8' x 3 1/2" x 36" B.A. ALL EXTENDING TO BRIDGE DECK.
INTERMEDIATE FRAMES IN POOP 4' x 3 1/2" x 36" O.A. HANGING FRAMES.
INTERMEDIATE FRAMES IN FORECASTLE 5' x 3 1/2" x 34" O.A. SCARPHED OR BRACKETED.

OWNER'S REQUIREMENTS (NOT INCLUDED IN RULES)

FLOORS, INTERCOSTALS & REVERSE FRAMES IN THE STOCKHOLD & BOIL 7" SPACED
TO BE 1/8" THICKER THAN LLOYD'S RULES. TANK TOP 1" THICK UNDER E. LINES &
THRUST BLOCK REMAINDER OF ENGINE & BOILER SPACE 3/4" THICK.
MARGIN PLATES IN ENGINE & BOILER SPACE 3/4" THICK. CHART TUNNEL UNDER
MATCHWAYS TO BE 3/8" THICKER THAN LLOYD'S RULES.



SPECIAL PLAN OF BOTTOM
STRENGTHENING FORWARD
TO BE SUBMITTED LATER

DISPOSITION OF FLOORS
SOLID FLOORS ON EVERY FRAME UNDER THRUST ENGINES,
BOILER BEARERS, BULKHEADS & FORWARD 2/3 LENGTH FORWARD
ELSEWHERE SOLID FLOORS ON EVERY THIRD FRAME
BRACKET FLOORS INTERMEDIATE

KEEL OUT.
51' . 62" FOR 1/2 LEN. &
TO . 46" AT ENDS
BUTTS LAPPED X 4 R.

A. IN.
75' . 62" FOR 1/2 LEN. &
TO . 46" AT ENDS
BUTTS LAPPED X 3 R.

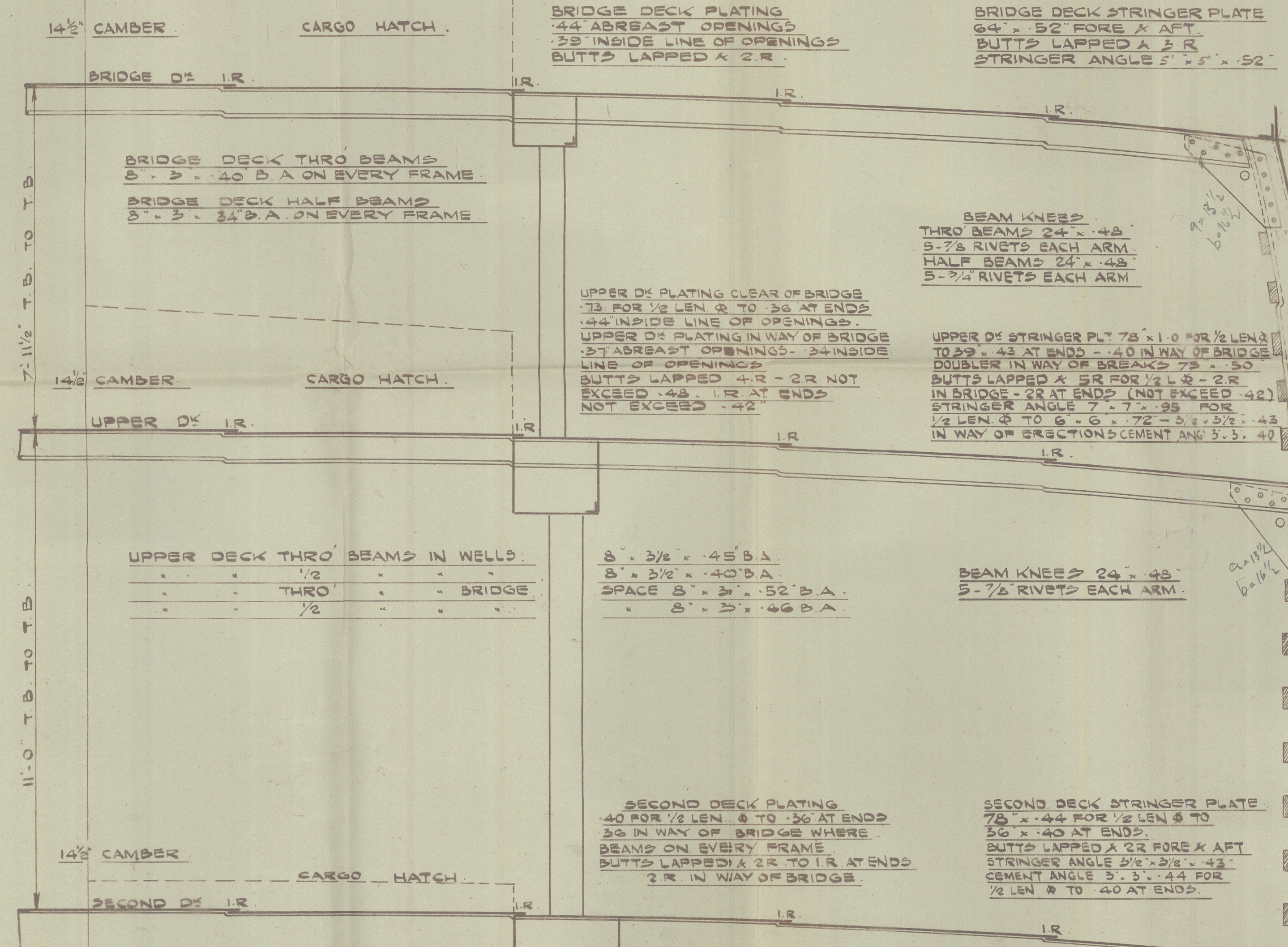
B. OUT.
75' . 62" FOR 1/2 LEN. &
TO . 46" AT ENDS
BUTTS LAPPED X 3 R.

C. IN.
75' . 62" FOR 1/2 LEN. &
TO . 46" AT ENDS
BUTTS LAPPED X 3 R.

D. OUT.
75' . 62" FOR 1/2 LEN. &
TO . 46" AT ENDS
BUTTS LAPPED X 3 R.

THICKNESS OF BOTTOM SHELL PLATING FROM FORWARD HALF LENGTH
FORWARD TO RULE POSITION OF COLLISION BULKHEAD . 70"

FIRST LONGITUDINAL NUMBER L x D = 441.75 x 32.16	=	14206.68
SECOND LONGITUDINAL NUMBER L x (B + D) = 441.75 x (57.75 + 32.16)	=	39717.74
PROPORTION 1/2 TO UPPER DECK = 441.75 ÷ 32.16	=	13.73
PROPORTION 1/2 TO BRIDGE DECK = 441.75 ÷ 40.12	=	11.01
D MOULDED DEPTH	=	32.16
d = 32.16 - (11.0 + 3.66)	=	17.50
d AT 1/2 LEN FORWARD	=	20.00
ERECTION	=	52.0%



UPPER DECK THRO' BEAMS IN WELLS.
THRO' BRIDGE
1/2 1/2

8' x 3 1/2" x 45" B.A.
SPACE 8' x 3 1/2" x 52" B.A.
8' x 3 1/2" x 46" B.A.

BEAM KNEES 24" x 48"
5-7/8 RIVETS EACH ARM

SECOND DECK BEAMS ON EVERY FRAME IN WAY
SECOND DECK BEAMS ON ALTERNATE FRAMES
SECOND DECK BEAMS ON EVERY FRAME IN WAY
SECOND DECK BEAMS ON EVERY FRAME IN WAY
INTERMEDIATE BEAM KNEES WHERE BEAMS ON

OF BRIDGE 8' x 3 1/2" x 44" CHANNEL - KNEES 27" x 46"
CLEAR OF BRIDGE 12' x 3 1/2" x 44" CHANNEL - KNEES 27" x 46"
OR OPENING 8' x 3 1/2" x 32" CHANNEL - KNEES 27" x 46" (25" CLEAR OF BRIDGE)
OF DEEP TANK 8' x 3 1/2" x 44" CHANNEL - KNEES 27" x 46" (25" CLEAR OF BRIDGE)
ALTERNATE FRAMES 27' x 48" (25" x 48" CLEAR OF BRIDGE)
BEAM KNEES FOR 1/2 LEN. FOR. CLEAR OF 12 CH. 31" x 48"
BEAM KNEES AT PANTING FRAMES 36" x 42" FLANGED

STEM 10 1/2" x 2 3/8"
STERN FRAME 10 1/2" x 8 1/2"

INNER BOTTOM PLATING . 42 FOR 1/2 LEN. & TO
36 AT ENDS . 01 FOR 1/2 LEN. . 50 IN 2
50 IN BOILER SPACE BUTTS LAPPED X 2 R
TO 1 R. AT ENDS.
BEAM & BUTTS 2 R. IN WAY OF OIL FUEL

TANK TOP CENTRE STRAKE 52" x 50 FOR 1/2 LEN. &
TO . 42 AT ENDS . 30 IN ENGINE SPACE
50 IN BOILER SPACE BUTTS LAPPED X 2 R
TO 2 R. AT ENDS.
BEAM & BUTTS 2 R. IN WAY OF OIL FUEL

DOUBLE TOP ANGLED 3 1/2" x 3 1/2" x 47 FOR 1/2 LEN. &
TO . 42 AT ENDS . 57 IN BOILER SPACE

FLOOR PLATES . 40 THROUGHOUT
IN HULLS & ENGINE SPACE . 41
FOR 1/2 LEN. . 50 IN BOILER SPACE
WATERTIGHT FLOORS . 48 WITH
STIFFENERS 6' x 3 1/2" ANGLE
44 B.S. SPACED 30 APART

OIL FUEL IN NO. 2 & 4
DOUBLE BOTTOM TANKS

GUDDET WELDED

BOW KEEL 12" x 50 BULB PLATE WITH
5/8" x 6/8" x 50 TIE BAR FOR ABOUT 195.0"

MARGIN SHELL ANGLE
3/8" x 3/4" . 52" FORE & AFT

MARGIN PLATE TO RULE 35 . 52 FITTED
ABOUT 37' . 52" . 52 IN B.S. 22 FOR 1/2 LEN.
BUTTS LAPPED X 3 R.

FORECASTLE DECK STRINGER PLATE 35' x 36"
BUTTS LAPPED X 1 R. STRINGER ANGLE 3/8" x 3/4" . 52"
DECK PLATING 24" (UNHEATED) BUTTS LAPPED X 1 R.
BEAM ON EVERY FRAME AS PER PROFILE
& DECK PLAN

POOP DECK STRINGER PLATE 37' x 36"
BUTTS LAPPED X 1 R. STRINGER ANGLE 3/8" x 3/4" . 52"
DECK PLATING 26" (SHEATHED) BUTTS LAPPED X 1 R.
BEAM ON EVERY FRAME AS PER PROFILE
& DECK PLAN

M. OUT.
BRIDGE . 62 POOP . 40 F.C.L. . 42"
BUTTS LAPPED X 3 R. IN BRIDGE
1 R. IN POOP & FORECASTLE

L. IN.
BRIDGE . 62 POOP . 40 F.C.L. . 42"
BUTTS LAPPED X 1 R. IN BRIDGE
1 R. IN POOP & FORECASTLE

K. OUT.
SHEER TRAKE 62' . 25 FOR 1/2 LEN. &
TO . 46 AT ENDS . 62 IN WAY OF BRIDGE
INBDS DOUBLER AT BREAKS 50' . 26
BUTTS LAPPED X 5 R. FOR 1/2 LEN. & TO & R.
X 3 R. AT ENDS . 3 R. IN BRIDGE

J. IN.
78' . 72 FOR 1/2 LEN. &
TO . 46 AT ENDS . 62 IN WAY OF BRIDGE
BUTTS LAPPED X 4 R. FOR 1/2 LEN. &
TO 3 R. AT ENDS (NOT EXCEED 65)
3 R. IN BRIDGE

H. OUT.
78' . 62 FOR 1/2 LEN. &
TO . 44 AT ENDS
BUTTS LAPPED X 3 R.

G. IN.
78' . 62 FOR 1/2 LEN. &
TO . 44 AT ENDS
BUTTS LAPPED X 3 R.

F. OUT.
78' . 62 FOR 1/2 LEN. &
TO . 44 AT ENDS
BUTTS LAPPED X 3 R.

E. IN.
78' . 62 FOR 1/2 LEN. &
TO . 44 AT ENDS
BUTTS LAPPED X 3 R.

SIDE SHELL + 1/2 FORWARD OF 2/3 LENGTH & IN PEAKS

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S.S. CRAFTSMAN



LITHGOWS LTD N°1020

MIDSHIP SECTION

AS BUILT



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Lloyd's Register
Foundation

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