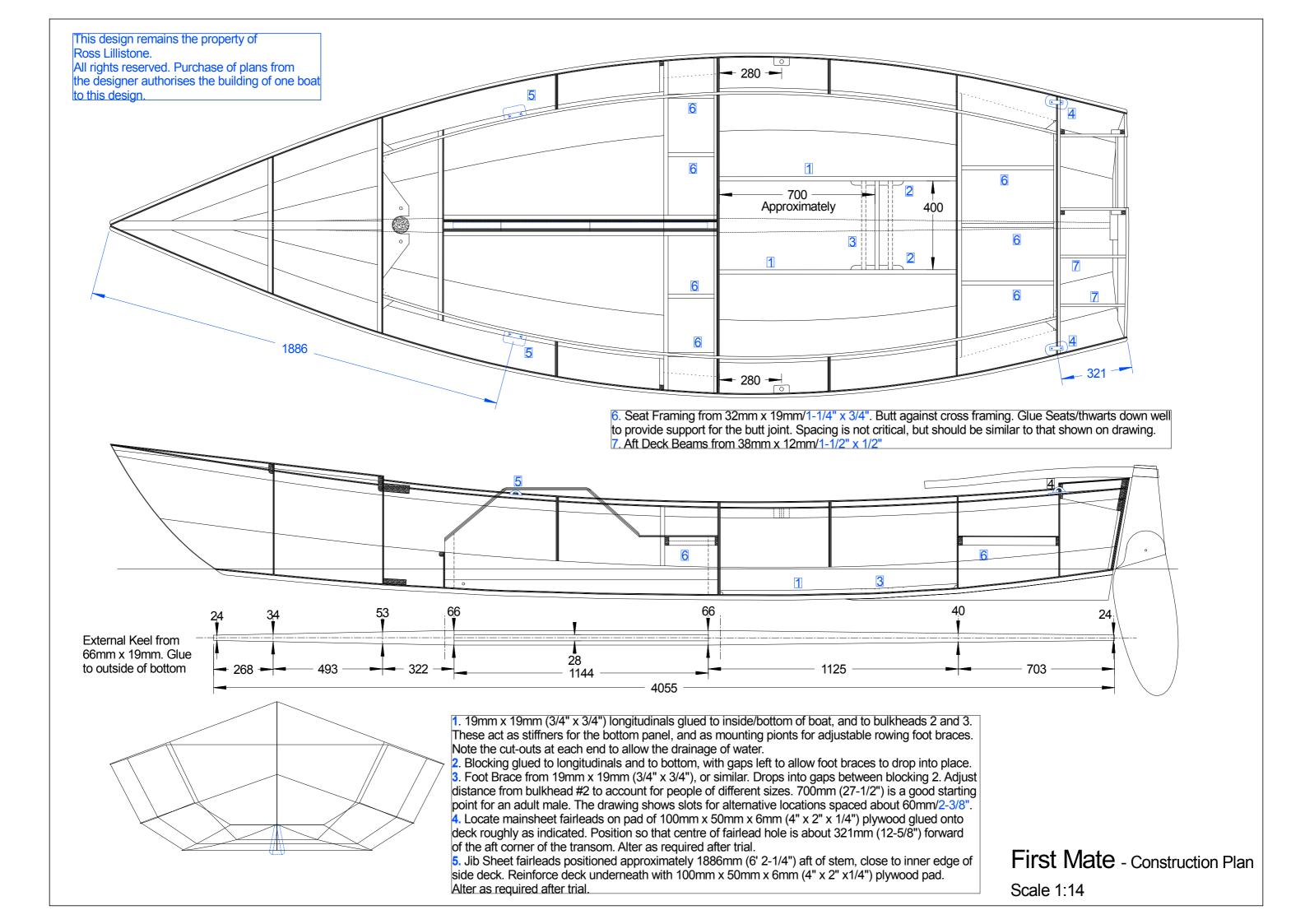
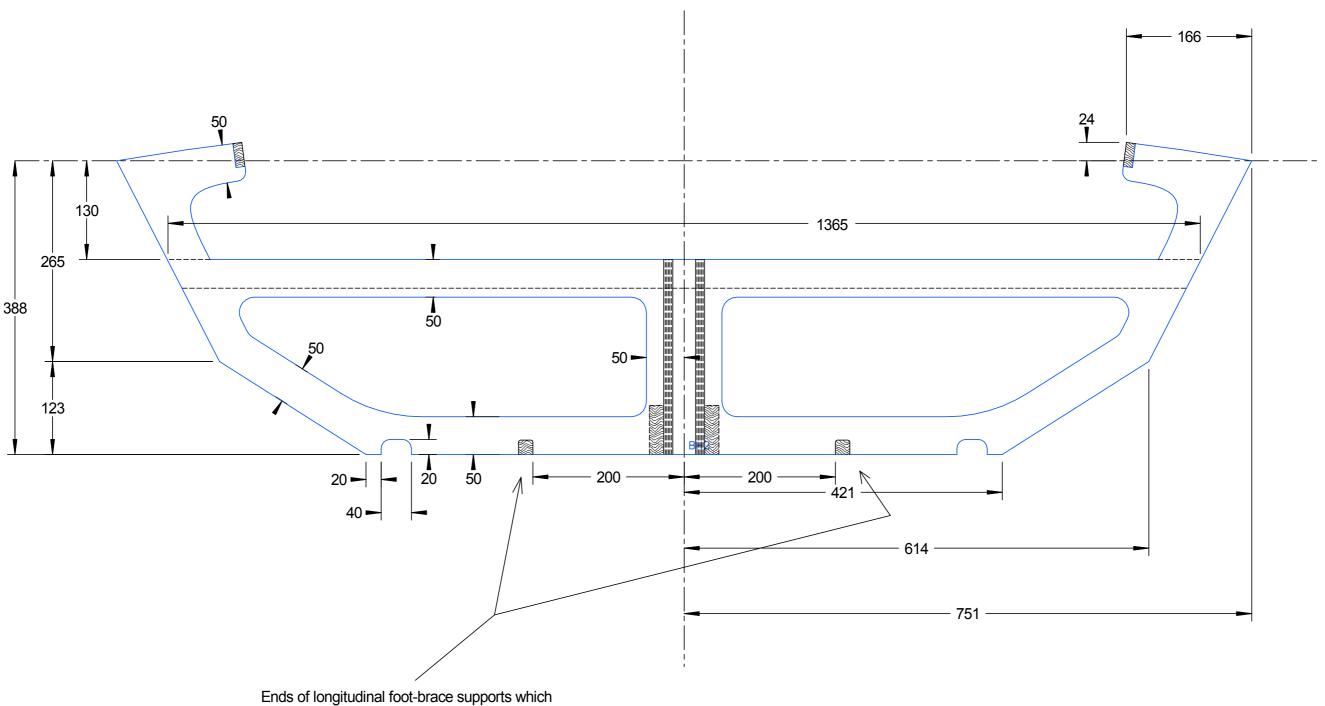


Scale 1:25



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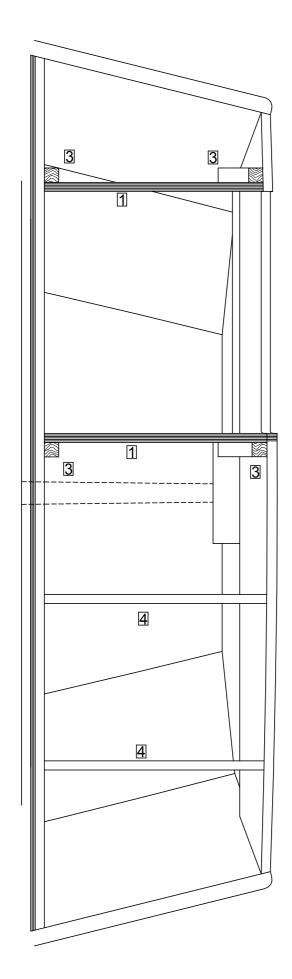
Midships Webframe cut from 12mm marine plywood, to outline shown in blue. Glue 38mm x 12mm crossbeam to for'd face of frame as shown by black hidden detail lines. Cut out openings approximately as shown, but ensure that the perimeter of the frame remains at least 50mm wide. Round-out the corners of the cutouts well to prevent stress concentrations. Position webframe so that for'd face of plywood lines up with frame position line on inside of hull. Centreboard case is glued and screwed to forward face of webframe. Notch out the upper, aft corner of the case to accommodate the crossbeam.

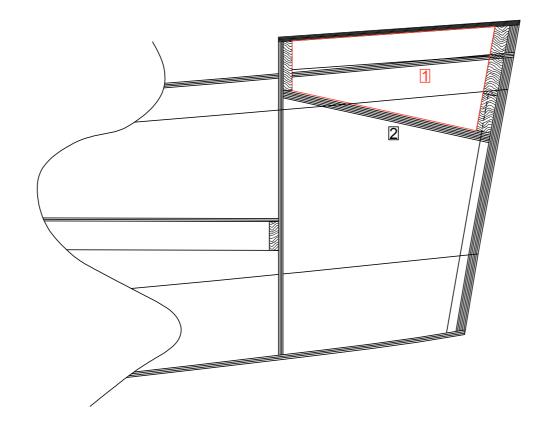


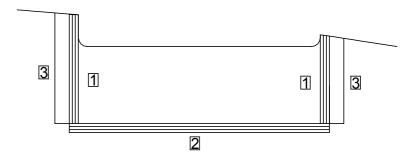
Ends of longitudinal foot-brace supports which are glued in after assembly of the hull. No need to cut out notches, as the supports just butt up against the frame. See *Construction Plan*.

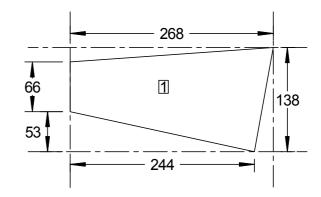
First Mate - Midships Webframe Scale 5:1

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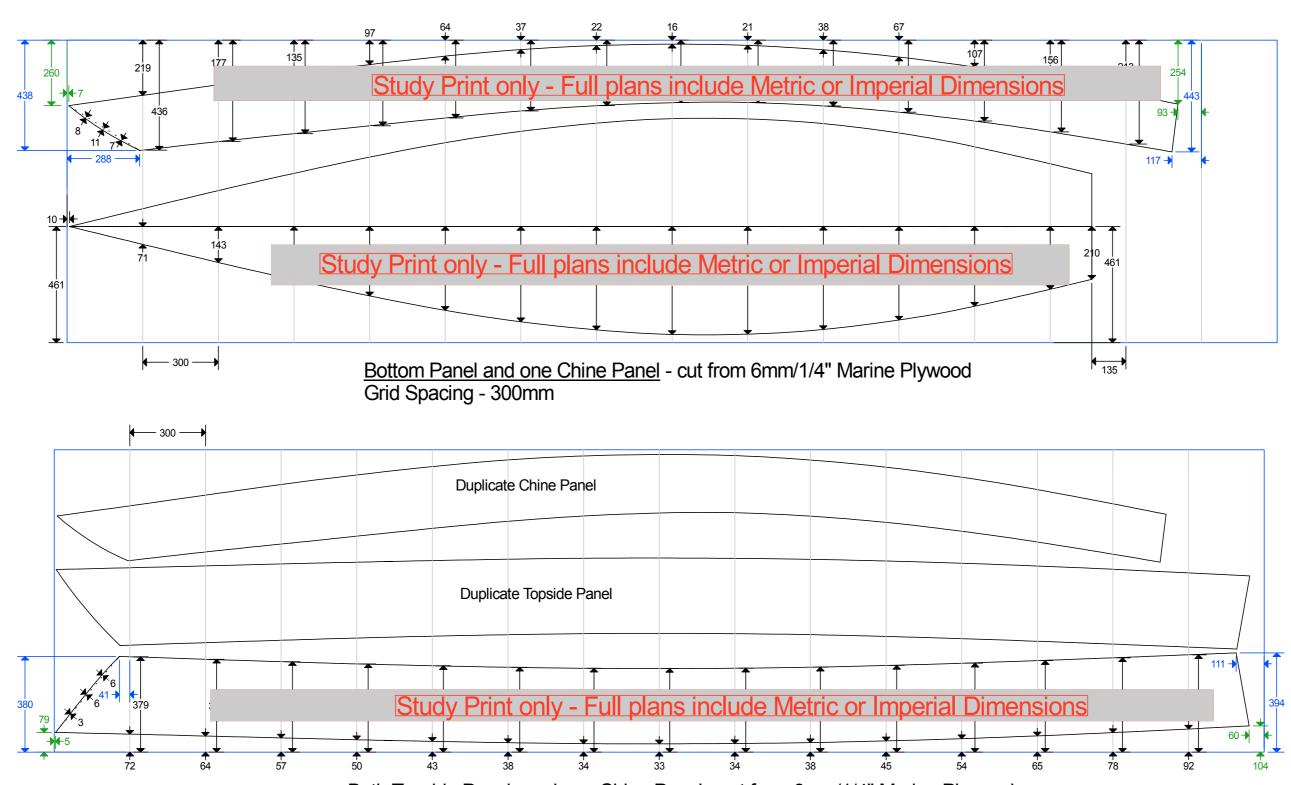






- 1. Outboard Well made from 12mm/1/2" plywood sides. Dimensions shown are Suggestions only take actual shape from boat. The part shown is representative of the side closest to the centreline the other one will be the same shape, but not as deep. Angles should be correct, but take measurements from boat before cutting. This size of well should take most 2 to 3 hp outboards, but check depth of well against your own motor.
- 2. Floor of well from 9mm or 12mm/3/8" or 1/2" plywood. This relatively heavy thickness is so that the floor will take the weight of a person's foot, and will help strengthen the well assembly to take road trailering shocks when outboard left in place. 6mm/1/4" is probably sufficient if weight is a problem.
- 3. 19mm x 19mm/3/4" x 3/4" cleats glued and screwed to boat structure and well sides.
- 4. Aft Deck Beams from 38mm x 12mm /1-1/2" x 1/2" or similar

First Mate - Outboard Splash Well Scale 1:5

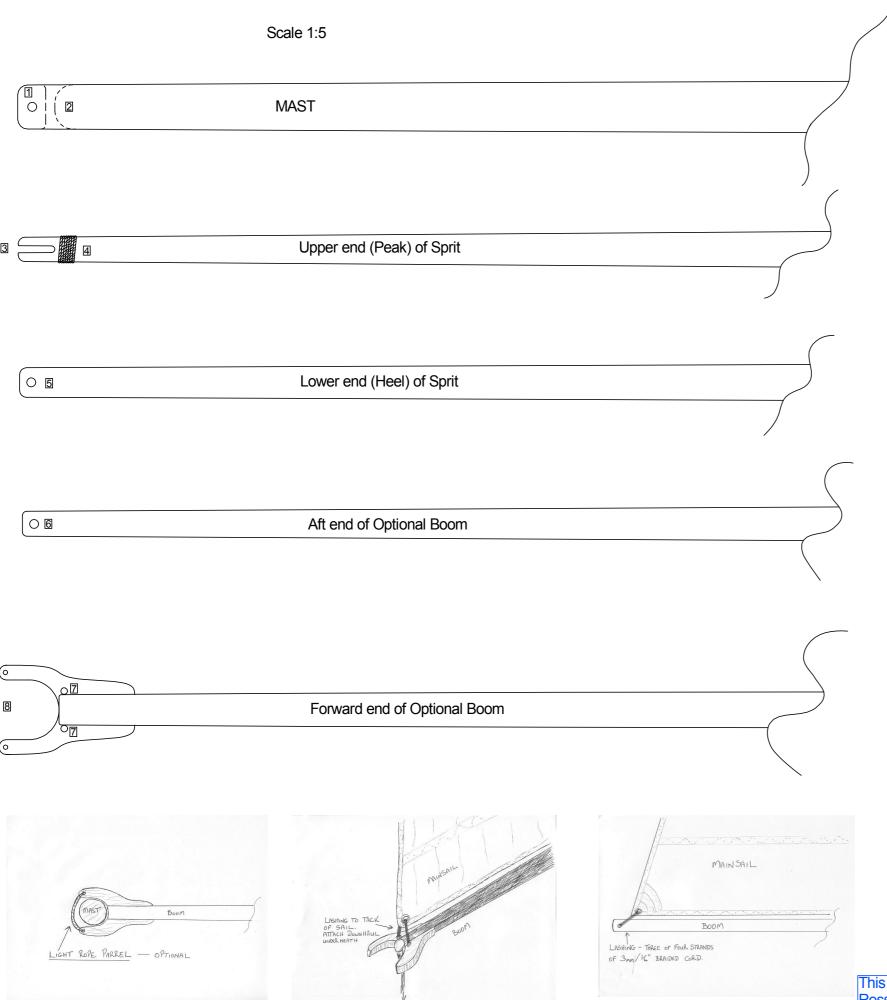


Both Topside Panels and one Chine Panel - cut from 6mm/1/4" Marine Plywood Trace around cut panels to produce duplicates as shown.

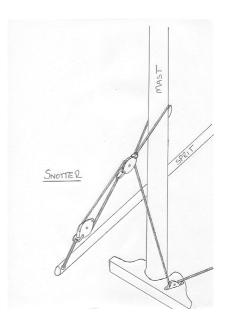
Grid Spacing - 300mm

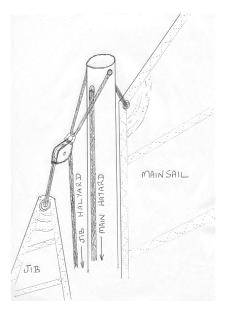
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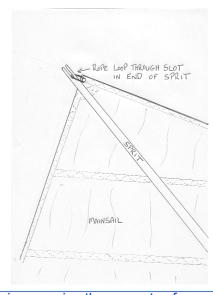
First Mate - Panel Layout Scale 1:15



- 1. Hole drilled across the mast tip to take lashing for small pulley block for Jib Halyard. Hole approximately 9-12mm/ 3/8-1/2" diameter.
- 2. Hole drilled parallel with centre line of boat to take Mainsail Halyard. Round over to reduce friction on hayard during raising and lowering. Diameter aproximately 9-12mm/ 3/8-1/2"
- 3. Slot in peak end of Sprit to engage peak cringle on sail. Make slot about 9mm/ 3/8" wide by about 50mm/ 2" (or more) deep.
- 4. Optional lashing around sprit to reinforce against splitting.
- 5. Hole drilled across heel of Sprit to take lashing for snotter pulley. Make hole aproximately 9-12mm/ 3/8-1/2" diameter.
- 6. Hole drilled across outer end of boom to take lashing for Clew Outhaul lashing. Aproximate 9-12mm/ 3/8-1/2" diameter.
- 7. 9mm/ 3/8" holes drilled through Boom Jaws to take Tack Lashing and Downhaul. The 25mm hardwood jaws should be screwed (or bolted) and glued to boom.
- 8. Holes drilled through forward ends of Gaff Jaws to take optional parrel. Hole approximately 6mm/ 1/4" diameter.







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First Mate
Spar and Rigging Details
Scale 1:5

large fillet. This is because large volumes of epoxy with a small surface are can build up heat rapidly during the curing chemical reaction. If doing it in a number of smaller runs, allow about an hour between each run – that way you will still get a chemical bond between each application, but the majority of the heat from the exothermic reactions will dissipate before the next lot goes into place.



Figure 23

23. While the surface of the epoxy fillet is still soft, lay on the first layer of 400gsm/12oz glass, and smooth into position with a brush.



Figure 24

**24.** You can see some resin soaking into the first layer of glass.



Figure 25

**25.** Apply the second layer of glass, overlapping the previous application so that you end up with a double layer in the middle, and single layers on each side.



Figure 26

**26.** Brush un-thickened epoxy through both layers until they are fully wet-out. Only put on enough resin to wet-out properly, but no more – you don't want puddling of epoxy, as the cloth can tend to 'float' in the liquid epoxy.



Figure 27