

# Equipment.

1<sup>st</sup> Ho. 109.74 x 398.08 = 43685  
 398.08 x 8 x 1.5 = 4777  
 12.10.05 Houses 54 x 8 = 432  
 6.2.06 Equipment Ho. 48894

2 Bowers 63 1/4 wts. each (stockless)  
 1 Bower 54 1/2 " " "  
 1 Stream 17 1/2 " " ex. stock.  
 1 Hedge 7 1/2 " " "  
 270 fathoms steel chain cable 2 1/4 dia.  
 90 " 4 1/4 steel wire (stream)  
 120 " 5 " (Towline)  
 2 off 90 fathoms 8" hawsers.  
 2 off 90 " 4" warps.

## Riveting Notes.

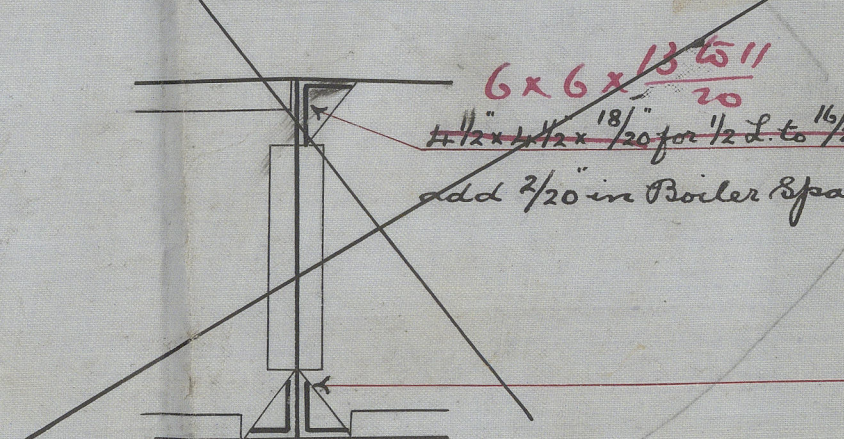
Butts & Beams to be lapped. *Beams not lapped in ship.*  
 Steel Strake Butts quadruple riveted all fore & aft.  
 Shell Plating Butts from A to F inclusive, quadruple riveted for 1/2 L & treble riveted at ends. *in view of width of strake.*  
 Shell Plating Butts of H & L Strakes quadruple riveted for 1/4 L & treble riveted at ends.  
 Shelter Deck Stringer Plate butts quadruple riveted for 1/2 L & treble riveted at ends.  
 Upper Deck Stringer Plate butts treble riveted all fore & aft.  
 Main Deck Stringer Plate butts treble riveted all fore & aft. *Butts treble riveted where increased 1/20 in thickness.*  
 Shelter Deck Plating butts double riveted for 1/2 L & single riveted at ends. Beams single riveted.  
 Upper Deck Plating butts double riveted for 1/2 L & single riveted at ends. Beams single riveted.  
 Main Deck Plating butts double riveted for 1/2 L & single riveted at ends. Beams single riveted.  
 Centre Girder Butts treble riveted all fore & aft.  
 Margin Plate Butts treble riveted for 1/2 L & double at ends.  
 Tank Top Middle Line Strake butts double riveted all fore & aft, edges double riveted all fore & aft.  
 Tank Top Strake adjacent to Middle Line Strake, butts double riveted all fore & aft, edges double riveted all fore & aft.  
 Remainder of Tank Top Plating, butts double riveted all fore & aft, edges double riveted for 1/2 L & single riveted at ends.

## Watertight Bulkheads.

Plates 1/20 lower half, 1/20 upper half.  
 Vertical stiffeners 6 x 3 1/2 x 1/20 for 1/2 L to 6 x 3 1/2 x 1/20 at ends, bracketed to Tank Top.  
 Vertical stiffeners in tween decks, 4 1/2 x 3 1/2 x 1/20 angles.  
 Double frame angles 6 x 3 1/2 x 1/20 for 1/2 L to 6 x 3 1/2 x 1/20 at ends.  
 Tank Top & Deck angles 4 x 1 1/2 x 1/20 for 1/2 L to 4 x 1 1/2 x 1/20 at ends double.  
 Horizontal stiffeners & vertical webs as per profile.

Stem Bar 11 1/2 x 3 1/2  
 Stern Post 11 1/2 x 7 1/2  
 Rudder Head 10 dia.  
 Pintles 5 dia.

## Alternative Sketch of Centre Girder.



Main Deck Beams Midship Length = 51'-5"					Rows of
Space	Length of Beam	Equivalent Section	Plate	Knees	Equivalent
25"	51'-5" to 34'-3 1/2"	13 x 13/20	10 x 3 1/2 x 3 1/2 x 1/20 Channel	31 1/2 x 31 1/2 x 1/20	1
25"	34'-3 1/2" to 25'-8 1/2"	11 x 11/20	8 x 3 1/2 x 3 1/2 x 1/20 Channel	27 x 27 x 1/20	1
25"	Under 25'-8 1/2"	10 x 10/20	8 x 3 x 3 x 1/20 Bull Angle	24 x 24 x 1/20	1
25"	Half Beams in way of Hatches & Casings	11 x 11/20	8 x 3 1/2 x 3 1/2 x 1/20 Channel	27 x 27 x 1/20	2
25"	Half Beams in way of Hatches & Casings	10 x 10/20	8 x 3 x 3 x 1/20 Channel	24 x 24 x 1/20	3
Hatch End Beams 10 x 10/20					3
Increased 1/2 in depth on account of excessive depth of Tween Decks.					

Reeled Pillars 50' apart  
 Length 16' to 18' = 5 1/2 dia.  
 " 18' to 20' = 5 3/4  
 " 20' to 22' = 6  
 " 22' to 24' = 6 1/4

Top Angles 4 x 4 x 1/20 for 1/2 L to 7/20, add 7/20 in Boiler Space.  
 4 1/2 x 1/20 for 1/2 L to 7/20, 12 1/2 in Boiler Space.  
 Connecting angles 3 1/2 x 3 1/2 x 1/20 double for 1/2 L & add 7/20 in Boiler Space.  
 Bottom angles 4 1/2 x 4 1/2 x 1/20 for 1/2 L & to 7/20.

Keel Plate 48 x 1 1/2 for 1/2 L to 14 1/2, add 7/20 for 1/2 L & in view of keel doubling.  
 in part line of keel doubling.

# Enquiry No. 1377.

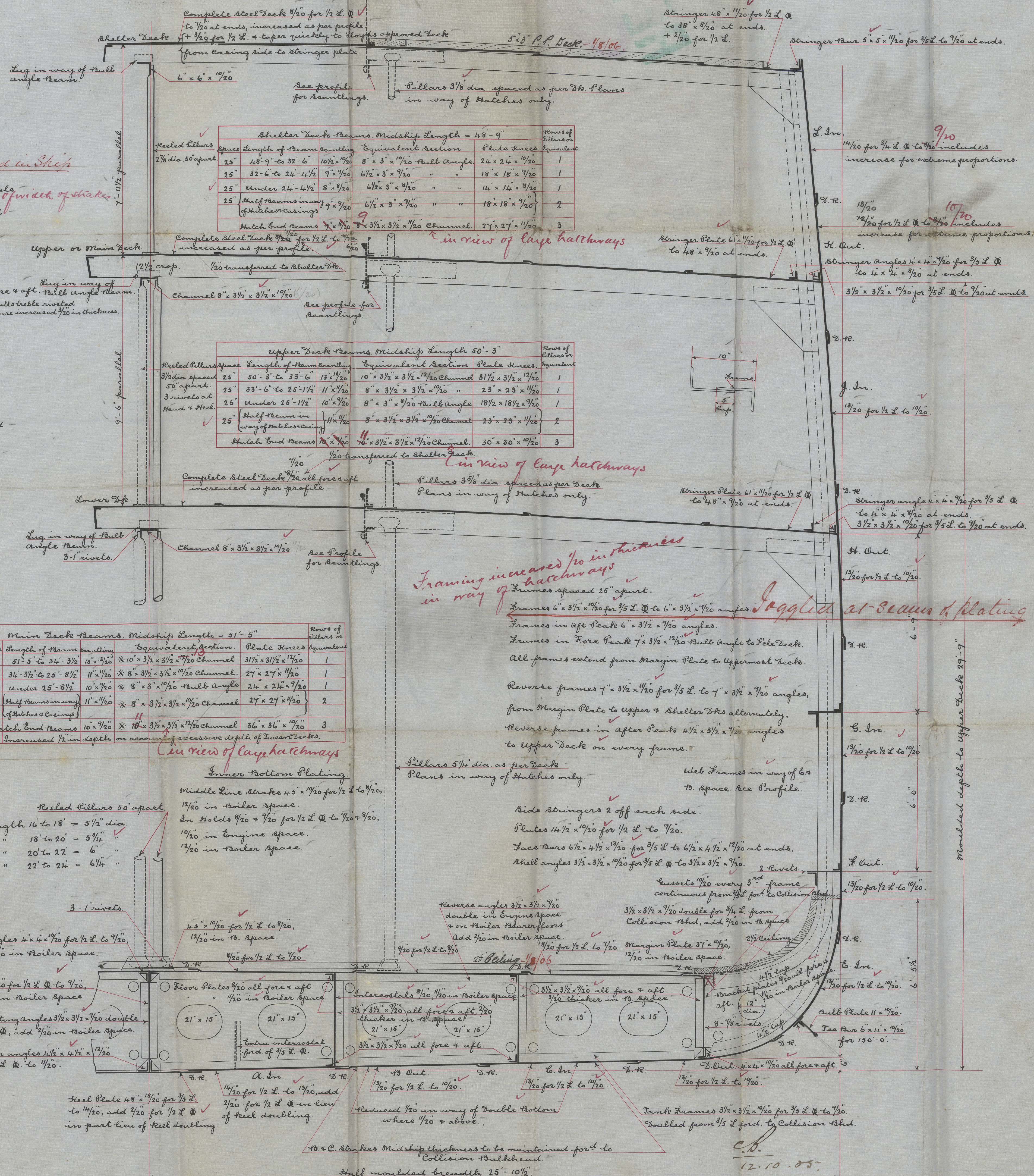
## Midship Section of Proposed Steel, Single Screw, Cargo Steamer.

### Principal Dimensions.

Length overall 412'-0"  
 Length between perps 400'-0"  
 Breadth extreme 52'-0"  
 Depth moulded to upper Dk. 29'-9"

Scale 1/2" = 1 Foot.

Class + 100 A.1. Lloyds 3 Decks with Shelter Deck.



## Lloyds Numerals.

1/2 Breadth 25.87 L/D = 12.92  
 Depth 30.77  
 1/2 Girth 53.08  
 109.74 L/B = 7.69  
 -7.00  
 1<sup>st</sup> Ho. 102.74  
 398.08  
 2<sup>nd</sup> Ho. 40898



Armstrong Whitworth & Co  
Enginy No 1349

Midship Section

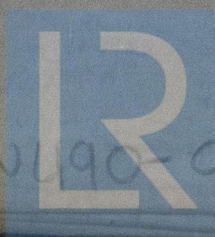
Yard N° 449 780

S.S. Sakkarah N° 779

S.S. Serah N° 780

Sakkarah 779

Serah 780



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Lloyd's Register  
Foundation