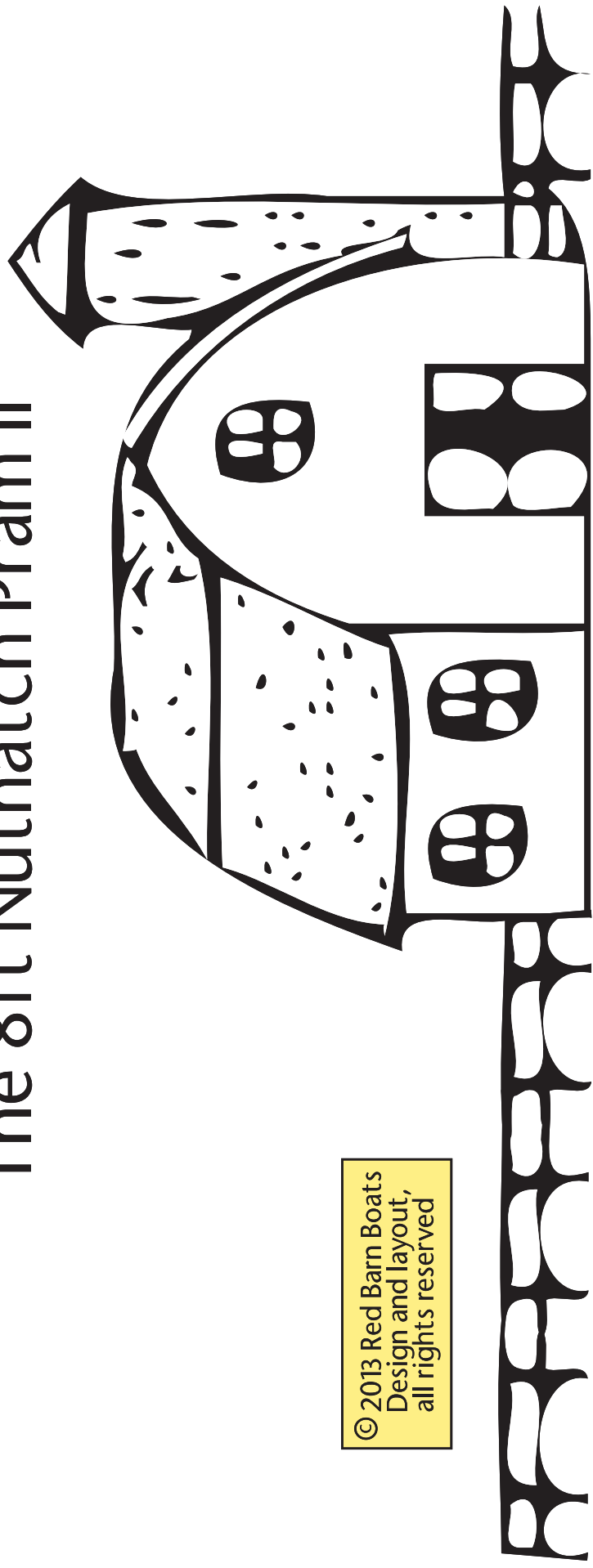


RED BARN BOATS

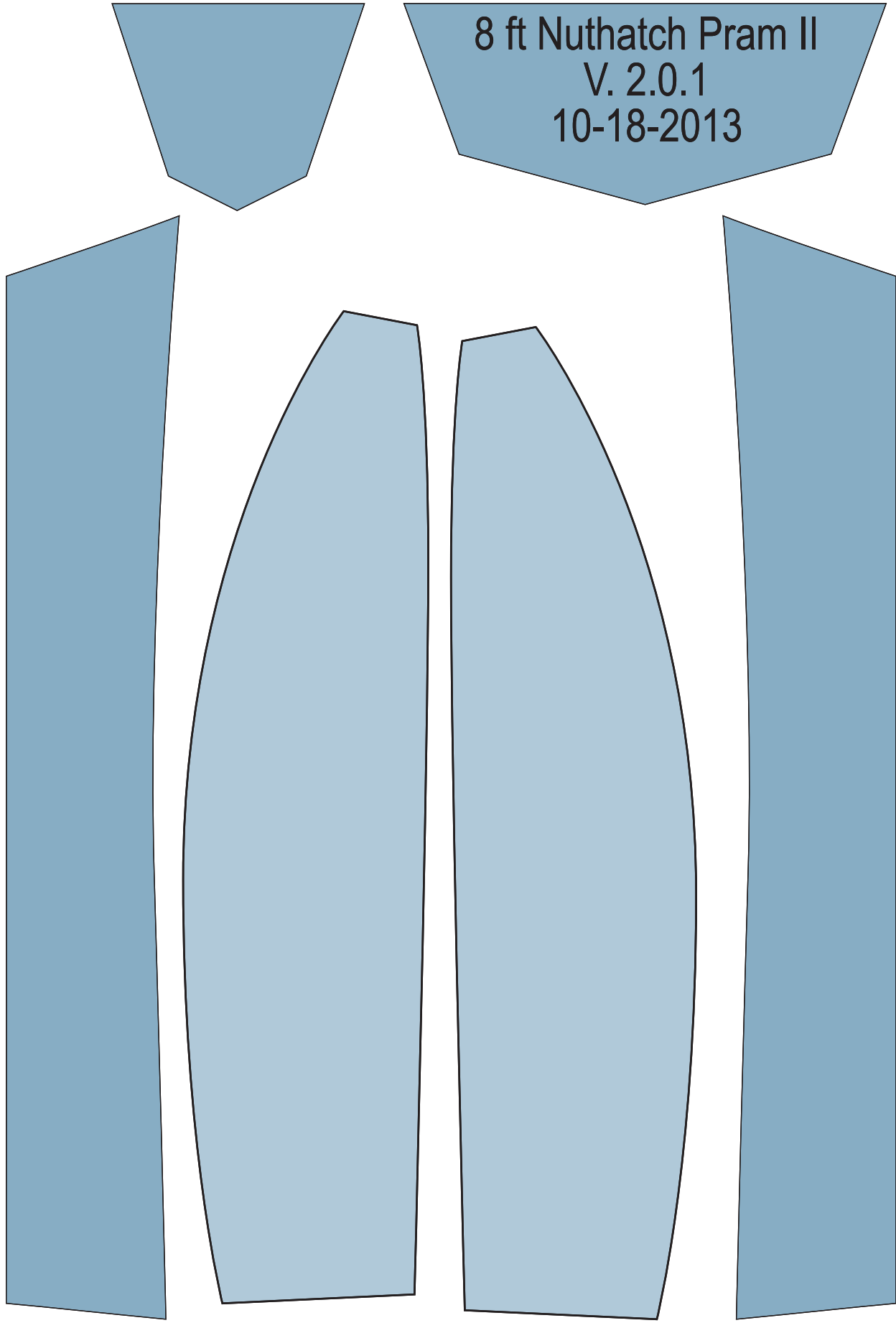
The 8ft Nuthatch Pram II

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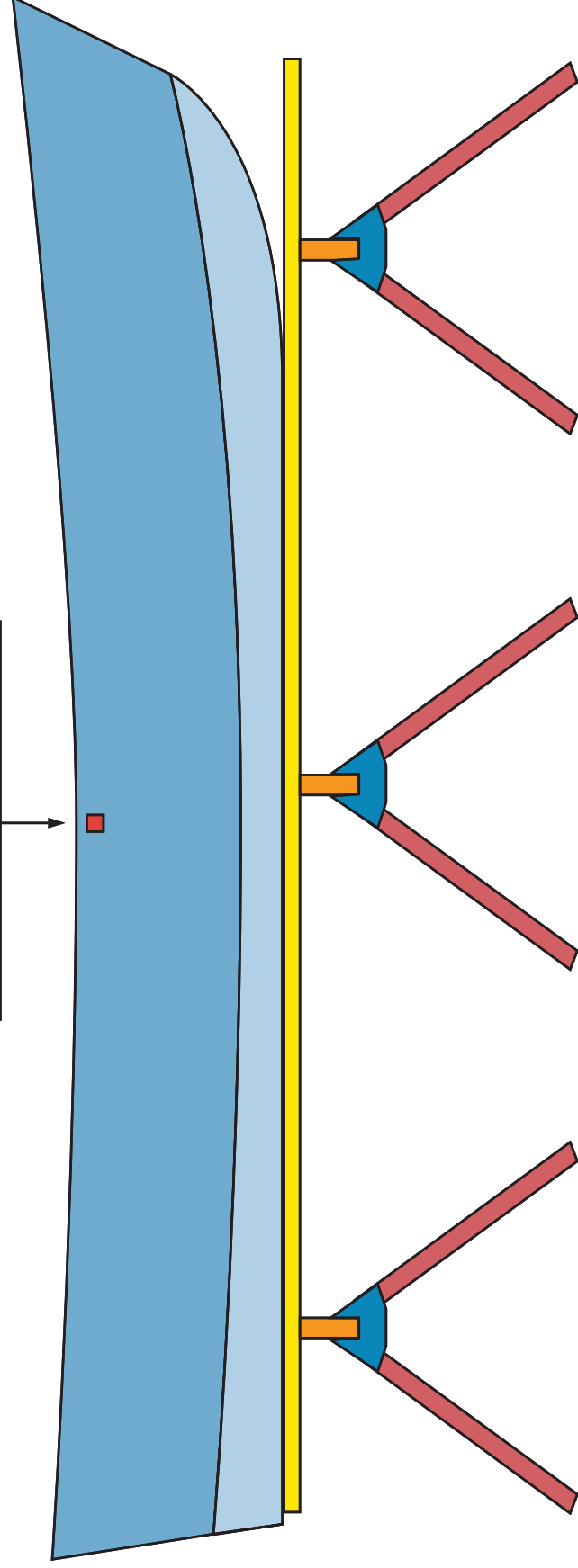
www.youtube.com/redbarnboats

Copy this page. Glue to cardboard cereal box. Cut out panels and tape together.

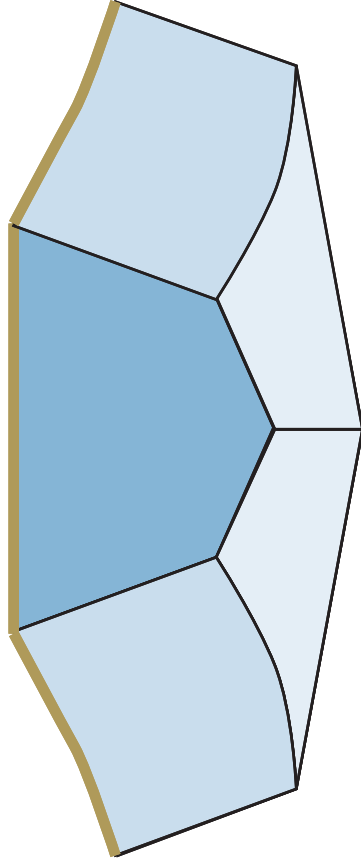


Build this model before you start the real boat.

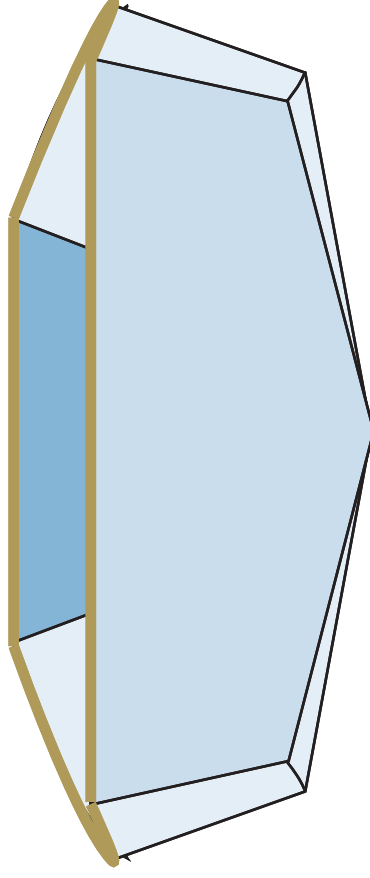
2 x 2 x 49 3/4" spreader board



Side View

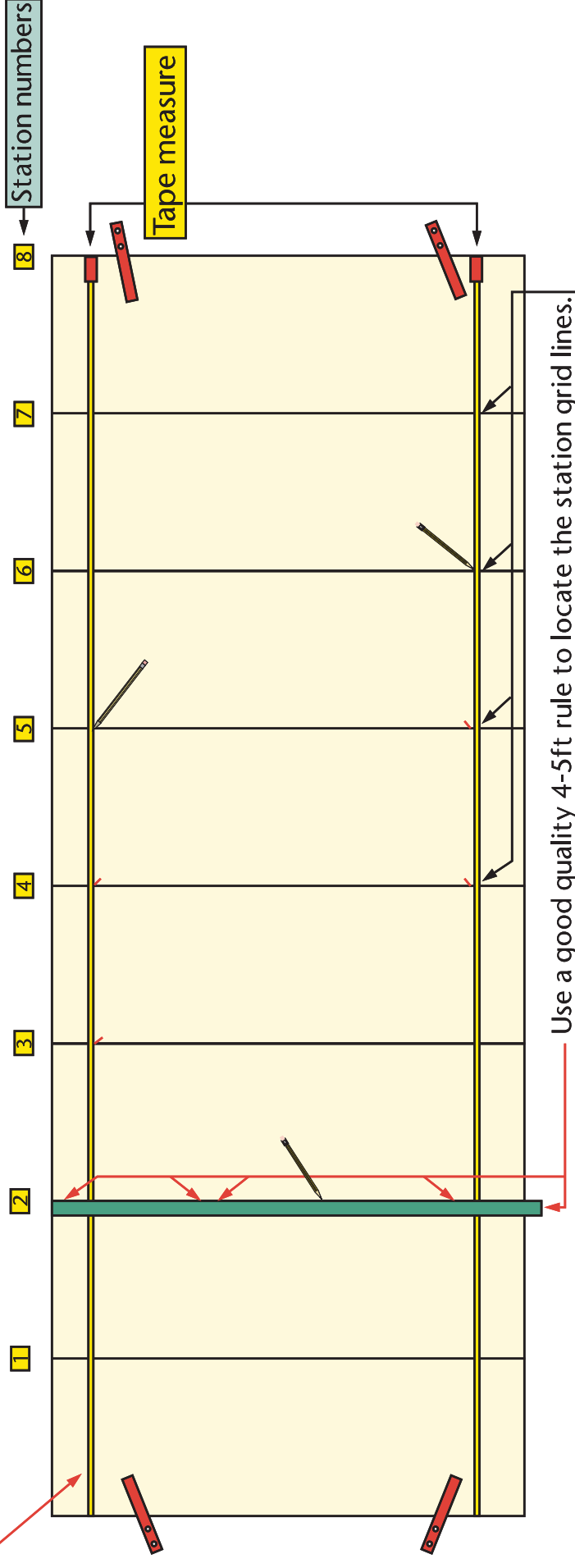


Bow View



Stern View

Use a tape measure to layout the 12" grid lines starting from the lefthand end of the two stacked scarfed plywood sets

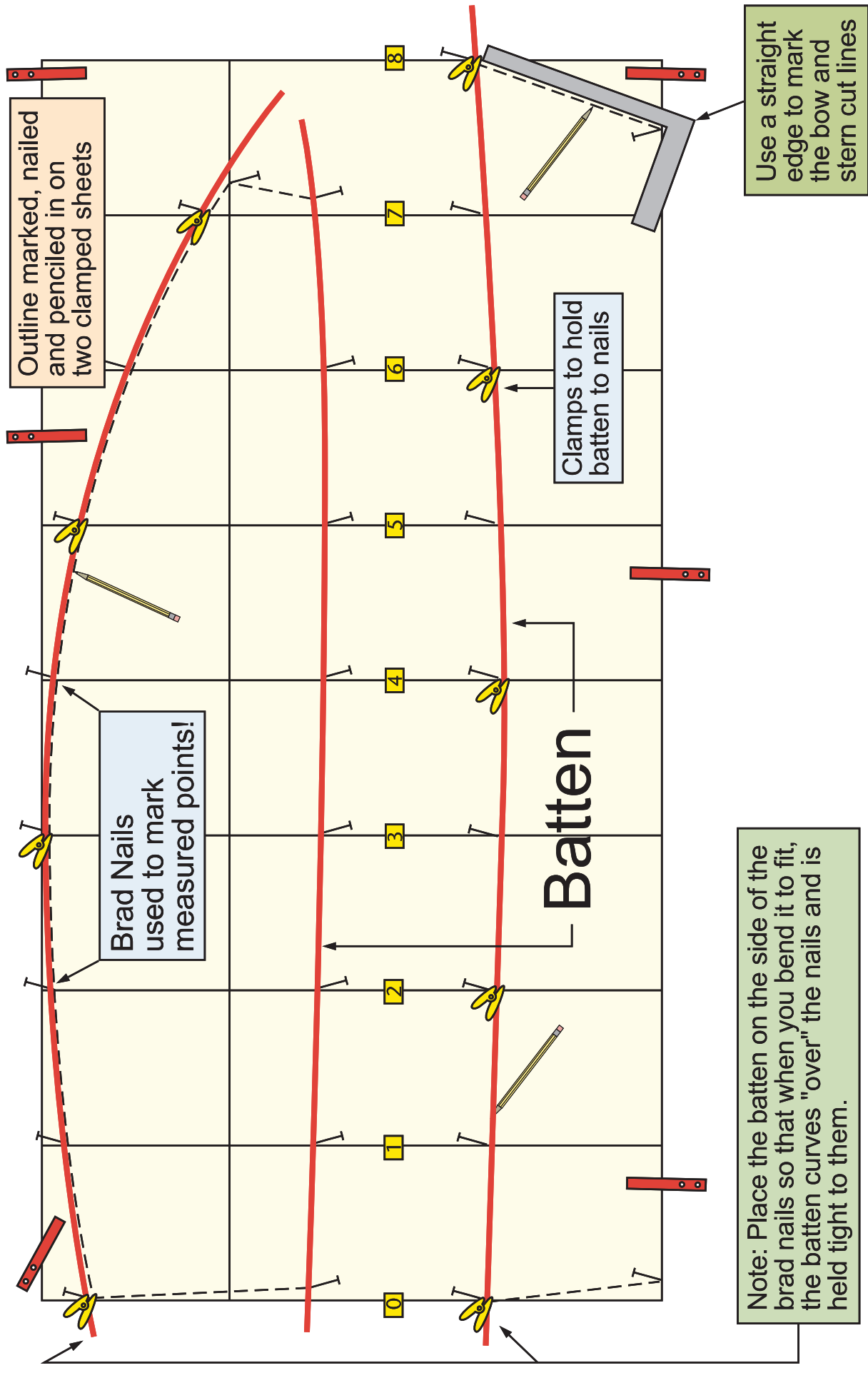


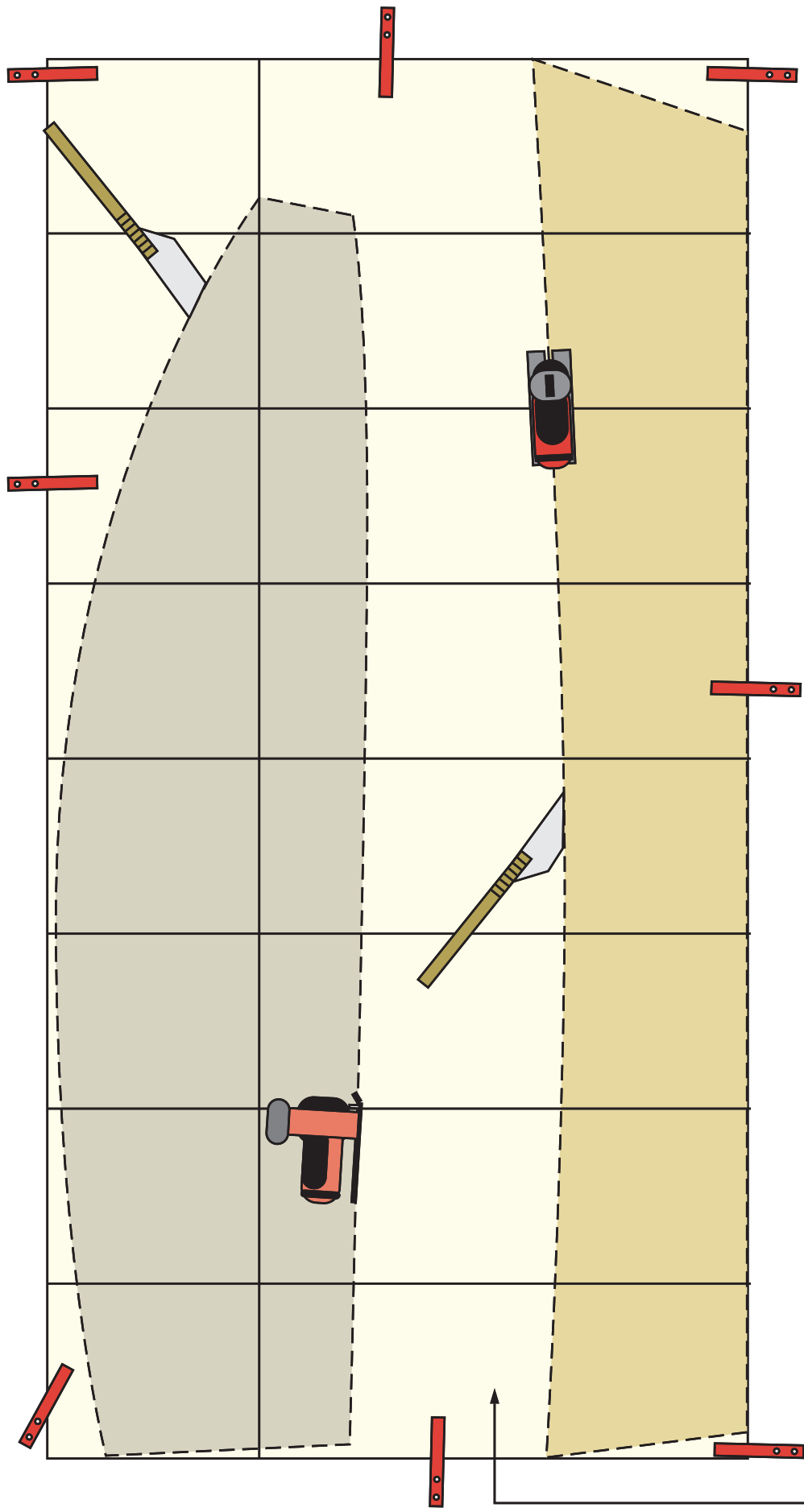
The start of lofting for the joined panel set.

1. Measure and mark the 1 foot "tic marks" on both the upper and lower edges of the panel set.
2. Use a 4-5 foot rule to join the tic marks to make the station grid lines.



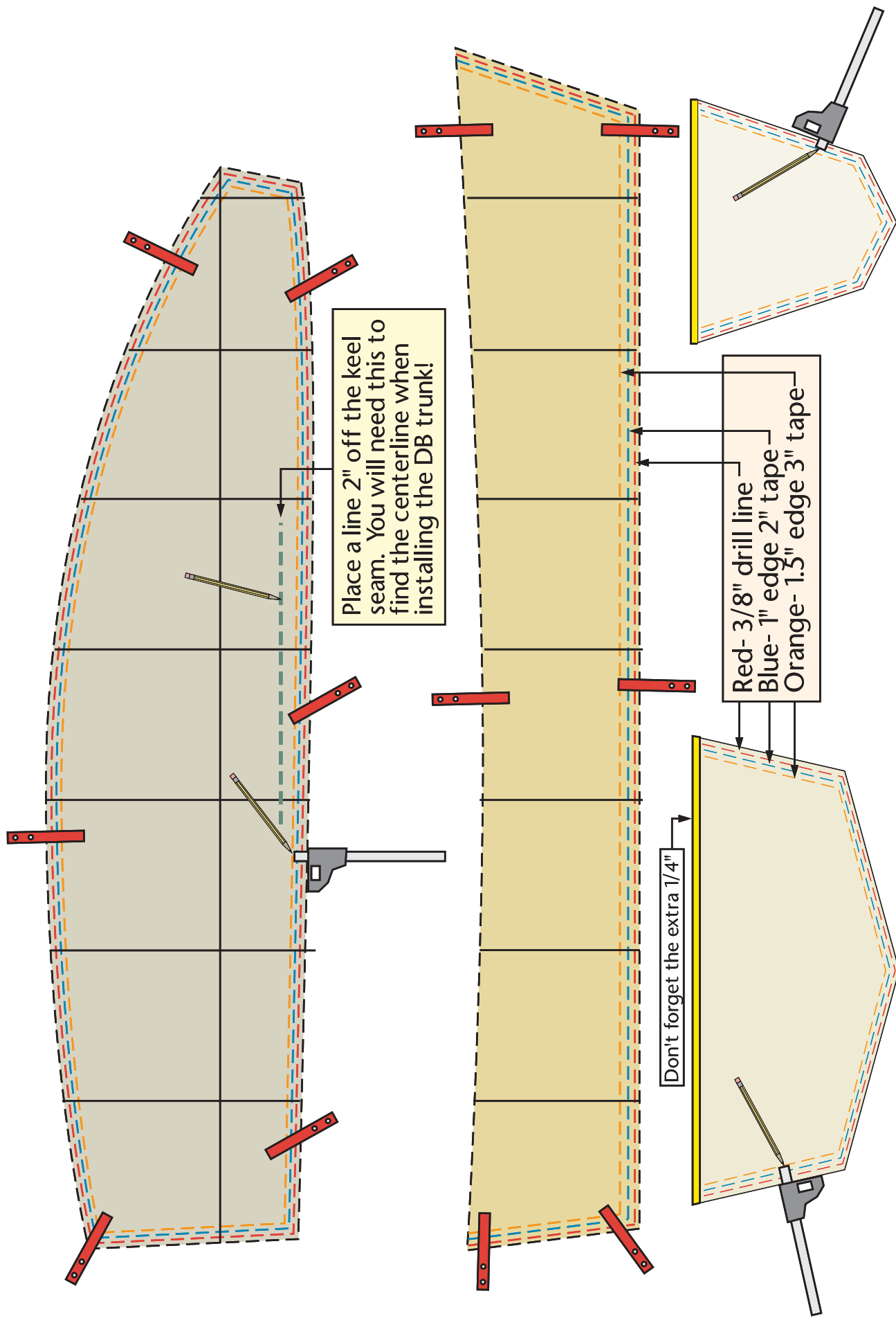
Note: You will have two sheets stacked one on top of the other when you mark the station lines. The back panel does not get marked!



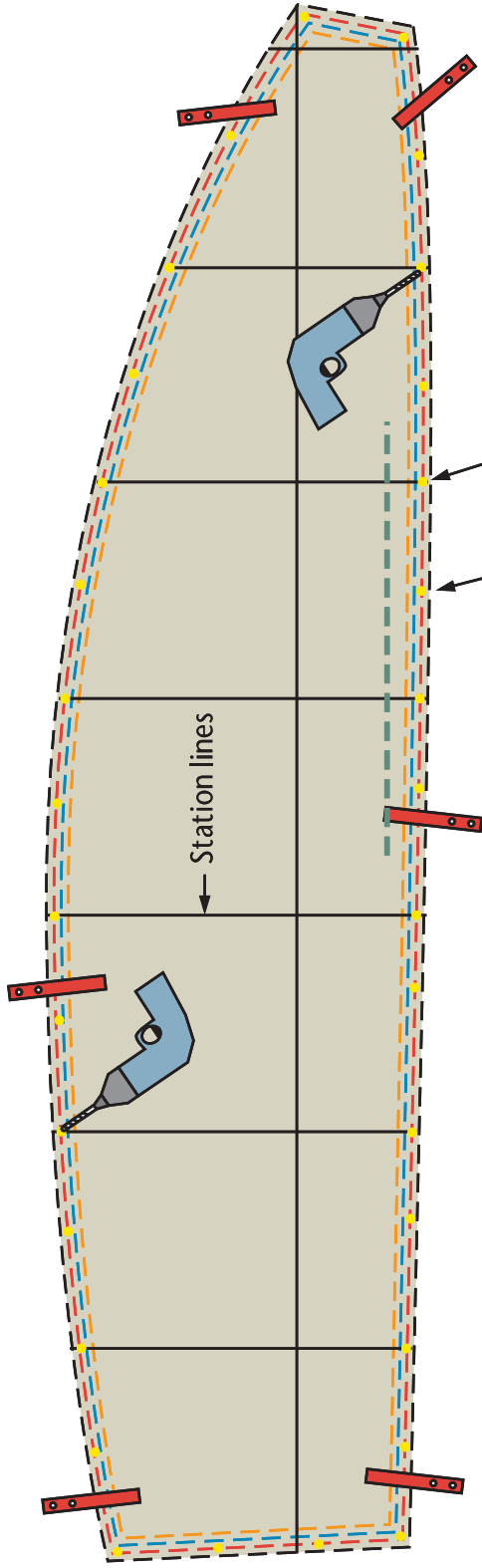


Cut out the "adjusted panels still clamped together!

Note: Save as much of the "not boat" plywood as possible! You can use it for the interior parts later.



The hull panels now need to have the set back lines added that show where the tie wire holes are drilled, and where the edges for the layers of the inside fiberglass tape are placed.

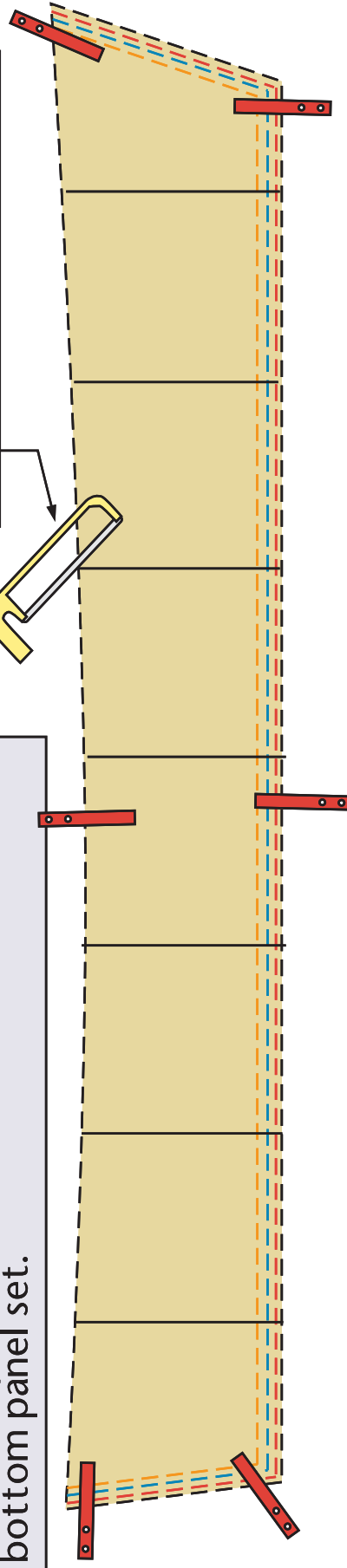
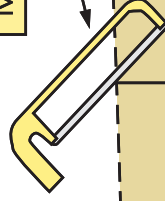


Station lines

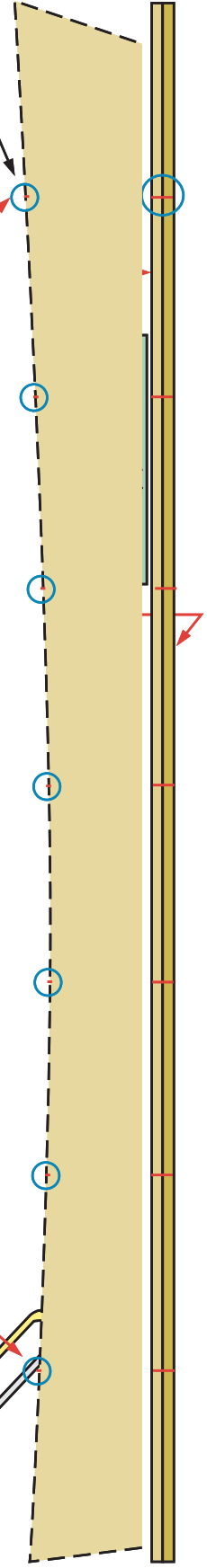
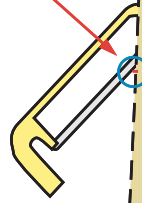
Drill tie wire holes on the station lines and halfway in between. Go to a 4" spacing when close to the ends

Now you will drill out the holes for the tie wires only the bottom panels are drilled at this time! The other panels are drilled when wired to the bottom panel set.

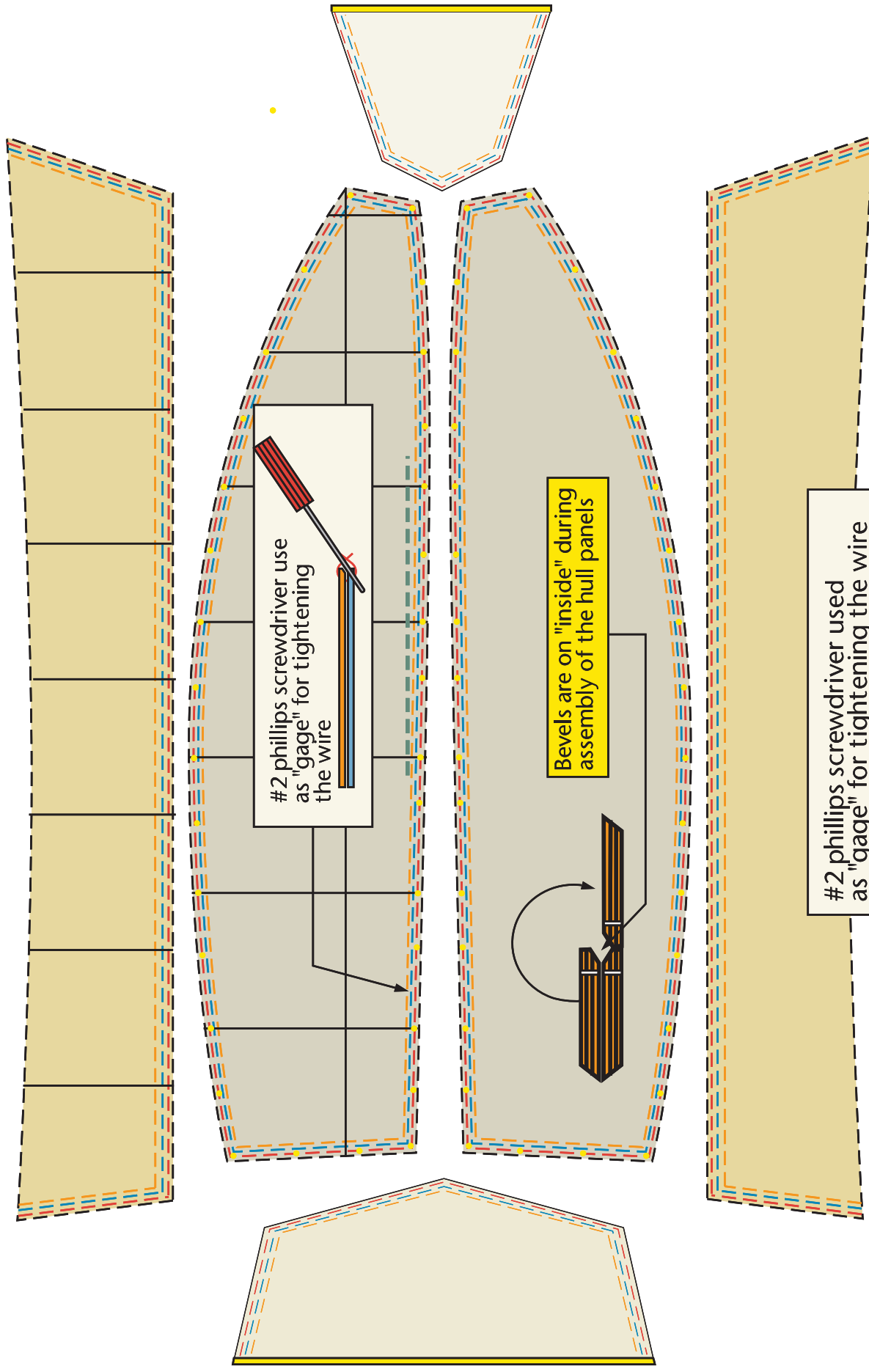
Making the "station line cut marks"



Note: Before you separate the cut out panel pairs, take a "fine bladed saw" and cut notches in the upper edge of the panels. You will need these "station line cut marks" later in construction to locate and "square up" all the interior cross braces, seat panels, mast partner, and oarlock sockets.



Scale reduced to fit panels on page!

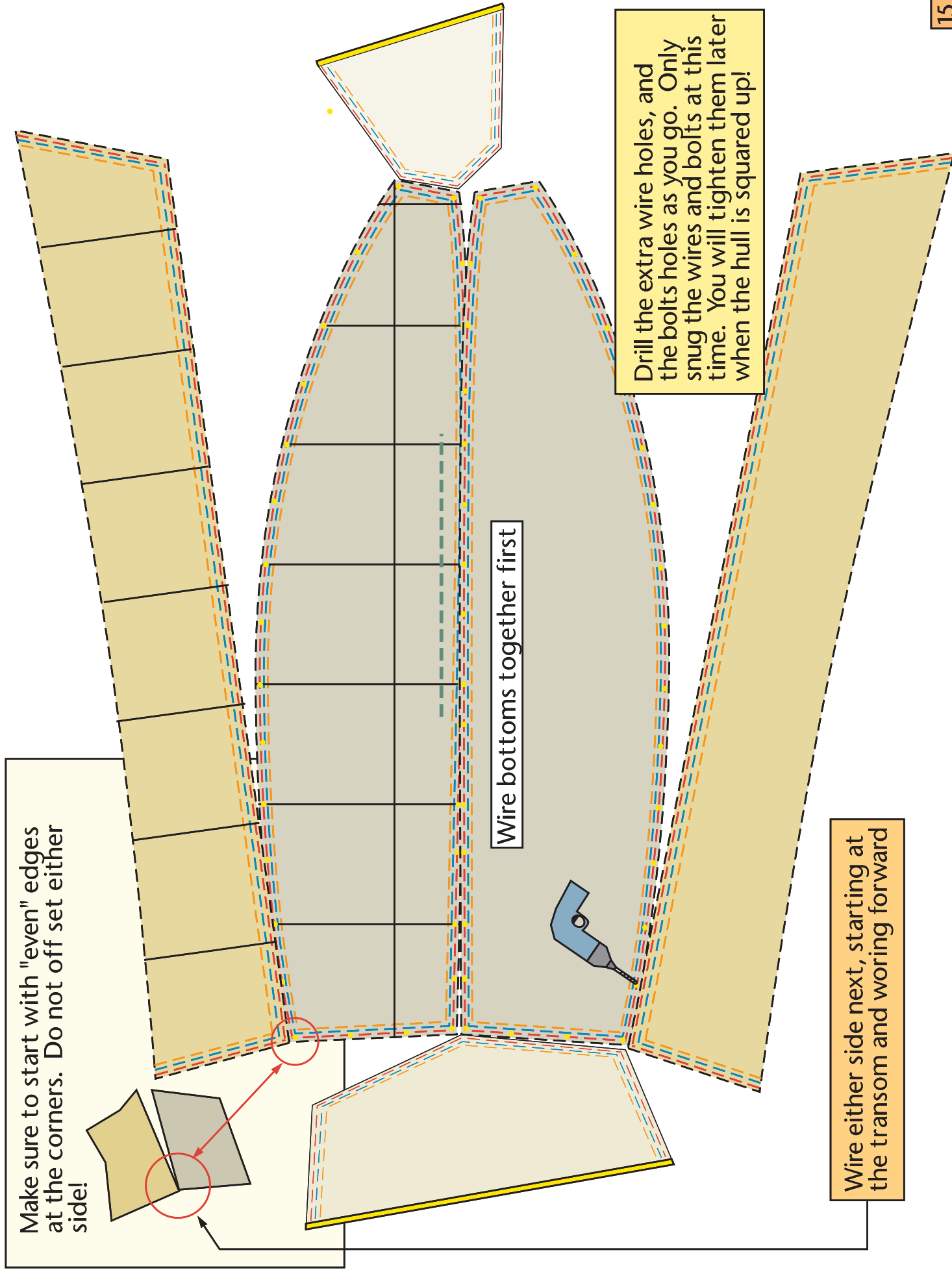


Make sure to start with "even" edges at the corners. Do not off set either side!

Wire bottoms together first

Drill the extra wire holes, and the bolts as you go. Only snug the wires and bolts at this time. You will tighten them later when the hull is squared up!

Wire either side next, starting at the transom and working forward



Cross hull tension lines used to "square up" the hull. Adjust until the "cross hull distances" are the same!

Board to support if the level is to short to span the width

Use a tape measure to check the "cross hull distances" to make them the same using the cross hull cords!!!

Carpet remanates to support the chine. Try not to put them under the middle of the bottom panels!

Wired up hull ready for jump stitches and fillets

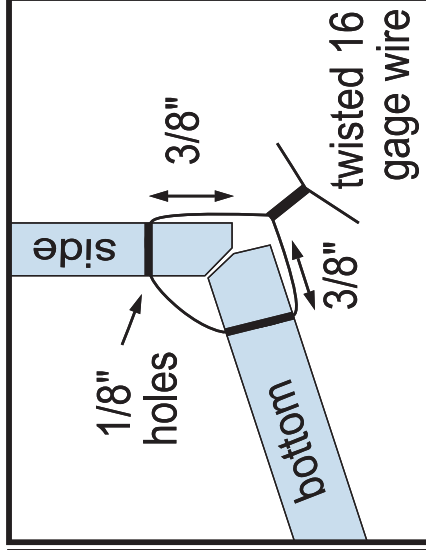
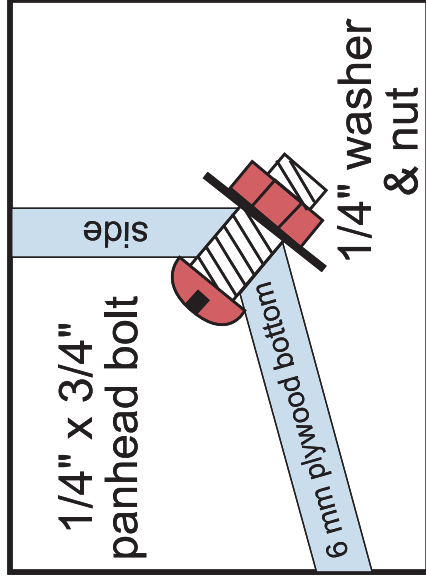
Angle gage and cords to make sure the panel angles are the same!

Leveling tie down cords

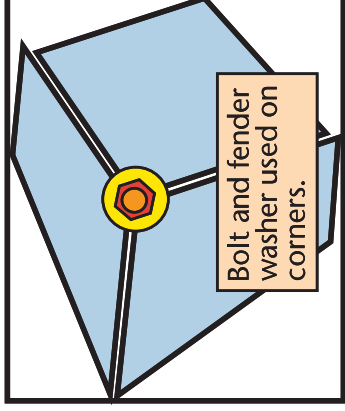
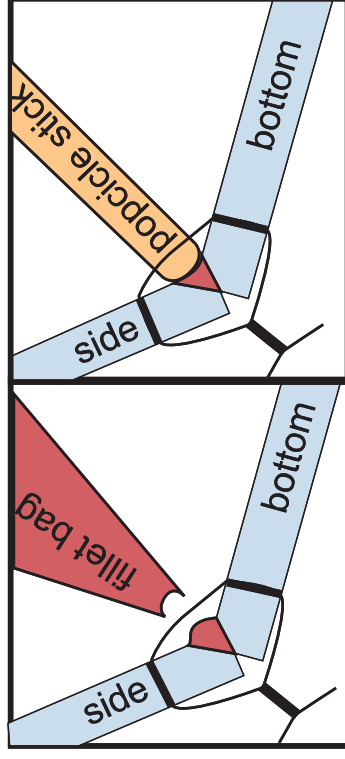
Level the hull prior to doing the "jump stitch" and seam fillets!

Large staple or eye screw in end of 2x6

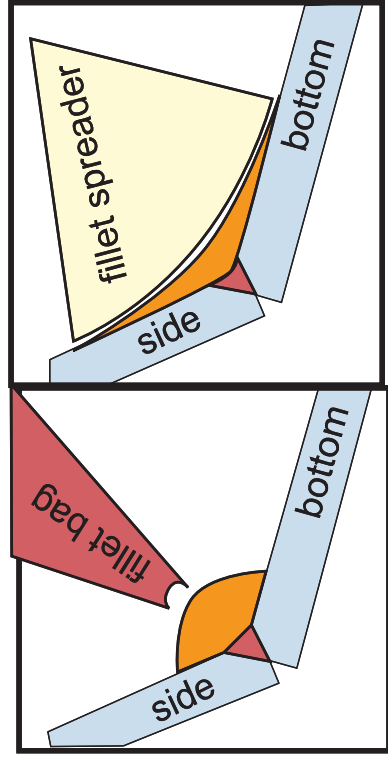
Note: You may get some "funky recurves" at the bow ends of the side panels. Cut and wire in a 2x2 to hold the tops apart until you add the rails!



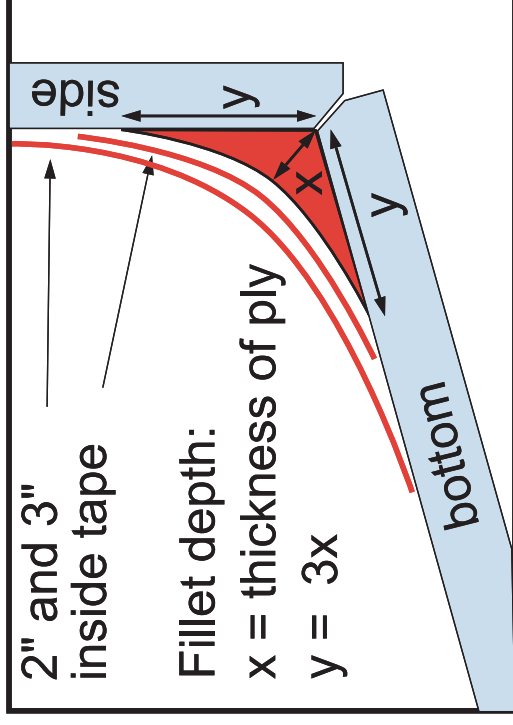
Wiring and bolting the panel sections together



Jump Stitch

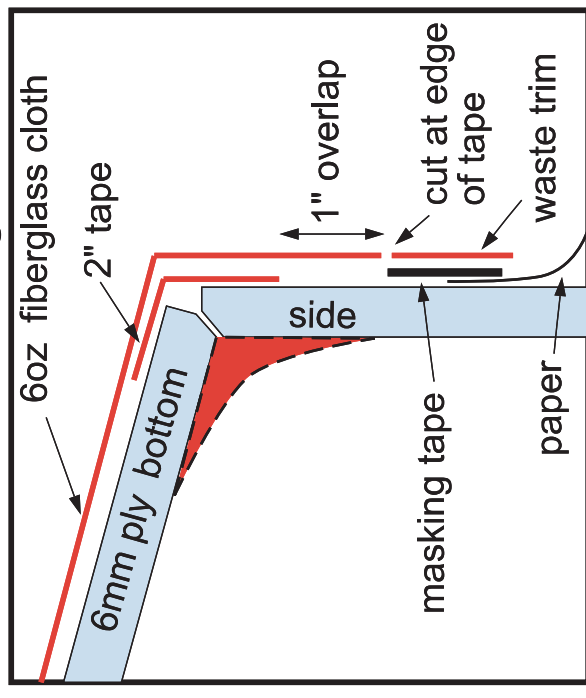


Applying and Spreading the Fillet



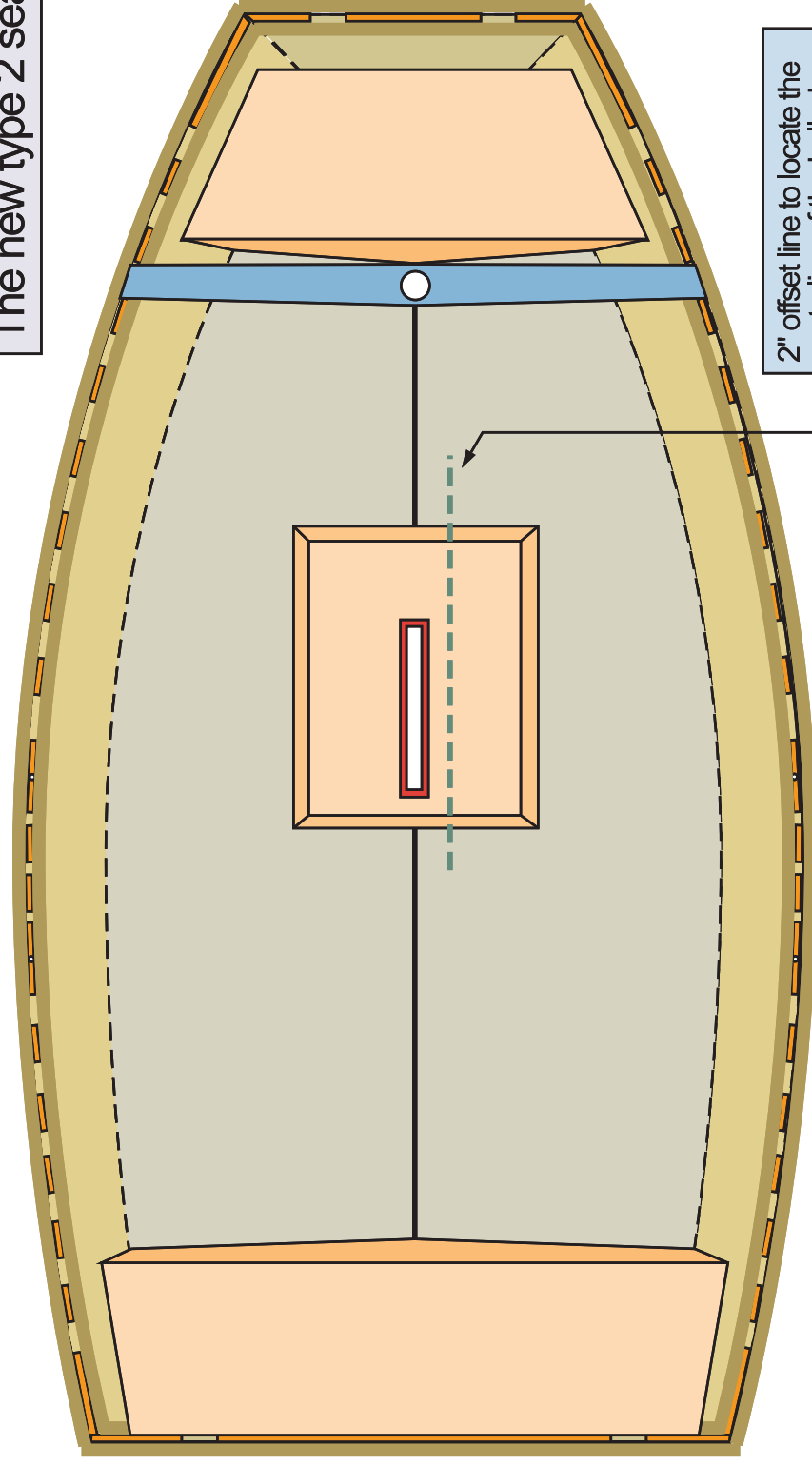
Cross section of taped seam

Bottom outside edge details

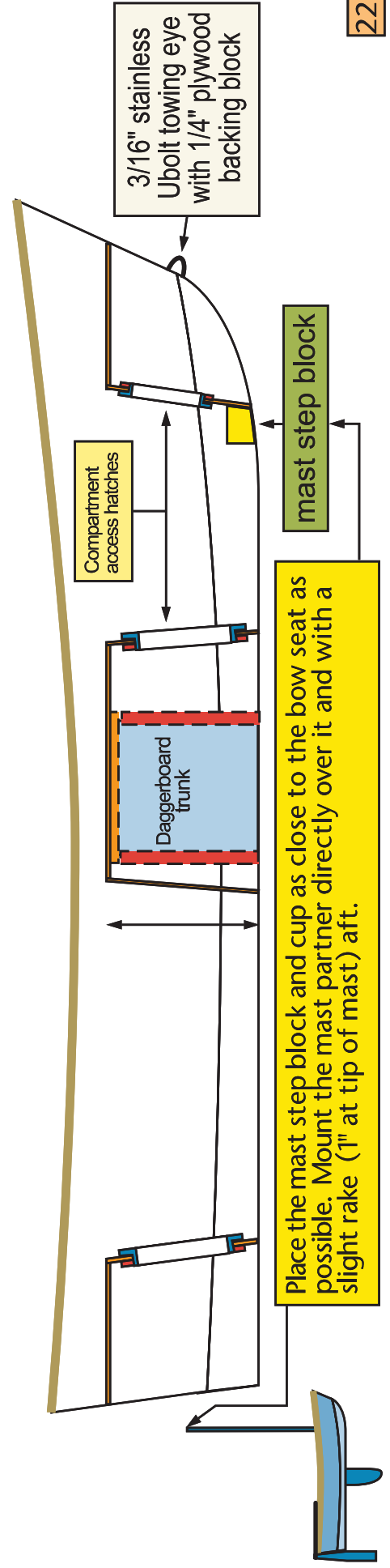


Read the instructions as you study these drawings. Each picture tells a story. Use the cardboard model you made to visualize the directions.

The new type 2 seat locations



2" offset line to locate the centerline of the hull when you cutout the opening for the daggerboard trunk



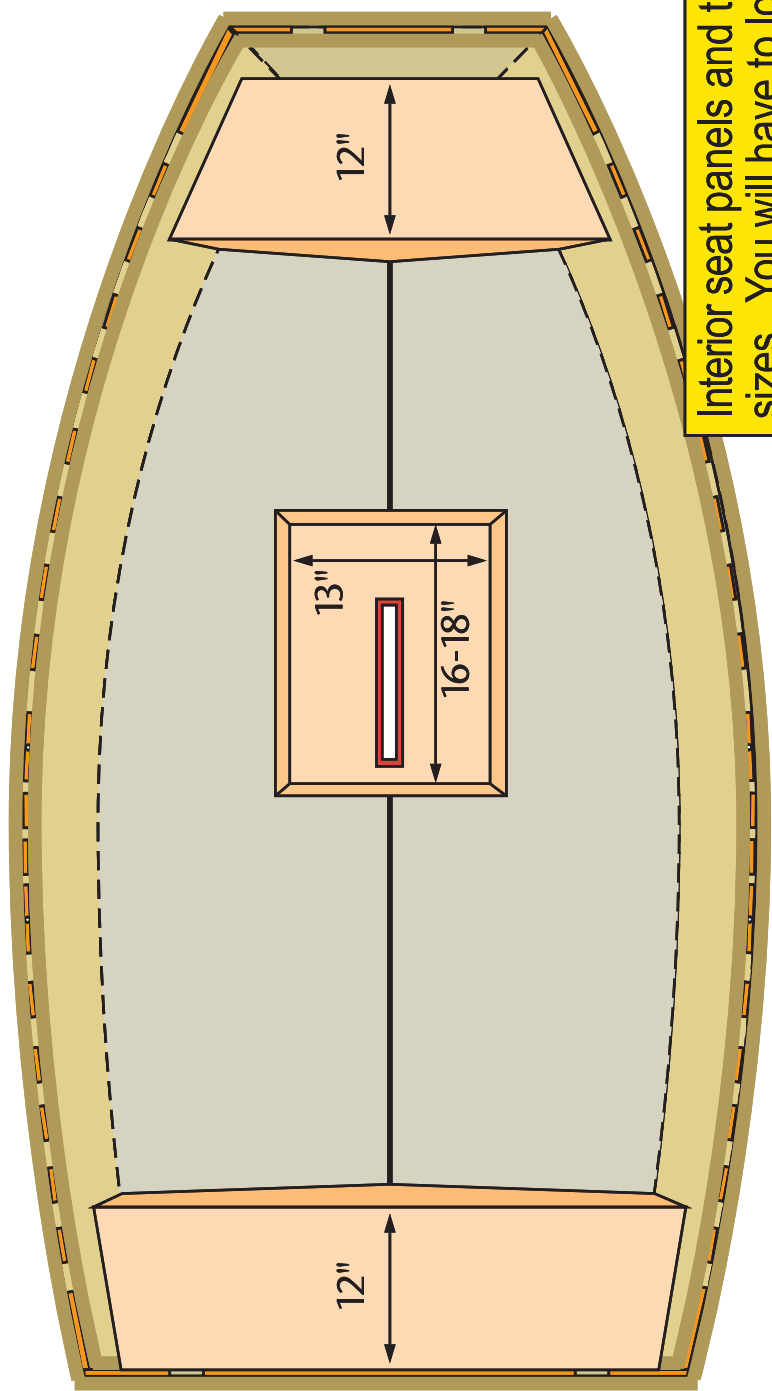
Place the mast step block and cup as close to the bow seat as possible. Mount the mast partner directly over it and with a slight rake (1" at tip of mast) aft.

3/16" stainless
U-bolt towing eye
with 1/4" plywood
backing block

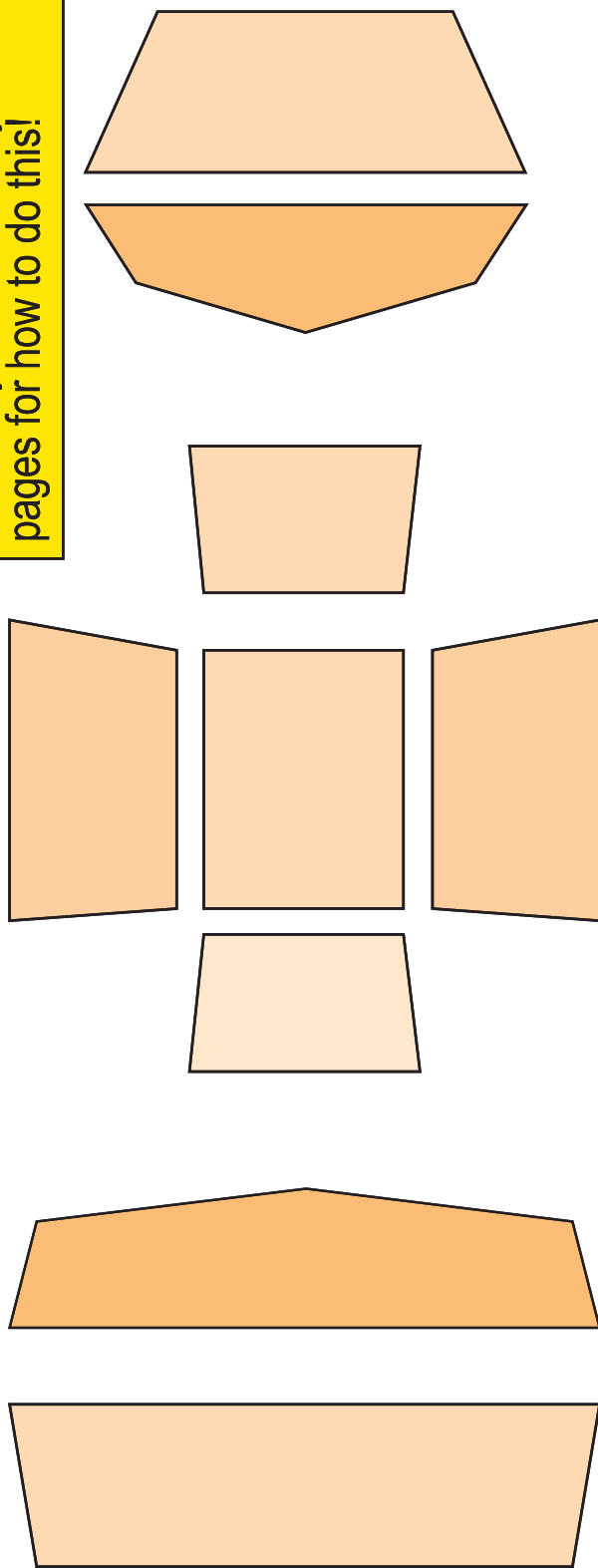
mast step block

Compartment
access hatches

Daggerboard
trunk



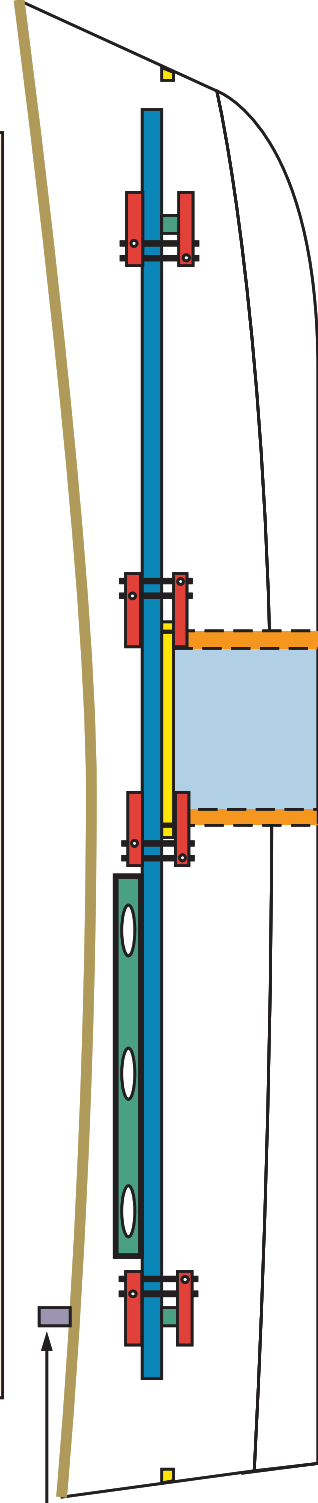
Interior seat panels and their approximate sizes. You will have to locate and size them for your hull. Study the following pages for how to do this!

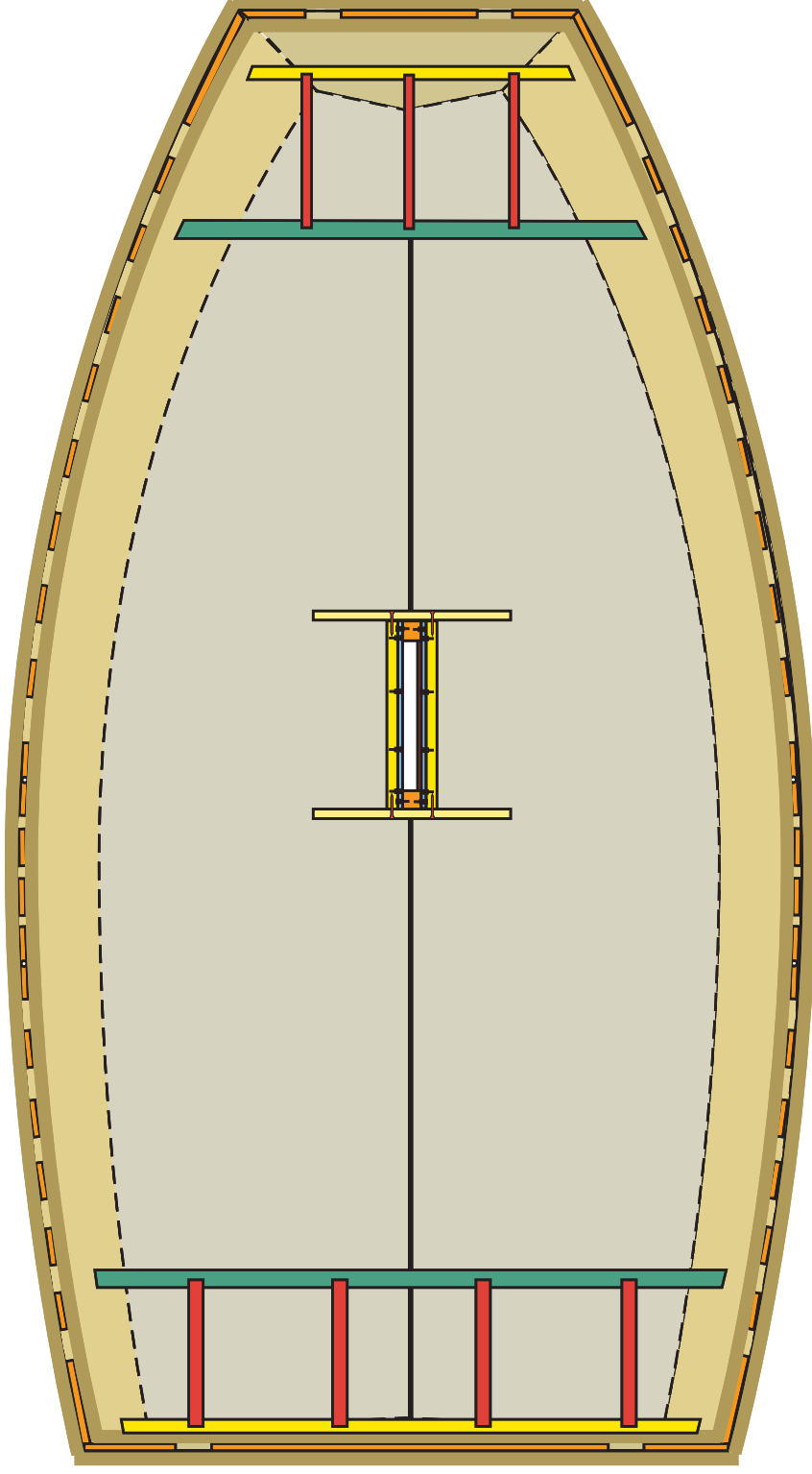


Slide over after installing the 2x2's to locate the 1x1's on the bow and stern panels

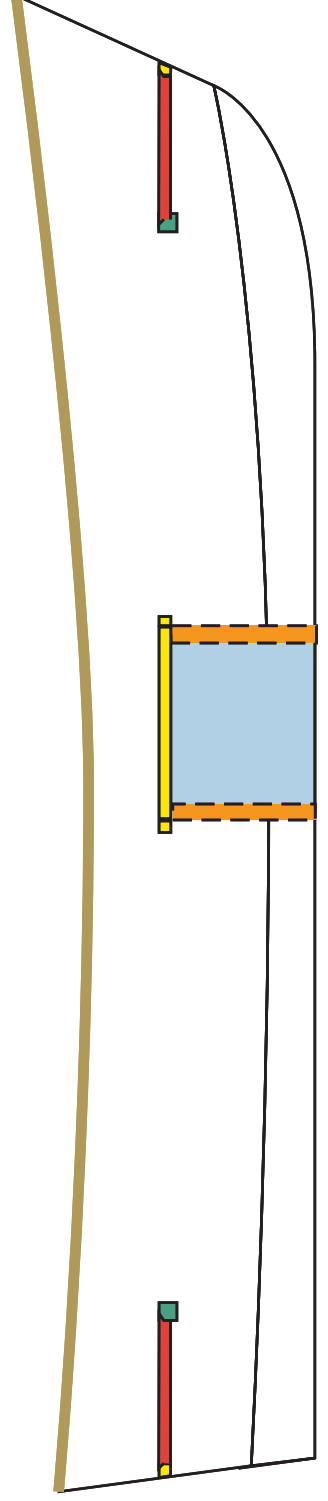
Once you have the daggerboard trunk in place, you can use 2x2's to "extend the level" of the seat height to the ends. Then you size and cut 2x2's for the long edges of the seats. Once those are set you can locate the positions of the 1x1's on the bow and stern panels.

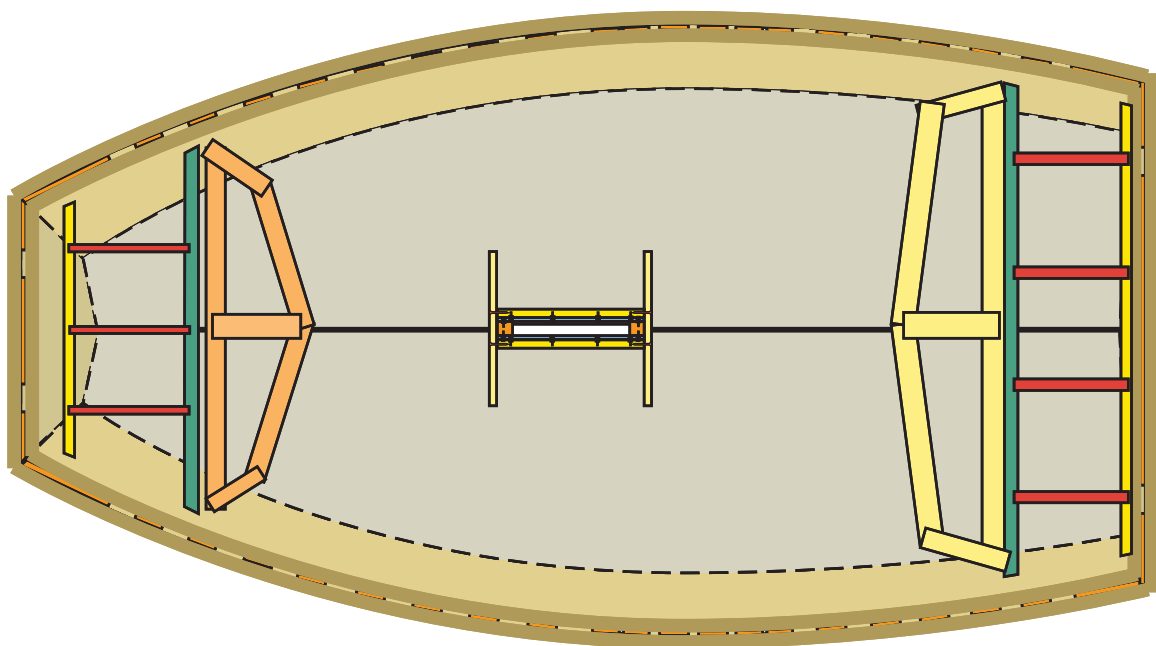
Use a level to be sure the 2x2's are even side to side.



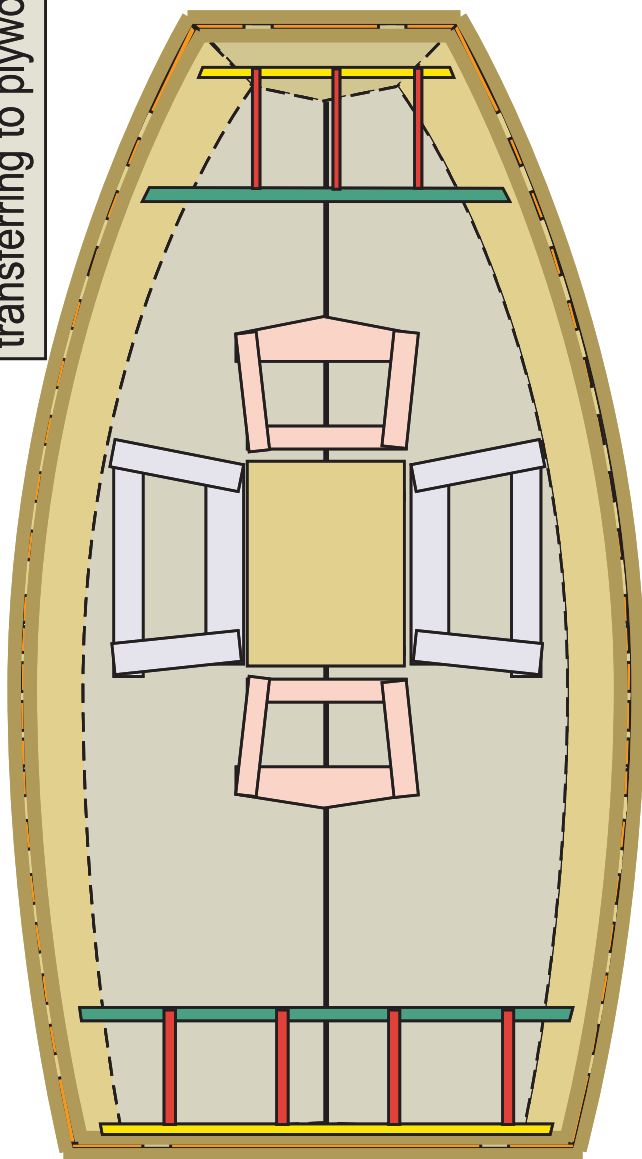
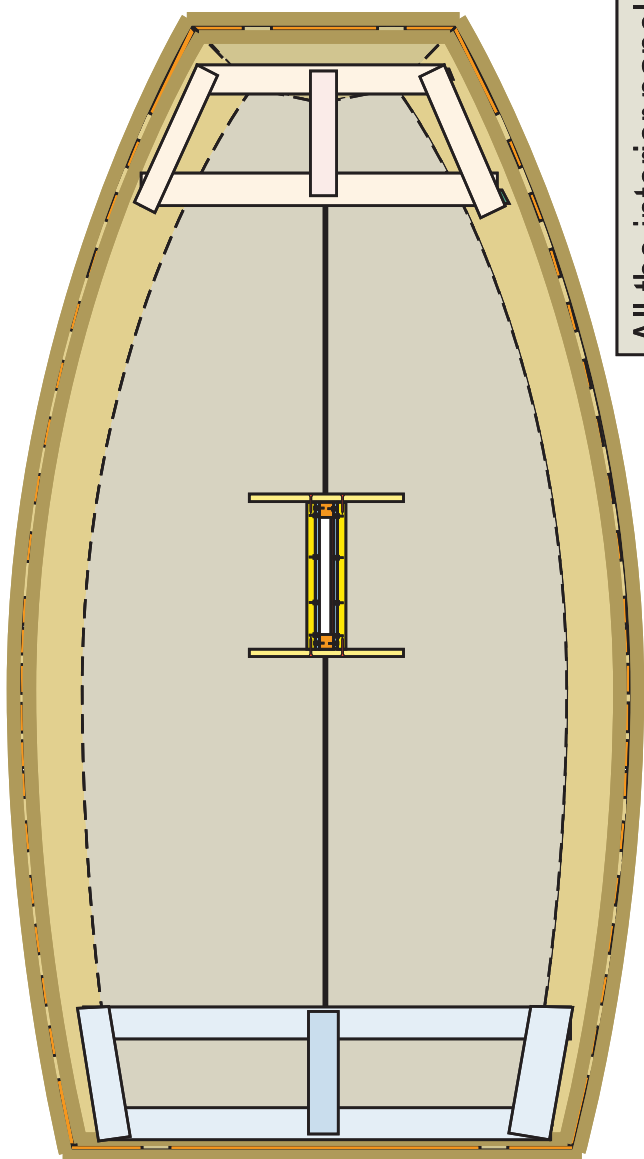


Now you have all the interior parts needed to size and cut the seat tops and side panels. You can either size and locate "full sized" cardboard templates, or use the easier "edge strip method to make your interior panels. Study the next few pages.

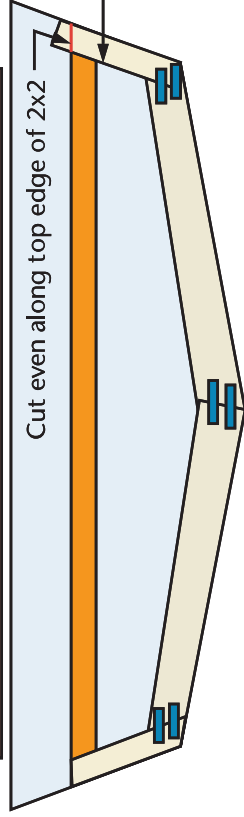




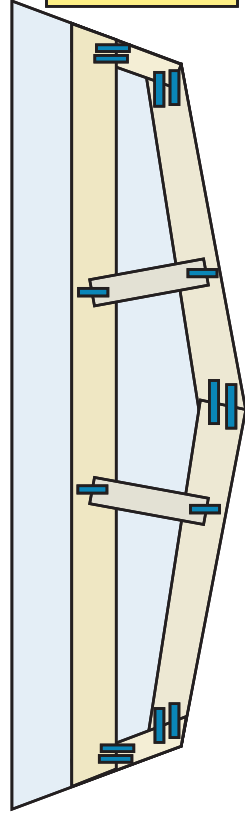
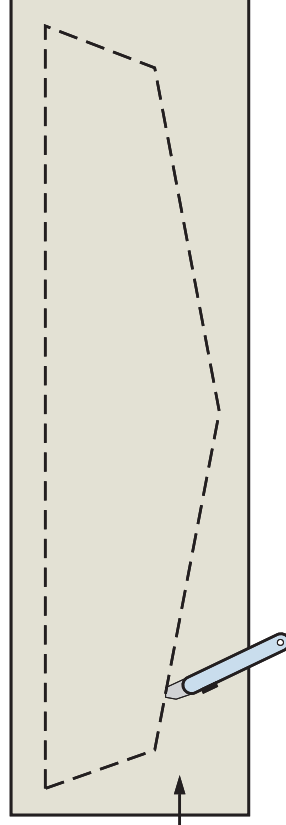
All the interior panels
"edge stripped" for
transferring to plywood.



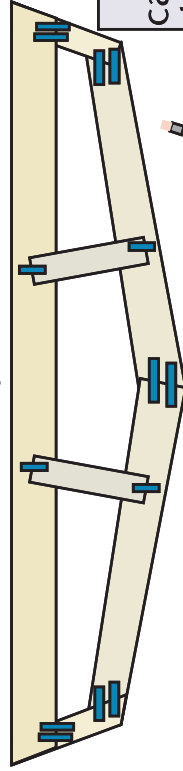
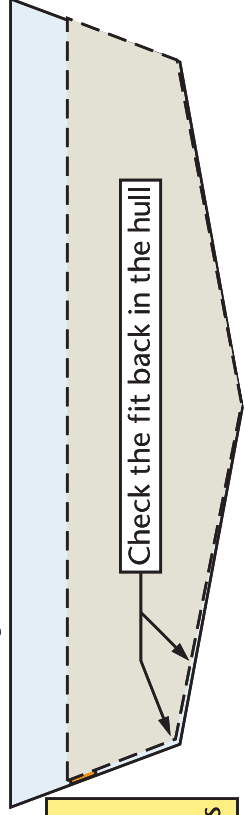
An easier way to fit the interior panels!



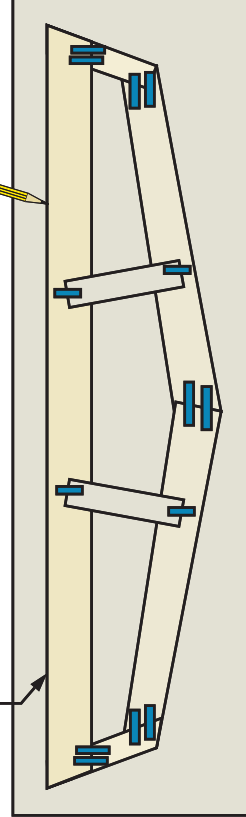
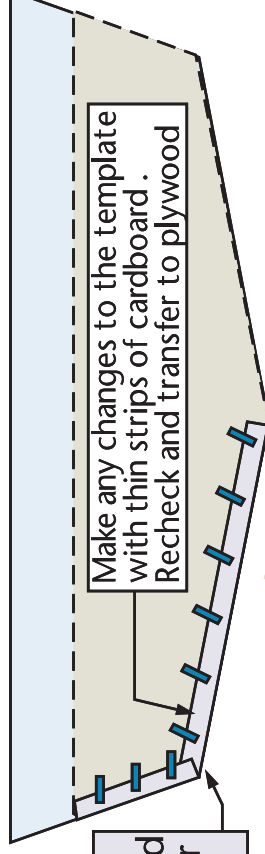
Cardboard strips sheet



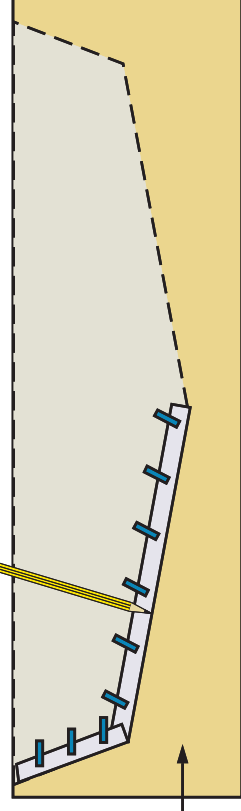
This is an alternative to using a spiling stick to find the dimensions to the interior panels

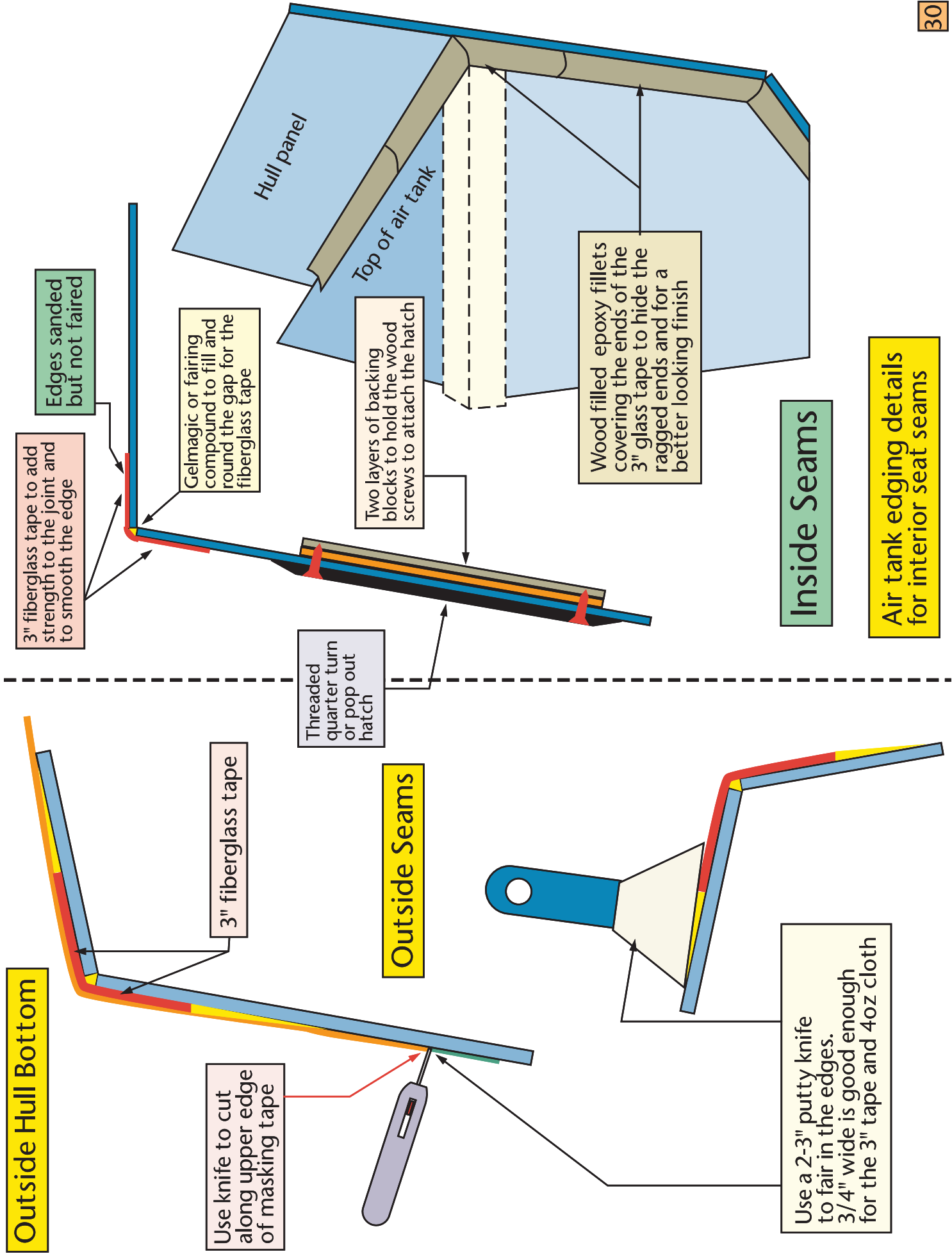


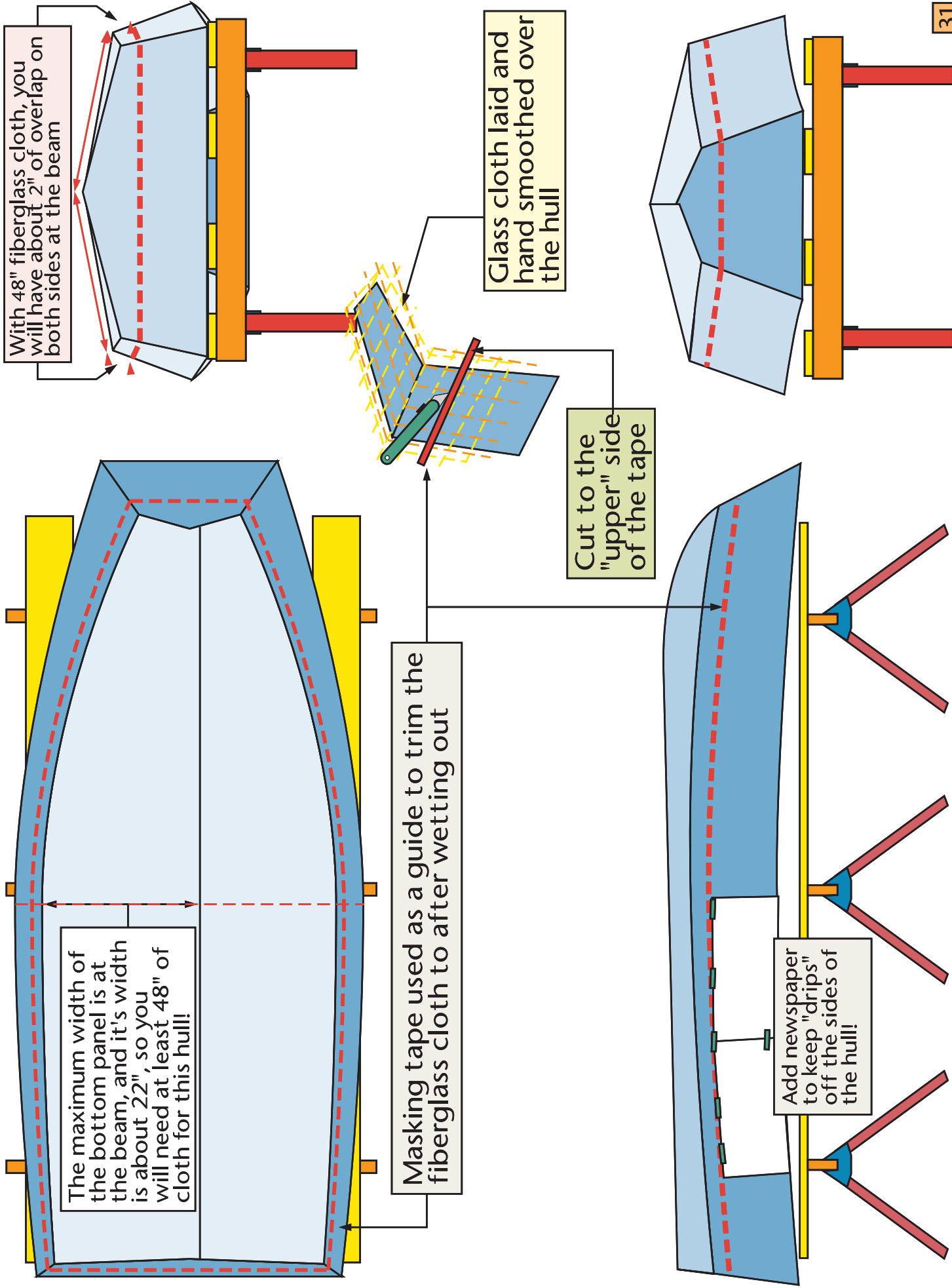
Light weight cardboard taped to template for a better fit



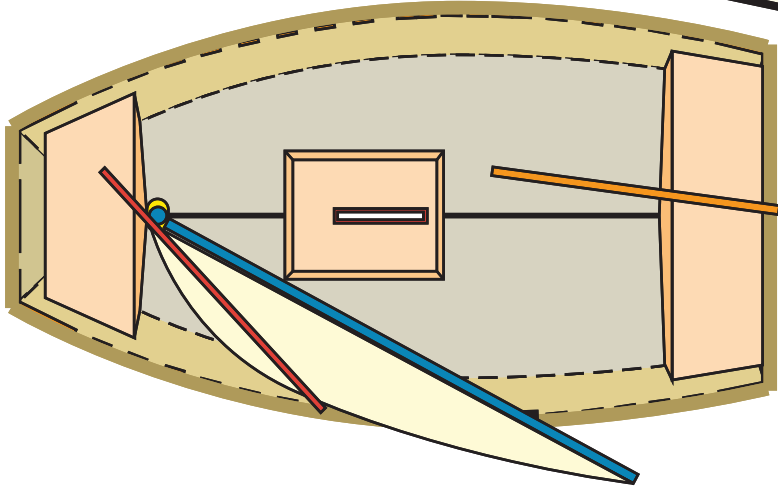
Plywood sheets



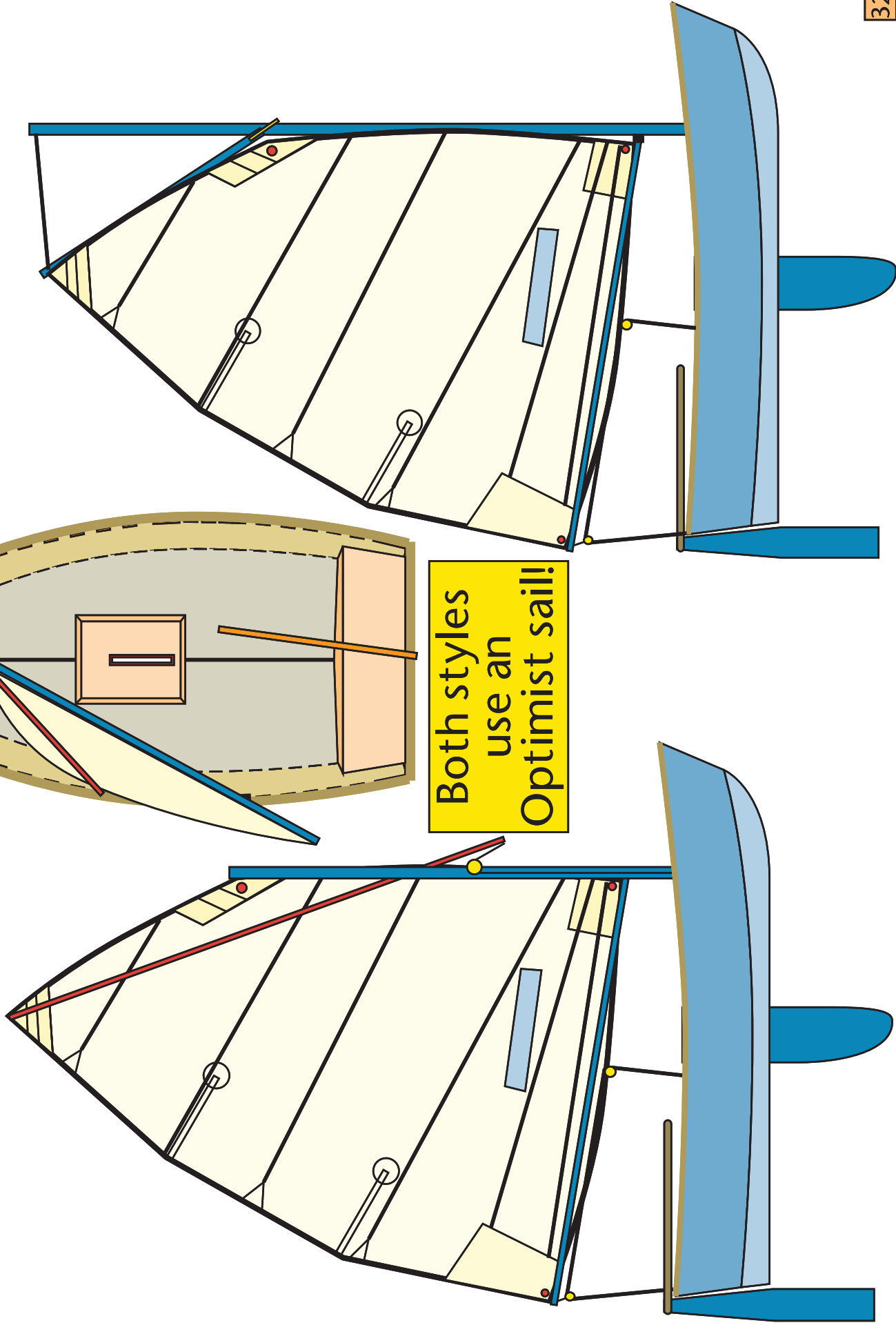




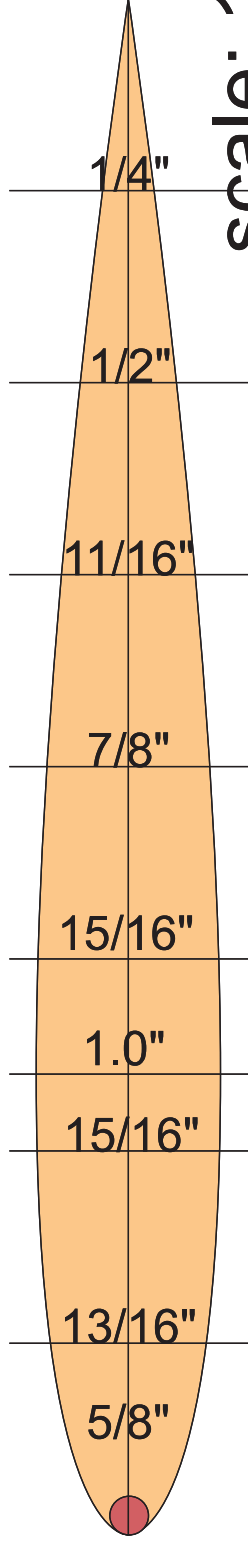
Sprit Rig



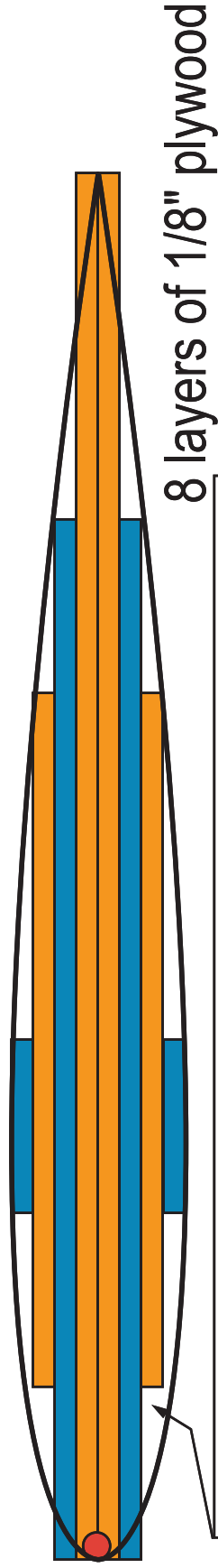
Gaff Rig



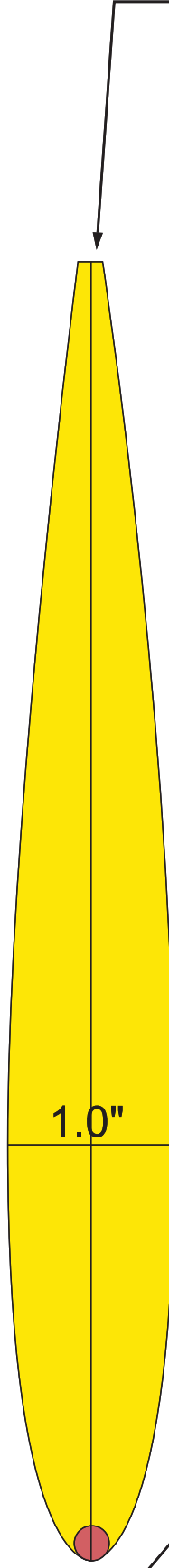
NACA 0012 - 8 Inch rudder



scale: 1" = 1"



Stair steps filled with "fillet" material and shaped to a smooth finish



Cut to 7 1/2" on trailing edge

