

# MIDSHIP SECTION OF S.S. DILWARA. N° 217.

To CLASS 100 A.I. Three Decked "Steel."

Scale 1/2 inch = One foot.

To have a full Poop extending about 50 feet from sternpost. Topgallant Forecastle extending about 50 feet from Stern. Bridge deck amidships about 162 feet long. Combined length of deck erections 262 ft. = 6 1/2 of 423 ft. Forecastle deck beams See Bulk 10 x 3/20 on alternate frames. Poop deck beams Bulk angle 8 x 3 x 3/20 on alternate frames.

Stringer Plates, Sheerstrakes, Garboard Strakes, and all Buttstraps when above 3/20 thick to be carefully annealed or the holes sufficiently rimmed after punching.

## Equipment.

- 3 Bower Anchors. 145 cwt. ex stock.
- 1 Bower Anchor. 38 1/2 cwt. ex stock.
- 1 Stream Anchor. 15 1/2 cwt. ex stock.
- 1 Kedge Anchor. 7 1/2 cwt. ex stock.
- 1 Kedge Anchor. 3 1/2 cwt. ex stock.
- 300 Fathoms 2 1/2 Stud chain cable.
- 90 Fathoms 1 1/2 Stream chain.
- 120 Fathoms 1 1/4 hawser or 1 1/4 steel wire.
- 90 Fathoms 1 1/2 hawser or 1 1/4 steel wire.
- 90 Fathoms 10 warp.

Garboard strakes and the after hoods of plating connected to the sternframe to be the same thickness as strakes amidships. Boss plates and the plates above and below the same to be 3/20 thicker than strakes amidships, with butts double strapped, or the boss plates to be doubled.

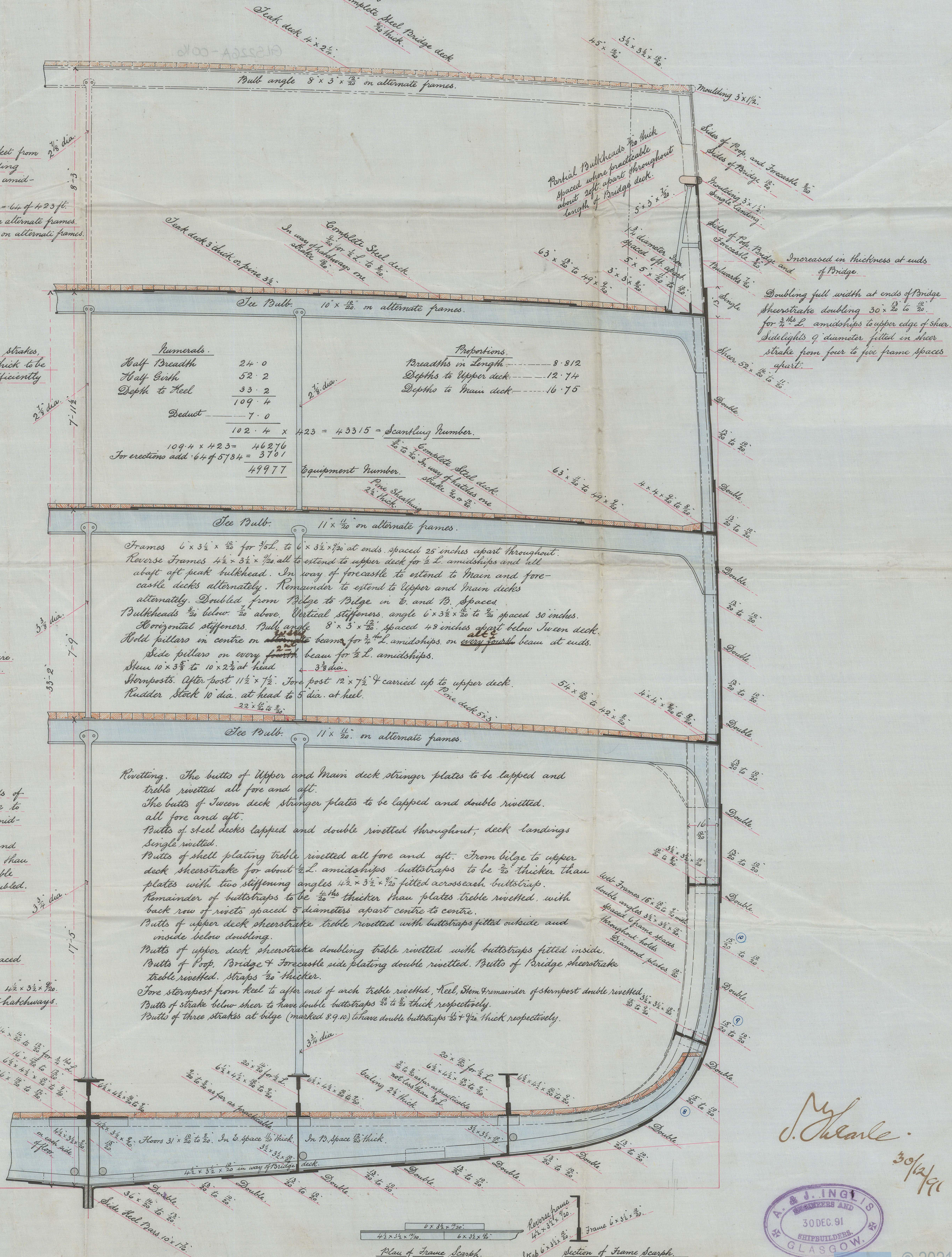
Web Frames in C. & P. Space. spaced 4 frame spaces apart. Tunnel plating 3/20. Transverse angles 1 1/2 x 3 1/2 x 3/20. Spaced 4 ft apart and 3 ft in way of hatchways.

Numerals.	
Half Breadth	24.0
Half Girth	52.2
Depth to Keel	33.2
	109.4
Deduct	7.0
	102.4
102.4 x 423 = 43315 = Scantling Number.	
109.4 x 423 = 46276	
For erections add 64 of 5784 = 3701	
	49977

Proportions.	
Breadths in Length	8.812
Depths to Upper deck	12.74
Depths to Main deck	16.75

Frames 6 x 3 1/2 x 3/20 for 75 ft. to 6 x 3 1/2 x 3/20 at ends, spaced 25 inches apart throughout. Reverse Frames 4 1/2 x 3 1/2 x 3/20 all to extend to upper deck for 1/2 L. amidships and all abaft aft peak bulkhead. In way of fore-castle to extend to main and fore-castle decks alternately. Remainder to extend to upper and main decks alternately. Doubled from Bilge to Bilge in C. and P. Spaces. Bulkheads 3/20 below 3/20 above. Vertical stiffeners, angle 6 x 3 1/2 x 3/20 to 3/20 spaced 30 inches. Horizontal stiffeners. Bulk angle 8 x 3 x 3/20 spaced 48 inches apart below Tween deck. Cold pillars in centre on alternate beams for 3/4 L. amidships, on every fourth beam at ends. Side pillars on every fourth beam for 1/2 L. amidships. Sheer 10 x 3 1/2 to 10 x 2 1/2 at head. Sternposts. After post 11 1/2 x 7 1/2. Fore post 12 x 7 1/2 carried up to upper deck. Rudder Stock 10 dia. at head to 5 dia. at keel.

Rivetting. The butts of Upper and Main deck stringer plates to be lapped and treble rivetted all fore and aft. The butts of Tween deck stringer plates to be lapped and double rivetted all fore and aft. Butts of shell decks lapped and double rivetted throughout, deck landings single rivetted. Butts of shell plating treble rivetted all fore and aft. From bilge to upper deck sheerstrake for about 1/2 L. amidships buttstraps to be 3/20 thicker than plates with two stiffening angles 1 1/2 x 3 1/2 x 3/20 fitted across each buttstrap. Remainder of buttstraps to be 3/20 thicker than plates treble rivetted, with back row of rivets spaced 5 diameters apart centre to centre. Butts of upper deck sheerstrake treble rivetted with buttstraps fitted outside and inside below doubling. Butts of upper deck sheerstrake doubling treble rivetted with buttstraps fitted inside. Butts of Poop, Bridge & Forecastle side plating double rivetted. Butts of Bridge sheerstrake treble rivetted. Straps 3/20 thicker. Fore sternpost from keel to after end of arch treble rivetted. Keel, Stem & remainder of sternpost double rivetted. Butts of strake below sheer to have double buttstraps 3/20 to 3/20 thick respectively. Butts of three strakes at bilge (marked 8.9.10) to have double buttstraps 3/20 x 3/20 thick respectively.



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Scale  $\frac{1}{2}$  inch = One foot.

Deck beam 4 x 5 1/2  
No. 100 A.1. Three Decked Steel

GLS226A-0016

Weld angle 8 x 3 x 3/8 in alternate frames.



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