

MIDSHIP SECTION

— OF A —

COMPLETE SUPERSTRUCTURE SCREW STEAMER.

— DIMENSIONS —

LENGTH ON L.W.L.	400'0"
BREADTH MLD	55'0"
DEPTH MLD	28'5"

CLASS 100 A.1 — WITH NOTATION FOR ICE STRENGTHENING.

— SCALE 1/2" = 1 FOOT.

Lloyd's Numerals.

Depth 36'75"

Length 400 on L.W.L.

1st Longitudinal N^o 14700.0

Breadth 53'00"

Depth 36'75"

Length 400

2nd Longitudinal N^o 36700.0

Depth to Length 10.73 Upper Deck

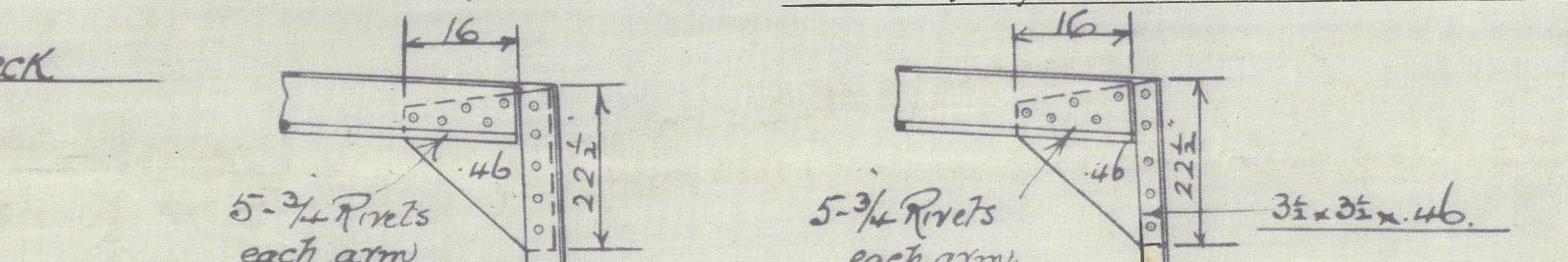
— Do — 13.91 2nd Deck

— Anchors & Cables. —

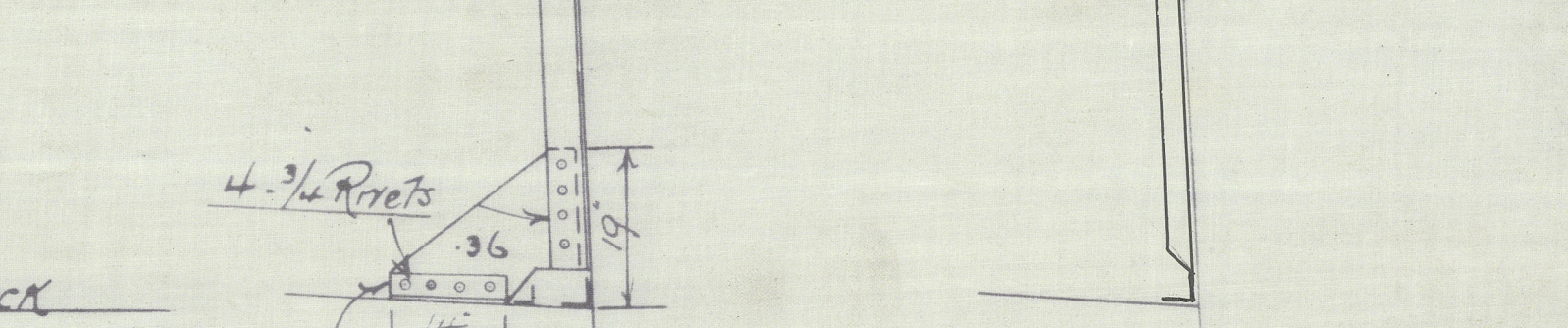
Equipment N^o 27600

1 st Bower Stockless	63 3/4 Cuts
2 nd " " "	63 3/4 " "
3 rd " " "	54 1/2 " "
Stream Ex Stock	17 1/2 " "
270 Tons Stud Chain Cable	2 1/4 " "
90 Tons Stream Chain	1 1/4 " "
1 1/4 " Steel Wire	
120 Tons Towline	14 Hemp or 5" Steel Wire
2-90 " " "	8 " " 2 1/4 " "
2-90 " " "	7 " " 2 1/2 " "

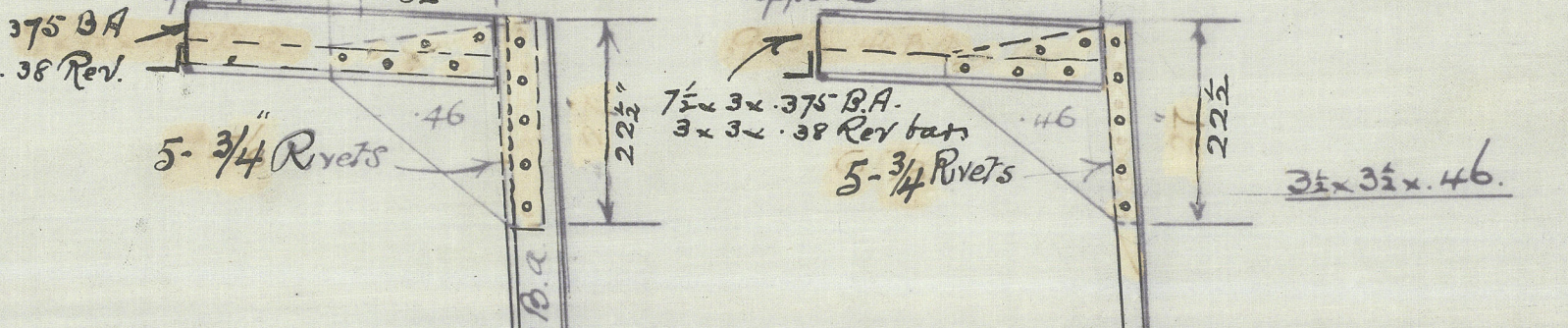
Intermediate frame connections to Beam Deck



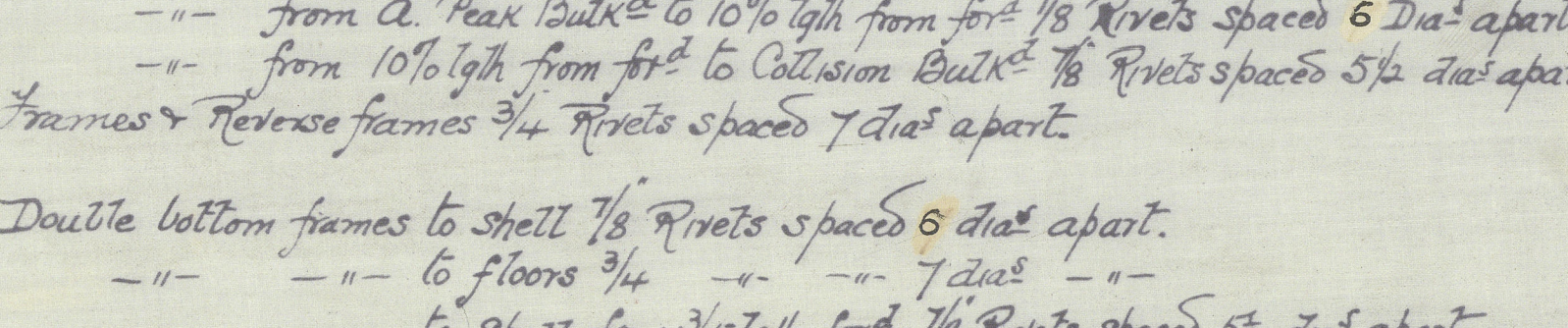
Beam connections where intermediate frames fitted clear of 1/4" aft & 1/5 length fwd.



Beam connection in After Main Hold insulated space



Beam connection in After Main Hold Insulated space where no frames fitted



Riveting

Frames to Shell in Tanks & Deep Tank 1/8 Rivets spaced 6 dia apart

Double bottom frames to shell 1/8 Rivets spaced 6 dia apart

Upper Deck Stringer Angles 1/8 Rivets spaced 4 1/2 dia apart

Upper Deck Beams Rivets spaced 7 dia apart

Margin Plate

Forecastle Side plating .42

Shenstone 71 x 68 for 1/2 lgh to .50 at ends

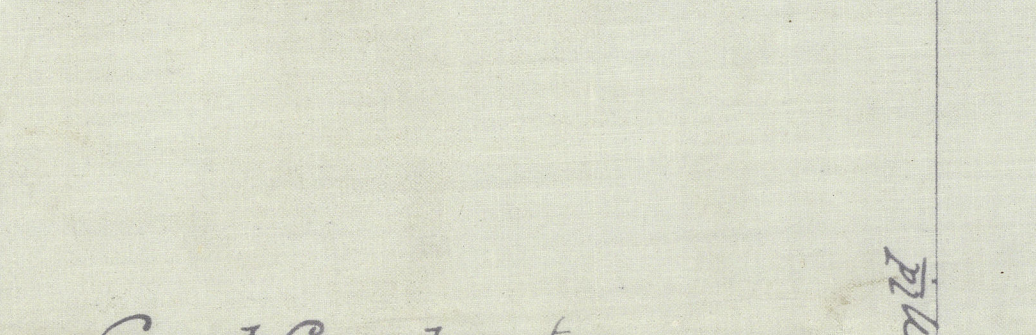
Stroke below Shenstone 71 x 68 for 1/2 lgh to .50 at ends

Ice Strengthening

Shell plating increases 50% from 1/2" above load line to 1/2" below light line

Shell plating from Upper turn of Bridge to Shore below Shenstone .63 for 1/2 lgh to .50 at ends

Gusset Connections to Tank Top & Brackets



Double Angles in every frame

12-1/8 Rivets thru frame & duct

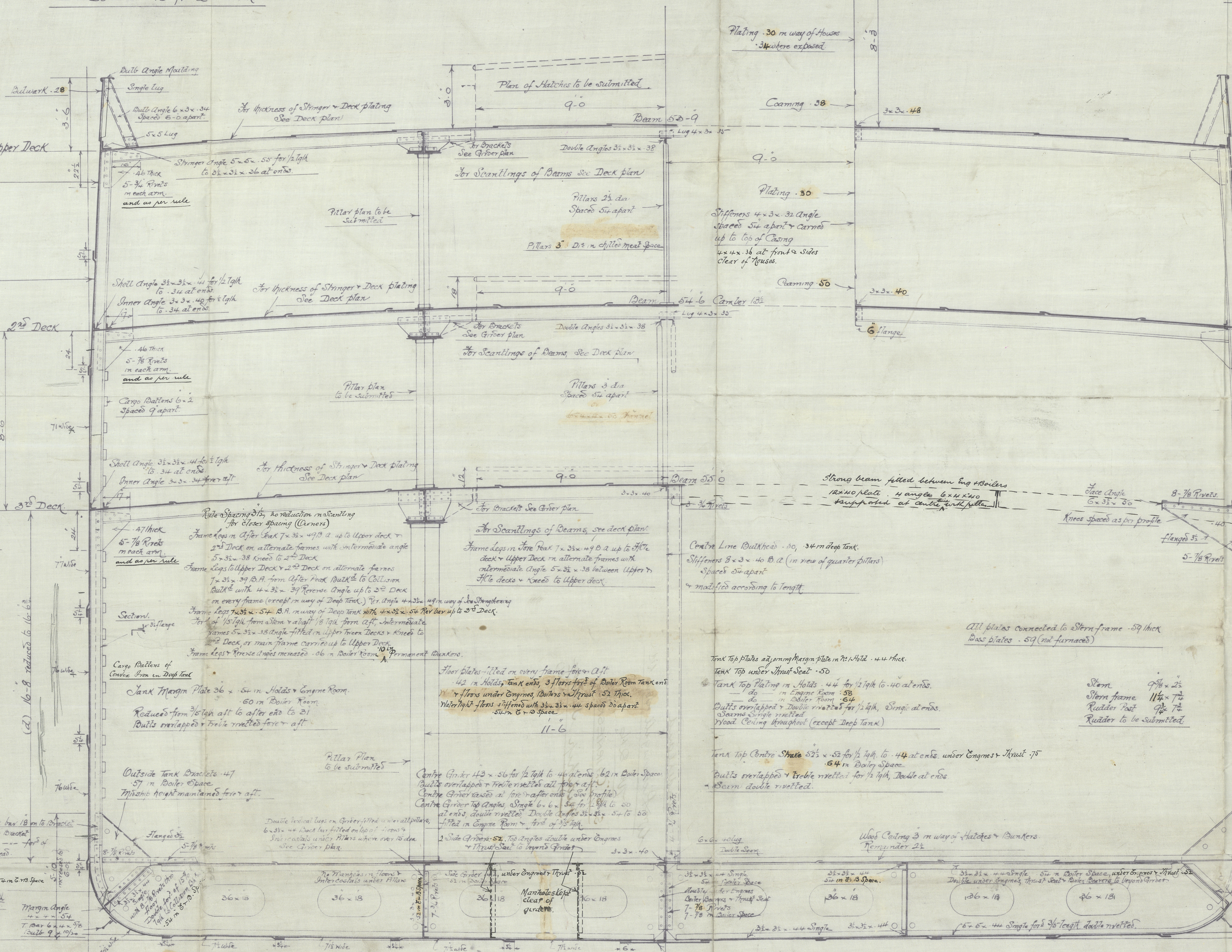
Rev bar 18 in to 16 in

Small Lug 31 x 35 in

Margin Angle

Bottom Shell from keel plate to upper turn of Bridge .59 for 1/2 lgh to .44 at ends

Three Strakes next to keel plate to maintain their thickness for 1/2 lgh



Keel Angles Single 6 x 6 x .60 for 1/2 lgh to .50 at ends double riveted

Double Angles 4 x 4 x .59 for 1/2 lgh to .50 fitted fwd of 1/2 lgh

Flat Plate keel 5 1/2 x 77 for 1/2 lgh to .67 at ends

Wm Pickersill & Sons Ltd

SHIPBUILDERS SOUTHWICK SUNDERLAND

N^o 216

Sunderland
Wm Pickersgill & Sons Ltd

No 216

S. S "CAIRNESK" *

Midship Section
(as built)

N/N ZERMATT

SUNDERLAND RPT. NO. 29298.



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Lloyd's Register
Foundation

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